QUICK REFERENCE

GENERAL INFORMATION.................................................. 801-863-8000
Accessibility Services......................................................... 863-8747
Admissions........................................................................... 863-8466
Athletics............................................................................. 863-8653
Bookstore............................................................................ 863-8641
Campus Connection (ID Desk)............................................. 863-8797
Campus Police...................................................................... 863-5555
Career and Academic Counseling......................................... 863-8425
Career Services and Student Employment............................. 863-6364
Cashier............................................................................... 863-7200
College of Humanities and Social Sciences............................ 863-7435
College of Science and Health............................................. 863-6441
College of Technology and Computing................................. 863-8321
College Marketing and Communications................................. 863-8206
Concurrent Enrollment........................................................... 863-8376
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Financial Aid and Scholarships............................................. 863-8442
Graduation.......................................................................... 863-8438
Institutional Advancement..................................................... 863-8205
International Center............................................................... 863-8342
Library.................................................................................. 863-8886
Events Center...................................................................... 863-8767
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
University College................................................................. 863-6712
UVU Review (Student Newspaper)......................................... 863-8688
Veteran's Office..................................................................... 863-8212
Wasatch Campus.................................................................... 863-6601
Weekend College/Evening School........................................ 863-8449
Women's Resource Center..................................................... 863-8080
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This issue of the Utah Valley University catalog contains information about every facet of the institution as currently approved by the governing boards. This catalog is not to be considered a binding contract between Utah Valley University and any student or other institution. The University reserves the right to change its role, policies, or course offerings from time to time.

The University offers programs at its several campus sites including Orem campus, Provo Airport campus, West campus, North Valley Center, Wasatch campus. The UVU semester class schedule designates at which campus site each class section is taught.
Catalog 2010/2011
## SUMMER TERM 2010
- **Session I (15 weeks)**: May 5 - August 13
- **Session II (7 1/2 weeks)**: May 5 - June 23
- **Session III (7 1/2 weeks)**: June 24 - August 13
- **Session IV (10 Saturdays)**: May 8 - July 17
- **Summer Term Holidays**: Memorial Day: May 31, Independence Day: July 5, Pioneer Day: July 23

## FALL SEMESTER 2010
- **Faculty Return**: August 18
- **Classes Begin**: August 25
- **Weekend Classes Begin**: August 28
- **Labor Day Holiday**: September 6
- **Fall Break Holidays**: October 14, 15
- **Weekend Classes Holiday**: October 16
- **First Block Classes End**: October 18
- **Second Block Classes Begin**: October 19
- **Thanksgiving Holidays**: November 24-26
- **Weekend Classes Holiday**: November 27
- **Classes End**: December 9
- **Study Day**: December 10
- **Final Exams**: December 13-16
- **Fall Semester Ends**: December 16
- **Faculty Contract Day**: December 17
- **Weekend Classes Final Exams**: December 18,

## SPRING SEMESTER 2011
- **Faculty Return**: January 3
- **Classes Begin**: January 5
- **Weekend Classes Begin**: January 8
- **Martin Luther King Jr. Day Holiday**: January 17
- **President's Day Holiday**: February 21
- **First Block Classes End**: February 25
- **Second Block Classes Begin**: February 28
- **Spring Break Holidays**: March 16-17
- **Weekend Classes Holiday**: March 19
- **Classes End**: April 21
- **Study Day**: April 22
- **Weekend Classes Final Exams**: April 23
- **Final Exams**: April 25-28
- **Spring Semester Ends**: April 28
- **Faculty Contract Day**: April 29
- **Commencement**: April 29

## FINANCIAL AID IMPORTANT DATES AND DEADLINES (Spring 2011)
- **First Priority Date Financial Aid -- Spring Only**: October 1, 2009
- **New Student Scholarship Deadline (first priority)**: February 1, 2009
- **Continuing Student Scholarship Deadline (first priority)**: March 1, 2009

## SUMMER TERM 2011 (Subject to change)
- **Session I (14 weeks)**: May 9 - August 12
- **Session II (7 weeks)**: May 9 - June 24
- **Session III (7 weeks)**: June 27 - August 12

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

## FINANCIAL AID IMPORTANT DATES AND DEADLINES (Fall 2010)
- **First Priority Date Financial Aid -- Fall/Spring**: May 1, 2009
- **First Priority Date Financial Aid -- Spring Only**: October 1, 2009
- **New Student Scholarship Deadline (first priority)**: February 1, 2009
- **Continuing Student Scholarship Deadline (first priority)**: March 1, 2009

*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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Catalog 2010-2011
Utah Valley University
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 October 2008, the Northwest Commission on Colleges and Universities, an institutional accrediting body recognized by the Council for Higher Education Accreditation, granted Utah Valley University candidacy at the masters degree level, while retaining accreditation at the associate and baccalaureate degree levels.

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)
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.
### 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.

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**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 office of the Assistant Director of Admissions. 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.

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.

2. Nonrefundable, one time only, $35 application fee accompanying first Application for Admission. ($100 nonrefundable fee for international applicants). Application deadline: Fall Semester, Aug. 15; Spring Semester, Dec. 20.

3. An ACT/SAT test score 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.

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.

Assessment
All first-time students are required to satisfy the University’s assessment requirement prior to being classified as “matriculated” (degree seeking) into any major of the University. Individual courses (e.g. Mathematics, English) may require a passing score on one or more subtests of the Assessment Battery as a course prerequisite for enrollment.

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 Policy of the State Board of Regents.
Nonresident students should note that residency does not change automatically. Proper documentation must be filed with Admissions for review and approval prior to residency status being changed.

Applicants for residency classification should allow two 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 third week of a given semester. Applications/Supporting documentation received after the third week of the semester will not be considered until the next semester. Residency changes are not retroactive.

Returning Students
Students returning to UVU after a break of one year 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 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 or the student has attended school for more than one year and uses a semester other than summer as a vacation. The 12 credit-hour requirement may not include repeated classes or audit classes.

Hospitalization 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.

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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 classes 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 three 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
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 classes (through the third week for full semester classes). 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 fulfill 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 student fees are established by the Utah State Board of Regents. Tuition and other charges 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 dropped.

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

<table>
<thead>
<tr>
<th>2010-2011 UNDERGRADUATE TUITION AND GENERAL FEE SCHEDULE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>RESIDENT</strong></td>
</tr>
<tr>
<td><strong>NON-RESIDENT</strong></td>
</tr>
<tr>
<td><strong>Hours</strong> <strong>Tuition</strong> <strong>Fees</strong> <strong>Total</strong></td>
</tr>
<tr>
<td>0.5 <strong>203.00</strong> <strong>35.00</strong> <strong>238.00</strong></td>
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</tr>
<tr>
<td>1.5 <strong>345.00</strong> <strong>77.00</strong> <strong>422.00</strong></td>
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<tr>
<td>2.0 <strong>416.00</strong> <strong>98.00</strong> <strong>514.00</strong></td>
</tr>
<tr>
<td>2.5 <strong>487.00</strong> <strong>119.00</strong> <strong>606.00</strong></td>
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<tr>
<td>3.0 <strong>558.00</strong> <strong>140.00</strong> <strong>698.00</strong></td>
</tr>
<tr>
<td>3.5 <strong>629.00</strong> <strong>161.00</strong> <strong>790.00</strong></td>
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<td>4.0 <strong>700.00</strong> <strong>182.00</strong> <strong>882.00</strong></td>
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<tr>
<td>4.5 <strong>771.00</strong> <strong>203.00</strong> <strong>974.00</strong></td>
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<td>5.0 <strong>842.00</strong> <strong>224.00</strong> <strong>1,066.00</strong></td>
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<tr>
<td>5.5 <strong>913.00</strong> <strong>245.00</strong> <strong>1,158.00</strong></td>
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<tr>
<td>6.0 <strong>984.00</strong> <strong>266.00</strong> <strong>1,250.00</strong></td>
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<tr>
<td>6.5 <strong>1,055.00</strong> <strong>287.00</strong> <strong>1,342.00</strong></td>
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<tr>
<td>7.0 <strong>1,126.00</strong> <strong>308.00</strong> <strong>1,434.00</strong></td>
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<tr>
<td>7.5 <strong>1,197.00</strong> <strong>329.00</strong> <strong>1,526.00</strong></td>
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<td>9.5 <strong>1,481.00</strong> <strong>413.00</strong> <strong>1,904.00</strong></td>
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<tr>
<td>10.0 <strong>1,552.00</strong> <strong>434.00</strong> <strong>2,006.00</strong></td>
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<td>24.5 <strong>1,836.00</strong> <strong>1,043.00</strong> <strong>3,090.00</strong></td>
</tr>
<tr>
<td>25.0 <strong>1,836.00</strong> <strong>1,064.00</strong> <strong>3,121.00</strong></td>
</tr>
</tbody>
</table>

For each credit hour over 25, $142 per credit hour will be assessed for residents and $448 per credit hour for non-residents.

- Application Fee .................................. $35
- Late Admission Application Fee (After deadline of August 15 for Fall and December 20 for Spring) ............. $100
- Foreign Student Admission Fee .......... $100
- Graduation Fee ................................... $20
- Late Graduation Fee ................ $25
- Special Lab and Course Fees ... (see online class schedule)
- Challenge Credit Fee .................. $5 per credit hour
- Challenge Credit Form .................. $15
- Add Card Fee .................................. $10
- For each credit hour over 25 ..........
  - Resident .................................. $134
  - Non-resident .......................... $435
- Baccalaureate Fee ........ $20
- Late Tuition Payment Fee ........ $100
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.
INTRODUCTION

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) are listed below and change annually. (Note: A “commuter” is a 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 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>$1,692</td>
<td>$1,692</td>
<td>$1,692</td>
</tr>
<tr>
<td>Living Expenses</td>
<td>$9,602</td>
<td>$13,938</td>
<td>$13,938</td>
</tr>
</tbody>
</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 the online UVU Financial Aid Data Form and Loan Counseling at www.uvu.edu and submit it to the Financial Aid and Scholarship Office.

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 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/DEADLINES

- May 1: Federal/State financial aid for Fall Semester 1st priority processing.
- June 15: Federal/State financial aid final processing for academic year example: 2010-2011 financial deadlines are June 15, 2011
Financial Aid and Scholarships

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 need 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)*

FEDERAL ACADEMIC COMPETITIVENESS GRANTS (ACG) is awarded to freshman and sophomores who completed a rigorous high school program.

NATIONAL SCIENCE AND MATHEMATICS ACCESS TO RETAIN TALENT GRANTS (SMART) is awarded to juniors and seniors majoring in computer science, life science, mathematics, physical science, or technology.

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) WORK-STUDY is available to eligible Utah residents only, and 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 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, 2010, through June 30, 2011, will be a fixed rate of 4.5%. 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 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 unsubsidized may not exceed the cost of education minus financial aid. The interest rate for new loans disbursed July 1, 2010, through June 30, 2011, will be a fixed rate of 6.8%. 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 PARENT LOANS FOR UNDERGRADUATE STUDENTS (FLPLUS) 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 FLPLUS 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>Stafford Annual Limit</th>
<th>Perkins Annual Limit</th>
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<tbody>
<tr>
<td>1</td>
<td>0 - 29.9</td>
<td>$3,500</td>
<td>$3,000</td>
</tr>
<tr>
<td>2</td>
<td>30 - 65</td>
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<tr>
<td>3</td>
<td>66 - 192</td>
<td>$5,500</td>
<td>$3,000</td>
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<tr>
<td>Aggregate</td>
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<td>$20,000</td>
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<tr>
<td>Subsidized</td>
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<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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 grid at www.uvu.edu/financialaid/scholarships) if they are admitted to UVU and they have current official high school transcripts with ACT scores or college transcripts on file with the Scholarship Office by February 1st for Fall & Spring two-semester awards; December 1 for Spring Academic Merit Scholarships, for new or transfer students starting spring semester. 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 801-863-8998 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 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 aid. “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.

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 for 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 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
Financial Aid and Scholarships

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.

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

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, 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.uheaa.org or in the Financial Aid Office.

Prevention of drug and alcohol abuse: Refer to the Institution Catalog or 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 on 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 and Standards

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

The following grades are not computed in the GPA:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>W</td>
<td>Official Withdrawal</td>
</tr>
<tr>
<td>I</td>
<td>Incomplete</td>
</tr>
<tr>
<td>AU</td>
<td>Audit</td>
</tr>
<tr>
<td>CR</td>
<td>Credit Granted</td>
</tr>
<tr>
<td>NC</td>
<td>No Credit Granted</td>
</tr>
<tr>
<td>CEU</td>
<td>Noncredit—Continuing Education Unit</td>
</tr>
</tbody>
</table>

The GPA is determined by dividing the total grade points earned (credit hours times grade in points above) by the number of semester hours attempted.

Students may view final grades electronically on the UVLink system after the end of the semester/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. Nonpunitive "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 which will be used in calculating Grade Point Average (GPA).

Cooperative Education

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

<table>
<thead>
<tr>
<th>Credit Hours</th>
<th>Minimum Hours of Work</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>75</td>
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<tr>
<td>2</td>
<td>150</td>
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<tr>
<td>3</td>
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<td>5</td>
<td>375</td>
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<tr>
<td>6</td>
<td>450</td>
</tr>
<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 which 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.

General Education for Transfer Students

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

An AA or an AS degree earned at any USHE institution will meet the General Education requirements of UVU.

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 Association of Colleges and Universities (NACU)
• 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 advisors, 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 the Institution 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
   f. complete an advanced course with a grade of “C-” or higher as a validation procedure (if deemed necessary by the department);

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 16 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 language 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 10 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 which 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

0000-0999 Remedial or preparatory noncredit courses; may not be counted toward a certificate, diploma, associate, or bachelor's degree.
Technical, nontransferable courses may count toward a certificate.
1000-2999 Lower division (freshman and sophomore courses); courses designed as transfer courses; count toward a certificate, diploma, associate, and/or bachelor's degree.
3000-4990 Upper division (junior and senior courses); courses designed to count toward a bachelor’s degree, or any other degree as required by department.

5000-6000 Graduate courses; regular courses in master’s level programs.

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

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

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

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

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

**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 short 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 their 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 a 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 to 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.
Utah Valley University offers the following degrees: Master of Education, Master of Nursing, Master of Business Administration; 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
Beginning Fall of 2008, a graduation requirement, the Global Intercultural Requirement, will be put in place for all students graduating with a Bachelor's
following 2008, or later, catalog requirements. The purpose of the Global/Intercultural requirement is to assist our students to become better prepared to understand and participate in the global and diverse cultural interdependencies that characterize our world.

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.

**Global Intercultural Courses**

The following is a list of the courses that fill the Global/Intercultural requirement:

- ANTH 101G Soc Cult Anthropology SS GI .......................... 3.0
- ANTH 107G Multicultural Societies SS GI .......................... 3.0
- ANTH 180G Intro Am Indian Studies SS GI .......................... 3.0
- ARTH 399G Intro to Western Ance Art GI .......................... 3.0
- ASL 202G Intern American Sign Lang II .......................... 4.0
- ASL 395G Intro to Human Communication .......................... 3.0
- AVSC 410G Global Ethic Prof Iss Aviat GI .......................... 3.0
- CHIN 202G Intern Chinese II .......................... 4.0
- CJ 470G Comp Criminal Justice Sys GI .......................... 3.0
- COMM 207G Intro Gender and Communicat GI .......................... 3.0
- COMM 210G Race Class Gender US Cinema GI .......................... 3.0
- COMM 316G Global Cinema History GI .......................... 3.0
- COMM 319G InternCurr Comm Encounters GI .......................... 3.0
- COMM 332G Cross Cult Comm Intl Bus GI .......................... 3.0
- COMM 362G International Communication GI .......................... 3.0
- CS 305G Global Soc Eth Issue Comput GI .......................... 3.0
- DANC 356G World Dance Forms GI .......................... 3.0
- DENT 360G Intercultural Dental Edu .......................... 3.0
- DENT 460G Global Project .......................... 3.0
- DGM 312G Digital Media Internl Comm GI .......................... 3.0
- EDEL 330G Multicultural Understanding GI .......................... 3.0
- EDEL 443G Teach Engl as Second Lang GI .......................... 3.0
- EDSC 445G Multicult Instruction ESL GI .......................... 3.0
- ENGL 217G Race Class Gender US Cinema GI .......................... 3.0
- ENGL 314G Global Cinema History GI .......................... 3.0
- ENGL 374G Literature of the Sacred GI .......................... 3.0
- ENGL 376G World Literature HH GI .......................... 3.0
- ENGL 476G Multi Ethnic Lit in America GI .......................... 3.0
- ESMG 310G Intro to Homeland Security GI .......................... 3.0
- FREN 202G Intern French II .......................... 4.0
- GER 202G Intern German II .......................... 4.0
- HIST 151G World History 1500 Pres SS GI .......................... 3.0
- HIST 180G Intro Amer Indian Studie SS GI .......................... 3.0
- HIST 328G Women American Hist to 1877 .......................... 3.0
- HIST 321G Women American Hist Since 1877 .......................... 3.0
- HIST 381G Precolombian America GI .......................... 3.0
- HIST 383G Indians of the Great Plains GI .......................... 3.0
- HIST 384G Indians of the Southwest GI .......................... 3.0
- HIST 385G Amer Indians 1891 to Pres GI .......................... 3.0
- HIST 430G Viol Soc Conflict Latin America .......................... 3.0
- HIST 432G History of the American West .......................... 3.0
- HLTH 350G International Health GI .......................... 3.0
- HLTH 440G Health and Diversity GI .......................... 3.0
- HUM 101G Humanities Through Arts .......................... 3.0
- HUM 201G Arts Humanistic Trad I .......................... 3.0
- HUM 202G Arts Humanistic Trad II .......................... 3.0
- INFO 405G Global Ethic Prof Iss Tech GI .......................... 3.0
- JPN 202G Intern Japanese II .......................... 4.0
- MGMT 330G Survey Internatl Business GI .......................... 3.0
- MGMT 332G Cross Cult Comm Intl Bus GI .......................... 3.0
- MGMT 335G International Marketing .......................... 3.0
- MUSC 102G Intro to World Music GI .......................... 3.0
- NURS 441G Nursing Global Perspectives GI .......................... 3.0
- PHIL 205G Ethics and Values HH GI .......................... 3.0
- POLS 200G Intro to Political Theory GI .......................... 3.0
- POLS 356G Comp Politics Central Asia GI .......................... 3.0
- POLS 359G Amer Indian Law Tribal Govt .......................... 3.0
- PORT 202G Intern Portuguese II .......................... 4.0
- RUS 202G Intern Russian II .......................... 4.0
- SOC 326G Race and Minority Rel GS GI .......................... 3.0
- SPAN 202G Intern Spanish II .......................... 4.0
- TECH 405G Global Ethic Prof Iss Tech GI .......................... 3.0
- THEA 314G Global Cinema History GI .......................... 3.0

**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 and may, in addition, earn AAS degree(s) and bachelor degree(s). A student having an AS/AA degree may not earn another AS/AA degree at UVU. However, a student having an AAS degree from another college may earn additional AAS degree(s) and/or an AS/AA degree at UVU, as well as earning a bachelor’s degree and multiple emphases.

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. Thirty 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. Majors 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 of Education**

Please see catalog entries for the Graduate Office and the School of Education 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

**NOTE: Academic Departments may require specific general education courses in addition to major requirements.**

**Multiple Emphases**

Additional emphases (not tracks or specialties) under a specific bachelor’s degree may be earned by completion of the requirements for those emphases. Additional emphases will appear on transcripts, but no additional diplomas will be awarded.
Graduation and General Education

**Associate in Science/Arts Degree**
Graduation requirements for the Associate in Science/Arts Degree are:

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

**NOTE:** Academic departments may require specific general education courses in addition to major requirements.

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

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

- Eight credits of the same language taken at UVU or transferred from another college or university;
- 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 earned through course attendance at UVU;
- 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 UVLink 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. 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 Science/Associate in Arts 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 gained from General Education 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.

**NOTE:** Students taking general education courses without having declared a specific
major are advised in the Career and 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 Science/Arts Degrees and Bachelor of Science/Arts Degrees:

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AS</td>
<td>American Institutions</td>
</tr>
<tr>
<td>BB</td>
<td>Biology</td>
</tr>
<tr>
<td>CC</td>
<td>English Composition</td>
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<tr>
<td>FE</td>
<td>Fitness for Life</td>
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<tr>
<td>FF</td>
<td>Fine Arts</td>
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<tr>
<td>GI</td>
<td>Global Intercultural Requirement</td>
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<tr>
<td>HH</td>
<td>Humanities</td>
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<tr>
<td>IH</td>
<td>Ethics and Values</td>
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<tr>
<td>LH</td>
<td>Foreign Language</td>
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<tr>
<td>MM</td>
<td>Mathematics</td>
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<tr>
<td>PP</td>
<td>Physical Science</td>
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<tr>
<td>SS</td>
<td>Social Science</td>
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<tr>
<td>TE</td>
<td>Personal Health</td>
</tr>
<tr>
<td>XF</td>
<td>Must be taken with another course to equal FF (see department)</td>
</tr>
</tbody>
</table>

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 Science and the Associate in Arts 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 physical fitness.

Complete the following: 6 credits

- ENGL 1010 Introduction to Writing
- ENGL 2010 Intermediate Writing—Humanities/Social Science

or

ENGL 2020 Intermediate Writing—Science and Technology

Complete one: 3 or 4 credits

- 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*)
- One course that requires MATH 1050 as a prerequisite (excluding MATH 1050)
- 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 2200 & 2210 US History to 1877
- HIST 1700 American Civilization
- HIST 1740 US Economic History
- POLS 1100 American National Government

Complete the following: 5 credits

- PHIL 2050/2050G Ethics and Values
- HLTH 1100 Personal Health & Wellness
- PES 1097 Fitness for Life

Distribution Requirements 18 credits

DISTRIBUTION REQUIREMENTS

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
- BIOL 1070 Genetics
- BIOL 1200 Prehistoric Life
- BIOL 1500 Biological Anthropology
- BIOL 1610 College Biology I
- BIOL 1620 College Biology II
- BIOL 204R Natural History Excursion
- BIOL 2500 Environmental Biology

- BOT 2050 Field Botany
- BOT 2100 Flora of Utah
- BOT 2400 Plant Kingdom
- BTEC 1010 Fundamentals in Biotechnology
- HLTH 3400 Human Diseases
- MICR 2060 Microbiology for Health Professions
- NUTR 2200 Nutrition Through Life Cycle
- ZDOL 1090 Introduction to Human Anatomy/Physiology
- ZDOL 2200 Human Anatomy

*May be used as the third science only

Physical Science

- ASTR 1040 Elementary Astronomy
- CHEM 1010 Introduction to Chemistry
- CHEM 1110 Elemen. Chemistry for the Health Sciences
- CHEM 1120 Elementary Organic Chemistry
- CHEM 1210 Principles of Chemistry I
- CHEM 1220 Principles of Chemistry II
- ENV 1110 Intro to Environmental Mgmt
- GEO 1010 Introduction to Geology
- GEO 1020 Prehistoric Life
- GEO 1080 Introduction to Oceanography
- GEO 1220 Historical Geology
- GEO 204R Natural History Excursion
- METO 1010 Introduction to Meteorology
- METO 1080 Climate of the Earth
- PHYS 1010 Survey of Physical Science
- PHYS 1010 Elementary Physics
- PHYS 1040 Elementary Astronomy
- PHYS 1070 Cultural Astronomy
- PHYS 1080 Life in the Universe
- PHYS 1700 Physics Descriptive Acoustics
- PHYS 1800 Energy You and the Environment
- PHYS 2010 College Physics I
- PHYS 2020 College Physics II
- PHYS 2210 Physics for Scientists/Engineers I
- PHYS 2220 Physics for Scientists/Engineers II
- TECH 1010 Understanding Technology

*Baccalaureate Requirements

- AMST 2000 Introduction to American Studies
- ASL 202G Intermediate American Sign Language II
- CHIN 202G Intermediate Chinese II
- COMM 1020 Public Speaking
- COMM 1050 Introduction to Speech Communication
- COMM 1500 Introduction to Mass Communications
- ENGL 2030 Rhetoric of Persuasion
- ENGL 2130 Science Fiction
- ENGL 217G Race Class and Gender in US Cinemas
- ENGL 2200 Introduction to Literature
- ENGL 2230 Myth/legends in Literature
- ENGL 2250 Creative Procedure/Image Writing
- ENGL 2300 Shakespeare
- ENGL 2310 Technical Communication
- ENGL 2510 American Literature before 1865
- ENGL 2520 American Literature after 1865
- ENGL 2650 Critical Introduction to Literature
- ENGL 2810 British Literature Before 1800
- ENGL 2820 British Literature After 1800
- ENGL 3760 World Literature
- FREN 202G Intermediate French II
- GER 202G Intermediate German II
- HUM 1010/101G Humanities Through the Arts
- HUM 2100/201D Arts in Humanistic Traditions I
- HUM 2200/202D Arts in Humanistic Traditions II
- JPN 202G Intermediate Japanese II
- PHIL 1000 Introduction to Philosophy
- PHIL 1250 Logical Thinking and Philosophical Writing
- PHIL 1610 Western Religions
- PHIL 1620 Eastern Religions
- PHIL 2100 Ancient Philosophy
- PHIL 2130 Medieval Philosophy
- PHIL 2150 Early Modern Philosophy
- PORT 202G Intermediate Portuguese II
- RUS 202G Intermediate Russian II
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 I .................................................. 3.0
ART 1350 Ceramics I .................................................. 3.0
ART 1650 Watermedia ................................................. 3.0
ART 1720 Architectural Rendering ................................. 3.0
ART 2630 Painting I ................................................... 3.0
ART 3400 Fundamentals of Art Education ......................... 2.0
ARTH 2710 History of Art to the Renaissance .................... 3.0
ARTH 2720 History of Art from the Renaissance .................. 3.0
DANC 1010 Dance as an Art Form .................................. 3.0
DANC 2110 Orientation to Dance .................................... 3.0
MUSIC 1010 Introduction to Music ................................ 3.0
MUSIC 1030 American Popular Music ............................ 3.0
MUSIC 1100 Fundamentals of Music ................................ 3.0
THEA 1013 Introduction to Theater ................................ 3.0
THEA 1023 Introduction to Film .................................... 3.0
THEA 1033 Fundamentals of Acting ................................ 3.0
THEA 2313 Film History I ............................................. 3.0
THEA 3713 Theatre and Drama Elem School ....................... 3.0

Complete 2 of the following to equal 1 Fine Arts Distribution course:

DANC 3400 Dance in Elementary School* ........................ 2.0
MUSIC 3400 Music in Elementary School* ......................... 2.0

D. SOCIAL/BEHAVIORAL SCIENCE—ONE COURSE MINIMUM

ANTH 101G Social/Cult Anthropology .............................. 3.0
ANTH 107G Multicultural Societies .................................. 3.0
ANTH 1020 Biological Anthropology ............................... 3.0
ANTH 180G Introduction to American Indian Studies .............. 3.0
ARCH 1100 Introduction to Archaeology ............................ 3.0
CL 1101 Introduction to Criminal Justice ........................... 3.0
COMM 2110 Interpersonal Communications ........................ 3.0
ECON 1010 Economics As Social Science ......................... 3.0
ECON 2010 Microeconomics ......................................... 3.0
ECON 3210 urges Microeconomics .................................... 3.0
ECON 1060 Personal Finance ........................................... 3.0
EGEO 1300 Survey of World Geography ............................. 3.0
EGEO 1400 Introduction to Human Geography .................... 3.0
EGEO 2100 Geography of U.S. ....................................... 3.0
HIST 2150 World History from 1500 to 1500 ......................... 3.0
HIST 151G World History from 1500 to the Present ................. 3.0
HIST 1700 American Civilization* .................................... 3.0
HIST 1740 US Economic History .................................... 3.0
(Minimum credit as Core requirement)

HIST 1740 US Economic History .................................... 3.0
HIST 270G US History to 1877* ..................................... 3.0
HIST 2710 US History Since 1877* .................................. 3.0
HIST 4320 History of Scientific Thought ............................ 3.0
HIST 4330 Machines in the Making of History ...................... 3.0
HLTH 2600 Drugs, Behavior and Society ........................... 3.0
HLTH 2700 Health Concepts of Death/Dying ....................... 3.0
HLTH 2800 Human Sexuality ........................................ 3.0
MGMT 1010 Introduction to Business ............................... 3.0
MGMT 2030 Women in Business ..................................... 3.0
MGMT 3110 Interpersonal Communications ........................ 3.0
POLS 1000 American Heritage* ..................................... 3.0
POLS 1010 Introduction to Political Science ....................... 3.0
POLS 1100 American National Government* ....................... 3.0
POLS 2100 Introduction to International Relations ................. 3.0
POLS 2200 Introduction to Comparative Politics ................... 3.0
PSY 1010 General Psychology ....................................... 3.0
PSY 1100 Human Development: Life Span .......................... 3.0
PSY 2008 Human Sexuality .......................................... 3.0
SOC 1010 Introduction to Sociology ................................. 3.0
SOC 1020 Modern Social Problems ................................. 3.0
SOC 1200 Sociology of the Family* .................................. 3.0
TECH 2000 Technology and Human Life ............................ 3.0

**If not used as Core Requirement

ADDITIONAL GUIDELINES FOR COMPLETION OF THE ASSOCIATE IN SCIENCE/ARTS DEGREE

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

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

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

See your specific academic department for further information on appropriate course work to complete a pre-major or the remaining 25 hours. The Career and 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 ................................................................. 3 credits
   ENGL 1040 Introduction to Writing
   or
   MGMT 2200 Business Communications

B. MATHEMATICS ....................................................... 3 credits
   MAT 1000 Integrated Beginning and Intermediate Algebra
   or
   MAT 1010 Intermediate Algebra
   or
   Any approved General Mathematics course
   or
   Any approved Departmental Mathematics Course

C. HUMANITIES/FINE ARTS/FOREIGN LANGUAGE ............. 3 credits
   PHIL 2050/205G/205H Ethics & Values (Highly recommended)
   or
   Any approved Humanities, Fine Arts, or Foreign Language
   Distribution Course

D. SOCIAL AND BEHAVIORAL SCIENCE .............................. 3 credits
   MGMT 3000 Organizational Behavior
   or
   Any approved Behavioral Science, Social or Political Science
   Distribution Course

E. BIOLOGY OR PHYSICAL SCIENCE ................................. 3 credits
   Any approved Biology or Physical Science Distribution Course

F. PHYSICAL ED/HEALTH/SAFETY OR ENVIRONMENT ........... 1 credit
   Any approved Physical Education, Health, Safety or Environment
   Course

TRANSFER INFORMATION

For Students Transferring to Four-year Institutions, Colleges and Universities in the Utah System of Higher Education.

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

For students transferring to colleges and universities in the Utah System of Higher Education before earning an Associate in Science or Arts 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.


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.

ACADEMIC RIGHTS

A STUDENT WILL HAVE THE FOLLOWING RIGHTS IN ACADEMIC AFFAIRS, SERVICES, AND INFORMATION WHEN PROPERLY ENROLLED AS A STUDENT AT THE INSTITUTION:

1. Performance evaluation based on a written syllabus.
2. Appropriate and open discussion, inquiry, and expression, both in the classroom and in student/instructor conferences.
3. Freedom to take exception to views presented in a classroom setting and to reserve judgment in matters of opinion.
4. Professional and ethical conduct from all institutional personnel.
5. Competent and professional instruction.
6. Competent academic advisement.
7. Protection against an instructor's improper disclosure of a student's records, academic work, views, beliefs, and political associations.
8. Information prior to registering regarding the costs of tuition, activity fees, lab fees, etc.
9. Scheduled access to and use of institutional services, facilities, and programs.
10. Accurate information regarding course offerings, programs, majors, transfer policies, and institutional requirements and expectations.
11. Accurate information regarding changes in course programs or institution requirements and reasonable accommodations for those already enrolled in a program or classes.
12. The right to receive academic credit and/or academic degrees when all specified requirements and course work have been satisfied.
13. The right to appeal to the Academic Standards Committee regarding grade changes, withdrawals, etc.

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 INFRINGEMENTS (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 terms. Three student members shall be appointed to a one-year term. The Director of Judicial Affairs shall obtain names from the appointing entities annually prior to May 1, and shall send a letter of appointment to those appointed. The Director of Judicial Affairs shall organize the initial term lengths for the rotating members of the Board to allow an orderly rotation. The Director of Judicial Affairs shall chair the Board in a non-voting capacity.

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.

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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.
Student Rights and Responsibilities

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.

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 Infraction 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 of or undermining of the academic integrity of the course, instructors shall refrain from implementing irreversible sanctions (e.g., denying access to class or a final exam) until the student has exhausted all appeals.
   c. Before an appeal, the student must attempt to resolve the issue informally with the instructor.
   d. In case of an appeal, documentary evidence shall be deposited by the instructor and/or the student with the Office of Judicial Affairs. Said Office shall maintain original documents in a secure location and shall make copies available to the parties and the hearing officer for the appeal. Whether or not there is documentary evidence to deposit, the instructor shall file a copy of allegations with the Office of Judicial Affairs. Said copy shall be clearly labeled “under appeal” and shall not become a part of the student’s disciplinary record until appeals are exhausted.
   e. Sanctions may be modified at any point in the appeals process if evidence warrants.
   f. If the student chooses to appeal the instructor’s decision, the appeal must be made in writing to the Department Chair within ten (10) business days of the instructor’s final decision.
   g. The Chair will render a decision in writing to the student and the instructor within ten (10) business days of receiving the student’s written appeal.
   h. If either the student or the instructor chooses to appeal the Chair’s decision, the appeal shall be made in writing to the campus Appeals Board within ten (10) business days of the Chair’s decision, or if the student and instructor agree, the appeal may be made directly to the Dean rather than the Board.
   i. The hearing body, whether it is the Board or the Dean, shall render a decision in writing to the student and the instructor, with a copy to the Chair, within ten (10) days of receiving the written appeal.
   j. If either the student or 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
Student Rights and Responsibilities

- The Campus Appeals Board Chair shall

CAMPUS APPEALS BOARD HEARINGS

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.

P. CAMPUS APPEALS BOARD HEARINGS

- The Campus Appeals Board Chair shall
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/peertutoring  
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 Tutorial Services**
Drop In Lab: LA 201

Manager: Kathryn Van Wagoner  
Office: LA 201  
Telephone: 801-863-8411  
Online: http://www.uvu.edu/mathlab  
E-mail: kathryn.vanwagoner@uvu.edu

The Math Lab offers free drop-in math tutoring for all UVU students in a relaxed, friendly atmosphere. Services include drop-in and individual tutoring, a calculus lab, a statistics lab, a group study room, and live internet tutoring through MathLab Online. The Math Lab also provides workshops and programs to promote student success in math.

**Writing Center**
Drop In Lab: LI 208

Coordinator: Leigh Ann Copas  
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)
http://www.uvu.edu/owl.

ACADEMIC TUTORING
Coordinator: Wendy Simmerman
Office: LA 201
Telephone: 801-863-8310
Online: http://www.uvu.edu/peertutoring
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 on cd’s, note taking, adaptive equipment, educational planning, and other individualized services.

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

The UVU Alumni Association exists to create lasting and mutually beneficial relationships between students, alumni and friends of the University. Today’s students are the beneficiaries of former students, who continue to give to UVU, and replenish the resources they used while they attended school. Just as yesterday’s students were the recipients of gifts from a previous generation, the students of today will be encouraged to replenish the resources they used to obtain their education.

The UVUAA provides benefits and support for over 250,000 UVU alumni, and is responsible for many services, like publishing UVU Magazine, providing benefits programs, Alumni Award, Founder’s Day, and other similar offerings. In addition, the UVUAA 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 UVUAA also sponsors the Student Alumni Board (SAB), which is involved in hosting important events and activities on campus, and at regional and national conferences. In addition, SAB is involved in service projects and fund-raisers for various charitable causes. Membership in SAB is open to all students, but an application must be submitted to the Alumni Office, located in the Alumni Center in AL 207. 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 (Summer semester 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
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 8:00 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
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. 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. Just go to Campus Connection to get a new expiration sticker. Replacement cards (lost, stolen, broken or name changes) are $15.

The UV OneCard Account is a debit account made available for students to deposit funds at Campus Connection or online at https://www.uvu.edu/onecard/ (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 OneCard is used in Dining Services, students receive a 5% discount. There is also a meal plan available that gives 20% off on all meals from Dining Services for $495. 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 $5. You need to have 1/3 current tuition paid and provide your current UV OneCard to Campus Connection in order to obtain a UTA bus pass.

Other Services
Lost and Found for the University Campus; Box Office for various Campus and community events; UTA Bus Passes; Faxes domestic and international; off-campus housing information; general information.

US Post Office
Student Center
Telephone: 801-863-6067

The US Postal Service is also available across the hall from Campus Connection. Stamps (singles, books, and rolls), Packaging Products, Express, Priority, Media-Mail, Bound Printed Matter, Global Priority, Global Express, Global Air Mail, Global Economy, Registered, Certified, Delivery Confirmation, and so forth, are available. Mail pick-up is at 3:00 pm Monday-Friday and 12:45 pm on Saturday. Cash, Check, Credit, Debit Cards and UV OneCards are accepted.

CAREER AND 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 Career and Academic Counseling Center (CACC) 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 Associates in Science (AS) or Associate in Arts (AA) degree in University Studies. The CACC provides the following services:
Student Services

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, review prior education, and plan educational programs.

The CACC 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.

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 Choices career and educational software
• Career resource library
• Vocational evaluation services

CAREER SERVICES AND STUDENT EMPLOYMENT

Office: LC 409
Telephone: 801-863-6364
E-Mail: csse@uvu.edu
http://www.uvu.edu/csse/
Hours: 8:00 am - 5:00 pm M, W, R, F
8:00 am - 6:00 pm T (excluding summer)

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 student employment, and service to society. Our services include access to:

• UV Job Board at www.uvu.edu/csse/ 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
• On-campus student employment
• Federally-funded work study jobs
• Internship opportunities
• Counseling on career employment planning and preparations

The Center for High School Studies offers services to all UVU students who begin their college studies before they have earned a high school diploma. The purpose of the Center is to help students convert college credits into credits that apply toward high school diplomas. Any UVU student can participate regardless of age, school district boundaries, or resident status. Services for the Center include counseling for high school completion, high school level classes, and GED testing information and preparation.

CENTER FOR HIGH SCHOOL STUDIES

Office: 636 North Independence Ave, Provo
Telephone: 801-374-4840
Fax: 801-374-4816

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 MasterMind 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: GB 123J
Telephone: 801-863-8820
Website: www.uvu.edu/ccrr

Child Care Resource and Referral Mountainland (CCR&R) is a community and university state-funded resource for parents who are seeking child care in Utah, Summit, 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 Bureau of Child Care Licensing and Provider Professional Development Program career ladder requirements.

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 ASUVU, 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 UV Clubs Office in LC 101.

EVENTS CENTER

Office: MC 012
Telephone: 801-863-8767

The Events 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 and volleyball games; ballet, symphony, and circus performances; rodeos, 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 also involved in crowd interaction and may be seen hanging from the rafters or dropping through the middle of the basketball hoop to excite fans.

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

Dance Team

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

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 on 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, Fresh Wrapz, The Italian Café, Hogi-Yogi, Teriyaki Stix, and La Esquina.

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 Loomis Center. 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 A.L. 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.

Tryouts 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 includes 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 Event Center. Dining Service provides an excellent source of employment opportunities for UVU students in all of these venues.

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 girls’ conference and the bi-annual Clothesline Project, which is a violence awareness and prevention program held in April and October. Additionally, the Equity Center offers free trainings on topics such as: Stereotyping, Cultural Diversity, Making Language Inclusive and more. The Equity Center also houses a free resource library consisting of books and videos that cover a wide variety of equity and diversity related topics.

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

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 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’s efforts focus 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, 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, Costa Rica, England, France, Germany, Ghana, Italy, Japan, South Korea, Mexico, Namibia, Scotland, Spain, and Ukraine.

International Student and Scholar Services: The Center supports the University’s efforts to prepare globally competent citizens through increasing international student recruitment, enrollment, retention, and success. This also includes increasing international faculty exchange. The Center also ensures international students and faculty stay in legal compliance with all relevant visa requirements.
LEARNING ASSISTANCE
Manager: Pat Nelson
Office: LC 405 Q/R
Telephone: 801-863-7418
E-mail: pat.nelson@uvu.edu
See Tutoring and Academic Skills Services (TASS) in this section.

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

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

The library houses over 235,000 volumes, 20,000 videos, and over 40,000 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 good at all public and private academic libraries in the state. Web-based Interlibrary Loan moves materials quickly between consortium members. The new library hosts four classrooms, three seminar rooms, 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
536 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 Traders Building and are rented through the Facilities/Physical Plant Office. Locker rentals are $5 per semester or $13 per year. This fee is non-refundable. Renewal of lockers needs to be completed before the end of the semester to avoid locker changes and clearance of contents. The renter is responsible for any damages to the locker(s).

MATH LAB
Manager: Kathryn Van Wagoner
Office: LA 201
Telephone: 801-863-8411
Online: http://www.uvu.edu/mathlab
E-mail: kathryn.vanwagoner@uvu.edu
See Tutoring and Academic Skills Services (TASS) in this section.

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 404a
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 nearly 190 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, 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 and personal experiences, and encouraged them to take risks and reap the rewards of doing so.

OFF-CAMPUS HOUSING
Office: SC 103
Hours: Mon - Fri, 8:00 am - 4:00 pm
Telephone: 801-863-8859
http://www.uvu.edu/housing
E-mail: burgesda@uvsc.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/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.
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 business partners also combine in "problem solving" teams called TeamQuest, to seriously address and collaboratively solve challenges facing our community. Faculty may apply for Engaged Learning Fellows training and community entities may become Engaged Learning Community Partners.

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

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 prospective students with the necessary tools, knowledge, and assistance needed to become admitted and enrolled at UVU. This office coordinates recruitment efforts and events 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.

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

THE OFFICE OF STUDENT INVOLVEMENT
Office: LC 205
Telephone: 801-963-6227
Website: www.uvu.edu/studentinvolvement

Director: Grant Flygare
Telephone: 801-863-8735

The Office of Student Life builds and conducts activities for student centered and directed action learning (out of the classroom, hands-on quest-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; it is student LIFE!

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: 801-863-8735

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 under UVLINK.

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 properties must adhere to all state, local, and university traffic/parking regulations. To park on campus, students and employees must obtain a valid UVU handicapped parking permit shall be allowed to park in stalls for the disabled. If all disabled stalls are full in a given area, those displaying a disabled permit may park in the nearest available stall.

Student and Employee Parking
Students and employees operating vehicles on University properties must adhere to all state, local, and university traffic/parking regulations. To park on campus, students and employees must obtain a valid parking permit from Parking Services. Before a permit can be issued to a vehicle, proof of current registration must be shown.

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

Visitor Parking
Visitors operating vehicles on University properties 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 D, which are pay lots. Visitors using these pay areas are required to pay the fees for these areas.

PEER TUTORING
Coordinator: Wendy Simmons
Office: LA 201
Telephone: 801-863-8310
Online: http://www.uvu.edu/peertutoring

Student Services

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:

Office of Student Affairs - SC 109, 801-863-6158
Student Center Administration and Scheduling - SC 103, 801-863-8612
UVU Dining and Catering Services - SC 201, 801-863-8664
Centre Courte (food court) - SC 111
Valley View Room (catereria 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
Student Health Services (medical services, mental health therapy, wellness education) - SC 221, 801-863-8876
Campus 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 multipurpose event and program functions) - SC 216, 801-863-8799
Copy Center - SC 102t, 801-863-8355
Utah Community Credit Union - SC 101j 801-863-6244
Off-Campus Housing Services - SC 106 801-863-8659
Conference Room Facilities

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, Pcredit, 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 “Infocommons” lab is located in L1 which is the bottom floor of the new library. With 120 workstations this is the largest open lab on campus. The hours for this lab are 7:00 am until 12:00 am Monday through Friday and 8:00 am to 7:00 pm Saturday, closed Sunday. Check with the lab assistant for holiday hours. The lab’s telephone number is 801-863-6932.

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 am to 11:00 pm Monday through Thursday, 7:00 am to 7:00 pm Friday, and 8:00 am to 5:00 pm 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 am to 6:00 pm Monday through Friday, closed Saturday and Sunday. 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 am to 11:00 pm Monday through Thursday and 8:00 am to 6:00 pm Friday, closed Saturday and Sunday. 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 for this lab are 8:00 am to 8:00 pm Monday through Thursday and 8:00 am to 5:00 pm Friday, closed Saturday and Sunday. The lab’s telephone number is 801-863-6628.

UV Link provides access to class registration,
Student Health Services offers short-term Referral Services, Personal Counseling, Emotional Support and Therapy Services. For all programming questions please contact us at 863-8876. 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 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 acute and chronic illnesses and injuries. We are staffed by medical doctors, nurse practitioners and medical assistants.

Students 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.

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.

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STUDENT SUCCESS/UV MENTOR PROGRAM

The Student Success/UV Mentor program, in partnership with Student Affairs, focuses on preparing students for their college experience. The program is committed to leveraging students for success and persistence in achieving their academic goals. The program is fully integrated into campus-wide student success and retention initiatives. The University Student Success course (CLSS 1000), taught through the Department of College Success Studies, is the recommended starting point for first-year students. The objectives of the University Student Success course include:

- Study Strategies
- Self-Discovery and Awareness
- Socialization and Connection to the campus community

The program is home to the UV Mentors. Our UV Mentors are dedicated student leaders who are trained to mentor first-year students and assist instructors in sections of University Student Success. The 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.
Student Services

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/testingservices/

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/testingservices/.

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/testingservices/.

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: weingama@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 Provo, Wasatch, South Summit, Duchesne, and Uintah.

Upward Bound
Maraia Weingarten Ph.D, Director
Telephone: 801-863-8076
E-mail: weingama@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 success-fully 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/turningpoint

Turning Point/Center for Personal and Career Development is a community and university resource for individuals wanting to improve on a personal, educational and/or professional level. It is dedicated to quality support services which increase the emotional, social and economic well-being of all participants. Individuals can access numerous services to help complete education goals, build personal relationships, master communication skills, learn job-seeking strategies, explore career options and enter the work force. Scholarships are available for qualifying individuals.
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 “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 Officer either original or certified copies of the following documents: (1) DD Form 214 (students may be eligible for a minimum of four semester hours of transfer credit), (2) DD-2384 (Notice of Basic Eligibility), and (3) VA claim (c) number, if applicable. This information is needed as soon as possible to ensure timely and accurate processing of benefits. UVU forms can be found on line 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.

One month’s 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. 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 on line. This form must be submitted each semester to indicate that the student requests to receive educational benefits for that semester.
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. Dates of enrollment
6. 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.

3. Hearing and Decisions
   At each of the levels noted above, the grievant shall be given the opportunity to be present and to be heard. Due process shall be accorded to all parties involved in the grievance, such as written notice of hearing dates and charge, right to counsel, right to present witnesses, and to present written statements. However, formal rules of evidence and trial procedure required in a court of law will not be applicable to such hearings. Decisions by the Campus Appeals Board shall be by a majority of the members present at the meeting. If an appeal is sent to the President, it must be accompanied by all documentation related to the prior hearings. The President’s decision is final.

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
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 28,500 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/.


ON CAMPUS HOUSING
At the present time, UVU does not have any on campus housing.

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.
College of Humanities and Social Sciences

College of Humanities and Social Sciences

DEAN: DAVID P. YELLS
Office: LA 209d
Telephone: 801-863-7435
E-mail: David.Yells@uvu.edu

Associate Dean for Academics: Frederick White
Office: LA 209b
Telephone: 801-863-5167
E-mail: TBD

Assistant Dean for Administration: Toni E. Harris
Office: LA 209c
Telephone: 801-863-6816
E-mail: harristo@uvu.edu

Assistant to the Dean for Finance & Operations: Jolene Arnoff
Office: LA 209
Telephone: 801-863-8743
E-Mail: arnoffjo@uvu.edu

Administrative Assistant: Veronica M Caballero
Office: LA 209
Telephone: 801-863-7435
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Fax: 801-863-7383

DEGREES OFFERED

Bachelor of Arts/Science
Behavioral Science
Anthropology
Family Studies
Psychology
Sociology
Social Work
Communication
Journalism
Public Relations
Speech Communication
Deaf Studies
General Deaf Studies
Interpreting
English
Creative Writing
Literary Studies
History
General History
Public History
Philosophy
Political Science
American Government
International Relations
Political Philosophy/Public Law
Spanish
Integrated Studies
American Sign Language
Classes are frequently taught using experiential methods and collaborative aspects of a student's exposure to the behavioral sciences. Insight, skill acquisition and personal application are also important. Respect for the range of individual differences are central to the department's integration of current scientific research. A multicultural perspective and students learn academic rigor in writing, critical thinking and analysis and the ability to apply academic theories to the real world. Behavioral Science and other related professions. Finding solutions to human problems involves language defines and affects behavior, and they come to understand the complexity of human relations in various cultural and historical contexts.

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, mass communication, public relations, media studies, argumentation and debate, and print, radio and television 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.

The Department of English and Literature provides an innovative and 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.

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.

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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, mass communication, public relations, media studies, argumentation and debate, and print, radio and television journalism.

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Note: Communication students in the journalism emphasis are required to have laptop computers.
College of Humanities and Social Sciences

writing skills. Students who complete our programs will be well equipped for successful careers in public service and private enterprise, in addition to becoming informed citizens. Many courses in the department fill general education requirements in the social science distribution area.

Department of Integrated Studies
Director: Scott Abbott
Office: LI 511
Telephone: 801-863-8537

Advisor: Lynne Hetzel
Office: LI 507
Telephone: 801-863-6485

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

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.

Department of Interdisciplinary Studies Program
Committee Chair: Jans B. Wager
Office: LA 114
Telephone: 801-863-8340

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

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

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

Department of Languages
Chair: Douglas Jensen
Office: LA 003a
Telephone: 801-863-7162

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.

Department of Philosophy and Humanities
Chair: Michael Minch
Office: LA 121h
Telephone: 801-863-7482

Associate Chair: Karen Mizell
Office: LA 121
Telephone: 801-863-8758

Humanities Section Head: Michaela Sawyer
Office: LA 121
Telephone: 801-863-6304

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

Martin Luther King, Jr. Commemoration Advisory Board
Coordinator: Julie Nichols
Office: LA 126g
Telephone: 801-863-6795

The Martin Luther King, Jr. Commemoration is an interdisciplinary conference dedicated to researching and promoting human rights through the memory and commitment of the college to the dream of Dr. King. This annual event provides a forum for students and faculty alike, to discuss ideas, raise questions and attempt to understand the significance of civil rights issues past, present, and future. The Advisory Board oversees the organization, planning and evaluation of the Commemoration.
COLLEGE OF SCIENCE AND HEALTH

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Advisory Council: Greg Craner, Chair; Carl Black; Bill Evenson; David Fairbanks; John S. Gardner; Eric W. Gardner; Michael Jacobs; Jeffery Taylor; 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 courses.

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

Certificate
Water and Wastewater Operations

DEPARTMENTS

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Advisor: Kimberly Sulz
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Advisor, Secondary Education: Richard Tolman
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Advisor, Pre-Health Professions: Jennifer Orchard
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Department of Dental Hygiene
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Chair: George Veit
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Advisor: George Veit

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Advisor, Environmental Management: Jim Callison

Department of Exercise Science and Recreation
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Chair: Jason Slack
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Advisor: Steve Namanny
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Advisor, PETE: Shaunna McGhie
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Department Chair: Carolyn Hamilton
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Advisor: Colin Brinkerhott
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E-mail: brinkeco@uvu.edu

Department of Nursing
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Administrative Assistant: Dianne Knight
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Chair: Brent Bargeron
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E-mail: bargerbr@uvu.edu

Advisor: James Holmes
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E-mail: James.Holmes@uvu.edu

Department of Public and Community Health
Administrative Assistant: Kristie Dockstader
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Telephone: 801-863-8651
E-mail: dockstrkr@uvu.edu

Chair: Robert O. Walsh
Office: PE 147b
Telephone: 801-863-6193
E-mail: walshro@uvu.edu
College of Technology and Computing

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Assistant to Dean & Director of Finance: Jennifer Clegg
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E-mail: jen.clegg@uvu.edu

Assistant Dean for Advancement: David Mortensen
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E-mail: DMortensen@uvu.edu

Associate Dean /School of Applied Technology & Construction: Larry Marsing
Office: CS 632
Telephone: 801-863-8165
E-mail: marsinla@uvu.edu

Associate Dean/School of Computing: Abraham Teng
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E-mail: ATeng@uvu.edu

Administrative Assistant to Associate Deans: Sallie Dodge
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Telephone: 801-863-8556
E-mail: SDodge@uvu.edu

Assistant Dean/Aviation: Greg Schwab
Office: Provo Municipal Airport
Telephone: 801-863-7810
E-mail: GSchwab@uvu.edu

Assistant Dean/Emergency Services: Jeff Maxfield
Office: Provo Airport (PA 205)
Telephone: 801-863-7736 or 1-888-548-7816
E-mail: JMaxfield@uvu.edu

Communication Specialist: Jim McCulloch
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E-Mail: JimMcCulloch@uvu.edu

Assistant to Dean: Gordon Stokes
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E-mail: stokesgo@uvu.edu

Advisement Center
Advisement Center for College of Technology and Computing
The Institute of 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
  - Aviation Administration
  - Professional Pilot
- Business/Marketing Education
- Computer Science
  - Computer Engineering
  - Computer Networking
  - Computer Science
  - Database Engineering
- Construction Management
- 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
- Information Technology
  - Database Administration and Security
  - Network Administration and Security
  - Web 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
- Building Construction and Construction Management
- Cabinetry and Architectural Woodwork
- Computer Science
- Criminal Justice
- Drafting Technology
- Electrical Automation and Robotics Technology
- Emergency Services
- Information Systems and Technology
- Pre-Engineering

The Institute for Emergency Services and Homeland Security

Telephone: 801-863-7700

The Institute of 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
Automotive Technology
Aviation Science
Building Construction
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 Construction
Building Inspection Technology
Cabinetry and Architectural Woodwork
Collision Repair Technology
Diesel Mechanics Technology
Firefighter Recruit Candidate
Network Administration
Paramedic

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

Office Manager: Katreena Davis
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Aviation Science
Assistant Dean: Greg Schwab
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Chair: Steve Smith
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Telephone: 801-863-7791
E-mail: smithst@uvu.edu

Assistant to the Chair: Claire Downing
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E-mail: downincl@uvu.edu

Building Construction
Chair: Barry Hallsted
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Telephone: 801-863-8135
E-mail: hallstba@uvu.edu

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

Building Inspection Technology
Chair: Barry Hallsted
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E-mail: hallstba@uvu.edu

Office Manager: Sandra Ozuna
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Telephone: 801-863-7405
E-mail: ozunasa@uvu.edu

Cabinetry and Architectural Woodwork
Chair: Barry Hallsted
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Telephone: 801-863-8135
E-mail: hallstba@uvu.edu

Office Manager: Sandra Ozuna
Office: GT 613
College of Technology and Computing

Collision Repair Technology
Chair: Don Wilson
Office: SA 327A
Telephone: 801-863-8124
E-mail: wilsondo@uvu.edu

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

Computer Science and Pre-Engineering
Chair: TBA
Office: CS 520j
Telephone: 801-863-TBA
E-mail: TBA

Office Manager: Vaylene Perry
Office: CS 520
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E-mail: perryva@uvu.edu

Construction Management
Chair: Barry Hallsted
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E-mail: hallstba@uvu.edu

Office Manager: Sandra Ozuna
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E-mail: ozunasa@uvu.edu

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
Telephone: 801-863-8062
E-mail: demillest@uvu.edu

Office Manager: Leann Larsen
Office: GT 608
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Culinary Arts Institute
Department Chair: Peter Sproul
Office: CL 104
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Office Manager/Advisor: Julie Slocum
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Diesel Mechanics Technology
Chair: Don Wilson
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Office Manager: Katreena Davis
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Telephone: 801-863-7022
E-mail: daviska@uvu.edu

Digital Media
Chair: Jan Bentley
Office: CS 526g
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E-mail: jan.bentley@uvu.edu

Office Manager: Celena Patten
Office: CS 526
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E-mail: pattence@uvu.edu

Electrical Automation and Robotics Technology
Chair: David Johnson
Office: GT 616c
Telephone: 801-863-6152
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Emergency Services/Utah Fire and Rescue Academy
Director: Jeff Maxfield
Office: Provo Airport (PA 205)
Telephone: 801-863-7736 or 1-888-548-7816
E-mail: maxfieldje@uvu.edu

Chair: Gary Noll
Office: Provo Airport
Telephone: 801-863-7741
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Office Manager: Susie King
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Academic Advisor: Wendy Farmsworth
Office: Provo Airport (PA 205)
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Engineering Graphics and Design Technology
Chair: Darin Taylor
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E-mail: taylorda@uvu.edu

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Facilities Management
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Office Manager: Sandra Ozuna
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Information Systems and Technology
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Technology Management
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DEAN: BRIANT J. FARNSWORTH
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Telephone: 801-863-8006

Associate Dean: Linda E. Pierce
Office ME 116a
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)
Elementary Education (1-8)
Secondary Education (6-12)
   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
   Theatre Arts Education
   School Health Education
   Spanish 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 130
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 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 130
Telephone: 801-863-6587

Advisor: Rick Dumont
Office: ME 114b
Telephone: 801-863-8478

Graduate Studies
Coordinator: Mary Sowder
Office: ME 116a
Telephone: 801-863-6723
School of the Arts

SCHOOL OF THE ARTS

DEAN: PATRICK M. JONES
Office: GT 605a
Telephone: 801-863-7359
E-mail: patrick.jones@uvu.edu

Associate Dean for Academics: Steven Bule
Office: GT 605b
Telephone: 801-863-6201
E-mail: sbule@uvu.edu

Assistant Dean for Advancement: Barbara G. Hammond
Office: GT 604
Telephone: 801-863-6246
E-Mail: hammonba@uvu.edu

Assistant to the Dean for Finance & Operations: E. Linda Moore
Office: GT 603
Telephone: 801-863-6827
E-Mail: mooreel@uvu.edu

Administrative Assistant: Paula Nye
Office: GT 605
Telephone: 801-863-6820
E-mail: nyepa@uvu.edu
Fax: 801-863-6819

DEGREES OFFERED

Bachelor of Fine Arts
Art and Visual Communications
  Fine Arts
  Graphic Design
  Illustration
  Photography
Dance
  Ballet Emphasis
  Modern Dance

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

Associate in Arts/Science
Art and Visual Communications
Dance
Music
Theatre Arts

Associate in Applied Science
Art and Visual Communications
  Design/Illustration
The Department of Art and Visual Communications provides technical and aesthetic training in fine art, design, illustration and both traditional and computer-based graphics production processes. Courses offering both hands-on and theoretical experiences are designed to prepare the graduate for entry-level employment in the exciting and highly diversified field of visual communications. In addition to career training, the Department provides opportunities for students who wish to explore drawing, painting, sculpture, ceramics, photography and crafts. Many courses in the Department fill general education requirements in the fine arts distribution area. Upper division courses may be applied toward the AAS, AA/AS, BA/BS, or BFA degrees in Art and Visual Communications; they may also apply toward our Integrated Studies emphasis or Technology Management pre-majors.

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 Movement Studies 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 332c
Telephone: 801-863-6480

The Department of Music prepares students academically and artistically in a variety of musical disciplines including theory, history, aural skills, composition, music education, solo and ensemble performance, jazz, conducting, music technology and pedagogy. With a history of academic excellence and fine performances, the department provides rich experiences in diverse musical styles and genres. An array of distinguished faculty members work with students in classroom settings, in outreach with public schools, in ensemble and master class settings, and individually on their instrumental and vocal performance skills. Students learn to appreciate the powerful impact of superb musical training as it relates to personal development and community enrichment. Students become successful music educators, private instructors, performers, conductors and composers. Music degree options include an Associate in Science, Bachelor of Arts, Bachelor of Science, Bachelor of Science in Music Education, Music Minor, and Integrated Studies with Music Emphasis.

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
Director: Marcus Vincent
Office: 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: Jeanette Clyde, Merrill Gappmayer (Past Chair), Pending (Chair Elect)
Contact via Barbara Hammond 801-863-6246, hammondba@uvu.edu
School of the Arts

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 stakeholders 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: Colleen Hafen
Office: LA 210
Telephone: 801-863-6712
e-mail: colleen.hafen@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: LA234g
Telephone: 801-863-6865
E-mail: elizabethn@uvu.edu
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.

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.

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/peertutoring
E-mail: wendy.simmerman@uvu.edu

**Drop In Lab: LA 201**

Assistant Chair: Benjamin Moulton
Office: LA 217c
Telephone: 801-863-7034
E-mail: benjamin.moulton@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 their academic needs. The College Success courses better prepare students 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.

**COLLEGE SUCCESS STUDIES**

Department Chair: Chris Goslin
Office: LC407g
Telephone: 801-863-8310
E-mail: cgoslin@uvu.edu

Director, Student Success/UV Mentor Program: Marinda Ashman
Office: LC 406b
Telephone: 801-863-7227
E-mail: mashman@uvu.edu

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

Administrative Assistant: Whitney Olsen
Office: LC 407b
Telephone: 801-863-8834
E-mail: olsenwh@uvu.edu

**DEVELOPMENTAL MATHEMATICS**

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

Assistant Chair: Benjamin Moulton
Office: LA 217c
Telephone: 801-863-7034
E-mail: benjamin.moulton@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
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 Tutoring**

Drop In Lab: LA 201  
Manager: Kathryn Van Wagoner  
Office: LA 201  
Telephone: 801-863-8411  
Online: http://www.uvu.edu/mathlab  
E-mail: kathryn.vanwagoner@uvu.edu

The Math Lab offers free drop-in math tutoring for all UVU students in a relaxed, friendly atmosphere. Services include drop-in and individual tutoring, a calculus lab, a statistics lab, a group study room, and live Internet tutoring through MathLab Online. The Math Lab also provides workshops and programs to promote student success in math.

**Writing Center**

Drop In Lab: LI 208  
Coordinator: Leigh Ann Copas  
Office: LI 208  
Telephone: 801-863-8099  
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: jimemeem@uvu.edu
Fax: 801-863-7314

Dean: Norman S. Wright
Office: WB 128b
Telephone: 801-863-8260
E-mail: TBD
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 133
Telephone: 801-863-8458
E-mail: Randy.Beckham@uvu.edu
Fax: 801-863-7314

Master of Business Administration Director: Taggart Frost
Office: WB 127
Telephone: 801-863-6148
E-mail: taggartfrost@uvu.edu
Fax: 801-863-7314

MBA Coordinator: Lauren Murakami
Office: WB 101d
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; Chris Horton, SVP of Business Development, Engage Thoughtware; 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, (Council Chair), Owner, VAST Equity; Patrick Milligan, VP, 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, Bill Siddoway, Consultant; Kevin L. Simister, Partner, Hawkins, Coward & Simister; W. Richards (Rick) Woodbury, President, 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.

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

- Terry Acord
  Advisor: Terry Acord
  Office: WB 257b
  Telephone: 801-863-8314
  E-mail: acordte@uvu.edu

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

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

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

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

- Brittany Naef
  Advisor: Brittany Naef
  Office: WB 257c
  Telephone: 863-6889
  E-mail: naefbr@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 3890 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.
Woodbury School of Business

• 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 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 Paralegal 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. Ten 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 internships may be granted in bachelor degrees. Check with your Woodbury School of Business advisor for the maximum number of co-op/internship credits that can be applied to your specific program. Additional co-op/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

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

Minors
   Accounting
   Business Management
   Economics
   Finance
   Paralegal Studies

Associate in Science (AS)
   Accounting
   Business Management
   Hospitality Management
   Paralegal Studies
Woodbury School of Business—transfer degree

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

**Certificate**
- Accounting
- Business Management

**Master of Business Administration Degree**

**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**

<table>
<thead>
<tr>
<th>General Education Requirements</th>
<th>61 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>36 Credits</strong></td>
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<tr>
<td>- ENGL 1010 Introduction to Writing</td>
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<tr>
<td>- ENGL 2010 Intermediate Writing—Humanities/Social Sciences</td>
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<tr>
<td>or ENGL 2020 Intermediate Writing—Science and Technology (3.0)</td>
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<td><strong>Complete one of the following:</strong></td>
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<tr>
<td>- MATH 1050 College Algebra</td>
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<tr>
<td>or An Advanced Placement (AP) Mathematics Test with a score of 3 or higher</td>
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<td>- HIST 2700 US History to 1877 (3.0) and HIST 2710 US History since 1877 (3.0)</td>
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<tr>
<td>- HIST 1700 American Civilization (3.0)</td>
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<tr>
<td>- HIST 1740 US Economic History (3.0)</td>
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<tr>
<td>- POLS 1000 American Heritage (3.0)</td>
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<tr>
<td>- POLS 1100 American National Government (3.0)</td>
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<td>- PHIL 2050 Ethics and Values</td>
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<td>or HLTH 1100 Personal Health and Wellness (2.0)</td>
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<tr>
<td>or PES 1097 Fitness for Life</td>
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<td>- Physical Science</td>
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<tr>
<td>- Additional Biology or Physical Science</td>
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<td>- Behavioral/Social Science Distribution</td>
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<td>- Fine Arts Distribution</td>
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<td><strong>Discipline Core Requirements</strong></td>
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<td>- ACC 2020 Managerial Accounting</td>
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<tr>
<td>or MATH 1100 Introduction to Calculus</td>
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<td>- ECON 2010 Microeconomics</td>
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<td>or MATH 2400 Principles of Statistics (4.0)</td>
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<td>or DGM 2010 Business Computer Proficiency (3.0)</td>
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**Graduation Requirements:**
1. Completion of a minimum of 61 semester credits.

---

**DEPARTMENTS**

**Accounting**
- Chair: Steven D. Johnson
- Office: WB 136b
- Telephone: 801-863-7166
- E-mail: johnso@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
Woodbury School of Business

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 paralegal 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 paralegal minor does not prepare students for a career as a paralegal and the minor is not approved by the American Bar Association.

Management
Chair: Scott Hammond
Office: WB 243
Telephone: 801-863-7183
E-mail: scott.hammond@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
Phone: 801-863-6769
E-mail: Janice.Gygi@uvu.edu

For those trained in marketing, career opportunities are available in advertising, brand and product management, customer affairs, industrial marketing, international marketing, marketing management science and systems analysis, marketing research, new product planning, marketing logistics (physical distribution), public relations, purchasing, retail management, internet marketing, and sales and sales management.

Almost a third of all Americans are employed in marketing-related positions. From large corporations to small companies, both in manufacturing and service areas, firms rely on marketers. There is also a growing trend to use marketing in nonprofit organizations, such as colleges, libraries, and hospitals.
About Distance Education
Distance Education (DE) extends the reach of the physical campus to offer courses, degrees, and related services in formats that help meet the demands of students’ schedules, lives, and learning styles. These formats include Online, TV/Broadcast (one way), and Live Interactive (two way) classes. For many students, DE provides the only or most viable option for fully pursuing higher education.

At Utah Valley University Distance Education, students and professors are not limited by time or location. We emphasize an atmosphere of learning and growth, by helping students navigate course technology and media to achieve their educational goals.

Our support services are second to none, and our course completion rates are high. Let us help you achieve your educational goals.

• Do heavy responsibilities keep you away from campus?
• Do you have a difficult schedule and need flexibility?
• Does your location or lack of transportation prevent you from getting to class?
• Would you enjoy a community of learning where age, appearance, and other social factors don’t matter?

Degrees at a Distance
Credits from Distance Education courses may be applied toward any degree 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)
Extended Education

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. (Online degree in development.)

Are You Ready

Distance Education courses are not for everyone. The information on this page is intended to help you determine, before you register, if you are likely to be successful in this learning environment.

- Written Communication: Much of the communication in Distance Education courses is written. Are you confident expressing yourself this way?
- Self Motivation/Discipline: Because Distance Education classes do not meet at a regular, specific time, they can get lost in other daily demands. Do you have the commitment and discipline to keep up?
- Asking for Help: Your instructor will not be able, at a glance, to see if you are grasping the material or are confused or frustrated. Are you comfortable asking for help when you need it?
- Just as Rigorous: If you have heard that online courses are easier than their classroom counterparts, you have been misinformed. While they are more convenient and flexible, Distance Education courses are often more rigorous. Are you prepared to do the work?
- Study Environment: With Distance Education courses you provide your own classroom environment. Do you have a place to do your coursework without undue distraction and interruption? Is your computer and internet connection reliable and up-to-date?
- Expectations and Learning Style: Distance Education courses are typically very interactive. However, if face-to-face discussions with faculty and fellow students are a significant part of what “learning” means to you, perhaps you should reconsider registering for a Distance Education course.

Good luck with your decision! Please contact our Help Desk if we can assist or offer advice.

As an in-depth way to prepare for Distance Education courses, you might consider the book, “The Successful Distance Learning Student,” ISBN 0-534-57712-1, Thompson/Wadsworth.

EXTENDED STUDIES

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: brownjj@uvu.edu

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

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

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

We strive to continually improve the 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: brownjj@uvu.edu

Over 2000 students are pursuing their degree at UVU by taking classes through the Weekend College Program. The Weekend College program serves a diverse population that includes adult, part-time, and traditional students. More than 100 courses are taught on Friday evenings and Saturday mornings on the UVU Orem Campus during Fall and Spring semesters. Courses are scheduled at two start times on Saturday allowing students to take two classes back to back.

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
- Community Health
- History
- Information Technology
- Paralegal Studies
- Political Science
- 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, north of Lehi High School). More than twenty 1000 and 2000 level courses are offered Spring and Fall semesters allowing students to complete their General Education requirements. Classes begin after 5:30 pm with a few classes scheduled back to back allowing students to take two classes Monday through Thursday evening.

More than 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.

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Utah Valley University
Academic Programs and Degrees
• University Studies

UVU NORTH @ WESTLAKE
Coordinator: Amie Wells
Telephone: 801-863-6216
E-mail: wellsam@uvu.edu

Fall 2009, the Office of Extended Studies started facilitating evening classes at the new Westlake High School, 99 North 200 West, Saratoga Springs.

General Education courses are offered Spring and Fall semesters. Classes begin after 5:40 pm with some classes offered back to back allowing students to take more than one course per evening.

These classes are full academic credit courses that can be applied to general education requirements. A facilitator is available to 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

More than 500 students are meeting their academic needs by taking classes at UVU South, located at 99 North 300 West, Spanish Fork.

More than twenty-five 1000 and 2000 level courses are offered Spring and Fall semesters at UVU South where students can complete their General Education requirements. Classes begin at 5:30 with some classes scheduled back to back allowing students to take 2 classes Monday through Thursday evening. Courses are also available in the evenings for Block A of Summer Sessions.

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. 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 WEST @ NATIONAL GUARD BUILDING
Coordinator: Cheryl Levi
Telephone: 801-863-7322
E-mail: cheryl.levi@uvu.edu

UVU West is located west of UVU Orem Campus west of I-15 Freeway. Both day and evening courses are offered for more than 1700 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 Real Estate courses through Utah Valley University are also offered at UVU West.

At least 55 courses are offered for Spring and Fall semesters to students who need to complete their General Education requirements. Day and evening classes are also offered for block A and block B Summer sessions.

The UTA Bus (route 830) travels back and forth to the main UVU campus throughout the day and evening hours every 15 minutes.

UVU West staff is available to assist instructors and students while classes are in session.

Academic Programs and Degrees
• Dental Hygiene
• Nursing
• University Studies

WASATCH CAMPUS
3111 North College Way
Highway 40
Heber City, Utah 84032
Telephone: 435-684-6482 or 801-863-6601
Website: www.uvu.edu/wasatch

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

Assistant: Mike Walker

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

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

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: spencer.childs@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 tuition-free college credit prior to high school graduation.
Extended Education

**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 application fee but do not pay textbook, lab, or tuition costs. Students are held to the same standards of achievement as those expected of students in UVU campus sections.
- All courses carefully parallel 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.
GRADUATE STUDIES

Utah Valley University offers exciting opportunities for graduate study. The Master of Education (M.Ed.) program began Fall 2008, the Master of Science in Nursing degree (M.S.N) began Fall 2009, and the Master of Business Administration (M.B.A.) will begin Fall 2010. 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: Maggie Hewlett
Office: BA 201
Telephone: 801-863-8270
E-mail: MHewlett@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: 801.863.8230
E-mail: CRAVENMA@uvu.edu

Master of Business Administration
Taggart Frost
Telephone: 801.863.6148
E-mail: Taggart.Frost@uvu.edu

Graduate Council:
Briant Farnsworth
Kathie Debenham
Sam Rushforth
Marianne Craven
Norman Wright
Taggart Frost
Mary Sowder
David Yells
Ernie Carey
K.D. Taylor
Patrick Jones

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
Rick Dumont
The Master of Education (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., safety, (d) mathematics, (e) language arts, (f) science, (g) social studies, or (h) technology. These content areas allow students to tailor their program to their academic interests and desired skill development.

The M.Ed. degree requires 30 semester hours of graduate course work and completion of a culminating applied research project. Work toward and completion of the graduate research 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, 2011, for consideration for Summer semester 2011. 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 Graduate Program Coordinator 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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2. English as a Second Language (ESL)
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 3.0 (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 30 CREDITS

Matriculation Requirements:
1. Application for admission.
2. Bachelors degree from an accredited institution.
3. Graduate Records Exam (GRE) with a verbal and quantitative score at or above the 40th percentile.
4. Overall grade point average in undergraduate work of 3.2 or higher or have a grade point average of 3.2 or higher for the last 60 semester hours of college or university credit.
5. Interview with School of Education Graduate Committee.
6. Three professional letters of recommendation.

Preference will be given to individuals who have at least one year of successful teaching experience in grades K-12. A one-year internship will count as the preferred year of successful teaching.

Preference will be given to practicing teachers who have access to an established classroom.

Discipline Core Requirements: 30 Credits

- EDUC 6100 Research Methodology 3.0
- EDUC 6110 Applied Statistics for Education 3.0
- EDUC 6200 Masters Project 3.0
- EDUC 6819 Project I 1.0
- EDUC 6820 Project II 1.0
- EDUC 6830 Project III 1.0

Complete one of the following two options. 18.0

Option One: Models of Instruction:
- EDUC 6300 Curriculum Design (3.0)
- EDUC 6310 Program Assessment (3.0)

Graduate Nursing Faculty:

Professor

- Lori Barber
- Gaya Carlton
- Gretchen Cornell
- Marianne Craven
- Gary Measom

Associate Professor

- Marlene Bacon
- Hsiu-Chin "Sunny" Chen
- Suzette Farmer
- Marie Hunter
- David C. Keller
- Troy Nelson
- Jacqui Slade
- Mina Wayman

Assistant Professor

- Joohyun Chung
- Linda Kochniuk
- Dale Maughan
- Dianne McAdams-Jones
- Katherine Moore
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.
- Overall undergraduate GPA of 3.2 or higher, or GPA of 3.2 or higher in last 60 semester hours of undergraduate coursework.
- Three professional letters of recommendation from references who can assess applicant potential for success.

Tuition and Fees

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For each credit hour over 12, $330 per credit hour will be assessed for residents and $840 per credit hour for non-residents.

PROGRAM REQUIREMENTS

Master of Science in Nursing

<table>
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<tr>
<th>Matriculation Requirements:</th>
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<td>1 Bachelor’s degree in nursing from a program accredited by NLNAC or CCNE.</td>
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<tr>
<td>2 Currently licensed as an RN in Utah or eligible for RN licensure in Utah. (Complete licensure within 90 days after coursework begins.)</td>
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<tr>
<td>3 Completion of an undergraduate course in statistics, including descriptive and inferential statistics.</td>
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<tr>
<td>4 Application for UVU admission to MSN program.</td>
<td></td>
</tr>
<tr>
<td>5 Submit Graduate Record Exam (GRE) scores.</td>
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<tr>
<td>6 Overall undergraduate GPA of 3.2 or higher, or GPA of 3.2 or higher in last 60 semester hours of undergraduate coursework.</td>
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</tr>
<tr>
<td>7 Three professional letters of recommendation.</td>
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Discipline Core Requirements: 33 Credits

- NURS 6000 Leadership Development 2.0
- NURS 6500 Nursing Informatics 2.0
- NURS 6200 Advanced Nursing Theory 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 3.0
- NURS 6700 Evaluation of Learning Outcomes 3.0
- NURS 6800 Teaching/Learning II: Clinical Settings 4.0
- NURS 6900 Synthesis of Teaching Practice 4.0
- 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.
- 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

MASTER OF BUSINESS ADMINISTRATION

Woodbury School of Business

Dean: Norman S. Wright  
Office: WB 128b  
Email: TBD  
Telephone: 801-863-8260

Director of the MBA Program: Taggart Frost  
Office: WB 127  
Email: taggart.frost@uvu.edu  
Telephone: 801-863-6148

MBA Coordinator: Lauren Murakami  
Office: WB 101d  
Email: lauren.m@uvu.edu  
Telephone: 801-863-5099

MBA Advisor: Terry Acord  
Office: WB 257  
Email: acordte@uvu.edu  
Telephone: 801-863-8314

Graduate MBA Faculty:

Professor
- James Bailey
- Stanley E. Jenne
- Peter Robinson
- Sheldon R. Smith

Associate Professor
- Deborah Baird
- John Balden
- Kathy Black
# Program Description

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

A cohort of 42 students will study in MBA classrooms and a premier finance lab on Friday evenings and Saturday mornings in four-hour blocks, an ideal schedule for enterprising professionals.

The MBA requires 33 credit hours in accounting, finance, marketing, and diverse areas of management. Cohorts will complete eight core classes (24 credit hours) and three courses in a selected area of emphasis,

- Management, or
- Accounting

The program is accredited by AACSB International, the Association to Advance Collegiate Schools of Business, which represents the highest standard of achievement for business schools. The new MBA program also embraces the university’s designation as an engaged-learning campus.

The primary focus of this engaged learning model will be the final master’s course—the Capstone Engaged Learning Project—in which students will participate in a community-development project. Students will also become engaged in all aspects of management—including accounting, leadership, marketing, economics, ethics, and social responsibility.

## Prerequisites

Prerequisites for the program are listed on the website, www.uvu.edu/mba.

### 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. Submit an application essay and resume.
4. Forward all official university transcripts.
5. Provide three letters of recommendation mailed from the writer directly to the Woodbury School of Business.
6. Send official GMAT or GRE test scores. Prospective students must complete the GMAT or GRE general 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. GRE registration is available at www.ets.org/gre, and GMAT registration is available at www.mba.com.

7. Submit TOEFL scores (only for applicants for whom English is a second language and who have not earned a degree in the United States).

## Satisfactory Progress

Continuation in the Master of Business Administration program is determined by:

1. **Satisfactory Progress**: The program is accredited by AACSB International, the Association to Advance Collegiate Schools of Business, which represents the highest standard of achievement for business schools. The new MBA program also embraces the university’s designation as an engaged-learning campus.

## Tuition and Fees

### RESIDENT

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For each credit hour over 12, $360 per credit hour will be assessed for residents and $792 per credit hour for non-residents.

### NON-RESIDENT

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# Graduate Studies

## PROGRAM REQUIREMENTS

### Master of Business Administration

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<th>Discipline Core Requirements: 24 Credits</th>
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<td>• MGMT 6600 Marketing Strategy 3.0</td>
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<td>• MGMT 6800 Business Ethics and Social Responsibility 3.0</td>
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<td>• MGMT 6900 Global Business Strategy 3.0</td>
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**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

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<td>• ACC 6510 Financial Auditing 3.0</td>
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<tr>
<td>• ACC 6960 Capstone Accounting Theory and Research 3.0</td>
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### Emphasis in Management

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<td>• MGMT 6960 Financial Auditing 3.0</td>
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<tr>
<td>• 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</td>
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### 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 in 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 students for successful lives and careers after graduation.

For more information, please see individual department pages.

Interdisciplinary or cross-discipline programs and opportunities are presented below.

**Interim 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 510
Telephone: 801-863-8537
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
Interdisciplinary Programs

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 114
Telephone: 801-863-8340
Fax: 801-863-6255
E-mail: jans.wager@uvu.edu

Administrative Support: Mark Olson
Office: LI 508
Telephone: 801-863-5988
E-mail: mark.olson@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: 801-863-6265
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
Executive Program Coordinator: Don LaVange
Office: LA 108
Telephone: 801-863-6455
E-mail: ethicscenter@uvu.edu
website: ethicscenter.info

The purpose of the Center for the Study of Ethics at Utah Valley University 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. Center activities include public forums and support of faculty and student scholarship.

Based on the premise that an educated citizenry is necessary for democracy, the Center aims to foster dialogue and build community. While the Center 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.

All Ethics Center events are free and open to the public.

THE CENTER FOR THE ADVANCEMENT OF LEADERSHIP

Director: Bruce Jackson
Office: LC 302
Telephone: 801-863-6466
E-mail: Bruce.Jackson@uvu.edu
Fax: 801-863-7431

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 MasterMind 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:
Stephen R. Covey, Vice Chair of FranklinCovey Company; Stephen M.R. Covey; Rondo Fehlberg, past Board Chair; Aaron Webber, CEO of Webber Investments; Jeff Kahn, RJR Investment Services (current Board Chair); Kerry Patterson, author and principal of Vital Smarts; Hyrum Smith, Vice Chair, FranklinCovey Company; Margaret Wheatley, Berkana Institute; and Jack Zenger, CEO of Zenger Folkman, and more than 20 additional business and civic leaders. See www.uvu.edu/leadership for more details.
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.

### 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.

### Program Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 3300 Managerial Accounting (3.0)</td>
<td>3.0</td>
</tr>
<tr>
<td>or Any approved Behavioral, Social, or Political Science Distribution Course</td>
<td></td>
</tr>
<tr>
<td>ACC 2210 Payroll Accounting</td>
<td>3.0</td>
</tr>
<tr>
<td>or ACC 2220 Business Communications</td>
<td>3.0</td>
</tr>
<tr>
<td>DGM 2610 Accounting Systems Applications</td>
<td>3.0</td>
</tr>
<tr>
<td>or ACC 2210 Financial Accounting (3.0)</td>
<td>3.0</td>
</tr>
<tr>
<td>ACC 2630 Spreadsheet Applications</td>
<td>3.0</td>
</tr>
<tr>
<td>or ACC 2020 Principles of Accounting</td>
<td>6.0</td>
</tr>
<tr>
<td>MGMT 1010 Introduction to Business</td>
<td>3.0</td>
</tr>
<tr>
<td>or ACC 2030 Principles of Accounting</td>
<td>6.0</td>
</tr>
<tr>
<td>MGMT 3890 Career Preparation</td>
<td>2.0</td>
</tr>
<tr>
<td>or MGMT 495R Executive Lecture Series</td>
<td>1.0</td>
</tr>
</tbody>
</table>

### Elective Requirements

Complete any coursework from the following prefixes: ACC, ECON, FIN, HM, LEGL, MGMT

- Complete three of the following courses: 9.0
- ACC 3010 Intermediate Accounting I (3.0)
- ACC 3020 Intermediate Accounting II (3.0)
- ACC 3300 Cost Management (3.0)
- ACC 3400 Individual Income Tax (3.0)
- DGM 2300 Records and Information Management (3.0)
- DGM 2350 Word Processing (3.0)
- DGM 2370 Database Applications (3.0)

### 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.
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 DGM 2010 with a score of 30 percent or higher.

### AS Pre Major in Accounting

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 1150 Fundamentals of Business Math</td>
<td>3.0</td>
</tr>
<tr>
<td>ACC 2030 Principles of Accounting</td>
<td>6.0</td>
</tr>
<tr>
<td>ACC 2630 Spreadsheet Applications</td>
<td>3.0</td>
</tr>
<tr>
<td>MGMT 1010 Introduction to Business</td>
<td>3.0</td>
</tr>
<tr>
<td>or ACC 2010 Financial Accounting (3.0)</td>
<td>3.0</td>
</tr>
<tr>
<td>or HIST 1700 American Civilization (3.0)</td>
<td>3.0</td>
</tr>
<tr>
<td>or HIST 1740 Introduction to Calculus</td>
<td>3.0</td>
</tr>
<tr>
<td>or PHYS 1050 (lecture)</td>
<td>1.0</td>
</tr>
<tr>
<td>or MGMT 3890 Career Preparation</td>
<td>2.0</td>
</tr>
<tr>
<td>or MGMT 495R Executive Lecture Series</td>
<td>1.0</td>
</tr>
</tbody>
</table>

### Elective Requirements

- Woodbury School of Business courses (ACC, ECON, FIN, HM, LEGL, MGMT prefixes)
- Minimum of 30 credits required for a Certificate.
- Government (3.0) or World History (3.0) or Humanities (3.0)
- Accounting (3.0) or Economics (3.0) or Business (3.0)
- History (3.0) or Political Science (3.0) or Social Science (3.0)
- Criminal Justice (3.0) or Sociology (3.0)
- Philosophy (3.0) or Religious Studies (3.0)
- 2.0 GPA in each discipline course.

### 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.
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 DGM 2010 with a score of 30 percent or higher.
**BS in Accounting**  

**120 CREDITS**

**General Education Requirements:** 36 Credits  
- **ENGL 1010** Introduction to Writing 3.0  
- **ENGL 2010** Intermediate Writing--Humanities/Social Sciences 3.0  
- **MATH 1050** College Algebra 4.0  
- **PHIL 1050** 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  
- **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:**  
- **Biological Science:** 3.0  
- **Physical Science:** 3.0  
- **Additional Biological or Physical Science:** 3.0  
- **Humanities Distribution:** 3.0  
- **Fine Arts Distribution:** 3.0  
- **Social/Behavioral Science:** 3.0  

**Discipline Core Requirements:** 62 Credits  
- **ACC 2010** Financial Accounting 3.0  
- **ACC 2020** Managerial Accounting 3.0  
- **ACC 2030** Principles of Accounting 6.0  
- **DGM 2010** Business Computer Proficiency 3.0  
- **MATH 1100** Introduction to Calculus 4.0  
- **ECON 2010** Microeconomics 3.0  
- **ECON 2020** Macroeconomics 3.0  
- **MGMT 2200** Business Communications 3.0  
- **MGMT 2340** Business Statistics I 3.0  
- **MGMT 3890** Career Preparation 2.0  

Business Core Courses:  
- **LEGL 3000** Business Law 3.0  
- **MGMT 3000** Organizational Behavior (3.0)  
- **MGMT 3010** Principles of Management * 3.0  
- **FIN 3100** Principles of Finance 3.0  
- **MGMT 3300** Survey of International Business 3.0  
- **MGMT 3450** Operations Management * 3.0  
- **MGMT 3600** Principles of Marketing 3.0  
- **MGMT 4500** Strategic Management 3.0  
- **MGMT 4830** Strategic Management Capstone 1.0  
- **MGMT 495R** Executive Lecture Series 1.0  
- **MGMT 499R** 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 Accounting 3.0  
- **ACC 3400** Individual Income Tax 3.0  
- **ACC 3510** Accounting Information Systems 3.0  

**Elective Requirements:** 22 Credits  
- Complete at least 9 credits from the following courses: 9.0  
- **ACC 4020** Advanced Financial Accounting 3.0  
- **ACC 4350** Governmental and Not-For-Profit Accounting 3.0  
- **ACC 4110** Auditing 3.0  
- **ACC 4120** Internal Auditing 3.0  
- **ACC 4350** Management Control 3.0  
- **ACC 4400** Taxation of Corporations/Partnerships/Estates and Trusts (3.0)  
- **ACC 4420** Corporate Tax 3.0  
- **ACC 4440** Partnership Tax 3.0  
- **ACC 4510** Advanced Accounting Information Systems 3.0  

**Graduation Requirements:**  
- Completion of a minimum of 120 semester credits; a minimum of 40 credits must be upper division.  
- Overall grade point average of 2.5 GPA in all Woodbury School of Business courses.  
- No grade lower than a “C-” in core and specialization 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.  
- * Students completing a bachelor degree following the completion of GE and specified departmental requirements.  
- ** 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.  

**Minor in Accounting**  

**24 CREDITS**

**Matriculation Requirements:**  
- Admitted to a bachelor degree program at UVU.  

**Discipline Core Requirements:** 12 Credits  
- **ACC 2010** Financial Accounting 3.0  
- **ACC 2020** Managerial Accounting 3.0  
- **ACC 2030** Principles of Accounting 6.0  
- **ACC 3010** Intermediate Accounting I 3.0  
- **ACC 3020** Intermediate Accounting II 3.0  

**Elective Requirements:** 12 Credits  
- Choose 12 credits from the following: 12.0  
- **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:**  
- Overall grade point average 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:  
- ACC, Accounting  

**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**

**Emphasis Requirements:** 18 Credits  
- **ACC 3010** Intermediate Accounting I 3.0  
- **ACC 3020** Intermediate Accounting II 3.0  
- **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
Elective Requirements:  64 Credits

General Education Requirements:  16 Credits

ENGLISH
•  MGMT 2200 Business Communications  3.0

MATHEMATICS
•  ACC 1150 Fundamentals of Business Math  3.0
either
•  MAT 1010 Intermediate Algebra (4.0)
•  MAT 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
either
•  MGMT 3000 Organizational Behavior (3.0)
•  PSY 1010 General Psychology (3.0)

BIOLOGY OR PHYSICAL SCIENCE
•  Any approved Biology or Physical Science Course  3.0

PHYSICAL EDUCATION/HEALTH/SAFETY OR ENVIRONMENT
•  Any approved Physical Education, Health, Safety, or Environmental Course  1.0

Discipline Core Requirements:  29 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  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
•  ACC 2010 Financial Accounting  3.0
•  ACC 1750 Applied Accounting (4.0)
•  MGMT 2250 Job Application and Advancement Skills  1.0
•  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 in (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 181R 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)
•  MGMT 3600 Principles of Marketing (3.0)
•  FIN 1060 Personal Finance (3.0)
•  Other pre-approved electives; see advisor for details

Graduation Requirements:  1 Overall grade point average of 2.0 or above and a minimum 2.5 GPA in all discipline and elective courses with no grade lower than a C-.
2 A minimum keyboarding skill of 40 net words per minute is required for graduation.
3 Residency hours—minimum of 20 credit hours through attendance at UVU.
4 Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.

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 2100 Intermediate Writing—Humanities/ Social Sciences (3.0)
either
•  ENGL 2020 Intermediate Writing—Science and Technology
•  MATH 1050 College Algebra  4.0

Complete one of the following:  3.0

•  HIST 2720 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:  0.0

•  PHIL 2050 Ethics and Values  3.0
•  HLL 1110 Personal Health and Wellness (2.0)
or
•  PES 1097 Fitness for Life  2.0

Distribution Courses  12 Credits

•  ECON 2020 Macroeconomics (fulfills Social/Behavioral Science)  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:  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
•  ACC 3000 Financial Managerial and Cost Accounting Concepts (4.0)
•  MGMT 2200 Business Communications  3.0
•  MGMT 2250 Job Application and Advancement Skills  1.0
•  MGMT 3890 Career Preparation (2.0)  1.0

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:  1 Completion of a minimum of 60 semester credits.
2 Overall grade point average of 2.0 or above with a minimum 2.5 GPA in all discipline and elective courses with no grade lower than a C-.
3 Residency hours—minimum of 20 credit hours through attendance at UVU.
4 Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.

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.

Bachelor of Applied Science 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:

Prerequisites or General Education Courses (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 Communications (3.0)

Complete the following required courses:  12 Credits

•  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

Certificate in Administrative Support  30 Credits

Discipline Core Requirements:  24 Credits

•  DGM 1010 Basic Computer Applications  2.0
•  DGM 2300 Records and Information Management  3.0
•  DGM 2350 Word Processing  3.0
•  DGM 2360 Spreadsheet Applications  3.0
•  DGM 2370 Database Applications  3.0
•  ACC 1750 Applied Accounting (4.0)
either
•  ACC 2010 Financial Accounting  3.0
•  MGMT 2200 Business Communications  3.0
•  MGMT 2250 Job Application and Advancement Skills  1.0
•  MGMT 3890 Career Preparation (2.0)  0.0

Elective Requirements:  6 Credits

Complete 6 credits from the following:  6.0

•  DGM 1063 Image Editing (2.0)
•  DGM 2120 Web Essentials (3.0)
•  DGM 219R Special Topics in Digital Media (1.0)
•  Other pre-approved electives; see advisor for details

Graduation Requirements:  1 Overall grade point average of 2.0 or above and a minimum 2.5 GPA in all discipline core and elective courses with no grade lower than a C-.
2 A minimum keyboarding skill of 40 net words per minute is required for graduation.
3 Residency hours—minimum of 20 credit hours through attendance at UVU.
4 Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.

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.
• ACC 3000  Financial Managerial and Cost Accounting Concepts (4.0)
• DGM 1063  Image Editing (2.0)
• FIN 1060  Personal Finance (3.0)
• LECG 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
- DGM, Digital Media
Art and Visual Communications

Department Chair: Jim Godfrey
Office: GT 535a
Telephone: 801-863-6190

Faculty:
Professor
Steve Bule
Bob deWitt
Catherine Downing
Perry Stewart
Associate Professor
Jim Godfrey
Susan Parkinson
Mark Talbert
Assistant Professor
Ray Elder
Brian Jensen
Patrick Wilkey
Lecturer
Courtney Davis
Howard Fullmer
Laurie Lisonbee
Don Seegmiller
Nancy Steele-Makasci
Visiting Artist
Tawni Shuler

Advisor: Juanita Bushman
Office: GT618A
Telephone: 801-863-6645

Advisor: Rae Ann Ellis
Office: GT 619C
Telephone: 801-863-6412

Advisor: TBD
Office: GT 619B
Telephone: 801-863-6867

Office Manager: Staci Owens
Office: GT 535
Telephone: 801-863-8341

School of the Arts
Dean: Patrick M. Jones
Office: GT 605a
Telephone: 801-863-7359

Advisory Committee: Stephen Hales, Stephen Hales Creative, Inc.; David Canaan, SBG Partners; Jeff Bell, Springville High School.

PROGRAM DESCRIPTION
The Art and Visual Communications Department provides both technical and aesthetic training in fine arts, design, and illustration as well as traditional and computer-based graphics production processes.

The art and visual communications industries have always offered challenging and rewarding careers to artistically talented individuals. This trend will continue in the future, but now these professions are demanding workers with both artistic and technical skills. Students will receive hands-on and theoretical training needed for entry-level employment in many exciting and diversified fields.

In addition to career training, the Art and Visual Communications Department provides opportunities to explore the possibilities of drawing, painting, sculpture, ceramics, or photography as elective credit or as a foundation for a career in fine art.

CAREER OPPORTUNITIES
Career opportunities are many and varied. Modern communication systems have an ever-increasing need for signs, symbols, books, brochures, labels, and innumerable other visual messages and documents. Companies employ people in such areas as screen printing, computer imaging, photography, pre-press composition and layout, design, and illustration. Graduates in visual arts are qualified to seek employment with such organizations as advertising agencies, business or industrial graphics departments, news agencies, and other desktop publishing and computer graphics workplaces. Many mid- and large-size companies also have in-house art/design departments requiring people with various artistic and technical skills.

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:
In order to apply to the BFA, students must first meet the core class requirements in the AVC Department and submit a portfolio for the departmental BFA review. The portfolio reviews are held in October and March. Students submit the portfolio at either review. Acceptance into the BFA is based on the portfolio review, a minimum GPA of 3.2 in the AVC program, and by maintaining a minimum overall GPA of 2.7. Students must maintain this GPA throughout the BFA degree in order to remain in the degree. For more information, contact the Academic Advisors.

Certificate in Art and Visual Communications

<table>
<thead>
<tr>
<th>Discipline Core Requirements: 18 Credits</th>
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<tbody>
<tr>
<td>ART 1120 2D Design</td>
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<tr>
<td>3.0</td>
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<tr>
<td>ART 1403 Graphic Computer Applications</td>
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<tr>
<td>ART 1110 Drawing I</td>
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<td>3.0</td>
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<tr>
<td>ART 1050 Photography I</td>
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AAS in Art and Visual Communications

<table>
<thead>
<tr>
<th>General Education Requirements: 16 Credits</th>
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<tbody>
<tr>
<td>ENGL 1010 Introduction to Writing</td>
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<td>3.0</td>
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<tr>
<td>MAT 1010 Intermediate Algebra* (4.0)</td>
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<td>3.0</td>
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<tr>
<td>ACC 1150 Fundamentals of Business Math*</td>
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<td>3.0</td>
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<tr>
<td>Social or Behavioral Science</td>
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<td>Biology or Physical Science</td>
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<td>P.E. or Health</td>
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<tr>
<td>ARTH 2710 History of Art to the Renaissance</td>
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<tr>
<th>Discipline Core Requirements: 15 Credits</th>
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<tr>
<td>ART 1120 2D Design</td>
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<td>ART 1110 Drawing I</td>
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<td>ART 1050 Photography I</td>
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<tr>
<td>ART 1130 3D Design</td>
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Emphasis:
Complete one of the following:
- Design/Illustration
- Graphic Design
- Photography

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

<table>
<thead>
<tr>
<th>Emphasis Requirements: 21 Credits</th>
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<tbody>
<tr>
<td>ART 2210 Drawing for Illustration</td>
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<tr>
<td>ART 2230 Illustrative Media and Techniques I</td>
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<tr>
<td>ART 2240 Illustrative Media and Techniques II</td>
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<tr>
<td>ART 2450 Interactive Design I</td>
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<tr>
<td>ART 2630 Painting I</td>
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<td>3.0</td>
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<tr>
<td>ART 1650 Watermedia I (3.0)</td>
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<tr>
<td>ART 2640 Painting II</td>
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<tr>
<td>ART 2650 Watermedia II (3.0)</td>
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<tr>
<td>ART 200R Art and Visual Communications Lectures (1.0)</td>
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Emphasis Elective Requirements: 12 Credits
Complete 2 credits of any ARTH course 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 3220 Illustration II (3.0)
- ART 361R Figure Drawing I (3.0)

Emphasis in Graphic Design

<table>
<thead>
<tr>
<th>Emphasis Requirements: 21 Credits</th>
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<tbody>
<tr>
<td>ART 1410 Typography and Layout I</td>
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<tr>
<td>ART 1430 Digital Prepress</td>
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<tr>
<td>ART 3410 Typography and Layout II</td>
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<tr>
<td>ART 2430 Graphic Design I</td>
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<tr>
<td>ART 2450 Digital Imaging I</td>
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<tr>
<td>ART 200R Art and Visual Communications Lectures (1.0)</td>
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<tr>
<td>ART 2460 Interactive Design I</td>
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</tbody>
</table>

Emphasis Elective Requirements: 12 Credits
Complete 2 credits of any ARTH course 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 (3.0)
- ART 3460 Interactive Design II (3.0)
- ART 3410 Advanced Layout (3.0)
- ART 3430 Graphic Design II (3.0)
Emphasis in Photography 33 Credits

Emphasis Requirements: 21 Credits

• ART 2450 Digital Imaging I 3.0
• ART 2700 Physical Photography II 3.0
• ART 2710 Photography III 3.0
• ART 2720 Color Photography 3.0
• ART 2730 Photographic Lighting 3.0
• ART 200R/ARTH 2790 Intro to Visual Communications 3.0
  Lectures (1.0)
• ARTH 2790 The History of Photography 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:

• ART 1410 Typograph and Layout I (3.0)
• ART 2460/ART 2460C Interactive Design I (3.0)
• ART 3750 Digital Imaging II (3.0)
• ART 471R/ART 471R C Photographic Illustration (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/ENGL 2010C Intermediate Writing—Humanities/ 3.0
  Social Sciences or ENGL 2020/ENGL 2025 Intermediate Writing—Science and 3.0
  Technology (3.0)

Complete one of the following:

• MATH 1030 Quantitative Reasoning (3.0)
• MATH 1040/ARTH 1110 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 1740 American Civilization (3.0)
• PES 1097 US Economic History (3.0)
• PES 1097 Personal Health and Wellness 2.0
• MATH 1050 American National Government (3.0)

Complete the following:

• ART 1120/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
• ART 2790 History of Art from the Renaissance (3.0)
• Social/Behavioral Science 3.0

Discipline Core Requirements: 18 Credits

• ART 1120 2D Design 3.0
• ART 1400/ARTH 1110 Graphic Computer Applications 3.0
• ART 1110/PHIL 2050 American National Government (3.0)
• ART 1050/ARTH 2720 Photography I 3.0
• ART 1130/ARTh 2710 History of Art from the Renaissance 3.0
• ART 1130/ARTH 2710 3 D Design 3.0

Effective Electives: 9 Credits

Complete a minimum of 9 credits from any ART/ARTH 9.0

Course not already required. Courses relative to the type of Bachelor's Degree you plan to pursue are recommended. (See department advisor for appropriate courses.)

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.

BA in Art and Visual Communications 120 Credits

General Education Requirements: 36 Credits

• ENGL 1010 Introduction to Writing 3.0
• ENGL 2010/ENGL 2010C Intermediate Writing—Humanities/ 3.0
  Social Sciences or ENGL 2020/ENGL 2025 Intermediate Writing—Science and 3.0
  Technology (3.0)

Complete one of the following:

• MATH 1030 Quantitative Reasoning (3.0)
• MATH 1040/ARTH 1110 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 1740 American Civilization (3.0)
• PES 1097 US Economic History (3.0)
• PES 1097 Personal Health and Wellness 2.0
• MATH 1050 American National Government (3.0)

Complete the following:

• ART 1120/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
• ART 2790 History of Art from the Renaissance (3.0)
• Social/Behavioral Science 3.0

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 1150/ARTH 1110 Painting I 3.0
• ART 2770/ARTH 2770 History of Art from the Renaissance 3.0
• ART 1130/ARTH 2710 3 D Design 3.0
• ART 1400/ARTH 1140 Graphic Computer Applications 3.0
• ART 200R/ARTH 200R Art and Visual Communications Lec-tures (1.0)
• ART 4890 Senior Seminar 3.0
• ART 4990 Senior Studio 3.0
• ART 200R/ARTH 200R Art and Visual Communications Lectures (1.0)

Complete 45 credits from any ART/ARTH courses 45.0

not already taken, of which 36 credits must be upper division.

Effective Electives: 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. (Departments may require a higher GPA.)
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 list-

ing, see page 25.
### Art and Visual Communications

#### 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 all General Education requirements and two pre-professional education courses.
4. AA, AS, or AAS Degree or equivalent in Art and Visual Communication or advisor approval.
5. AA, AS, or AAS Degree or equivalent in Art and Visual Communication or advisor approval.

**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)
- **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)

**Discipline Core Requirements:** 85 Credits
- **ART 1050** Photography I 3.0
- **ART 1110** Drawing I 3.0
- **ART 1402** 2D Design 3.0
- **ART 1130** 3D Design 3.0
- **ART 1650** Watermedia I 3.0
- **ART 2630** Painting I 3.0
- **ART 311R** Introduction to Printmaking 3.0
- **ART 3500** Secondary Art Education Methods I 3.0
- **ART 3510** Secondary Art Education Methods II 3.0
- **ART 2710** History of Art to the Renaissance 3.0
- **ART 2720** History of Art from the Renaissance to 1900 3.0
- **ART 200R** Art and Visual Communications Lectures (must be repeated) (1.0)
- **ART 4990** Senior Studio 3.0
- **ART 4990** Senior Seminar 3.0
- **ART 2450** Anatomy and Figure Structure 3.0

**Elective Requirements:** 30 Credits
- **ART 1340** Sculpture I 3.0

**Graduation Requirements:**
1. Completion of a minimum of 120 semester credits, with a minimum of 40 credits of upper division credit.

### BFA in Art and Visual Communications 125 Credits

**Matriculation Requirements:**
1. AA, AS, or AAS Degree or equivalent in Art and Visual Communication or advisor approval.
2. Portfolio Review

**General Education Requirements:** 35 Credits
- **ENGL 1010** Introduction to Writing 3.0
- **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)
- **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)

**Discipline Core Requirements:** 18 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 2270** History of Art from the Renaissance to 1900 3.0
- **ART 1130** 3D Design 3.0

**Emphasis:**
Complete one of the following:
- **Fine Arts**
  - Graphic Design 63.0
  - Illustration 63.0
  - Photography 63.0

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

**Graduation Requirements:**
1. Completion of a minimum of 125 semester credits.
2. Overall grade point average of 2.75 or higher with no grade lower than B- in Secondary Education courses.
3. Completion of GE and specified departmental requirements.
4. Students must complete one course that meets the Global/Intercultural Requirement, indicated by a course number ending in G.

### Emphasis in Fine Arts 63 Credits

**Elective Requirements:** 36 Credits
- **ART 1340** Sculpture I 3.0
- **ART 1350** Ceramics I 3.0
- **ART 1650** Watermedia I 3.0
- **ART 200R** Art and Visual Communications Lectures (1.0)
- **ART 2110** Drawing II 3.0
- **ART 2350** Ceramics II (3.0)
- **ART 2340** Sculpture II (3.0)
- **ART 2640** Painting II (3.0)
- **ART 2650** Watermedia II 3.0
- **ART 2630** Painting I 3.0
- **ART 261R** Figure Drawing I (3.0)
- **ART 4980** Senior Seminar (3.0)
- **ART 4990** Senior Studio (3.0)
- **ART 4991** BFA Project (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)

### Emphasis in Graphic Design 63 Credits

**Emphasis Requirements:** 54 Credits
- **ART 1410** Typography and Layout I 3.0
- **ART 1430** 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** Interactive Design I 3.0
- **ART 200R** Art and Visual Communications Lectures (must be repeated) 3.0
- **ART 3410** Advanced Layout 3.0
- **ART 3430** Graphic Design II 3.0
- **ART 3460** 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
- **ART 449R** Advanced Graphic Design Studio 3.0
- **ART 4980** Senior Seminar 3.0
- **ART 4990** Senior Studio 3.0
- **ART 4991** BFA Project 3.0
- **ARTH 3010** History of Design and Visual Arts (3.0)
- **ARTH 3070** Twentieth Century Art and Architectural History (3.0)

### Emphasis in Illustration 63 Credits

**Emphasis Requirements:** 24 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 2270** Anatomy and Figure Structure 3.0
- **ART 361R** Figure Drawing I 3.0
- **ART 200R** Art and Visual Communications Lectures (1.0)
- **ARTH 2780** The History of Illustration 3.0
- **ART 2905** any course 3000 level or higher 3.0

### Emphasis Elective Requirements: 39 Credits
Take 39 credits from the following. You may choose 39 credits from any of the following courses.
- **ART 1410** Typography and Layout I (3.0)
- **ART 3210** Illustration I (3.0)
• ART 3220 Illustration II (3.0)
• ART 3230 3-D Computer Modeling (3.0)
or ART 3470
or ART 3750 Digital Imaging II (3.0)
• ART 324R Children’s Book Illustration (3.0)
• ART 327R Rendering the Human Head (3.0)
or ART 328R
• ART 412R Advanced Illustration (Course Must be taken twice) (3.0)
• ART 4230 Advanced 3D Computer Modeling (3.0)
• ART 470R Interpretive Drawing (3.0)
• ART 4890 Senior Seminar (3.0)
• ART 4990 Senior Studio (3.0)
• ART 4991 BFA Project (3.0)
• DGM 2620 Principles of Animation I (4.0)
• DGM 3130 Digital Storyboarding (3.0)
• DGM 3620 Principles of Animation II (4.0)
• DGM 3630 Character Modeling (3.0)
• DGM 3640 Visual Effects and Compositing I (4.0)
• DGM 3680 Animation Project (3.0)
• ART/ARTH/ or DGM Upper Division Electives

Emphasis in Photography 63 Credits
Emphasis Requirements: 21 Credits
Complete the following:
• ART 200R Art and Visual Communications (3.0)
• ART 2170 Digital Imaging I (3.0)
• ART 2710 Photography III (3.0)
• ART 2720 Color Photography (3.0)
• ART 2730 Photographic Lighting (3.0)
• ART 2750 Photography II (3.0)
• ART 2450 Digital Imaging I (3.0)
• ARTH 2790 The History of Photography (3.0)

Emphasis Elective Requirements: 42 Credits
• ARTH 3010 History of Design and Visual Arts (3.0)
or ARTH 3070 Twentieth Century Art and Architectural History (3.0)
• ART 371R Alternative Photography (Must be repeated once for credit)
• ART 3750 Digital Imaging II (3.0)
• ART 474R Advanced Photo Studies (Must be repeated twice for credit)
• ART 4890 Senior Seminar (3.0)
• ART 4990 Senior Studio (3.0)
• ART 4991 BFA Project (3.0)
• ART 471R Photographic Illustration (Must be repeated once for credit)
• ARTH/ARTH Upper Division Electives (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 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 to the East (3.0)
• ARTH 3015 Ancient Art of Egypt and the Near East (3.0)
• ARTH 3020 Classical Art and Architecture History (3.0)
• ARTH 3030 Medieval Art and Architecture History (3.0)
• ARTH 3040 Renaissance Art History (3.0)
• ARTH 3050 Baroque Art and Architecture History (3.0)
• ARTH 3060 Nineteenth-Century Art History (3.0)
• ARTH 3070 Twentieth Century Art and Architectural History (3.0)
• ARTH 391R Art History Seminar (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 Graphic Design 18 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 courses: (9.0)
• ART 3430 Graphic Design II (3.0)
• ART 3460 Interactive Design II (3.0)
• ART 3470 Digital Painting (3.0)
• ART 443R Special Topics in Graphic Design (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 Photography 21 Credits
Emphasis Requirements: 21 Credits
• ART 1050 Photography I (3.0)
• ART 2720 Photography II (3.0)
• ART 2750 Photography III (3.0)
• ART 2720 Color Photography (3.0)
Complete 9 credits from the following courses: (9.0)
• ART 371R Alternative Photography (may be repeated once) (3.0)
• ART 471R Photographic Illustration (3.0)
• ART 474R Advanced Photo Studies (may be repeated once) (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 1000 Color Theory (3.0)
Complete an additional 36 credits from the AVC 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 HIST 2700 and HIST 2710, the additional three hours may be used towards a social science distribution requirement.

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

- ART, Art
- ARTH, Art History
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 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 1150 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 1260 Tech Math for Mechanics 3.0
- MGMT 2200 Business Communications 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.
3. Completion of specified departmental requirements

Diploma in Automotive Technology 56 Credits

Discipline Core Requirements: 56 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 1150 Automotive Electrical Systems 2.0
- AUT 1160 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
- AUT 2350 Electronic Diesel Fuel Management Systems 2.0
- MGMT 2200 Business Communications 3.0
- Any approved Behavioral Science, Social, or Political Science Distribution course 3.0
- AUT 1260 Tech Math for Mechanics 3.0
- Complete 8 credits from the following:
  - AUT 201L Automotive Service Practicum (Engine Performance and Steering Suspension (2.0))
  - AUT 202L Automotive Service Practicum (Emission Controls and Chassis Electronics (2.0))
  - AUT 203L Automotive Service Practicum (Brake Systems and Transmission Controls (2.0))
  - AUT 204L Automotive Service Practicum (Fuel Management Systems and HVACR (2.0))
  - AUT 201R Cooperative Work Experience (1.0)

AAS in Automotive Technology 64 Credits

General Education Requirements: 16 Credits
- MGMT 2200 Business Communications 3.0
- AUT 1260 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 Biology or Physical Science Distribution Course 3.0
- Any approved Physical Education, Health, Safety, or Environment Course 1.0

Discipline Core Requirements: 48 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 1150 Automotive Electrical Systems 2.0
- AUT 1160 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
- AUT 2350 Electronic Diesel Fuel Management Systems 2.0
- Complete 8 credits from the following:
  - AUT 201L Automotive Service Practicum (Engine Performance and Steering Suspension (2.0))
  - AUT 202L Automotive Service Practicum (Emission Controls and Chassis Electronics (2.0))
  - AUT 203L Automotive Service Practicum (Brake Systems and Transmission Controls (2.0))
  - AUT 204L Automotive Service Practicum (Fuel Management Systems and HVACR (2.0))
  - AUT 201R 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.
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:
- MATH 1030 Quantitative Reasoning (3.0)
- MATH 1040 Introduction to Statistics (3.0)
- MATH 1050 College Algebra (4.0)

Complete one of the following:
- POLS 1000 American Heritage (3.0)
- HIST 2700 US History to 1877 (3.0)
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 2020 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 one of the following:
  - AUT 2210 Automatic Transmissions and Transaxles Lab 2.0
  - AUT 116L Automotive Electrical Systems Lab 2.0
  - AUT 1170 Engine Electrical Systems 2.0
  - AUT 117L Engine Electrical Systems Lab 1.0
  - AUT 1210 Suspension and Steering Systems Lab 2.0
  - AUT 121L Suspension and Steering Systems 1.0
  - AUT 1220 Automatic Transmissions and Transaxles Lab 2.0
  - AUT 122L Automatic Transmissions and Transaxles 2.0
  - AUT 1230 Engine Performance Lab 2.0

Elective Requirements: 9 Credits
- Choose electives from 1000 level or higher

Graduation Requirements:
1. Completion of a minimum of 60 semester credits.
2. Overall grade point average of 2.0 (C) or above.
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
- AUT 2350 Electronic Diesel Fuel Management Systems 2.0

Complete 5 credits from the following:
- AUT 201L Automotive Service Practicum 3.0
  - Engine Performance Lab 2.0
  - Advanced Engine Performance 2.0
  - Advanced Emission Control Systems 2.0
  - Chassis Electrical and Electronics Systems 2.0
  - High Performance Engines 2.0

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

Utah Valley University
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Telephone: 801-863-7810  
Office: Provo Municipal Airport  

Department Chair: Steve Smith  
Telephone: 801-863-7791  
Office: Provo Municipal Airport  

Director of Academic Support:  
Rich Crandall, Flight/Ground Instructor  
Telephone: 801-863-7784 or 801-863-7777  
Office: Provo Municipal Airport  

Director of Flight Operations:  
Mario Markides, Flight Operations Manager  
Telephone: 801-863-7765 or 801-361-8165  
Office: Provo Municipal Airport  

Coordinator of Flight Operations  
Chris Williamson  
Telephone: 801-863-7780  

Assistant Director for Online Services:  
Ryan Tanner  
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Claire Downing  
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Faculty:  
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Assistant Professor  
Cory Chamberlain  
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James Green  
Telephone: 801-863-7819  
Mavis Green  
Telephone: 801-863-7862  
Rick Vincent  
Telephone: 801-863-7755  

Lecturer  
Brian Bastin  
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Telephone: 801-863-7870  
Todd Deshler  
Telephone: 801-863-7756  

Chief Flight Instructors:  
Andrew Loeffler, Instrument Certification  
Telephone: 801-863-5137  

Michelle Koerner, Private Certification  
Telephone: 801-863-7854  
Marilyn Riddle, CFI Certification  
Telephone: 801-863-7852  
Nathan Skene, Multi-engine and Commercial Certification  
Telephone: 801-863-7853  

Financial Aid (Aviation):  
Office Manager/Advisor Flight Training:  
Liz Butler  
Telephone: 801-863-7836  
Gloria Schneider  
Telephone: 801-863-7851  

Flight Dispatch:  
Telephone: 801-863-7831  

Information Center  
Telephone: 801-863-7771  

Online Call Center Advisors:  
Telephone: 801-863-7830 or 888-901-7192  

Marketing and Recruiting Manager:  
Kenneth Downing  
Telephone: 801-863-7825  

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 Cars, 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 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 a commercial pilot certificate issued by the Federal Aviation Administration to obtain the Bachelor of Science Professional Pilot or Tech Management, Associate in Science Aviation or Associate of Applied Science Aviation. The Bachelor of Science Aviation Administration does not require pilot certificates.  

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 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.

PROGRAMS
Students graduating with an AAS or AS in Aviation may transfer to the Bachelor of Science in 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 achieved in each aviation 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 66 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)
- HIST 1700 American Civilization (3.0)
- OR Any other Humanities (3.0)
- OR Any other Social Science (3.0)

Distribution Course
- HLTH 1100 Personal Health and Wellness (2.0)

Discipline Core Requirements: 48 Credits
- AVSC 1010 Survey of Aviation Science (2.0)
- AVSC 1020 Aircraft Identification (2.0)
- AVSC 1100 Ground Private Pilot (4.0)
- AVSC 1110 Flight Private Pilot Certification (3.0)
- AVSC 1220 Ground Commercial Pilot–Phase I (3.0)
- AVSC 1230 Flight Commercial Pilot–Phase I (3.0)
- AVSC 2140 Flight Instrument Pilot Rating (2.0)
- AVSC 2160 Aviation Law (3.0)
- AVSC 2310 Flight Commercial Pilot–Phase II (3.0)
- AVSC 2440 Ground Multi-Engine (1.0)
- AVSC 2450 Flight Multi-Engine (1.0)
- AVSC 281R/285R Cooperative Work Experience (1.0) (3.0)
- AVSC 285R Cooperative Related Class (1.0) (3.0)

Certified Flight Instructor
- AVSC 2330 Theory of Instruction (1.0)
- AVSC 2400 Ground Certified Flight Instructor (1.0)
- AVSC 2410 Flight Certified Flight Instructor (1.0)
- AVSC 2420 Ground CPR Instrument (1.0)
- AVSC 2430 Flight CPR Instrument (1.0)
- AVSC 2500 Ground Multi-Engine Instructor (1.0)
- AVSC 2510 Flight Multi-Engine Instructor (1.0)

First Officer
- AVSC 3300 Jet Transport Systems (3.0)
- AVSC 3600 Crew Resource Management/Human Factors (3.0)
- AVSC 4200 Ground Turbine Transition (3.0)
- AVSC 2860 SkillsUSA (1.0)

Aviation Management (Choose 9 credits)
- AVSC 3020 Aviation Insurance and Risk Management (3.0)
- AVSC 3100 Corporate Aviation Management (3.0)
- AVSC 3120 Airport Management (3.0)
- AVSC 3140 Fixed Base Operations Management (3.0)
- AVSC 3300 Air Traffic Control (3.0)
- AVSC 3340 Air Traffic Control II (3.0)
- AVSC 3600 Crew Resource Management/ Human Factors (3.0)

Graduation Requirements:
1. Completion of a minimum of 60 or more semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours—minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.

AS Pre Major in Aviation Science 60 CREDITS
Graduation Requirements:
1. Completion of a minimum of 60 or more semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours—minimum of 30 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

BS in Aviation 120 CREDITS
General Education Requirements: 35 Credits
- ENGL 1010 Introduction to Writing (3.0)
- ENGL 2010 Intermediate Writing–Science and Technology (3.0)

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. (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 10 credit hours of total cooperative work experience (AVSC 281R/285R/481R/485R) toward the degree requirements without department approval.
7. 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: If student chooses HIST 2700 and 2710, the additional hours may be used towards a social science distribution requirement.

**Emphasis in Aviation Administration 57 Credits**

**Emphasis Requirements: 38 Credits**
- AVSC 1020 Aircraft Identification 2.0
- AVSC 1030 Aviation Customer Service 3.0
- AVSC 1040 In-Flight Service 3.0
- AVSC 2180 Airline Computer Applications 3.0
- AVSC 2190 Introduction to Dispatch and Scheduling 3.0
- AVSC 2200 Aviation Marketing 3.0
- AVSC 3020 Aviation Insurance and Risk Management 3.0
- AVSC 3050 Aviation Human Resource Management 3.0
- AVSC 3060 Regional Airline Management 3.0
- AVSC 3070 Aviation Cargo Operations 3.0
- AVSC 3100 Corporate Aviation Management 3.0
- AVSC 3120 Airport Management 3.0
- AVSC 3140 Fixed Base Operations Management 3.0

**Emphasis Elective Requirements: 19 Credits**
- Must complete 19 credits from the following elective courses:
  - AVSC 1100 Ground Private Pilot (4.0)
  - AVSC 1110 Flight Private Pilot Certification (3.0)
  - AVSC 1220 Ground Commercial Pilot--Phase I (1.0)
  - AVSC 1230 Flight Commercial Pilot--Phase I (3.0)
  - AVSC 1240 Ground Instrument Pilot (4.0)
  - AVSC 1250 Flight Instrument Pilot Rating (2.0)
  - AVSC 2300 Ground Commercial Pilot--Phase II (2.0)
  - AVSC 2310 Flight Commercial Pilot--Phase II (3.0)
  - AVSC 2330 Theory of Instruction (1.0)
  - AVSC 2400 Ground Certified Flight Instructor (3.0)
  - AVSC 2410 Flight Certified Flight Instructor (1.0)
  - AVSC 281R Cooperative Work Experience (1.0)
  - AVSC 285R Cooperative Related Class (1.0)
  - AVSC 2860 SkillsUSA (1.0)
  - AVSC 3030 Air Traffic Control (3.0)
  - AVSC 3040 Air Traffic Control II (3.0)
  - AVSC 3210 Aircraft Crash and Emergency Management (3.0)
  - AVSC 3610 Aviation Safety and Security (3.0)
  - AVSC 475R Current Topics in Aviation (1.0)
  - AVSC 481R Cooperative Work Experience (1.0)
  - AVSC 485R Cooperative Related Class (1.0)

**Emphasis in Professional Pilot 57 Credits**

**Emphasis Requirements: 39 Credits**
- AVSC 1020 Aircraft Identification 2.0
- AVSC 1100 Ground Private Pilot 4.0
- AVSC 1110 Flight Private Pilot Certification 3.0
- AVSC 1220 Ground Commercial Pilot--Phase I 1.0
- AVSC 1230 Flight Commercial Pilot--Phase I 3.0
- AVSC 1240 Ground Instrument Pilot 4.0
- AVSC 1250 Flight Instrument Pilot Rating 2.0
- AVSC 2300 Ground Commercial Pilot--Phase II 3.0
- AVSC 2310 Flight Commercial Pilot--Phase II 3.0
- AVSC 2440 Ground Multi-Engine 1.0
- AVSC 2450 Flight Multi-Engine 1.0
- AVSC 3030 Air Traffic Control 3.0
- AVSC 3400 High Altitude Navigation/Instrumentation 3.0
- AVSC 3530 Advanced Aerodynamics 3.0
- AVSC 3310 Jet Transport Systems 3.0

**Emphasis Elective Requirements: 18 Credits**
- Must complete 18 credits from the following courses, including 10 hours of upper division.
  - AVSC 1120 Basic Aircraft Systems (1.0)
  - AVSC 1130 Glider Rating (1.0)
  - AVSC 1150 Mountain and Desert Flying (1.0)
  - AVSC 1160 Seaplane Rating (1.0)
  - AVSC 1280 21st Century Avionics and Instrumentation (1.0)
  - AVSC 2170 Airline Interview Preparation (1.0)
  - AVSC 2330 Theory of Instruction (1.0)
  - AVSC 235R Unusual Attitude Safety Training (1.0)

- AVSC 2400 Ground Certified Flight Instructor (3.0)
- 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 281R Cooperative Work Experience (1.0)
- AVSC 285R Cooperative Related Class (1.0)
- AVSC 2860 SkillsUSA (1.0)
- AVSC 3030 Aviation Insurance and Risk Management (3.0)
- AVSC 3040 Air Traffic Control II (3.0)
- AVSC 3100 Corporate Aviation Management (3.0)
- AVSC 3140 Fixed Base Operations Management (3.0)
- AVSC 4200 Ground Turbine Transition (3.0)
- AVSC 4210 Flight Turbine Transition (1.0)
- AVSC 4300 Ground Airplane Transport Pilot/ Aircraft Dispatcher (3.0)
- AVSC 4310 Flight Airplane Transport Pilot (1.0)
- AVSC 475R Current Topics in Aviation (1.0)
- AVSC 481R Cooperative Work Experience (1.0)
- AVSC 485R Cooperative Related Class (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 Aviation Science 45 Credits**

**Emphasis Requirements: 33 Credits**
- AVSC 1010 Survey of Aviation Science 2.0
- AVSC 1100 Ground Private Pilot 4.0
- AVSC 1110 Flight Private Pilot Certification 3.0
- AVSC 1220 Ground Commercial Pilot--Phase I 1.0
- AVSC 1230 Flight Commercial Pilot--Phase I 3.0
- AVSC 1240 Ground Instrument Pilot 4.0
- AVSC 1250 Flight Instrument Pilot Rating 2.0
- AVSC 2160 Aviation Law 3.0
- AVSC 2300 Ground Commercial Pilot--Phase II 3.0
- AVSC 2310 Flight Commercial Pilot--Phase II 3.0
- AVSC 2440 Ground Multi-Engine 1.0
- AVSC 2450 Flight Multi-Engine 1.0

**Elective Requirements: 12 Credits**
- Complete 12 credits from the following:
  - AVSC 1020 Aircraft Identification (2.0)
  - AVSC 2050 Introduction to Aviation Security (3.0)
  - AVSC 2330 Theory of Instruction (1.0)
  - AVSC 2400 Ground Certified Flight Instructor (3.0)
  - 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 281R Cooperative Work Experience (1.0)
  - AVSC 285R Cooperative Related Class (1.0)
  - AVSC 2860 SkillsUSA (1.0)
  - AVSC 3030 Aviation Insurance and Risk Management (3.0)
  - AVSC 3100 Corporate Aviation Management (3.0)
  - AVSC 3120 Airport Management (3.0)
  - AVSC 3140 Fixed Base Operations Management (3.0)
  - AVSC 410G Global Ethical and Professional Issues in Aviation (3.0)
  - AVSC 475R Current Topics in Aviation (1.0)
  - AVSC 481R Cooperative Work Experience (1.0)
  - AVSC 485R Cooperative Related Class (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
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, and the Behavioral Science major for the bachelor degree (with an emphasis in Anthropology, Family Studies, Psychology, Social Work or Sociology). 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.

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 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)
  or HIST 2700 US History since 1877 (3.0)
  and HIST 2710 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)
  or POLS 1100 American National Government (3.0)
Complete the following: (3.0)
- PHIL 2050 Ethics and Values* (3.0)
- HLTH 1100 Personal Health and Wellness 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)
- PSY 1010 General Psychology (Social/Behavioral Science) (3.0)
Discipline Core Requirements: 14 Credits
Complete two of the following: (6.0)
- ANTH 101G Social/Cultural Anthropology (3.0)
- SOC 1100 Introduction to Sociology (3.0)
- SW 1010 Introduction to Social Work and Social Welfare (3.0)
**Behavioral Science**

- ANTH 3100 Anthropology of Gender and Sexuality (3.0)
- ANTH 3130 Reproduction and Biomedicine (3.0)
- ANTH 3300 Development and Rural Societies (3.0)
- ANTH 360R People and Cultures of the World (3.0)
- PSY 3100 Psychology of Gender (3.0)
- SOC 320G Race and Minority Relations (3.0)

**Emphasis**

Complete one of the following:
- Anthropology 3.0
- Family Studies 3.0
- Psychology 3.0
- Social Work 3.0
- Sociology 3.0

**Elective Requirements:** 24 Credits

- Language Requirement (16 credits in the same foreign language, includes ASL). Any course numbered 1000 or higher 8.0

**Graduation Requirements:**

1. Completion of a minimum of 123 credits, 40 of which must be 3000 level or higher.
2. Minimum UU GPA of 2.0 upon graduation.
3. Residency hours - minimum of 30 credit hours through course attendance at UU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements, all major course work taken to meet Behavioral Science requirements must be completed with a grade of C- or better.
5. For the BA degree, completion of 16 credit hours of course work from one language to include the 1010, 1020, 2010, 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: 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.

Footnotes:

* Course must be completed for matriculation.

**Emphasis in Anthropology** 51 Credits

<table>
<thead>
<tr>
<th>Emphasis Requirements: 30 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Matriculation Requirement - (1 course / 3 credits) Must complete all matriculation requirements (see Discipline Core) before taking any upper-division required courses.</td>
</tr>
<tr>
<td>ANTH 1020 Biological Anthropology* 3.0</td>
</tr>
<tr>
<td>Lower Division Anthropology Requirement - (1 course / 3 credits) Complete one of the following:</td>
</tr>
<tr>
<td>ANTH 1030 World Prehistory (3.0)</td>
</tr>
<tr>
<td>ANTH 107G Multicultural Societies (3.0)</td>
</tr>
<tr>
<td>ANTH 180G Introduction to American Indian Studies (3.0)</td>
</tr>
<tr>
<td>ANTH 2030 Ancient Anthropology (3.0)</td>
</tr>
<tr>
<td>ANTH 275R Survey of Current Topics (3.0)</td>
</tr>
<tr>
<td>Anthropology Core Requirements (4 courses / 12 credits) Complete two of the following:</td>
</tr>
<tr>
<td>ANTH 4150 Contemporary Theory and Debates 3.0</td>
</tr>
<tr>
<td>ANTH 4160 History of Anthropological Thought 3.0</td>
</tr>
<tr>
<td>Upper Division Anthropology Requirement - (4 courses / 12 credits) Choose one upper division (3000 or higher) 12.0</td>
</tr>
<tr>
<td>Choose four upper division (3000 or higher) 12.0</td>
</tr>
<tr>
<td>Allied Credit Requirement - (2 courses / 6 credits) Choose courses totaling 6 credits. All must be 3000 level or above. Must be in Behavioral Sciences, Psychology, Sociology, and/or Social Work (BESC/PSY/SOC/SW). Only 3 credits may be used from BESC/PSY/SOC/SW 490R Independent Studies. Advanced Research Requirement - (1 course / 3 credits)</td>
</tr>
<tr>
<td>ANTH 4850 Ethnographic Project 3.0</td>
</tr>
</tbody>
</table>

**Emphasis Elective Requirements:** 12 Credits

Behavioral Science Electives (4 courses / 12 credits). 12.0

In addition to the requirements listed above, students must complete 12 credits of approved Behavioral Science electives. Please see the Behavioral Science advisor for a list of approved courses.

**Emphasis in Family Studies** 51 Credits

<table>
<thead>
<tr>
<th>Emphasis Requirements: 45 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lower Division Family Studies Requirement (3 courses / 9 credits)</td>
</tr>
<tr>
<td>PSY 1100 Human Development Life Span 3.0</td>
</tr>
<tr>
<td>or PSY 1150 Marriage/Relationship Skills 3.0</td>
</tr>
<tr>
<td>or SOC 1150 Marriage/Relationship Skills (3.0)</td>
</tr>
<tr>
<td>PSY 2800 Human Sexuality 3.0</td>
</tr>
<tr>
<td>Development Requirement (1 course / 3 credits) - Choose one of the following:</td>
</tr>
<tr>
<td>PSY 3200 Infancy and Childhood Development (3.0)</td>
</tr>
<tr>
<td>PSY 3210 Adolescent Development (3.0)</td>
</tr>
<tr>
<td>PSY 3220 Adult Development (3.0)</td>
</tr>
<tr>
<td>Research Requirement (1 course / 3 credits) - Choose one of the following:</td>
</tr>
<tr>
<td>PSY 3020 Research Methods for the Behavioral Sciences</td>
</tr>
<tr>
<td>or SOC 3020 Research Methods for the Behavioral Sciences (3.0)</td>
</tr>
<tr>
<td>Advanced Research Requirement (1 course / 3 credits) - Choose one of the following:</td>
</tr>
<tr>
<td>PSY 4010 Experimental Psychology (3.0)</td>
</tr>
<tr>
<td>or PSY 4020 Survey Research Design (3.0)</td>
</tr>
<tr>
<td>or SOC 4020 Survey Research Design (3.0)</td>
</tr>
<tr>
<td>PSY 4030 Introduction to Practice Evaluation and Grant Writing (3.0)</td>
</tr>
<tr>
<td>or SOC 4030 Introduction to Practice Evaluation and Grant Writing (3.0)</td>
</tr>
<tr>
<td>or SW 4030 Introduction to Practice Evaluation and Grant Writing (3.0)</td>
</tr>
<tr>
<td>Content Requirement (6 courses / 18 credits) - Choose three upper division (3000 or higher) 9.0</td>
</tr>
<tr>
<td>PSY 3240 Applied Marriage 3.0</td>
</tr>
<tr>
<td>or SOC 3240 Applied Marriage (3.0)</td>
</tr>
<tr>
<td>or PSY 3250 Applied Parenting 3.0</td>
</tr>
<tr>
<td>or SOC 3250 Applied Parenting (3.0)</td>
</tr>
<tr>
<td>or PSY 4660 Family Financial Management 3.0</td>
</tr>
<tr>
<td>or SOC 4660 Family Financial Management (3.0)</td>
</tr>
<tr>
<td>or PSY 4670 Family Dynamics and Systems 3.0</td>
</tr>
<tr>
<td>or SOC 4670 Family Dynamics and Systems (3.0)</td>
</tr>
<tr>
<td>Intervention/Counseling Requirement (2 courses / 6 credits) - Choose one of the following:</td>
</tr>
<tr>
<td>PSY 4300 Introduction to Counseling and Psychotherapy (3.0)</td>
</tr>
<tr>
<td>or SW 4300 Introduction to Counseling and Psychotherapy (3.0)</td>
</tr>
<tr>
<td>or PSY 4400 Introduction to Group Psychotherapy (3.0)</td>
</tr>
<tr>
<td>or SW 4400 Introduction to Group Psychotherapy (3.0)</td>
</tr>
<tr>
<td>or PSY 3410 Fundamentals of Mediation and Negotiation (3.0)</td>
</tr>
<tr>
<td>or SW 3410 Fundamentals of Mediation and Negotiation (3.0)</td>
</tr>
<tr>
<td>or COMM 3410 Fundamentals of Mediation and Negotiation (3.0)</td>
</tr>
<tr>
<td>or LEGL 3410 Fundamentals of Mediation and Negotiation (3.0)</td>
</tr>
<tr>
<td>or PSY 4200 Domestic Mediation (3.0)</td>
</tr>
<tr>
<td>or SW 4200 Domestic Mediation (3.0)</td>
</tr>
<tr>
<td>Internship Requirement (1 course / 3 credits / 225 field hours)</td>
</tr>
<tr>
<td>BESC 481R Senior Internship (1.0) 3.0</td>
</tr>
</tbody>
</table>

**Emphasis Elective Requirements:** 6 Credits

In addition to the requirements listed above, students must complete 6 credits of approved Behavioral Science electives. Please see the Behavioral Science advisor for a list of approved courses.

**Emphasis in Psychology** 51 Credits

<table>
<thead>
<tr>
<th>Emphasis Requirements: 36 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Matriculation Requirement - (1 course / 3 credits) Must complete all matriculation requirements (see Discipline Core) before taking any upper-division required courses. Complete one of the following*:</td>
</tr>
<tr>
<td>PSY 3400 Abnormal Psychology (3.0)</td>
</tr>
<tr>
<td>or PSY 3460 Personality Theory (3.0)</td>
</tr>
<tr>
<td>or PSY 3500 Social Psychology (3.0)</td>
</tr>
<tr>
<td>Lower Division Psychology Requirement - (2 courses / 6 credits) Complete one of the following:</td>
</tr>
<tr>
<td>PSY 1100 Human Development Life Span (3.0)</td>
</tr>
<tr>
<td>or PSY 1150 Marriage/Relationship Skills (3.0)</td>
</tr>
<tr>
<td>or PSY 275R Survey of Current Topics (3.0)</td>
</tr>
<tr>
<td>or PSY 2800 Human Sexuality (3.0)</td>
</tr>
<tr>
<td>Development/Counseling Area (1 course / 3 credits) Complete one of the following:</td>
</tr>
<tr>
<td>PSY 3200 Infancy and Childhood Development (3.0)</td>
</tr>
<tr>
<td>PSY 3210 Adolescent Development (3.0)</td>
</tr>
<tr>
<td>PSY 3220 Adult Development (3.0)</td>
</tr>
<tr>
<td>PSY 4300 Introduction to Counseling and Psychotherapy (3.0)</td>
</tr>
<tr>
<td>PSY 4400 Introduction to Group Psychotherapy (3.0)</td>
</tr>
<tr>
<td>Choose three upper division (3000 or higher) 9.0</td>
</tr>
<tr>
<td>Allied Credit Requirement - (2 courses / 6 credits) Choose courses totaling 6 credits. All must be 3000 level or above. Must be in Psychology, Behavioral Science, Social Work, and/or Sociology (ANTH/BESC/SOC/SW). Only 3 credits may be used from ANTH/BESC/SOC/SW 490R Independent Studies. SW 4800 not allowed. Research Requirement - (2 courses / 6 credits)</td>
</tr>
<tr>
<td>PSY 3020 Research Methods for the Behavioral Sciences (3.0)</td>
</tr>
<tr>
<td>Complete one of the following (1 course / 3 credits):</td>
</tr>
<tr>
<td>PSY 4010 Experimental Psychology (3.0)</td>
</tr>
<tr>
<td>or PSY 4020 Survey Research Design (3.0)</td>
</tr>
<tr>
<td>or PSY 4030 Introduction to Program Evaluation and Grant Writing (3.0)</td>
</tr>
<tr>
<td>or PSY 4040 Applied Psychology (3.0)</td>
</tr>
<tr>
<td>or PSY 4050 Clinical Research (3.0)</td>
</tr>
</tbody>
</table>

**Emphasis Elective Requirements:** 15 Credits

Behavioral Science electives (5 courses / 15 credits). 15.0

In addition to the requirements listed above, students must complete 15 credits of approved Behavioral Science electives, 3 hours must be upper-division. Please see the Behavioral Science advisor for a list of approved courses.

Footnotes:

* Course must be completed before a student can matriculate.

**Emphasis in Social Work** 51 Credits

<table>
<thead>
<tr>
<th>Emphasis Requirements: 39 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Matriculation Requirement - (1 course / 3 credits) Must complete all matriculation requirements (see Discipline Core) before taking any upper-division required courses.</td>
</tr>
<tr>
<td>SW 1010 Introduction to Social Work and Social Welfare* 3.0</td>
</tr>
<tr>
<td>Social Work Core Requirements (7 courses / 21 credits)</td>
</tr>
<tr>
<td>PSY 3400 Abnormal Psychology (3.0)</td>
</tr>
<tr>
<td>or PSY 3460 Personality Theory (3.0)</td>
</tr>
<tr>
<td>or PSY 3500 Social Psychology (3.0)</td>
</tr>
<tr>
<td>BESC 3100 Career Preparation for Behavioral Science Majors (2.0)</td>
</tr>
<tr>
<td>or SW 3500 Social Welfare Policies and Services (3.0)</td>
</tr>
</tbody>
</table>
Emphasis in Sociology 51 Credits

Emphasis Requirements: 33 Credits
Matriculation Requirement - (1 course / 3 credits)
• Must complete all matriculation requirements (see Discipline Core) before taking any upper-division courses.

• SOC 3000 Contemporary Social Theory* 3.0

Lower Division Sociology Requirement - (2 courses / 6 credits)
Complete two of the following: 6.0
• SOC 1020 Modern Social Problems (3.0)
• SOC 1150 Marriage/Relationship Skills (3.0)
• SOC 1200 Sociology of the Family (3.0)
• SOC 2230 Intro to Gender Studies (3.0)
• SOC 275R Survey of Current Topics (3.0)

Upper Division Sociology Requirement - (4 courses / 12 credits)
Choose four upper division (3000 or higher), 3 credit
SOC courses (4 courses / 12 credits)
Allied Credit Requirement - (2 courses / 6 credits).
Choose courses totaling 6 credits. All must be 3000 level or above. Must be in Anthropology, Behavioral Science, Philosophy, and/or Social Work (ANTH/BESC/PSY/SOC). Only 3 credits may be used from ANTH/POLY/SOC 490R: Independent Studies.

Research Requirement - (5 courses / 16 credits). These courses must have a cumulative GPA of 3.0 or better. Must be 3000 level or above. Must be in Anthropology, Behavioral Science, Philosophy, Psychology, and/or Social Work (ANTH/BESC/PSY/SOC). Only 3 credits may be used from ANTH/POLY/SOC 490R: Independent Studies.

Emphasis Elective Requirements: 18 Credits
Behavioral Science Electives (6 courses / 18 credits).
• SOC 3020 Research Methods for the Behavioral Sciences (3.0)
• SOC 4030 Introduction to Program Evaluation and Grant Writing (3.0)

Emphasis in Behavioral Science 123 Credits

Matriculation Requirements:
1. Must complete the Behavioral GPA of 2.0 (at the time a student applies to the program).
2. Must complete 28 credits of matriculation requirements with a minimum GPA of 3.0 in the 16 behavioral science courses. If a student needs to complete an Associate degree through another institution, the required general education matriculation courses may be waived.

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 one of the following: 3.0
• HIST 2700 US History to 1877 (3.0)
• HIST 2701 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 and Grant Writing (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

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
• PSY 1010 General Psychology* (Social/ Behavioral Science) 3.0

Discipline Core Requirements: 13 Credits
Matriculation requirement - (5 courses / 16 credits). These courses must have a cumulative GPA of 3.0 or better. Must complete one course that corresponds to their emphasis. Must complete the following:
• ANTH 101G Social/Cultural Anthropology (3.0)
• PSY 1010 General Psychology (completed with GE requirements) (3.0)
• SOC 1010 Introduction to Sociology (3.0)
• SW 1010 Introduction to Social Work and Social Welfare (3.3)
• MATH 1050 College Algebra (4.0)

Complete the following:
• PSY 3010 Statistics for the Behavioral Sciences* 4.0
• SOC 3010 Statistics for the Behavioral Sciences* 4.0

Complete emphasis specific matriculation course for 3 credits (see Specialty Core Requirements); it must be completed before completing other Discipline Core requirements.

Diversity Requirement - Choose One Course (1 course / 3.0 credits)
• ANTH 3100 Anthropology of Gender and Sexuality (3.0)
• ANTH 3130 Reproduction and Biomedicine (3.0)
• ANTH 3300 Development and Rural Societies (3.0)
• MATH 1050 College Algebra (4.0)
• PSY 1010 General Psychology (3.0)

Emphasis Complete one of the following:
• Anthropology 51.0
• Family Studies 51.0
• Psychology 51.0
• Social Work 51.0

Sociology 51.0

Elections Requirements: 24 Credits
• Elective Requirements (24 elective credits) 24.0

Graduation Requirements:
1. Completion of a minimum of 123 credits, 40 of which must be 3000 level or higher.
2. Minimum UVU GPA of 2.0 upon graduation.

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 all core and specified departmental requirements, all major course work taken to meet Behavioral Science requirements must be completed with a grade of C- or better.

5. Students completing a bachelor degree following the 2006 or later catalog must complete one course that meets the Global/Intercultural Requirement, indicated by a course number ending in G. For a complete list of courses, see page 25.

Emphasis in Anthropology 51 Credits

Emphasis Requirements:
Matriculation Requirement - (1 course / 3 credits)
• Must complete all matriculation requirements (see Discipline Core) before taking any upper-division required courses.
• ANTH 1020 Biological Anthropology (3.0)

Lower Division Anthropology Requirement - (1 course / 3 credits)
• ANTH 1030 World Prehistory (3.0)
• ANTH 107G Multicultural Societies (3.0)

Upper Division Anthropology Requirement - (4 courses / 12 credits)
Choose four upper division (3000 or higher), 3 credit
ANTH courses (4 courses / 12 credits)
Allied Credit Requirement - (2 courses / 6 credits).
Choose courses totaling 6 credits. All must be 3000 level or above. Must be in Anthropology, Behavioral Science, Psychology, Sociology, and/or Social Work (BESC/PSY/SOC/SW). Only 3 credits may be used from BESC/PSY/SOC/SW 490R: Independent Studies.

Emphasis Elective Requirements: 12 Credits
Behavioral Science Electives (4 courses / 12 credits).
In addition to the requirements listed above, students must complete 12 credits of approved Behavioral Science electives. Please see the Behavioral Science advisor for a list of approved courses.

Footnotes:
• Course must be completed before a student can matriculate.

Emphasis in Family Studies 51 Credits

Emphasis Requirements: 45 Credits
Lower Division Family Studies Requirement (3 courses / 9 credits)
• PSY 1100 Human Development Life Span 3.0
• PSY 1150 Marriage/Relationship Skills 3.0
• or SOC 1150 Marriage/Relationship Skills (3.0)
• PSY 2900 Human Sexuality 3.0

Development Requirement (1 course / 3 credits)
• Choose one of the following:

• PSY 3220 Infant and Childhood Development (3.0)
• PSY 3210 Adolescent Development (3.0)
• PSY 3220 Adult Development (3.0)

Research Requirement (1 course / 3 credits)
• PSY 3020 Research Methods for the Behavioral Sciences 3.0
• SOC 3020 Research Methods for the Behavioral Sciences 3.0

Advanced Research Requirement (1 course / 3 credits)
• Choose one of the following:

• PSY 4010 Experimental Psychology (3.0)
• PSY 4020 Survey Research Design (3.0)
• SOC 4020 Survey Research Design (3.0)
• PSY 4030 Introduction to Practice Evaluation and Grant Writing (3.0)
• SOC 4030 Introduction to Practice Evaluation and Grant Writing (3.0)

• SW 4030 Introduction to Practice Evaluation and Grant Writing (3.0)
• PSY 4040 Applied Psychology (3.0) 6.0
Choose courses totaling 6 credits. All must be 3000 level or above. They must be in Anthropology, Behavioral Science, Social Work, and/or Sociology (ANTH/BESC/SW/SOC). Only 3 credits may be used from ANTH/SOC/SW 490F: Independent Studies. SW 4800 not allowed.
Research Requirement - (2 courses / 6 credits) 3.0
Complete one of the following (1 course / 3 credits) 3.0
• PSY 4010 Experimental Psychology (3.0) 3.0
• PSY 4020 Survey Research Design (3.0) 3.0
• PSY 4030 Introduction to Program Evaluation and Grant Writing (3.0) 3.0
• PSY 4040 Applied Psychology (3.0) 3.0
• PSY 4050 Clinical Research (3.0) 3.0
Emphasis Elective Requirements: 15 Credits
Behavioral Science Electives (15 courses / 15 credits) 4.5
In addition to the requirements listed above, students must complete 15 credits of approved Behavioral Science electives, 3 hours must be upper-division. Please see the Behavioral Science advisor for a list of approved courses.
Footnotes:
• Course must be completed before a student can matriculate.

Emphasis in Social Work 51 Credits
Emphasis Requirements: 39 Credits
Matriculation Requirement - (1 course / 3 credits) Must complete all matriculation requirements (see Discipline Core) before taking any upper-division required courses. SW 1010 Introduction to Social Work and Social Welfare 3.0
Social Work Core Requirements (7 courses / 21 credits) 7.0
• PSY 1100 Human Development Life Span 3.0
• PSY 3400 Abnormal Psychology 3.0
• BESC 3100 Career Preparation for Behavioral Science Majors 2.0
• SW 3500 Social Welfare Policies and Services 3.0
• SW 3800 Clinical Interviewing Skills 4.0
• SW 4300 Introduction to Counseling and Psychotherapy 3.0
• SW 4400 Introduction to Group Psychotherapy 3.0
Allied Credit Requirement - (2 courses / 6 credits) 6.0
Choose courses totaling 6 credits. All must be 3000 level or above. They must be in Anthropology, Behavioral Science, Psychology, and/or Sociology (ANTH/BESC/PSY/SOC). Only 3 credits may be used from ANTH/SOC/SW 490F: Independent Studies. Research Requirement - (2 courses / 6 credits) 3.0
• PSY 3020 Research Methods for the Behavioral Sciences 3.0
• PSY 4020 Survey Research Design (3.0) 3.0
• SW 4300 Introduction to Program Evaluation and Grant Writing (3.0) 3.0
• SW 4500 Clinical Research (3.0) 3.0
Senior Capstone Requirement - (1 course / 3 credits) 3.0
SW 4800 Practicum 3.0
Emphasis Elective Requirements: 12 Credits
Behavioral Science electives (4 courses/12 credits) 4.0
In addition to the requirements listed above, students must complete 12 credits of approved Behavioral Science electives. Please see the Behavioral Science advisor for a list of approved courses. Footnotes:
• Course must be completed before a student can matriculate.

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 Anthropology 19 Credits
Emphasis Requirements: 19 Credits
Prerequisites:
• ANTH 101G Social/Cultural Anthropology** 3.0
Complete the following:
• ANTH 1020 Biological Anthropology (3.0) 3.0
• SOC 3100 Statistics for the Behavioral Sciences (4.0) 4.0
• ANTH 4150 Contemporary Theory and Debates (3.0) 3.0
• ANTH 4160 History of Anthropological Thought (3.0) 3.0
• ANTH 4850 Ethnographic Methods (3.0) 3.0
Complete 6 additional credits in Anthropology. Three 6 credits must be upper-division.
Footnotes:
• ANTH 101G/PSY/SOC 1010 are introductory courses and pre-requisites which may not be used in the 19 hours required for these Integrated Studies Emphases.

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 Psychology 19 Credits
Emphasis Requirements: 19 Credits
Prerequisites:
• PSY 1010 General Psychology* 3.0
Complete the following:
• PSY 2250 Psychology of Interpersonal Relationships 3.0
• PSY 2600 Learning Memory and Cognition 3.0
• PSY 3430 Psychopharmacology (3.0) 3.0
• PSY 4150 Tests and Measurements (3.0) 3.0
• PSY 4500 History and Systems of Psychology (3.0) 3.0
Development / Counselling Area (1 course / 3 credits) 3.0
Choose one of the following:
• PSY 3200 Infancy and Childhood Development (3.0) 3.0
• PSY 3210 Adolescent Development (3.0) 3.0
• PSY 3220 Adult Development (3.0) 3.0
• PSY 4300 Introduction to Counseling and Psychotherapy (3.0) 3.0
• PSY 4400 Introduction to Group Psychotherapy (3.0) 3.0
Choose three upper division (3000 or higher), 3 credit Psychology courses (3 courses / 9 credits) 9.0

Emphasis in Sociology 51 Credits
Emphasis Requirements: 33 Credits
Matriculation Requirement - (1 course / 3 credits) Must complete all matriculation requirements (see Discipline Core) before taking any upper-division required courses. SOC 3000 Contemporary Social Theory* 3.0
Lower Division Sociology Requirement - (2 courses / 6 credits) 6.0
Complete two of the following:
• SOC 1020 Modern Social Problems (3.0) 3.0
• SOC 1150 Marriage/Relationship Skills (3.0) 3.0
• SOC 1200 Sociology of the Family (3.0) 3.0
• SOC 2370 Gender Roles (3.0) 3.0
• SOC 275F Survey of Current Topics (3.0) 3.0
Upper Division Sociology Requirement - (4 courses / 12 credits) Choose four upper division (3000 or higher), 3 credit courses (4 courses / 12 credits) 12.0
SOC courses (4 courses / 12 credits) 4.0
Allied Credit Requirement - (2 courses / 6 credits) 6.0
Choose courses totaling 6 credits. All must be 3000 level or above. They must be in Anthropology, Behavioral Science, Psychology, and/or Sociology (ANTH/BESC/PSY/SOC). Only 3 credits may be used from ANTH/SOC/SW 490F: Independent Studies. Research Requirement - (2 courses / 6 credits) 3.0
• PSY 4010 Experimental Psychology (3.0) 3.0
• PSY 4020 Survey Research Design (3.0) 3.0
• PSY 4030 Introduction to Practice Evaluation and Grant Writing (3.0) 3.0
• PSY 4040 Applied Psychology (3.0) 3.0
• PSY 4050 Clinical Research (3.0) 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.)
• Complete 6 additional credits in Psychology (PSY). Three credits must be upper division.

Footnotes:
** ANTH 101G/PSY/SOC 1010 are introductory courses and pre-requisites which may not be used in the 19 hours required for these Integrated Studies Emphases.
* If students take ECON 3340 as part of their other emphasis, they are not required to take PSY/SOC 3010. They may substitute an upper division PSY course in its place.

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 Sociology  19 Credits
Emphasis Requirements:  19 Credits
Prerequisites:
• SOC 1010 Introduction to Sociology** (3.0)
Complete the following:
• SOC 3000 Contemporary Social Theory 3.0
• SOC 3010 Statistics for the Behavioral Sciences* 4.0
• SOC 3020 Research Methods for the Behavioral Sciences 3.0
Advanced Research (complete one of the following):  3.0
• SOC 4020 Survey Research Design (3.0)
• SOC 4030 Introduction to Practice Evaluation and Grant Writing (3.0)
• SOC 4040 Applied Sociology (3.0)
• Complete 6 additional credits in Sociology (SOC).  6.0
Credits may be lower or upper division.

Footnotes:
** ANTH 101G/PSY/SOC 1010 are introductory courses and pre-requisites which may not be used in the 19 hours required for these Integrated Studies Emphases.
* If students take ECON 3340 as part of their other emphasis, they are not required to take PSY/SOC 3010. They may substitute an upper division ANTH, PSY, SOC, or SW course in its place.

See Course Descriptions section of the catalog for detailed course information. This department manages the following course prefixes:
- ANTH, Anthropology
- BESC, Behavioral Science
- PSY, Psychology
- SOC, Sociology
- SW, Social Work
The UVU Biology program offers a variety of courses that investigate the living world, including courses in biology, biotechnology, botany, ecology, 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**

Five degree options are available: Associate in Science Degree with a pre-major in Biology; Bachelor of Science Degree in Integrated Studies 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 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.

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 degree may be granted to those who do not continue in a bachelor’s program and meet the minimum requirements. The Bachelor of Science in Biology Degree 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**

<table>
<thead>
<tr>
<th>AS Pre Major in Biology</th>
<th>60 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education Requirements:</td>
<td>42 Credits</td>
</tr>
<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>• MATH 1050 College Algebra</td>
<td>4.0</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>
</tr>
<tr>
<td>• POLS 1000 American Heritage (3.0)</td>
<td></td>
</tr>
<tr>
<td>• POLS 1100 American National Government (3.0)</td>
<td></td>
</tr>
<tr>
<td>Complete the following:</td>
<td></td>
</tr>
<tr>
<td>• PHIL 2050 Ethics and Values</td>
<td>3.0</td>
</tr>
<tr>
<td>• HETH 1100 Personal Health and Wellness (2.0)</td>
<td></td>
</tr>
<tr>
<td>or PES 1097 Fitness for Life</td>
<td>2.0</td>
</tr>
<tr>
<td>Distribution Courses</td>
<td></td>
</tr>
<tr>
<td>• BIOL 1610 College Biology I</td>
<td>4.0</td>
</tr>
<tr>
<td>and BIOL 1615 College Biology Laboratory I</td>
<td>4.0</td>
</tr>
<tr>
<td>• CHEM 1210 Principles of Chemistry I</td>
<td>4.0</td>
</tr>
<tr>
<td>and CHEM 1215 Principles of Chemistry I Laboratory</td>
<td>4.0</td>
</tr>
<tr>
<td>• CHEM 1220 Principles of Chemistry II</td>
<td>4.0</td>
</tr>
<tr>
<td>and CHEM 1225 Principles of Chemistry II Laboratory</td>
<td>4.0</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>
<tr>
<td>Discipline Core Requirements:</td>
<td>10 Credits</td>
</tr>
<tr>
<td>Complete the following:</td>
<td></td>
</tr>
<tr>
<td>• BIOL 1620 College Biology II</td>
<td>3.0</td>
</tr>
<tr>
<td>and BIOL 1625 College Biology Laboratory II</td>
<td>1.0</td>
</tr>
<tr>
<td>• Minimum of 2 additional biology courses (BIOL, BOT, MICR, or ZOOL prefixes): BIOL 1010 and BIOL 1050 cannot be used to meet this requirement. See Biology Advisor.</td>
<td></td>
</tr>
<tr>
<td>Elective Requirements:</td>
<td>8 Credits</td>
</tr>
<tr>
<td>• Same Foreign Language</td>
<td>8.0</td>
</tr>
<tr>
<td>Graduation Requirements:</td>
<td></td>
</tr>
<tr>
<td>1. Completion of a minimum of 60 semester credits.</td>
<td></td>
</tr>
<tr>
<td>2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)</td>
<td></td>
</tr>
<tr>
<td>3. Residency hours — minimum of 20 credit hours through course attendance at UVU.</td>
<td></td>
</tr>
<tr>
<td>4. Completion of GE and specified departmental requirements.</td>
<td></td>
</tr>
<tr>
<td>5. For the AA degree, completion of 8 credit hours of course work from one language.</td>
<td></td>
</tr>
</tbody>
</table>
### Biology

- **BIOL 4550** Molecular Evolution and Biomatics 3.0
- **BTEC 481R** Biotechnology Internship (1.0) 5.0
- **BTEC 481R** Biotechnology Internship (1.0) 5.0
- or **BIOL 489R** Student Research (1.0) and **BIOL 499R** Senior Thesis (1.0) 3.0
- **MICR 2000** Health Professions 4.0
- **MATH 2040** Principles of Statistics 4.0
- **PHYS 2010** College Physics I 4.0
- **PHYS 2020** College Physics II Lab 1.0
- **PHYS 2025** College Physics II 4.0
- or **GEOG 1300** Survey of World Geography (3.0) and **GEOG 3630** Introduction to Geographic Information Systems (4.0)
- **CHEM 2125** Principles of Chemistry I Laboratory 1.0
- **CHEM 2125** Principles of Chemistry II Laboratory 1.0
- **CHEM 2310** Organic Chemistry I 4.0
- **CHEM 2315** Organic Chemistry II Laboratory 1.0
- **CHEM 2320** Organic Chemistry II 4.0
- and **CHEM 2325** Organic Chemistry II Laboratory 1.0
- or **CHEM 3020** Environmental Chemistry (3.0) and **CHEM 3025** Environmental Chemistry Laboratory (1.0)

#### Elective Requirements: 10 Credits
- Additional credits to meet credit and upper-division requirements.

#### Graduation Requirements:
1. Complete the required minimum credit hours.
2. Complete 10 credit hours in residence at UVU.
3. A minimum of 40 credits must be upper-division (numbered 3000 or above).
4. Complete core courses with a grade of “C-” or higher in each.
5. Achieve a minimum overall GPA of 2.0 with a minimum GPA of 2.25 in core courses.
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 list, see page 25.

### BS in Botany 122 Credits

<table>
<thead>
<tr>
<th>General Education Requirements: 39 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ENGL 1010</strong> Introduction to Writing 3.0</td>
</tr>
<tr>
<td><strong>ENGL 2200</strong> Intermediate Writing--Science and Technology 3.0</td>
</tr>
<tr>
<td><strong>MATH 1050</strong> College Algebra 4.0</td>
</tr>
<tr>
<td>Complete one of the following: 3.0</td>
</tr>
<tr>
<td><strong>HIST 2700</strong> US History to 1877 (3.0) and <strong>HIST 2710</strong> US History since 1877 (3.0)</td>
</tr>
<tr>
<td><strong>HIST 1700</strong> American Civilization (3.0)</td>
</tr>
<tr>
<td><strong>HIST 1740</strong> US Economic History (3.0)</td>
</tr>
<tr>
<td><strong>POLS 1000</strong> American Heritage (3.0)</td>
</tr>
<tr>
<td><strong>POLS 1100</strong> American National Government (3.0)</td>
</tr>
<tr>
<td>Complete the following: 3.0</td>
</tr>
<tr>
<td><strong>PHIL 2050</strong> Ethics and Values 3.0</td>
</tr>
<tr>
<td><strong>HLTH 1100</strong> Personal Health and Wellness (2.0) or <strong>PES 1097</strong> Fitness for Life 2.0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Distribution Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BIOL 1610</strong> College Biology I 4.0</td>
</tr>
<tr>
<td><strong>CHEM 1210</strong> Principles of Chemistry I 4.0</td>
</tr>
<tr>
<td><strong>CHEM 1220</strong> Principles of Chemistry II 4.0</td>
</tr>
<tr>
<td><strong>Humansities Distribution</strong> 3.0</td>
</tr>
<tr>
<td><strong>Fine Arts Distribution</strong> 3.0</td>
</tr>
<tr>
<td><strong>Social/Behavioral Science</strong> 3.0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Discipline Core Requirements: 70 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BIOL 1615</strong> College Biology I Laboratory 1.0</td>
</tr>
<tr>
<td><strong>BIOL 1620</strong> College Biology II 3.0</td>
</tr>
<tr>
<td><strong>BIOL 1625</strong> College Biology II Laboratory 1.0</td>
</tr>
<tr>
<td><strong>BIOL 3400</strong> Cell Biology 3.0</td>
</tr>
<tr>
<td><strong>BIOL 3500</strong> Genetics 3.0</td>
</tr>
<tr>
<td><strong>BIOL 3700</strong> General Ecology 3.0</td>
</tr>
<tr>
<td><strong>BIOL 3705</strong> General Ecology Laboratory 1.0</td>
</tr>
<tr>
<td><strong>BIOL 3800</strong> Conservation Biology 3.0</td>
</tr>
<tr>
<td><strong>BIOL 4500</strong> Principles of Evolution 3.0</td>
</tr>
<tr>
<td><strong>BIOL 494R</strong> Seminar 1.0</td>
</tr>
<tr>
<td><strong>MATH 2040</strong> Principles of Statistics 4.0</td>
</tr>
<tr>
<td><strong>MATH 1060</strong> Trigonometry (3.0) and <strong>MATH 1210</strong> Calculus I (5.0) 4.0</td>
</tr>
<tr>
<td><strong>PHYS 2010</strong> College Physics I 4.0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Minor in Biology 21 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Matriculation Requirements:</td>
</tr>
<tr>
<td>1. Admitted to a bachelor degree program at UVU.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Discipline Core Requirements: 21 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete the following with a grade of C- or better:</td>
</tr>
<tr>
<td><strong>BIOL 1610</strong> College Biology I 4.0</td>
</tr>
<tr>
<td><strong>BIOL 1615</strong> College Biology I Laboratory 1.0</td>
</tr>
<tr>
<td><strong>BIOL 1620</strong> College Biology II 3.0</td>
</tr>
<tr>
<td><strong>BIOL 1625</strong> College Biology II Laboratory 1.0</td>
</tr>
<tr>
<td>Complete 12 upper-division credits from any <strong>BIOL 494R</strong>, <strong>BIOL 489R</strong>, <strong>BIOL 499R</strong>, or <strong>BIOL 497R</strong>.</td>
</tr>
</tbody>
</table>

#### Elective Requirements: 10 Credits
- Additional credits to meet credit and upper-division 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 credit hours in residence at UVU or satellite sites are required, with 10 hours earned during the last 45 hours.
4. A minimum of 30 credits must be upper-division (numbered 3000 or above).
5. A minimum of 40 credits must be upper-division (numbered 3000 or above).
6. Achieve a minimum overall GPA of 2.0 with a minimum GPA of 2.25 in core courses.
7. 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.

### Minor in Biology 21 Credits

<table>
<thead>
<tr>
<th>Matriculation Requirements:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Admitted to a bachelor degree program at UVU.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Discipline Core Requirements: 21 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete the following with a grade of C- or better:</td>
</tr>
<tr>
<td><strong>BIOL 1610</strong> College Biology I 4.0</td>
</tr>
<tr>
<td><strong>BIOL 1615</strong> College Biology I Laboratory 1.0</td>
</tr>
<tr>
<td><strong>BIOL 1620</strong> College Biology II 3.0</td>
</tr>
<tr>
<td><strong>BIOL 1625</strong> College Biology II Laboratory 1.0</td>
</tr>
<tr>
<td>Complete 12 upper-division credits from any <strong>BIOL 494R</strong>, <strong>BIOL 489R</strong>, <strong>BIOL 499R</strong>, or <strong>BIOL 497R</strong>.</td>
</tr>
</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.)

<table>
<thead>
<tr>
<th>Emphasis in Biology 18 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Matriculation Requirements:</td>
</tr>
<tr>
<td>1. Admitted to a bachelor degree program at UVU.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Discipline Core Requirements: 18 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biotechnology Emphasis</td>
</tr>
<tr>
<td>Pre requisites (see Advisor):</td>
</tr>
<tr>
<td><strong>BIOL 1610</strong> College Biology I (4.0)</td>
</tr>
<tr>
<td><strong>BIOL 1615</strong> College Biology I Laboratory (1.0)</td>
</tr>
<tr>
<td><strong>CHEM 1110</strong> Elementary Chemistry for the Health Sciences (recommended) (4.0)</td>
</tr>
<tr>
<td>Complete the following Kingdom</td>
</tr>
<tr>
<td><strong>BIOL 1620</strong> College Biology II 3.0</td>
</tr>
<tr>
<td><strong>BIOL 1625</strong> College Biology II Laboratory 1.0</td>
</tr>
</tbody>
</table>

### USU/UVU Horticulture Program

Coordinator: Michael S. Caron
Office: CE 105
Telephone: 801-863-8042
E-mail: caronmi@uvu.edu
Website: http://www.uvu.edu/ce/horticulture/

The USU/UVU Horticulture Program is a partnership between Utah State University and Utah Valley University. Currently USU offers classes at UVU for a 1-year certificate and an Associate in Applied Science degree (AAS) in Horticulture (the degrees are awarded by Utah State University). For full program description, see the Degree Partnerships section of this catalog.

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

- **BIOL** Biology
- **BOT** Botany
- **BTEC** Biotechnology
- **MICR** Microbiology
- **ZOOL** Zoology
Building Construction

Department of Construction Technologies

Department Chair: Barry Hallsted
Office: GT 601
Telephone: 801-863-8135

Program Coordinator: Bob Dunn
Office: GT 613A
Telephone: 801-863-8249

Faculty:
Professor
Bob Dunn
Fred Davis
DeWayne Erdmann
Eric Linfield

Associate Professor
Barry Hallsted
James Cox

Assistant Professor
Sandra Ozuna

Office Manager: Sandra Ozuna
Office: GT 613
Telephone: 801-863-7405

Advisor: Amy Ostler
Office: CS 635
Telephone: 801-863-8138

Advisory Committee: Jeff Wright, Sunroc; Scott Kendal, Scott Kendal Construction; Steve Metler, Metler Brothers Construction; Fritz Froyer, Stock Building Supply; Monte Mecham, Monte Mecham Construction; Abe Gilbert, Premier Homes; Eugene Metler, Metler Brothers Construction; Fritz Froyer, Stock Building Supply; Monte Mecham, Monte Mecham Construction; Abe Gilbert, Premier Homes; Eugene Metler, Metler Brothers Construction; Jim Baird, BMC West Building Materials; Richard Fullmer, AGC.

College of Technology and Computing
Dean: Ernest Carey
Office: CS 720
Telephone: 801-863-8321

CAREER OPPORTUNITIES

Graduates from the Building Construction program (one-year certificate) are prepared to read architectural drawings; lay-out framing; frame walls, roofs, and stairs; shingle roofs; apply siding; install doors, windows, and interior trim.

Graduates of the two-year Building Construction and Construction Management program are prepared for employment as construction foremen, job superintendents, project managers, or one year applies to contractor's license experience.

PROGRAMS

Students may earn a One-Year Certificate, an Associate in Applied Science degree, or an Associate in Science degree, or a Bachelor of Science Degree in Technology Management.

Reminder: an overall grade point average of 2.0 (C) or above is required for graduation.

Certificate in Building Construction 32 CREDITS

Discipline Core Requirements: 32 CREDITS

- BCCM 1110 Principles of Residential Framing 3.0
- BCCM 1120 Blueprint Reading 2.0
- BCCM 1150 Building Construction Safety 1.0
- BCCM 1170 Principles of Mechanical Electrical and Plumbing Design 2.0
- BCCM 1190 Framing and Concrete Lab 5.0
- BCCM 1210 Principles of Finish Carpentry 3.0
- BCCM 1220 Finishing Lab 5.0
- BCCM 1230 Construction Estimating 2.0
- BCCM 1240 Roofs Stairs and Special Framing 3.0
- BIT 1010 Residential Codes (3.0)
or
- BIT 1020 Construction Codes 3.0
- EGD 1600 Technical Math-Algebra* 3.0

Graduation Requirements:
1. Completion of a minimum of 32 semester credits.
2. Overall grade point average of 2.0 (C) or above.
3. Complete all Technical Specialty courses with a minimum grade of "C-" or better.
4. Residency hours--minimum of 10 credit hours through course attendance at UVU.

Footnotes:
* Must be completed with a grade of C- or higher.

AAS in Building Construction 68 CREDITS

General Education Requirements: 15 CREDITS

- ENGL 1010 Introduction to Writing 3.0
- ART 1720 Architectural Rendering 3.0
- EGD 1600 Technical Math-Algebra MATH 1040 required for the Bachelors Degree*
- TECH 2000 Technology and Human Life 3.0
- PSYC 1000 Survey of Physical Science 3.0

Discipline Core Requirements: 53 CREDITS

- BCCM 1110 Principles of Residential Framing 3.0
- BCCM 1120 Blueprint Reading 2.0
- BCCM 1150 Building Construction Safety 1.0
- BCCM 1210 Principles of Finish Carpentry 3.0
- BCCM 1220 Finishing Lab 5.0
- BCCM 1230 Construction Estimating 2.0
- BCCM 1240 Roofs Stairs and Specialty Framing 3.0
- BCCM 1250 Utah Contractors License Regulation and Procedure 2.0
- BCCM 1260 Computer Estimating 2.0
- ACC 2010 Financial Accounting 3.0
- BIT 1010 Building Codes 3.0
or
- BIT 1020 Residential Codes (3.0)
- CMGT 1010 Introduction to Construction Management 3.0
- CMGT 1020 Construction Materials and Methods I 3.0
- CMGT 3000 Principles of Construction Scheduling 3.0
- CMGT 399R Student Professional Organization (0.5)
- EGD 1020 3D Architectural Modeling 3.0
or
- EGD 1090 Introduction to Architecture Drafting (3.0)
- EGD 1400 Surveying 4.0

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. Complete all discipline core requirements with a minimum grade of "C-" or better.

Footnote:
* Must be completed with a grade of C- or higher.

AS Pre Major in Building Construction and Construction Management 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 since 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: 16 CREDITS

- Choose from BCCM or CMGT 1000 level or higher

Elective Requirements: 12 CREDITS

- Electives (1000 level or higher)

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 Building Construction and Construction Management 46 CREDITS

Emphasis Requirements: 46 CREDITS

- BCCM 1110 Principles of Residential Framing 3.0
- BCCM 1120 Blueprint Reading 2.0
- BCCM 1150 Building Construction Safety 1.0
- BCCM 1170 Principles of Mechanical Electrical and Plumbing Design 2.0
- BCCM 1190 Framing and Concrete Lab 5.0
- BCCM 1210 Principles of Finish Carpentry 3.0
- BCCM 1220 Finishing Lab 5.0
- BCCM 1230 Construction Estimating 2.0
- BCCM 1240 Roofs Stairs and Specialty Framing 2.0
- BCCM 1250 Utah Contractors License 2.0
- Regulation and Procedure 2.0
- BCCM 1260 Computer Estimating 2.0
- CMGT 1020 Construction Materials and Methods I 3.0

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Building Construction

• CMGT 3000 Principles of Construction Scheduling 3.0
• BIT 1010 Building Codes 3.0
or BIT 1020 Residential Codes (3.0)
• EGDT 1400 Surveying 4.0
• EGDT 1020 3D Architectural Modeling 3.0
or EGDT 1090 Introduction to Architecture Drafting (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
Building Inspection Technology

Department of Construction Technologies

Department Chair: Barry Halsted
Office: GT 601
Telephone: 801-863-8135

Program Coordinator: Fred Davis
Office: GT 615
Telephone: 801-863-8861

Faculty:
Associate Professor
Fred Davis
Office Manager: Sandra Ozuna
Office: GT 613
Telephone: 801-863-7405

Advisor: Amy Ostler
Office: CS 635
Telephone: 801-863-8138

Advisory Committee: Quinn Davis, Wasatch County Building Official; Bill Bell, Building Safety Division Manager; Donna Jackson, Midvale City Building Official; Gilbert Gonzales, Murray City Assistant Building Official; Dave Johnson, Public Works Director/Building Official.

College of Technology and Computing
Dean: Ernest Carey
Office: CS 720
Telephone: 801-863-8321

CAREER OPPORTUNITIES

Graduates of this program will be better equipped to find employment in building inspection, building construction, and construction supervision. In addition, this curriculum will provide supporting instruction for those students in the construction trades as well as architectural and engineering drafting programs.

PROGRAMS

Students may earn a One-Year Certificate, an Associate in Applied Science Degree, or a Bachelor of Science Degree in Technology Management.

Reminder: an overall grade point average of 2.0 (C) or above is required for graduation.

Certificate in
Building Inspection Technology 29 Credits

<table>
<thead>
<tr>
<th>Discipline Core Requirements: 30 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>• COMM 2110 Interpersonal Communication 3.0</td>
</tr>
<tr>
<td>• BIT 1010 Building Codes 3.0</td>
</tr>
<tr>
<td>• BIT 1170 Field Lab--Building Codes 1.0</td>
</tr>
<tr>
<td>• BIT 1240 Plumbing Codes 3.0</td>
</tr>
<tr>
<td>• BIT 1330 Mechanical Codes 3.0</td>
</tr>
<tr>
<td>• BIT 1340 Electrical Codes 3.0</td>
</tr>
<tr>
<td>• BIT 1380 Ride-Along Lab 1.0</td>
</tr>
<tr>
<td>• BCCM 1110 Principles of Residential Framing 3.0</td>
</tr>
<tr>
<td>• BCCM 1120 Blueprint Reading 2.0</td>
</tr>
<tr>
<td>• BCCM 1150 Building Construction Safety 3.0</td>
</tr>
<tr>
<td>• BCCM 1240 Roofs Stairs and Specialty Framing 3.0</td>
</tr>
<tr>
<td>• ESFO 2030 Fire Inspector I 3.0</td>
</tr>
</tbody>
</table>

AAS in
Building Inspection Technology 68 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 |

(recommended for Biology/Physical Science requirement)

Discipline Core Requirements: 52 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 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 3.0 |
| BCCM 1240 Roofs Stairs and Specialty Framing 3.0 |
| CMGT 1010 Introduction to Construction Management 3.0 |
| CMGT 1020 Construction Materials and Methods I 3.0 |
| MGMT 1250 Principles of Leadership 3.0 |

Graduation Requirements:
1. Completion of a minimum of 68 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.

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
Building Inspection Technology 45 Credits

<table>
<thead>
<tr>
<th>Emphasis Requirements: 45.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>• BIT 1010 Building Codes 3.0</td>
</tr>
<tr>
<td>• BIT 1170 Field Lab--Building Codes 1.0</td>
</tr>
<tr>
<td>• BIT 1230 Plan Review 3.0</td>
</tr>
<tr>
<td>• BIT 1240 Plumbing Codes 3.0</td>
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<td>• BIT 1330 Mechanical Codes 3.0</td>
</tr>
<tr>
<td>• BIT 1340 Electrical Codes 3.0</td>
</tr>
<tr>
<td>• BIT 1380 Ride-Along Lab 1.0</td>
</tr>
<tr>
<td>• BCCM 1110 Principles of Residential Framing 3.0</td>
</tr>
<tr>
<td>• BCCM 1120 Blueprint Reading 2.0</td>
</tr>
<tr>
<td>• BCCM 1150 Building Construction Safety 1.0</td>
</tr>
<tr>
<td>• BCCM 1190 Framing and Concrete Lab 5.0</td>
</tr>
<tr>
<td>• BCCM 1240 Roofs Stairs and Specialty Framing 3.0</td>
</tr>
</tbody>
</table>

Building Inspection Technology

- BCCM 299R Skills USA (1.0) 1.0
- EGDT 1020 3D Architectural Modeling 3.0
- EGDT 1400 Surveying 4.0
- EGDT 1600 Technical Math--Algebra 3.0
- ESFO 2030 Fire Inspector I 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
- LNE, Lineman Technology
- WELD, Welding Technology

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BS in Business/Marketing Education 124 CREDITS

Matriculation 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 2100 Interdisciplinary 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
  - HIST 2700 US History to 1877 (3.0)
  - HIST 2710 US History since 1877 (3.0)

Minor in Business Education 19-24 CREDITS
Matriculation Requirements:
- 1 Minimum ACT scores.
- 2 GPA of 2.75 or higher.
- 3 A CAPP written exam.
- 4 An interview directed by the Secondary Teacher Education Selection and Retention Committee.

5 Must be accepted into a Secondary Education major program.

Discipline Core Requirements: 3 Credits
- BMED 4200 Methods of Teaching Digital Technology 3.0

Emphasis Requirements:
Complete one of the following:
- Business Core 21.0
- Business Information Technology 19.0
- Digital Media 17.0
- Marketing 18.0

Graduation Requirements:
1. Overall grade point average 2.75 or above with no grade lower than a B- in all discipline and specialty core courses.
2. Students are responsible for completing all prerequisite courses.
3. Fifty percent of the credits for the minor must be Upper-division courses.

Notes:
- Students must pass a criminal background check at the beginning of the junior year.
- Participation in Phi Beta Lambda (PBL) or Delta Epsilon Chi (DEX) is recommended for one semester.
- Students will teach at least one business (or marketing if completing the Marketing emphasis) course during the student teaching experience.

Emphasis in Basic Business Core 21 Credits
Emphasis Requirements:
- BMED 4250 Methods of Teaching Business and Marketing* 3.0
- ACC 2100 Financial Accounting 3.0
- LEGL 3000 Business Law 3.0
- FIN 1060 Personal Finance 3.0

Complete at least 9 credits from the following courses:
- ECON 2010 Microeconomics (3.0)
- ECON 2020 Macroeconomics (3.0)
- FIN 3100 Principles of Finance (3.0)
- MGMT 2200 Business Communications (3.0)
- MGMT 3010 Principles of Management (3.0)
- MGMT 3800 Principles of Marketing (3.0)

Footnotes:
* Courses requiring field experience

Emphasis in Business Information Technology 19 Credits
Emphasis Requirements:
- 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

Emphasis in Digital Media 17 Credits
Emphasis Requirements:
- DGM 1110 Digital Media Essentials I 4.0
- DGM 2120 Web Essentials 3.0
- DGM 2210 3D Modeling and Animation 4.0
- DGM 2870 Authoring for the Internet I 3.0
- DGM 3790 Authoring for the Internet II 3.0

Emphasis in Marketing 18 Credits
Emphasis Requirements:
- BMED 4250 Methods of Teaching Business and Marketing* 3.0
- MGMT 3650 Selling and Sales Management 3.0
- MGMT 3800 Principles of Marketing 3.0
- MGMT 3860 Internet Marketing 3.0

Emphasis Elective Requirements: 6 Credits
Complete 6 credits from the following courses:
- MGMT 3170 Entrepreneurship (3.0)
- MGMT 3220 Retail Management (3.0)
- MGMT 335Q International Marketing (3.0)
- MGMT 3620 Consumer Behavior (3.0)
- MGMT 3870 Advertising and Promotion (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:

- 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
- DGM, Digital Media
Cabinetry and Architectural Woodwork

Department of Construction Technologies

Department Chair: Barry Hallsted
Office: GT 601
Telephone: 801-863-8135

Program Coordinator: Kelly Baird
Office: GT 625b
Telephone: 801-863-8860
Shop: GT 625

Faculty:
Associate Professor
Kelly Baird

Office Manager: Sandra Ozuna
Office: GT 613
Telephone: 801-863-7405

Advisor: Amy Ostler
Telephone: 801-863-8138

Advisory Committee: Dennis Hardcastle, Fetzer’s, Inc.; Jon Fondell, Fondell Woodworks; Lon Purcell, Cottonwood Mill & Cabinet; Duane Lundel, American Stores Properties Mill

College of Technology and Computing
Dean: Ernest Carey
Office: CS 720
Telephone: 801-863-8321

CAREER OPPORTUNITIES
The highly skilled craftsperson in the cabinet-making field may find work in factory production, set-up, milling, assembling, and installing highly-customized cabinetry in residences, banks, department stores, and restaurants. Other jobs may be found in furniture work, and specialized facets of the industry. Self-employment often follows short-term trade experience.

PROGRAMS
Students may receive a One-Year Certificate, a Diploma, an Associate in Applied Science degree, an Associate in Science degree, or a Bachelor of Science Degree in Technology Management.

Reminder: an overall grade point average of 2.0 (C) or above is required for graduation.

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
- CWA 1170 Finish Technology 2.0
- CWA 1210 Cabinetmaking Materials and Hardware 1.0
- CWA 1240 Millworking Shop II 5.0
- CWA 2310 Cabinetry Math 2.0
- CWA 299R Skills USA 1.0

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

- CWA 1130 Residential Cabinetry 4.0
- CWA 1140 Millworking and Safety Shop I 5.0
- CWA 1150 Design Drafting and Billing 3.0
- CWA 1170 Finish Technology 2.0
- CWA 1210 Cabinetmaking Materials and Hardware 1.0
- CWA 1240 Millworking Shop II 5.0
- CWA 1250 Drafting and Computer Applications for Cabinetmakers 4.0
- CWA 2300 Counter-top Technology 3.0
- CWA 2310 Cabinetry Math 2.0
- CWA 2340 Millworking Shop III 5.0
- CWA 2345 Machine Maintenance and Upkeep 2.0
- CWA 299R Skills USA 1.0
- EGDT 1040 Computer Aided Drafting—AutoCAD 3.0

Graduation Requirements:
1. Completion of a minimum of 51 semester credits.
2. Overall grade point average of 2.0 (C) or above.
3. Residency hours—minimum of 20 credit hours through course attendance at UVU.
4. Complete all core requirements with a minimum grade of “C-” or better.

AAS in Cabinetry and Architectural Woodwork 66 CREDITS

General Education Requirements: 16 Credits

- ENGL 1010 Introduction to Writing 3.0
- MATH 3010 Introduction to Business Math 3.0
- HUM 1100 Introduction to Fine Arts 3.0
- SOC 2010 Introduction to Social Science 3.0
- BIOL 2010 Introduction to Biology 4.0
- CHEM 1100 Introduction to Chemistry 5.0
- PHYS 1100 Introduction to Physics 5.0
- HIST 1100 Introduction to American History 3.0
- HIST 2100 Introduction to World History 3.0
- ARTS 2010 Introduction to the Arts 3.0

Discipline Core Requirements: 50 Credits

- CWA 1130 Residential Cabinetry 4.0
- CWA 1140 Millworking and Safety Shop I 5.0
- CWA 1150 Design Drafting and Billing 3.0
- CWA 1170 Finish Technology 2.0
- CWA 1210 Cabinetmaking Materials and Hardware 1.0
- CWA 1240 Millworking Shop II 5.0
- CWA 1250 Drafting and Computer Applications for Cabinetmakers 4.0
- CWA 2300 Counter-top Technology 3.0
- CWA 2310 Cabinetry Math 2.0
- CWA 2340 Millworking Shop III 5.0
- CWA 2345 Machine Maintenance and Upkeep 2.0
- CWA 299R Skills USA 1.0
- EGDT 1040 Computer Aided Drafting—AutoCAD 3.0

Graduation Requirements:
1. Completion of a minimum of 66 semester credits.
2. Overall grade point average of 2.0 (C) or above.
3. Residency hours—minimum of 20 credit hours through course attendance at UVU.
4. 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: 36 Credits

- ENGL 1010 Introduction to Writing 3.0
- ENGL 2010 Intermediate Writing—Humanities/Social Sciences 3.0
- COMM 2110 Introduction to Speech 3.0
- PHIL 2050 Introduction to Philosophy 3.0
- MATH 1110 Introduction to Algebra 3.0
- MATH 2120 Introduction to Calculus 3.0
- PHYS 1100 Introduction to Physics 3.0
- CHEM 1100 Introduction to Chemistry 3.0
- BIOL 1100 Introduction to Biology 3.0
- ARTS 2010 Introduction to the Arts 3.0
- SOCI 1110 Introduction to Sociology 3.0

Elective Requirements: 12 Credits

- 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

- CWA 1130 Residential Cabinetry 4.0
- CWA 1140 Millworking and Safety Shop I 5.0
- CWA 1150 Design Drafting and Billing 3.0

Complete 45 credits from the following:
- CWA 1130 Residential Cabinetry 4.0
- CWA 1140 Millworking and Safety Shop I 5.0
- CWA 1150 Design Drafting and Billing 3.0
Cabinetry and 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--Auto-CAD (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
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E-mail: Bruce.Wilson@uvu.edu

Advisor: James Holmes
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Advisor: Calvin Bond
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Advisor, Pre-Health Professions:
Jennifer Orchard
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E-mail: orcharje@uvu.edu

Faculty:
Associate Professor
Calvin Bond
Fern Caka
Gamini Gunawardena
Matthew Horn
Craig Thulin
Bruce Wilson
Assistant Professor
Daren Heaton

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

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)
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 Government (3.0)

Complete the following:
• PHIIL 2050 Ethics and Values 3.0
• HILTH 1100 Personal Health and Wellness (2.0)
or PES 1087 Fitness for Life 2.0

Distribution Courses:
• Biology 3.0
or
• BIOL 1610 College Biology I (Required for Forensic Chemistry) (4.0)
• 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

• Fine Arts 3.0
Complete one of the following sets of distribution courses, dependant on your choice of emphasis:

For the Professional Chemistry Emphasis:
• Humanities

• Social/Behavioral Science

• For the Forensic Chemistry Emphasis:

• COMM 1020 Public Speaking (3.0)
• CJ 1010 Introduction to Criminal Justice (3.0)

Discipline Core Requirements: 41 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 4.0
• CHEM 3100 Advanced Inorganic Chemistry 4.0
• CHEM 3005 Biochemistry 3.0
• CHEM 3060 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 Laboratory 1.0
• PHYS 2225 Physics for Scientists and Engineers II Laboratory 1.0

Emphasis:
Complete one of the following:
• Biochemistry 36.0
• Forensic Chemistry 40.0
• Professional Chemistry 36.0

Graduation Requirements:
1 Completion of a minimum of 121 semester credits with a minimum of 40 upper-division credits.
2 Overall grade point average of 2.0 (C) or above with a minimum of 2.5 in Major.
3 Residency hours – minimum of 30 credit hours through UVU, with at least 10 hours earned in the last 45 hours.
4 Completion of GE and specified departmental requirements.
5 A minimum of 54 credit hours must be in the major with a minimum of 20 credits taken at UVU. A minimum of 28 chemistry credits must be upper-division.
6 Complete all chemistry and physics courses with a minimum grade of “C-” or better.
7 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.

Emphasis in Biochemistry 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 3090 Physical Chemistry Applications in Biology 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 3060 and 3070 3.0
Complete 17 credits from the following:
• BIOL 3300 Developmental Biology (3.0)
• BIOL 3500 Genetics (3.0)
• BIOL 3515 Advanced Genetics Laboratory (1.0)
• BIOL 3550 Molecular Biology (3.0)
• BIOL 3560 Biotechnology (2.0)
• BIOL 4300 Bioinformatics and Genome Analysis (4.0)
• BIOL 4450 Immunology (3.0)
• BIOL 4455 Immunology Laboratory (1.0)
• ZOOL 2320 Human Anatomy (4.0)
• ZOOL 2420 Human Physiology (4.0)
• ZOOL 4300 Histology (4.0)

Emphasis in Forensic Chemistry 41 Credits

Emphasis Requirements: 31 Credits
• BIOL 1615 College Biology I Laboratory 1.0
• CHEM 3090 Physical Chemistry Applications in Biology 3.0
• CHEM 3700 Forensic Analytical Chemistry 3.0
• MATH 2040 Principles of Statistics 4.0

Forensic Requirements:
• CHEM 482R Forensic Chemistry Internship 3.0
• CJ 1330 Criminal Law 3.0
• CJ 1330 Criminal Laws 3.0
• CJ 1330 Introduction to Forensic Science 3.0
• CJ 2350 Laws of Evidence 3.0
• CJ 3880 Professional Practices for the Forensic Scientist 3.0

Complete one of the following:
• BIOL 2500 Environmental Biology (3.0)
• BIOL 3560 Biotechnology (2.0)
• MICR 2060 Microbiology for Health Professions (4.0)
• ZOOL 2320 Human Anatomy (4.0)
• ZOOL 2420 Human Physiology (4.0)

Emphasis Elective Requirements: 9 Credits
Complete 9 credits from the following:
• BIOL 3400 Cell Biology (3.0)
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biol 3500</td>
<td>Genetics (3.0)</td>
<td></td>
<td>Chem 1220</td>
<td>Principles of Chemistry II Laboratory</td>
<td>4.0</td>
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<tr>
<td>Biol 3550</td>
<td>Molecular Biology (3.0)</td>
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<td>Chem 1225</td>
<td>Principles of Chemistry III Laboratory</td>
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<td>Biol 4450</td>
<td>Immunology (3.0)</td>
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<td>Chem 2310</td>
<td>Organic Chemistry I</td>
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<td>Micr 3450</td>
<td>General Microbiology (4.0)</td>
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<td>Chem 2320</td>
<td>Organic Chemistry II</td>
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<td>Geo 3400</td>
<td>Forensic Geology (4.0)</td>
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<td>Chem 2335</td>
<td>Organic Chemistry I Laboratory</td>
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<tr>
<td>Fsci 3400</td>
<td>Criminalistics (3.0)</td>
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<td>Chem 2339</td>
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<td>Fingerprint Examination I (3.0)</td>
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<td>Fingerprint Evidence (3.0)</td>
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<td>Fsci 3750</td>
<td>Bloodstain Pattern Analysis (3.0)</td>
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<td>Phy 3255</td>
<td>Physics for Scientists and Engineers II Lab</td>
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<td>Fsci 3800</td>
<td>Computer Forensics and Cyber Crime (3.0)</td>
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<td>Phy 3310</td>
<td>Physics Experiments for Secondary Education</td>
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<td>Fsci 3820</td>
<td>Crime Scene Investigation Techniques I (3.0)</td>
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<td>Phy 3470</td>
<td>Principles of Electronics for the Engineers</td>
<td>3.0</td>
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<td>Fsci 382L</td>
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<td>Phy 4700</td>
<td>Principles of Electronics for the Engineers II</td>
<td>3.0</td>
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<td>Fsci 3850</td>
<td>Marijuana Identification Certificate (3.0)</td>
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<td>Phy 5000</td>
<td>Principles of Electronics for the Engineers III</td>
<td>3.0</td>
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<tr>
<td>Fsci 3860</td>
<td>Forensic Microscopy (3.0)</td>
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<td>Phy 5210</td>
<td>Principles of Electronics for the Engineers IV</td>
<td>3.0</td>
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<tr>
<td>Fsci 4400</td>
<td>Forensic Chemist (3.0)</td>
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<td>Edsc 2540</td>
<td>Foundations of American Education</td>
<td>3.0</td>
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<tr>
<td></td>
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<td></td>
<td>Edsc 3050</td>
<td>Language and Writing</td>
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<td></td>
<td>Edsc 3080</td>
<td>Teacher Education for Secondary Program</td>
<td>3.0</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Edsc 3130</td>
<td>Teaching Methods in Science</td>
<td>3.0</td>
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**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
College Success Studies

Department of College Success Studies

Department Chair: Chris Goslin
Office: LC 407g
Telephone: 801-863-6558
Website: http://www.uvsc.edu/csal/

Director, Student Success/UV Mentor Program: Marinda Ashman
Office: LC 406b
Telephone: 801-863-7227

Director, UV Mentor Program:
Stacy Waddoups
Office: LC 406a
Telephone: 801-863-8273

Faculty:
Professor
Elaine C. Carter
Associate Professor
Denise Hodgkin
Michael A. Jensen
Marni Sanft
Stacy D. Waddoups
Assistant Professor
Marinda Ashman
Christopher Goslin
Denise Hodgkin
Lisa Lambert
Richard Mosholder

Advisor, Career and Academic Counseling:
Office: LC 402
Telephone: 801-863-8425

University College
Interim Dean: K.D. Taylor
Office: LA 210c
Telephone: 801-863-8949

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: Leigh Ann Copas
Office: LI 208
Telephone: 801-863-8099

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
Collision Repair Technology

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 1260** Tech Math for Mechanics 3.0
- **MGMT 2200** Business Communications 3.0
- Any approved Behavioral Science, Social, or Political Science Distribution Course
- **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 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 1260** Tech Math for Mechanics 3.0
- **MGMT 2200** Business Communications 3.0
- Any approved Behavioral Science, Social, or Political Science Distribution Course
- **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 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 281R** Cooperative Work Experience* (1.0)
- **CRT 289R** 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.)

Collision Repair Technology

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 Lab 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 Communications 3.0
- **AUX 1260** 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 Biological or Physics Distribution Course 3.0
- Any approved Physical Education, Health, Safety, or Environment Course 1.0

**Discipline Core Requirements:** 24 Credits

Complete the following:
- **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 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 281R** Cooperative Work Experience* (1.0)
- **CRT 289R** 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.)
Collision Repair Technology

- CRT 285R  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. 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.

**Footnotes:**
- Cooperative Education courses may be used in place of some of the laboratory or shop classes for completion of AAS requirements. Approval of the program coordinator must be secured before class enrollment.

**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 1.0
- 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 Channelling 2.0
- CRT 261L Top Chopping Sectioning and Channelling 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

**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 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
- 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

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

Department of Communication
Office: FA 725
Telephone: 801-863-8452

Department Chair: David W. Scott
Office: FA 727
Telephone: 801-863-6884

Communication Administrative Assistant:
Errin Julkunen-Pedersen
Office: FA 725
Telephone: 801-863-8452

Department Advisor:
Erin Donahoe-Rankin
Office: GT 619A
Telephone: 801-863-6717

Faculty:
Professor
David Litchford
Associate Professor
Philip Gordon
Jingdong Liang
David W. Scott
Assistant Professor
Scott Carrier
Janet W. Colvin
Sripriya Rangarajan
Lecturer
Jill Fellow

College of Humanities and Social Sciences
Dean: David P. Yells
Office: LA 209d
Telephone: 801-863-7435

PROGRAM DESCRIPTION
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 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 expanding menu of beginning and advanced courses in interpersonal communication, intercultural communication, international communication, organizational communication, mass communication, public relations, media studies, argumentation and debate, and print, radio and television 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.

PROGRAMS

AA Pre Major in Communication 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 (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 1010 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: 18 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
 Complete two of the following:
• COMM 2100 Mass Communication and Society (3.0)
• COMM 2100 The News Editing Process (3.0)
• COMM 2110 Interpersonal Communication (3.0)
• COMM 217G 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 2220 Broadcast Journalism Anchoring and Producing (3.0)
• COMM 2790 Magazine Writing (3.0)
• THEA 2313 Film History I (3.0)
• THEA 2323 Film History II (3.0)

Elective Requirements: 8 Credits
• Complete 8 credit hours of one foreign language. 6.0

Graduation Requirements:
1 Completion of a minimum of 61 semester credits.
2 Overall grade point average of 2.0 (C) or above.
(Departments may require a higher GPA)
3 Residency hours -- minimum of 20 credit hours through course attendance at UVU.
4 Completion of GE and specified departmental requirements.
5 For the AA degree, completion of 8 credit hours of core work from one language.

AS Pre Major in Communication 60 Credits

General Education Requirements: 35 Credits
• ENGL 1010 Introduction to Writing 3.0
• ENGL 2010 Intermediate Writing–Humanities/ Social Sciences (recommended for Humanities or Arts majors) (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)
• 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 1010 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
• 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
 Complete six credits from the following:
• COMM 2100 Mass Communication and Society (3.0)
• COMM 2100 The News Editing Process (3.0)
• COMM 2110 Interpersonal Communication (3.0)
**Communication**

- **COMM 2130** Television News Writing and Reporting (3.0)
- **COMM 217G** Race Class and Gender in U.S. Cinema (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 2133** Film History I (3.0)
- **THEA 2323** Film History II (3.0)

Complete six credits from the following:

- **COMM 120R** Communication Forum (1.0)
- **COMM 1610** Reporting for the Mass Media (3.0)
- **COMM 2100** Mass Communication and Society (3.0)
- **COMM 2100** The News Editing Process (3.0)
- **COMM 217G** 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)
- **COMM 281R** Speech Communication (3.0)
- **THEA 2133** Film History I (3.0)
- **THEA 2323** Film History II (3.0)

**BA in Communication 120 Credits**

**General Education Requirements:** 36 Credits

- **ENGL 1010** Introduction to Writing
- **ENGL 2010** Intermediate Writing-Humanities/ Social Sciences (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)
- **HIST 2700** US History to 1877 (3.0)
- **HIST 2770** 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 9 credits from the following (6 must be upper division):

- **PHL 2050** Ethics and Values
- **HULT 1100** Personal Health and Wellness (2.0)
- **PES 1097** Fitness for Life

**Distribution Courses:**

- **Science:**
- **Physical Science:**
- **Additional Biology or Physical Science:**
- **Humanities:** Any Foreign Language 202G course
- **Fine Arts:**
- **Social/Behavioral Science:** COMM 2110: Interpersonal Communication, highly recommended

**Discipline Core Requirements:** 27 Credits

- **COMM 1020** Public Speaking (3.0)
- **COMM 1050** Introduction to Speech (3.0)
- **COMM 1500** Introduction to Mass Communication (3.0)
- **COMM 2000** Introduction to Communication Theory (3.0)
- **COMM 3010** History of Mass Communication (3.0)
- **COMM 3020** Communication Research Methods (3.0)
- **COMM 350R** Special Topics in Mass Communication (Must be taken twice) (3.0)
- **COMM 3000** Media Ethics
- **COMM 3700** Expression in a Democratic Society

**Emphasis:**

Complete one of the following:

- **Journalism:**
- **Public Relations:**
- **Speech Communication:**

**Elective Requirements:** 12 Credits

Complete 12 credits from one foreign language (12.0)

**Graduation Requirements:**

1. Completion of a minimum of 120 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, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. Completion of 16 credit hours of course work from one language to include the 1010, 1020, 2010, and 2020 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 list, see page 25.

**Emphasis in Journalism 45 Credits**

**Emphasis Requirements:** 24 Credits

- **COMM 1610** Introduction to Writing for the Mass Media (3.0)
- **COMM 2000** The News Editing Process (3.0)
- **COMM 3790** Case Studies in Journalism (3.0)
- **COMM 479R** Journalism Workshop (if not already taken) (3.0)
- **COMM 481R** Internship (3.0)

Complete 9 credits from the following (6 must be upper division):

- **COMM 2790** Magazine Writing (3.0)
- **COMM 3130** The Culture of Nature and Society (3.0)
- **COMM 380R** Long-Format Video Journalism (3.0)
- **COMM 413R** Advanced Television News Writing and Reporting (3.0)
- **COMM 470R** On-Air Broadcast Journalism (3.0)
- **COMM 479R** Journalism Workshop (if not already taken) (3.0)
- **POLS 481R** Internship (Must be taken twice) (3.0)

**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:** 24 Credits

- **COMM 1130** Writing for the Mass Media (3.0)
- **COMM 2300** Public Relations (3.0)
- **COMM 3520** Case Studies in Public Relations (3.0)
- **COMM 3530** Public Relations Writing (3.0)

Complete 9 credits from the following (6 must be upper division):

- **COMM 2790** Magazine Writing (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 Credits**

**Emphasis Requirements:** 24 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 4110** Interpersonal Communication Theory & Research (3.0)

Complete 9 credits of any upper division COMM courses.

**Emphasis Elective Requirements:** 21 Credits

Complete 21 credits of non-COMM courses (13 credits 21.0 must be upper division). A MINOR in another discipline is highly recommended.

**BS in Communication 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)
- **MATH 1040** Introduction to Statistics (recommended for Social Science majors) (3.0)

Complete one of the following:

- **HIST 1700** American Civilization (3.0)
- **HIST 2700** US History to 1877 (3.0)
- **HIST 2770** 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:

- **PHL 2050** Ethics and Values
- **HULT 1100** Personal Health and Wellness (2.0)
- **PES 1097** Fitness for Life

**Distribution Courses:**

- **Biological:**
- **Physical Science:**
- **Additional Biology or Physical Science:**
- **Humanities:**
- **Fine Arts:**
- **Social/Behavioral Science:** (COMM 2110: Interpersonal Communication, highly recommended)

**Discipline Core Requirements:** 27 Credits

- **COMM 1020** Public Speaking (3.0)
- **COMM 1050** Introduction to Speech (3.0)
- **COMM 1500** Introduction to Mass Communication (3.0)
- **COMM 2000** Introduction to Communication Theory (3.0)
- **COMM 3010** History of Mass Communication (3.0)
- **COMM 3020** Communication Research Methods (3.0)
- **COMM 350R** Special Topics in Mass Communication (Must be taken twice) (3.0)
- **COMM 3000** Media Ethics
- **COMM 3700** Expression in a Democratic Society

**Emphasis:**

Complete one of the following:

- **Journalism:**
- **Public Relations:**
- **Speech Communication:**

**Elective Requirements:** 15 Credits

Complete 15 credits of electives 1000 level or higher

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**Catalog 2010–2011 Utah Valley University**
Emphasis in Journalism  45 Credits  
**Emphasis Requirements:**  24 Credits  
- COMM 1610 Reporting for the Mass Media 3.0  
- COMM 2100 The News Editing Process 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 2790 Magazine Writing 3.0  
- COMM 3130 The Culture of Nature and Technology 3.0  
- COMM 380R Long-Format Video Journalism (3.0)  
- COMM 413R Advanced Television News Writing and Reporting 3.0  
- COMM 470R On-Air Broadcast Journalism (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:**  24 Credits  
- COMM 1113 Writing for the Mass Media 3.0  
- COMM 2300 Public Relations 3.0  
- COMM 3520 Case Studies in Public Relations 3.0  
- COMM 3530 Public Relations Writing 3.0  
- COMM 4930 Communication Capstone 3.0  
Complete 9 credits from the following (6 must be upper division):  
- COMM 2790 Magazine Writing 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:**  24 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 4110 Interpersonal Communication Theory & Research (3.0)  
Complete 9 credits of any upper division COMM courses:  
**Emphasis Elective Requirements:** 21 Credits  
Complete 21 credits of non-COMM courses (13 credits 21.0 must be upper division). A MINOR in another discipline is highly recommended.

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

Department Chair: Kirk Love
Office: CS 520J
Telephone: 801-863-8852

Administrative Support III: Vaylene Perry
Office: CS 520s
Telephone: 801-863-8218

Faculty:

Professor
Roger DeBry
Dennis Fairclough
David Heldenbrand
Afshaneh Minaie
Keith Olson
Reza Sanati-Mehrizy

Associate Professor
Charles Allison
Brian Durney
Kirk Love
Todd Peterson
Abraham Teng

Assistant Professor
Neil Harrison
Curtis Welborn
Cheolhwan Oh

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 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.

PROGRAMS
Students majoring in Computer Science (CS) may receive either a two-year AS or AAS degree or a four-year bachelor degree. A certificate program is available for those seeking short-term specialized training.

The Associate in Science Degree in Computer Science (AS-CS) is a transfer degree for those wishing to transfer to a bachelor degree program. The Associate in Applied Science Degree in Computer Science (AAS-CS) provides job-ready skills and includes areas of specialization in: Computer Engineering and in Computing and Networking Sciences.

Note: Students may earn only one AAS Degree in Computer Science. Additional degrees will not be awarded for completing subsequent AAS-CS areas of specialization.

A four-year bachelor degree, accredited by the Computing Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET, 111 Market Pl., Suite 1050, Baltimore, MD 21202, www.abet.org), is offered in Computer Science (BS-CS). There are four possible areas of specialization: Computer Engineering, Computer Networking, Computer Science, and Database Engineering. A four year Bachelor Degree is also offered in Software Engineering. This degree is currently not accredited.

The Computer Science areas of specialization conform to the Association of Computing Machinery (ACM) and Institute for Electrical and Electronics Engineers (IEEE) joint model curriculum. Students completing the Computer Science degree should be prepared to take professional programming and networking certification exams.

Note: Students may earn only one BS Degree in Computer Science. Additional degrees will not be awarded for completing subsequent BS-CS areas of specialization.

In addition to regular programs, the Department also offers a variety of courses to provide skill upgrades, short-term intensive training, and other services for the community.

Classroom instruction is supported by well-equipped computer laboratories with over 180 computers interconnected through a series of Microsoft and Linux networks and servers.

Certificate in Programmer 30 Credits
This program is designed to prepare students for careers requiring knowledge and skills in computer programming and software maintenance. Students are prepared to pass programming certification examinations. The student is responsible for registering for and taking the required certification examinations.

Discipline Core Requirements: 24 Credits

Complete the following:

- 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 2600 Fundamentals of Data Communications 3.0

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 3220 Rapid Client Server Development with Visual Basic (3.0)
- CS 2250 Java Programming (3.0)
- CS 3250 Java Software Development (3.0)
- CS 2370 C-plus-plus Programming (3.0)
- CS 3370 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 3660 Operating Systems Theory (3.0)
- CS 3260 C# and .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 (4.0)
- PHYS 3211 Engineering Mechanics or
d- PHYS 3212 Engineering Mechanics I

- 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

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 Science 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.

Emphasis Requirements: 22 Credits
Complete the following (minimum grade of C- required):

- CS 1030 Foundations of Computer Science 3.0
- EENG 1020 Computer Engineering Problem Solving with Matlab 3.0
- EENG 2270 Circuit Theory 3.0
- EENG 2275 Circuit Theory Lab 1.0
- EENG 2700 Digital Design I 3.0
- EENG 3740 Digital Design II 3.0

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Emphasis in Computing and Networking Sciences

This program is designed for students in the many areas of computer science and networking requiring a knowledge of both computer software 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 3140 Object-Oriented Programming (3.0)
- CS 3190 Java Software Development (3.0)
- CS 3240 Introduction to Algoritms and Data Structures* (3.0)
- CS 3560 Operating Systems Theory* (3.0)
- CS 3320 C# and Visual Basic* (3.0)
- or CS 3250 Java Software Development (3.0)*
- or CS 3260 C# and NET Software Development (3.0)*
- CS 3520 Database Theory* (3.0)
- CS 3690 Advanced Topics in Data Communications* (3.0)
- MATH 1060 Trigonometry (fulfills GE requirement)* (3.0)

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 3260 Java Software Development (3.0)
- CS 3270 C++-plus-Plus Programming (3.0)
- or CS 3370 C++-plus-Plus Software Development (3.0)
- CS 3450 Software Engineering (3.0)
- CS 2650 Internet Programming (3.0)
- or CS 3350 Internet Software Development (3.0)
- CS 281R Internship (3.0 credits max.) (1.0)
- CS 3260 C# and .NET Software Development (3.0)
- CS 3410 Human Factors in Software Engineering (3.0)
- CS 3460 Web Server Programming in ASP (3.0)
- CS 3670 Network Programming (3.0)
- CS 4470 Artificial Intelligence (3.0)
- CS 4600 Enterprise Architecture (3.0)
- CS 4610 TCP/IP Internet Architecture (3.0)
- EENG 2700 Digital Design I (3.0)
- EENG 2705 Digital Design Lab I (1.0)

AS Pre Major in Computer Science

General Education Requirements: 64 Credits

Complete the following:
- ENGL 1010 Introduction to Writing (3.0)
- ENGL 2020 Intermediate Writing--Science and Technology (3.0)
- MATH 1210 Calculus I (5.0)
- PHYS 2215 Physics for Scientists and Engineers I Lab (1.0)
- PHYS 2215 Physics for Scientists and Engineers II Lab (1.0)

Footnotes:
- Minimum grade of C- required.

BS in Computer Science

General Education Requirements: 40 Credits

Complete the following:
- ENGL 1010 Introduction to Writing (3.0)
- ENGL 2020 Intermediate Writing--Science and Technology (3.0)
- MATH 1210 Calculus I (5.0)
- PHYS 2215 Physics for Scientists and Engineers I Lab (1.0)
- PHYS 2215 Physics for Scientists and Engineers II Lab (1.0)

Minimum grade of C- required in these courses.
- 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 2810 Computer Organization and Architecture* (3.0)
- MATH 1210 Calculus I (5.0)
- PHYS 2215 Physics for Scientists and Engineers I (3.0)
- PHYS 2215 Physics for Scientists and Engineers II (3.0)

Discipline Core Requirements: 25 Credits

Complete the following:
- MATH 3750 Engineering Analysis I (3.0)
- MATH 3150 Introduction to System Administration--Linux/UNIX (3.0)
- INFO 3510 Advanced System Administration--Linux/UNIX (3.0)
- PHYS 2215 Physics for Scientists and Engineers I Lab (1.0)
- PHYS 2215 Physics for Scientists and Engineers II Lab (1.0)

Footnotes:
- Minimum grade of C- required.
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. 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: 26 Credits

Minimum grade of C- required in these courses.
- CS 4380 Advanced/High-Performance Computer Architecture 3.0
- EENG 1020 Computer Engineering Problem 1.0
- EENG 2270 Circuit Theory 3.0
- EENG 2275 Circuit Theory Lab 1.0
- EENG 2700 Digital Design I 3.0
- EENG 2705 Digital Design Lab I 1.0
- EENG 3740 Digital Design II 3.0
- EENG 3750 Engineering Analysis 3.0
- EENG 3770 Signals and Systems 3.0
- EENG 4800 Computer Engineering Senior 3.0
- EENG 4760 Electronic Systems (3.0) 3.0
- EENG 4765 Electronics Systems Lab (1.0) 1.0

Emphasis Elective Requirements: 14 Credits

Complete 14 credits from the following or any CS 3000-4000 level course not already required. (Minimum of 6 credits must be EENG; minimum of 3 credits must be CS). (Minimum grade of C- required in these courses.):
- CS 2450 Software Engineering 3.0
- EENG 4770 Embedded Systems (3.0) 3.0
- EENG 4750 Digital Signal Processing (3.0) 3.0

Emphasis in Computer Networking 42 Credits

This program is designed to prepare students for employment opportunities in the fields of local area networks, Internet networking, Internet communications, groupware, network management, world wide web servers, network customer support, and network maintenance. Students are prepared to take industry standard networking certification examinations. The student is responsible for registering to take the required certification examinations.

Emphasis Requirements: 27 Credits

Minimum grade of C- required in these courses.
- CS 3250 Java Software Development 3.0
- CS 3520 Database Theory 3.0
- CS 3670 Network Programming 3.0
- CS 3770 TCP/IP and Internet Architecture 3.0
- CS 4870 Undergraduate Research Project 3.0
- CS 4890 Distributed Internet Application Development 3.0
- INFO 1510 Introduction to System Administration/Linux/UNIX 3.0
- INFO 3510 Advanced System Administration/Linux/UNIX 3.0

Emphasis Elective Requirements: 15 Credits

Complete 15 credits from the following or any CS 3000-4000 level course not already required. (Minimum of 6 credits must be EENG; minimum of 3 credits must be CS). (Minimum grade of C- required in these courses.):
- CS 2450 Software Engineering 3.0
- CS 3220 Rapid Client Server Development with Visual Basic 3.0
- CS 3250 Java Software Development (3.0) 3.0
- CS 3260 CapaNet Software Development (3.0) 3.0
- CS 3370 C++-plus Software Development (3.0) 3.0
- CS 3540 Game Programming (3.0) 3.0
- CS 3550 Internet Software Development (3.0) 3.0
- CS 3660 Web Server Programming in ASP (3.0) 3.0
- CS 3670 Network Programming (3.0) 3.0
- CS 4230 Software Testing and Quality Engineering (3.0) 3.0
- CS 4400 Software Engineering II (3.0) 3.0
- CS 4470 Artificial Intelligence (3.0) 3.0
- CS 4510 Operating Systems Design and Simulation (3.0) 3.0
- CS 481R Internship (1.0) 3.0

BS in Software Engineering 123 Credits

General Education Requirements: 37 Credits
- ENGL 1010 Introduction to Writing 3.0
- ENGL 2020 Intermediate Writing—Science and Technology 3.0
- MATH 1210 Calculus I 5.0
- American Institutions, complete one of the following: 3.0
  - HIST 1740 US Economic History 3.0
  - HIST 1700 American Civilization (3.0)
  - POLS 1010 American Heritage (3.0)
  - POLS 1100 American National Government (3.0)
- HIST 2700 US History since 1877 (3.0) 3.0
- PHIL 2050 Ethics and Values 3.0
- HLTH 1100 Personal Health and Wellness 2.0
- PES 1097 Fitness for Life (2.0) 3.0

Distribution Requirements: 15 Credits
- Biology 3.0
- Physical Science 3.0
- Additional Physical Science or Biology 3.0
- Fine Arts 3.0
- COMM 1020 Public Speaking 3.0
- COMM 2110 Interpersonal Communication 3.0

Core Requirements: 59 Credits
- CS 1410 Object-Oriented Programming 3.0
- CS 2810 Computer Organization and Architecture 3.0
- CS 2300 Discrete Structures 3.0
- CS 2420 Introduction to Algorithms and Data Structures 3.0
- CS 2450 Software Engineering 3.0
- CS 2600 Fundamentals of Data Communications 3.0
- CS 301R Computer Ethics 3.0
- CS 3360 Operating Systems Theory 3.0
- CS 3250 Java Software Development 3.0
- CS 3260 CapaNet Software Development (3.0) 3.0
- CS 3410 Human Factors in Software Engineering 3.0
- CS 3450 Principles and Patterns of Software Design 3.0
- CS 3520 Database Theory 3.0
- CS 3550 Internet Software Development (3.0) 3.0
- CS 3540 Game Programming (3.0) 3.0
- CS 3550 Internet Software Development (3.0) 3.0
- CS 3660 Web Server Programming in ASP (3.0) 3.0
- CS 3670 Network Programming (3.0) 3.0
- CS 4230 Software Testing and Quality Engineering (3.0) 3.0
- CS 4400 Software Engineering II (3.0) 3.0
- CS 4470 Artificial Intelligence (3.0) 3.0
- CS 4510 Operating Systems Design and Simulation (3.0) 3.0
- CS 481R Internship (1.0) 3.0

Elective Requirements: 27 Credits

Complete 12 credits from the following:
- Any CS course numbered 3000 or higher not already required. 12.0
- Complete at least 15 credits (at least 5 must be upper division) in a discipline other than Computer Science. See Advisor for details. Note that these credits may not also be used to fulfill general education requirements:
Graduation Requirements:
1. Completion of a minimum of 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 credit hours through course attendance at UVU. Ten of these hours must be within the last 45 hours earned. At least 12 of the credit hours earned in residence must be in approved CSE Department courses.
4. No more than 80 semester hours and no more than 20 hours of transfer credit from a two-year college may be applied to the core or elective courses.
5. No more than 6 semester hours may be earned through independent study.
6. 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.

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

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:
- CS, Computer Science
- EENG, Electrical Engineering
Construction Management

Department of Construction Technologies

Department Chair: Barry Hallsted
Office: GT 601
Telephone: 801-863-8135

Faculty:

Professor
Bob Dunn
Associate Professor
Fred Davis
DeWayne Erdmann
Eric Linfield
Assistant Professor
Barry Hallsted
James Cox
Instructor
Robert Warcup

Office Manager: Sandra Ozuna
Office: GT 613
Telephone: 801-863-7405

Advisor: Amy Ostler
Office: CS 635
Telephone: 801-863-8138

Advisory Committee: Jeffrey R. Clyde, W.W. Clyde & Co. (Chair), Jim Golding, Geneva Rock; Greg Fix, Big D Construction; Darin Zwick, Zwick Construction; Kristen Nilsen, Gold Medallion Homes; Earl Davis, Sunroc; Dave Cook, Clyde Companies.

College of Technology and Computing
Dean: Ernest Carey
Office: CS 720
Telephone: 801-863-8321

CAREER OPPORTUNITIES
Graduates of the four-year Construction Management program are prepared for employment in various levels of construction project management including superintendents, project engineers, construction schedulers and estimators.
Graduates of the two-year Construction Management program are prepared for employment as construction project foremen, crew leaders and entry positions in job supervision.

PROGRAMS
Students may earn an Associate in Applied Science degree. The Clyde Institute of Construction Management Program has been designed to provide students a strong foundation in Construction Management that prepares them for jobs in construction site supervision and/or for advancement on to a BS degree in Construction Management. The program provides courses in building construction, construction management and construction science that apply to all segments of the construction industry with a 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: 63 Credits

Discipline Core Requirements: 41 Credits

Elective Requirements: 7 Credits

BS in Construction Management

General Education Requirements: 35 Credits

Elective Requirements: 9 Credits

Footnotes:

1. Must be completed with a grade of C- or higher.

College of Technology and Computing

Dean: Ernest Carey
Office: CS 720
Telephone: 801-863-8321

CAREER OPPORTUNITIES
Graduates of the four-year Construction Management program are prepared for employment in various levels of construction project management including superintendents, project engineers, construction schedulers and estimators.
Graduates of the two-year Construction Management program are prepared for employment as construction project foremen, crew leaders and entry positions in job supervision.

PROGRAMS
Students may earn an Associate in Applied Science degree. The Clyde Institute of Construction Management Program has been designed to provide students a strong foundation in Construction Management that prepares them for jobs in construction site supervision and/or for advancement on to a BS degree in Construction Management. The program provides courses in building construction, construction management and construction science that apply to all segments of the construction industry with a 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: 63 Credits

Discipline Core Requirements: 41 Credits

Elective Requirements: 7 Credits

BS in Construction Management

General Education Requirements: 35 Credits

Elective Requirements: 9 Credits

Footnotes:

1. Must be completed with a grade of C- or higher.
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

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

- CMGT, Construction Management
Criminal Justice/Law Enforcement

Department Chair: Curtis Fillmore
Office: GT 608a
Telephone: 801-863-8857
E-mail: Curtis.Fillmore@uvu.edu
Administrative Support: Leann Larsen
Office: GT 608
Telephone: 801-863-7230

Director Police Academy: Steve DeMille
Office: GT 606b
Telephone: 801-863-8062
Cell: 801-319-1588
E-mail: demillst@uvu.edu
Administrative Support: Elva Duckworth
Office: GT 608
Telephone: 801-863-6156

Faculty:
Associate Professor
W. Brent Bullock
Curis D. Fillmore
Stott Harston

Assistant Professor
Kenneth Crook
Matthew Duffin
Gary Naisbitt

Advisor: Bobbi Kassel
Office: CS 635
Telephone: 801-863-8489
E-mail: kasselbo@uvu.edu

Director of Forensic Science:
Gary Naisbitt
Office: GT 608
Telephone: 801-863-6505

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

CAREER OPPORTUNITIES
For those trained in Criminal Justice, opportunities exist in local, state, federal, and private law enforcement i.e., DEA agent, FBI agent, corrections officer, security officer, private investigator, game law enforcement officer, immigration inspector, Alcohol/Tobacco/Firearms inspector, United States marshall, Internal Revenue officer, Border Patrol agent, Consumer Safety inspector, and other fields depending on chosen option.

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 r 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, LED 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.

AA/AS Pre Major in Criminal Justice

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: 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 1700 American Civilization (3.0)
• HIST 2700 US History to 1877 (3.0)
and HIST 2710 US History since 1877 (3.0)
• HIST 1740 US Economic History (3.0)
• POLS 1000 American Heritage (3.0)
• POLS 1100 American National Government (3.0)

Complete the following: 3.0
• PHIL 2050 Ethics and Values
• 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: 15 Credits
• CJ 1010 Introduction to Criminal Justice 3.0
• CJ 1340 Criminal Investigations 3.0
• CJ 1350 Introduction to Forensic Science 3.0
• CJ 1330 Criminal Law 3.0
• CJ 2350 Laws of Evidence 3.0

Elective Requirements: 10 Credits
• FOR AA DEGREE: Must be Foreign Language 6.0
• FOR AA DEGREE: Any 1000-level course or higher 2.0
or FOR AS DEGREE: Electives may consist of any Criminal Justice (CJ) or Paralegal (LEGL) course that is not part of the core requirements.

Graduation Requirements:
1 Completion of a minimum of 60 semester credits.
2 Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3 Residency hours: Minimum of 20 credit hours through course attendance at UVU.
4 For the AA degree, completion of 8 credit hours of course work from one language.
5 Must have a grade of C- or higher in all core and elective requirements.

BS in Criminal Justice

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: 3.0
• MATH 1030 Quantitative Reasoning (3.0)
• MATH 1040 Introduction to Statistics (3.0)
• MATH 1050 College Algebra (4.0)
• One course that requires MATH 1050 as a prerequisite (excluding MATH 1060)
• An Advanced Placement (AP) Mathematics Test with a score of 3 or higher

Complete one of the following: 3.0
• HIST 2710 US History to 1877 (3.0)
and HIST 2710 US History since 1877 (3.0)
• HIST 1740 US Economic History (3.0)
• POLS 1000 American Heritage (3.0)
• POLS 1100 American National Government (3.0)

Complete the following: 3.0
• PHIL 2050 Ethics and Values
• 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

Utah Valley University 2010–2011
Criminal Justice/Law Enforcement

Minor in Criminal Justice 24 CREDITS
Matriculation Requirements: 1
- Admitted to a bachelor degree program at UVU.

Discipline Core Requirements: 12 Credits
- CJ 1010 Introduction to Criminal Justice 3.0
- 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

Graduation Requirements: 1
- Overall grade point average of 2.5 in all CJ courses and no grade lower than a C- in CJ specialty core and elective courses.

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 Tire 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 FSCI courses, and no grade lower than a C- in FSCI 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 School of Business. 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 68 CREDITS
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 1170 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 “C-” in culinary arts or other discipline core courses.
3. Residency hours—minimum of 20 credit hours through course attendance at UVU.

Note: Students are responsible for completing all prerequisite courses.

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**  
Katie Debenham  
**Associate Professor**  
Mark Borchelt  
Kim Strunk  
Doris Tuirlo  
**Assistant Professor**  
Angela Banchero-Kelleher  
Amy Markgraf-Jacobson  
Nichole Ortega  
**Lecturer**  
Shayla Bott  
Jacqueline Colledge  
Christopher Witt  
**Artist in Residence**  
Scott Asbell

**School of the Arts**  
**Dean:** Patrick M. Jones  
**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 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.

**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 Movement Studies 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.

**AS Pre Major in Dance**  
**62 CREDITS**

<table>
<thead>
<tr>
<th>General Education Requirements: 35 Credits</th>
<th></th>
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</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>
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<tr>
<td>or ENGL 2020 Intermediate Writing—Science and Technology</td>
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<tr>
<td>Complete one of the following:</td>
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<tr>
<td>MATH 1030 Quantitative Reasoning (recommended for Humanities or Arts majors)</td>
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<tr>
<td>MATH 1040 Introduction to Statistics (recommended for Social Science majors)</td>
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</tr>
<tr>
<td>MATH 1050 College Algebra (recommended for Business, Education, Science, and Health Professions majors)</td>
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<tr>
<td>Complete one of the following:</td>
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<tr>
<td>HIST 2100 Process in History to 1877</td>
<td>3.0</td>
</tr>
<tr>
<td>and HIST 2100 U.S. History since 1877</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST 1700 American Civilization</td>
<td>3.0</td>
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<tr>
<td>HIST 1740 U.S. Economic History</td>
<td>3.0</td>
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<tr>
<td>POLS 1000 American Heritage</td>
<td>3.0</td>
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<tr>
<td>POLS 1100 American National Government</td>
<td>3.0</td>
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<tr>
<td>Complete the following:</td>
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<tr>
<td>PHIL 2050 Ethics and Values</td>
<td>3.0</td>
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<tr>
<td>or HLTH 1100 Personal Health and Wellness (2.0) or PES 1097 Fitness for Life</td>
<td>2.0</td>
</tr>
<tr>
<td>Distribution Courses</td>
<td></td>
</tr>
<tr>
<td>Biology (BIO 1010 recommended)</td>
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</tr>
<tr>
<td>or Physical Science</td>
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<tr>
<td>or Additional Biology or Physical Science (ZOO 1010 recommended)</td>
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<tr>
<td>Humanities Distribution</td>
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<tr>
<td>DAN 2110 Orientation to Dance</td>
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<tr>
<td>Social/Behavioral Science</td>
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</table>

<table>
<thead>
<tr>
<th>Discipline Core Requirements: 23 Credits</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>DANC 1150 Music for Dancers</td>
<td>1.0</td>
</tr>
<tr>
<td>DANC 127R Ballet Technique I (2 semesters)</td>
<td>6.0</td>
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<tr>
<td>DANC 1330 Studio Workshop—Creative Process</td>
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<tr>
<td>DANC 143R Modern Dance Technique and Theory I</td>
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<tr>
<td>DANC 144R Modern Dance Technique and Theory I</td>
<td>3.0</td>
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<tr>
<td>DANC 1510 Intermediate Jazz Dance</td>
<td>1.0</td>
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<tr>
<td>DANC 1610 Dance Conditioning</td>
<td>1.0</td>
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<tr>
<td>DANC 2333 Improvisation</td>
<td>1.0</td>
</tr>
<tr>
<td>DANC 2340 Composition</td>
<td>2.0</td>
</tr>
<tr>
<td>DANC 2655 Fundamentals of Movement</td>
<td>2.0</td>
</tr>
<tr>
<td>DANC 2670 Introduction to Laban Studies</td>
<td>2.0</td>
</tr>
</tbody>
</table>

**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 1720 Latin Ballroom Dance I (1.0)
- DANC 1780 Country Western Dance I (1.0)
- DANC 1790 Country Western Dance II (1.0)
- DANC 221R Pointe I (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 II (3.0)
- DANC 244R Modern Dance Technique and Theory II (3.0)
- DANC 247R Repertory (1.0)
- 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 277R 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 Reserve Tour Team (2.0)
- DANC 429R Utah Regional Ballet Repertory (2.0)
- DANC 476R Ballroom Dance Company Tour Team (2.0)

**BS in Dance Education**  
**125 CREDITS**

**Matriculation Requirements:**

- 1. Completion of DANC 1160, DANC 143R, DANC 144R, DANC 1510 OR DANC 250R, DANC 1610, and DANC 2330 with B- or higher.
- 2. Pass audition, interview, and portfolio review with faculty members.
- 3. Cumulative GPA of 2.75 or higher.

**Education Department matriculation 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:**  
**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 |
Dance

Complete one of the following:

- **HIST 1700** American Civilization (3.0)
- **HIST 1701** American History to 1877 (3.0)
- **HIST 2710** US History since 1877 (3.0)
- **HIST 1740** US Economic History (3.0)
- **POLE 1000** American Heritage (3.0)
- **POLE 1100** American National Government (3.0)

Complete the following:

- **PHIL 2050** Ethics and Values (3.0)
- **HILTH 1100** Personal Health and Wellness (2.0) or **PES 12340** Wellness for Life (2.0)

Distribution Courses:

- **BIOI 1010** General Biology (Strongly recommended) (3.0)
- **DANC 2110** Orientation to Dance (Fine Arts) (3.0)
- **HUM 1000** Humanities (3.0)
- **PSCI 1000** Physical Science (3.0)
- **SOC 1050** Social/Behavioral Science (3.0)
- **ZOOL 1090** Introduction to Human Anatomy and Physiology (Strongly recommended for additional Biology or Physical Science) (3.0)

**Discipline Core Requirements:** 90 Credits

- **DANC 1160** Music for Dancers (1.0)
- **or DANC 127R** Ballet Technique I (2.0)
- **or DANC 227R** Ballet Technique II (2.0)
- **or DANC 434R** Modern Dance Technique and Theory I (3.0)
- **or DANC 444R** Modern Dance Technique and Theory I (3.0)
- **or DANC 144R** Modern Dance Technique and Theory I (3.0)
- **or DANC 1510** Intermediate Jazz Dance (3.0)
- **or DANC 250R** Advanced Jazz Dance (2.0)
- **or DANC 1610** Dance Conditioning (1.0)
- **or DANC 2330** Improvisation (1.0)
- **or DANC 2330** Composition (1.0)
- **or DANC 243R** Modern Dance Technique and Theory II (3.0)
- **or DANC 244R** Modern Dance Technique and Theory II (3.0)
- **or DANC 265R** Fundamentals of Movement (2.0)
- **or DANC 2670** Introduction to Laban Studies (2.0)
- **or DANC 2700** American Social Dance I (3.0)
- **or DANC 3140** Dance Production and Lighting (2.0)
- **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)
- **or DANC 342R** Modern Dance Technique and Theory III (3.0)
- **DANC 3450** Modern Dance Teaching Methods (3.0)
- **or DANC 356G** World Dance Forms (3.0)
- **DANC 3630** Dance History (3.0)
- **DANC 3680** Dance Kinesiology (4.0)
- **DANC 4360** Senior Capstone II (2.0)
- **DANC 4430** Dance Teaching Practicum (3.0)

**Education Courses:**

- **EDSC 2540** Development of the Adolescent Student (2.0)
- **EDSC 3000** Educational Psychology (3.0)
- **EDSC 3050** Foundations of American Education (4.0)
- **EDSC 3250** Instructional Media (2.0)
- **EDSC 4250** Classroom Management II (2.0)
- **EDSC 4440** Content Area Reading and Writing (3.0)
- **EDSC 445G** Multicultural Instruction ESL (2.0)
- **EDSC 4550** Secondary Curriculum Instruction and Assessment (2.0)
- **EDSC 4850** Student Teaching--Secondary (4.0)
- **EDSP 3400** Exceptional Students (2.0)

**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. Residency hours: minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
5. Completion of GE and specified departmental requirements.
6. 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 list, see page 25.

**BS in Movement Studies with an Emphasis in Ballroom Dance 120 Credits**

**Matriculation Requirements:**

1. Completion of **DANC 2700**, **DANC 2710**, and **DANC 2720** with a grade of B- or better.
2. An audited review, and portfolio review with faculty members.
3. Cumulative G.P.A. of 2.75 or higher.

**General Education Requirements:** 35 Credits

- **ENGL 1010** Intermediate Writing--Humanities (4.0)
- **ENGL 2010** Intermediate Writing--Science and Technology (3.0)
- **ENGL 2020** Intermediate Writing--Science and Technology (3.0)
- **PHIL 1050** Quantitative Reasoning (3.0)
- **MATH 1040** Introduction to Statistics (3.0)
- **MATH 1050** College Algebra (4.0)
- **MATH 1060** Introduction to Fundamentals of Biology or Physical Science (3.0)

**Choose one of the following:**

- **HIST 2700** US History since 1877 (3.0)
- **HIST 2710** US History since 1877 (3.0)
- **HIST 1700** American Civilization (3.0)
- **POLE 1000** American Heritage (3.0)
- **POLE 1100** American National Government (3.0)
- **HIST 1740** US Economic History (3.0)

Complete the following:

1. **PHIL 2050** Ethics and Values (3.0)
2. **HILTH 1100** Personal Health and Wellness (2.0)
3. **PES 12340** Wellness for Life (2.0)

**Distribution Courses:**

- **BIOI 1010** General Biology (Strongly recommended for additional Biology or Physical Science) (3.0)
- **DANC 2110** Orientation to Dance (Fine Arts) (3.0)
- **HUM 1000** Humanities (3.0)
- **PSCI 1000** Physical Science (3.0)
- **SOC 1050** Social/Behavioral Science (3.0)
- **ZOOL 1090** Introduction to Human Anatomy and Physiology (Strongly recommended) (3.0)

**Matriculation Requirements:** 5 Credits

Choose 5 hours from the following:

- **DANC 1580** Tap Dance I (1.0)
- **MATH 1600** Fundamentals of Marketing (3.0)
- **DANC 369R** Advanced Fundamentals of Movement (2.0)
- **DANC 376R** Ballroom Dance Company Reserve Tour Team (2.0)
- **DANC 476R** Ballroom Dance Company Tour Team (2.0)
- **DANC 4740** International Ballroom Dance Teaching Methods (3.0)
- **PES 1010** Aerobics I (1.0)
- **PES 1085** Weight Training I (1.5)
- **DANC 1780** Country West Dance I (1.0)
- **PES 3700** Exercise Physiology (4.0)
- **THEA 4213** Costume Design I (3.0)

**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.
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 list, see page 25.

**BFA in Dance 121 Credits**

**Matriculation Requirements:**

1. By application and audition after completing at least 30 semester hours of college credit at UVU.
2. Ballet emphasis: Completion of **DANC 227R** (2 semesters)
3. Modern emphasis: Completion of **DANC 143R** and **DANC 144R**
4. Completion of **DANC 143R and DANC 144R** or (2 semester of **DANC 227R**; **DANC 2310**; **DANC 2310**; and **DANC 2330** with no grade lower than a B-
5. Cumulative G.P.A. of 2.75

**General Education Requirements:** 35 Credits

- **ENGL 1010** Intermediate Writing--Humanities (3.0)
- **ENGL 2010** Intermediate Writing--Science and Technology (3.0)
- **ENGL 2020** Intermediate Writing--Science and Technology (3.0)
- **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 2700** US History since 1877 (3.0)
- **HIST 2710** US History since 1877 (3.0)
- **HIST 1700** American Civilization (3.0)
- **POLE 1000** American Heritage (3.0)
- **POLE 1100** American National Government (3.0)
- **HIST 1740** US Economic History (3.0)

Complete the following:

- **PHIL 2050** Ethics and Values (3.0)
- **HILTH 1100** Personal Health and Wellness (2.0)
- **PES 1097** Fitness for Life (2.0)

**Distribution Courses:**

- **BIOI 1010** General Biology (Strongly recommended for additional Biology or Physical Science) (3.0)
Emphasis in Modern Dance 45 Credits

Emphasis Requirements: 33 Credits
- DANC 243R Modern Dance Technique and Theory I
- DANC 244R Modern Dance Technique and Theory II
- DANC 3160 Dance Accompaniment
- DANC 3330 Modern Dance Workshop
- DANC 3650 Contemporary Dance Ensemble

Emphasis Elective Requirements: 12 Credits
Choose 12 credits from the following list:
- DANC 1580 Tap Dance I (1.0)
- DANC 1600 Hip-Hop II (1.0)
- DANC 1750 American Social Dance I (1.0)
- DANC 1710 International Ballroom Dance I (1.0)
- DANC 1720 Latin Ballroom Dance I (1.0)
- DANC 221R African Dance II (1.0)
- DANC 3511 Ballet Technique III (1.0)
- DANC 3610 Intermediate Dance Conditioning and Injury Prevention (2.0)
- DANC 365R Advanced Fundamentals of Movement
- DANC 3670 Movement Analysis (3.0)
- DANC 441R Modern Dance Technique and Theory IV
- DANC 442R Modern Dance Technique and Theory IV

Emphasis in Ballet 46 Credits

Emphasis Requirements: 34 Credits
- DANC 221R Pointe II (2 semesters required) (1.0)
- DANC 222R Ballet Technique and Theory II for Men (2 semesters required) (1.0)
- DANC 2250 Character Dance I
- DANC 2260 Character Dance II
- DANC 3150 Music for Ballet Dancers
- DANC 321R Pointe III (2 semesters required) (1.0)
- DANC 322R Ballet Technique and Theory III for Men (2 semesters required) (1.0)
- DANC 327R Ballet Technique IV (2 semesters required) (3.0)
- DANC 421R Pointe IV (2 semesters required) (1.0)
- DANC 423R Pointe V (2 semesters required) (1.0)
- DANC 424R Pas de deux (2 semesters required) (2.0)
- DANC 425R Repertoire Ensemble (4 semesters required total) (2.0)
- DANC 429R Utah Regional Ballet Repertory (4 semesters required total) (2.0)
- DANC 3340 Ballet Choreography
- DANC 427R Ballet Technique IV (2 semesters required total) (3.0)
- DANC 428R Ballet Technique V (2 semesters required total) (3.0)

Emphasis Elective Requirements: 12 Credits
Choose 12 credits from the following:
- DANC 1700 American Social Dance I (1.0)
- DANC 1710 International Ballroom Dance I (1.0)
- 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 429R Utah Regional Ballet Repertory (2.0)
- THEA 1033 Fundamentals of Acting I (3.0)
- Any DANC course not previously taken.

BA/BS in Integrated Studies 123 Credits

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
- DANC 356G World Dance Forms (2.0)
- DANC 3630 Dance History
- DANC 3670 Movement Analysis
- DANC 4880 Current Issues in Dance

Complete 6 credits from the following classes:
- DANC 143R Modern Dance Technique and Theory I
- DANC 144R Modern Dance Technique and Theory II
- DANC 221R African Dance II (1.0)
- DANC 3511 Ballet Technique III (1.0)
- DANC 441R Modern Dance Technique and Theory IV
- DANC 442R Modern Dance Technique and Theory IV

See Course Descriptions section of the catalog for detailed course information. This department manages the following course prefixes:
- DANC, Dance
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 863-8438). 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
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 81 CREDITS

Matriculation Requirements:
• Complete MATH 1050, ENGL 1010, CHEM 1110, ZOOL 2320 and ZOOL 2420

General Education Requirements: 20 Credits
ENGLISH
• ENGL 1010 Introduction to Writing 3.0
MATHMATICS
• MATH 1050 College Algebra 4.0
HUMANITIES/FINE ARTS/FOREIGN LANGUAGE
• PHIL 205G Ethics and Values (strongly suggested) 3.0
SOCIAL AND BEHAVIORAL SCIENCE
• SOC 1010 Introduction to Sociology 3.0 or SOC 1020 Modern Social Problems (3.0)
BIOLOGY OR PHYSICAL SCIENCE
• MICR 2060 Microbiology for Health Professions 4.0
PHYSICAL EDUCATION/HEALTH/SAFETY OR ENVIRONMENT
• NUTR 1020 Foundations of Human Nutrition 3.0

Discipline Core Requirements: 61 Credits
Complete the following:
• DENT 1010 Dental Hygiene I 4.0
• DENT 1020 Oral Anatomy and Physiology 4.0
• DENT 1030 Dental Materials 2.0
• DENT 1040 Dental Hygiene II 6.0
• DENT 1050 Clinical Dental Radiography 2.0
• 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 6.0
• DENT 3030 Periodontology 3.0
• DENT 3040 Dental Hygiene IV 6.0
• 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 4.0
• ZOOL 2420 Human Physiology 4.0

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 during course attendance at UVU.
4. Completion of GE and specified departmental requirements

BS in Dental Hygiene 120 CREDITS

Matriculation Requirements:
• Completion of an AA, AS, or AAS degree in dental hygiene from an accredited program with department permission

General Education Requirements: 38 Credits
• ENGL 1010 Introduction to Writing 3.0
• 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
• 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 one of the following:
• PHIL 2050 Ethics and Values (3.0)
• PHIL 205G Ethics and Values (strongly suggested) 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) 3.0
• CHEM 1110 Elementary Chemistry for the Health Sciences (fulfills Physical Science) 3.0
• ZOOL 2320 Human Anatomy (fulfills additional Biology or Physical Science) 4.0
• Fine Arts 3.0
• COMM 1050 Introduction to Speech Communication (fulfills Humanities) 3.0
• SOC 1010 Introduction to Sociology (fulfills Social/Behavioral Science) 3.0 or SOC 1020 Modern Social Problems (3.0)

Discipline Core Requirements: 70 Credits
Complete the following:
• DENT 1010 Dental Hygiene I 4.0
• DENT 1020 Oral Anatomy and Physiology 4.0
• DENT 1030 Dental Materials 2.0
• DENT 1040 Dental Hygiene II 6.0
• DENT 1050 Clinical Dental Radiography 2.0
• 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 6.0
• DENT 3030 Periodontology 3.0
• DENT 3040 Dental Hygiene IV 6.0
• DENT 3050 Dental Hygiene Seminar 1.0
• DENT 3060 Advanced Dental Hygiene Public Health 3.0
• DENT 3200 Teaching the Dental Hygiene Student 2.0
• DENT 4200 Teaching the Dental Hygiene Patient 3.0
• DENT 4300 Dental Hygiene Capstone 1.0
• DENT 481R Internship in Dental Hygiene (1.0) 4.0
• MICR 2060 Microbiology for Health Professions 4.0
• NUTR 1020 Foundations of Human Nutrition 3.0
• PSY 1010 General Psychology 3.0
• ZOOL 2420 Human Physiology 4.0

Emphasis:
Complete one of the following:
• Business 12.0
• Education 12.0
• Integrative Practice 12.0
• Public Health 12.0

Graduation Requirements:
1. Completion of a minimum of 120 credits semester credits
2. Overall grade point average of 2.5 or above. All courses must have “C-” or higher.
3. Residency hours: minimum of 30 credit hours through course attendance at UVU, with 10 hours earned during the last 60 hours.
4. Completion of GE and specified departmental requirements
5. A minimum of 40 upper division credit hours
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.

Emphasis in Education 12 Credits

Emphasis Requirements: 12 Credits
• EDSC 3000 Educational Psychology 3.0
• HLTH 4200 Health Education Teaching Methods 3.0
• SOC 3430 Sociology of Education 3.0
• Complete an additional 3 credits from any 3000 level or higher course. See advisor for a list of recommended courses.

Emphasis in Business 12 Credits

Emphasis Requirements: 12 Credits
• MGMT 3005 Organization Behavior 3.0
• MGMT 3060 Principles of Marketing 3.0
• MGMT 3170 Entrepreneurship 3.0
• MGMT 3210 Convention and Events Management 3.0

Emphasis in Integrative Practice 12 Credits

Emphasis Requirements: 12 Credits
• DENT 3100 Office and Private Practice for the Dental Hygienist 3.0
• DENT 390G Multicultural Dental Education 3.0
• DENT 406G Global Community Health Project (3.0) or DENT 489R Undergraduate Research in Dental Hygiene 3.0
• Complete an additional 3 credits from any 3000 level or higher course. See advisor for a list of recommended courses.

Emphasis in Public Health 12 Credits

Emphasis Requirements: 12 Credits
• HLTH 3200 Principles of Community Health 3.0
• HLTH 3260 Modifying Health Behavior 3.0
• HLTH 3500 Epidemiology 3.0
• HLTH 4300 Community Health Ethics 3.0

See Course Descriptions section of the catalog for detailed course information. This department manages the following core prefixes:
• DENT, Dental Hygiene
Diesel Mechanics Technology

Department Chair: Don Wilson
Office: SA 325
Telephone: 801-863-8124

Program Coordinator: Dean Bohl
Office: SA 317c
Telephone: 801-863-8251 or 801-863-8349

Faculty:
Associate Professor
Kelvyn Blackhurst
Dean Bohl
Advisor: Carrie Peterson
Office: CS 635
Telephone: 801-863-7454

Office Manager: Kateena Davis
Office: SA 325
Telephone: 801-863-8349

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 Mechanics 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 Lab 2.0
• DMT 1510 Electrical Systems Theory 4.0
• DMT 151L Electrical Systems Lab 2.0
• DMT 1520 Engine Electronics and Diagnostics Theory 4.0
• DMT 152L Engine Electronics and Diagnostics Lab 2.0
• MGMT 2200 Business Communications 3.0
• AUT 1260 Tech Math for Mechanics 3.0
or MAT 1000 Integrated Beginning and Intermediate Algebra (5.0) 3.0
or Any higher MAT or MATH course 2.0
• 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.
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 Lab 2.0
• DMT 1510 Electrical Systems Theory 4.0
• DMT 151L Electrical Systems Lab 2.0
• DMT 1520 Engine Electronics and Diagnostics Theory 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 56 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 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 Lab 2.0
• DMT 1510 Electrical Systems Theory 4.0
• DMT 151L Electrical Systems Lab 2.0
• DMT 1520 Engine Electronics and Diagnostics Theory 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

AAS in Diesel Mechanics Technology 64 Credits

General Education Requirements: 16 Credits
• MGMT 2200 Business Communications 3.0
• AUT 1260 Tech Math for Mechanics 3.0
or MAT 1000 Integrated Beginning and Intermediate Algebra (5.0) 3.0
or Any higher MAT or MATH course 2.0
• 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 Biology or Physical Science Distribution Course 3.0
• Any approved Physical Education, Health, Safety or Environment Course 1.0

Catalog 2010–2011 Utah Valley University
Digital Media

Department Chair: Jan Bentley
Office: CS 526g
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Business Education Director: Cynthia Krebs
Office: CSS26a
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Faculty:
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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
- Cinema/TV 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 new surgical techniques to physicians, or work with a team to create an educational game. They may work as video or audio specialists on a documentary, 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

General Education Requirements: 17 Credits
ENGLISH
- ENGL 1010 Introduction to Writing 3.0

MATHEMATICS
- MAT 1010 Intermediate Algebra 4.0
- HUM 1100 History of US and Western Civilization 3.0

HUMANITIES/FINE ARTS/FOREIGN LANGUAGE
- PHIL 2050 Ethics and Values (highly recommended) (3.0)
- or Any approved Humanities, Fine Arts, or Foreign Language Distribution Course

SOCIAL AND 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
- 1.0

- HLTH 1100 Personal Health and Wellness (2.0)
- or Any approved PE, Safety or Health Distribution Course

Discipline Core Requirements: 23 Credits

Complete the following:
- DGM 1110 Digital Media Essentials I 4.0
- 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 24.0

Academic Program:
64 Credits

B.S. in Digital Media

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 the following:
- HIST 2000 US History to 1877 (3.0)
- and HIST 2100 US History Since 1877 (3.0)
- HIST 1700 American Civilization (3.0)
- HIST 1740 US Economic History (3.0)
- POLS 1000 American Heritage (3.0)
- or POLS 1100 American National Government (3.0)

Complete the following:
- PHIL 2050 Ethics and Values 3.0
- HLTH 1100 Personal Health and Wellness 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 2150 World Literature (recommended for Cinema Production 3.0)
- Fine Arts Distribution—THEA 1023 Introduction to Film recommended for Cinema Production, MUSC 1010 Introduction to Music recommended for Audio Production 3.0
- Social/Behavioral Science—PHIL 1100 (recommended for Cinema Production 3.0

Discipline Core Requirements: 25 Credits

Complete the following:
- DGM 1110 Digital Media Essentials I 4.0
- 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
- or ENGL 4310 Advanced Technical Communication (3.0)
- or DGM 4310 Senior Projects I 3.0
- DGM 4330 Corporate Issues in Digital Media 3.0
- or DGM 4410 Senior Projects II 3.0

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**Emphasis: Digital Media**

Complete one of the following:
- Audio Production 60.0
- Cinema Production 60.0
- Gaming and Animation 60.0
- Internet Technologies 60.0
- Project and Information Management 60.0

**Graduation Requirements:**
1. Completion of a minimum of 120 semester credits.
2. Overall grade point average of 2.0 (C) or above, with no grade lower than a C- in DGM 1110, DGM 2110, DGM 2120, DGM 2130 and DGM 2210.
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 2007 or later catalog must complete one course that meets the Global/Intercultural Requirement, indicated by a course number ending in G.

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**Emphasis in Audio Production** 60 Credits

**Emphasis Requirements:** 46 Credits
- DGM 2110 Digital Motion Picture Essentials 3.0
- DGM 2130 Digital Audio Essentials 3.0
- DGM 2140 Electronics for Media 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)
- or ART 2420 Studio Recording I 3.0
- or DGM 2440 Sound for Film and Television 3.0
- or DGM 2460 Radio Production 3.0
- or DGM 3130 Digital Storyboarding 3.0
- or DGM 310R Advanced Topics in Digital Media 1.0
- or DGM 3420 Studio Recording II 3.0
- or DGM 3460 Live Sound Reinforcement 3.0
- or DGM 3480 Digital Audio Restoration 3.0
- or PHYS 1700 Descriptive Acoustics 3.0
- or MUSC 1400 Introduction to Music Technology 2.0

**Emphasis Elective Requirements:** 14 Credits
- Complete 14 credits from a minimum of 9 upper division credits) from department approved electives

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**Emphasis in Cinema Production** 60 Credits

**Emphasis Requirements:** 55 Credits
- DGM 2110 Digital Motion Picture Essentials 3.0
- DGM 2130 Digital Audio Essentials 3.0
- DGM 2210 3D Modeling and Animation Essentials 4.0
- or DGM 2250 Principles of Digital Design 3.0
- or ART 1120 2D Design (3.0)
- or DGM 2320 Digital Photography and Compositing II 3.0
- or DGM 2440 Sound for Film and Television 3.0
- or DGM 2520 Film Production Analysis 3.0
- or DGM 2540 Cinematography I 3.0
- or DGM 3130 Digital Storyboarding 3.0
- or DGM 3520 Digital Photography and Compositing II 3.0
- or DGM 3480 Digital Audio Restoration 3.0
- or DGM 3510 Digital Broadcasting 3.0
- or DGM 3520 Digital Motion Picture Production 3.0
- or DGM 3540 Cinematography II 3.0
- or DGM 3560 Post Production 3.0
- or DGM 3580 Digital Cinema Production 3.0
- or THEA 3113 Acting for Film 3.0
- or THEA 3613 Directing Actors I 3.0

**Emphasis Elective Requirements:** 5 Credits
- Select 5 credits from a “C”
  - DGM 350R Advanced Topics in Digital Motion Picture Production (1.0)
  - DGM 3640 Visual Effects and Compositing I (4.0)
  - THEA 1033 Fundamentals of Acting I (3.0)
  - THEA 2313 Film History I (3.0)
  - THEA 2232 Film History II (3.0)
  - THEA 2713 Introduction to Writing for the Stage and Screen (3.0)
  - THEA 3563 Art Direction for Film (3.0)
  - THEA 3623 Advanced Direction of Actors for Theater (3.0)
  - THEA 3753Script Writing II (3.0)

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**Emphasis in Gaming and Animation** 60 Credits

**Emphasis Requirements:** 46 Credits
- DGM 1620 Survey of Animation 3.0
- DGM 2110 Digital Motion Picture Essentials 3.0
- DGM 2210 3D Modeling and Animation Essentials 4.0
- DGM 2620 Principles of Animation I 4.0
- DGM 3130 Digital Storyboarding 3.0
- DGM 3620 Principles of Animation II 4.0
- DGM 3640 Visual Effects and Compositing I 4.0
- DGM 3650 Advanced Lighting and Rendering 3.0
- DGM 3660 Advanced Lighting and Animation 3.0
- DGM 3680 Animation Project 3.0
- DGM 4640 Visual Effects and Compositing II 3.0
- or ART 4110 Drawing I 3.0
- or ART 3200 3D Computer Modeling 3.0

**Emphasis Elective Requirements:** 14 Credits
- Complete 14 credits from department approved electives

---

**Emphasis in Internet Technologies** 60 Credits

**Emphasis Requirements:** 53 Credits
- DGM 2310 Digital Motion Picture Essentials 3.0
- DGM 2313 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
- DGM 2260 Immersive Authoring I 3.0
- DGM 2740 Web-Design 3.0
- or DGM 2760 Web Languages I 3.0
- DGM 2780 Authoring for the Internet I 3.0
- or DGM 310R Advanced Topics in Digital Media 1.0
- DGM 3260 Immersive Authoring II 3.0
- DGM 3265 Authoring for Virtual Reality Environments 3.0
- DGM 3280 Authoring for Digital Devices 3.0
- DGM 3740 Web Content Management 3.0
- DGM 3760 Web Languages II 3.0
- DGM 3780 Authoring for the Internet II 3.0
- DGM 3790 Rich Internet Application Development I 3.0
- or DGM 4790 Rich Internet Application Development II 3.0

**Emphasis Elective Requirements:** 7 Credits
- Complete 7 credits from department approved electives

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**Emphasis in Project and Information Management** 60 Credits

**Emphasis Requirements:** 53 Credits
- DGM 1010 Basic Computer Applications 2.0
- or DGM 2350 Word Processing Applications (3.0)
- DGM 2240 Interaction Design 3.0
- DGM 2330 Records and Information Management 3.0
- DGM 2360 Spreadsheet Applications 3.0
- DGM 2370 Database Applications 3.0
- DGM 2740 Web Design 3.0
- DGM 310R Advanced Topics in Digital Media 1.0
- DGM 3260 Authoring for Virtual Reality Environments 3.0
- DGM 3290 Developing Digital Media for Instruction and Training 3.0
- DGM 3820 Presentation Applications 3.0
- DGM 3850 Desktop Publishing Skills 3.0
- DGM 3870 Graphic Applications 3.0
- ACC 2210 Financial Accounting 3.0
- and ACC 2220 Managerial Accounting 3.0
- or ACC 2230 Principles of Accounting 3.0
- or FIN 1700 Personal Finance 3.0
- or MGMT 2200 Business Communications 3.0
- or MGMT 3000 Organizational Behavior 3.0
- or MGMT 3010 Principles of Management (3.0)
- or MGMT 3430 Human Resource Management 3.0
- or MGMT 3890 Career Preparation 2.0

**Emphasis Elective Requirements:** 7 Credits
- Complete 7 credits from department approved electives

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**BA/BS in Integrated Studies** 123 Credits

**Emphasis in Digital Media** 18 Credits

**Emphasis Requirements:** 18 Credits

Prerequisite courses:
- DGM 1110 Digital Media Essentials I (4.0)
- DGM 2130 Digital Audio Essentials (3.0)
- DGM 2110 Digital Motion Picture Essentials (3.0)
- DGM 2210 3D Modeling and Animation Essentials (4.0)
- DGM 2120 Web Essentials (3.0)

Complete the following:
- DGM 3120 Digital Media for Intercultural Communication (3.0)
- DGM 3320 Digital Media Project Management 3.0
- or DGM 4000 Writing for Digital Media 3.0
- or ENGL 4301 Advanced Technical Communication (3.0)
- DGM 4310 Senior Projects I 3.0
- or DGM 4330 Corporate Issues in Digital Media 3.0
- or DGM 4410 Senior Projects II (3.0)

**Minor in Digital Media** 22 Credits

**Matriculation Requirements:**
- Admitted to a bachelor degree program at UVU.

**Discipline Core Requirements:** 7 Credits
- DGM 1110 Digital Media Essentials I 4.0

Complete one of the following:
- DGM 2110 Digital Motion Picture Essentials (3.0)
- DGM 2120 Web Essentials (3.0)
- DGM 2130 Digital Audio Essentials (3.0)
- DGM 2210 3D Modeling and Animation Essentials (4.0)

**Elective Requirements:** 15 Credits
- Select 15 credits from approved DGM electives. See advisor for details.

**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.

**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 Digital Media** 45 Credits

**Emphasis Requirements:** 17 Credits

Complete the following:
- DGM 1110 Digital Media Essentials I 4.0
- 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 (see advisor)

See Course Descriptions section of the catalog for detailed course information. This department manages the following course prefixes:
- BMIED, Business/Marketing Education
- DGM, Digital Media
## Earth Science

### Certificate in Water and Wastewater Operations

**Discipline Core Requirements: 22 Credits**

- [ ENV 1200 Environmental Worker Safety](#)
- [ ENV 1210 Introduction to Water Reclamation](#)
- [ ENV 1300 Environmental Lab and Sampling](#)
- [ ENV 1360 Introduction to Water Treatment](#)
- [ ENGL 1010 Introduction to Writing](#)
- [ DGU 2010 Business Computer Proficiency](#)
- [ MAT 1010 Intermediate Algebra](#)

**Elective Requirements: 9 Credits**

- [ ENV 3320 Hydraulics of Water](#)
- [ ENV 1510 Hazardous Materials Emergency Response](#)
- [ ENV 3630 Introduction to Geographic Information Systems](#)
- [ ENV 3790 Hydrology](#)
- [ ENV 1270 Environmental Microbiology](#)
- [ ENV 3330 Environmental Resources Management](#)

### AS Pre Major in Physical Science

**General Education Requirements: 38 Credits**

- [ ENGL 1010 Introduction to Writing](#)
- [ ENGL 2010 Intermediate Writing–Humanities/Social Sciences](#)
- [ ENGL 2020 Intermediate Writing–Science and Technology](#)
- [ MATH 1050 College Algebra](#)

**Complete one of the following:**

- [ HIST 2700 US History to 1877](#)
- [ HIST 2710 US History since 1877](#)

**Complete the following:**

- [ PHIL 2050 Ethics and Values](#)
- [ HLTH 1100 Personal Health and Wellness](#)
- [ PES 1097 Fitness for Life](#)

**Distribution Courses**

- [ Biology](#)
- [ PHYS 2210 Physics for Scientists and Engineers I](#)
- [ PHYS 2220 Physics for Scientists and Engineers II](#)
- [ Humanities Distribution](#)
- [ Fine Arts Distribution](#)
- [ Social/Behavioral Science](#)

**Discipline Core Requirements: 17 Credits**

- [ CHEM 1210 Principles of Chemistry I](#)
- [ MATH 1210 Calculus I](#)
- [ MATH 1220 Calculus II](#)
- [ PHYS 2215 Physics for Scientists and Engineers I Lab](#)
- [ PHYS 2225 Physics for Scientists and Engineers II Lab](#)

**Elective Requirements: 8 Credits**

- [ CHEM 1220 Principles of Chemistry II](#)
- [ CHEM 2310 Organic Chemistry I](#)
- [ CHEM 2315 Organic Chemistry I Laboratory](#)
- [ CHEM 2325 Organic Chemistry II Laboratory](#)
- [ ENGR 2450 Computational Methods for Engineering Analysis](#)
- [ GEO 1010 Introduction to Geology](#)
- [ GEO 1220 Historical Geology](#)
- [ GEO 1080 Introduction to Oceanography](#)
- [ MATH 2210 Calculus III](#)
- [ MATH 2040 Principles of Statistics](#)
- [ MATH 2270 Linear Algebra](#)
- [ MATH 2280 Ordinary Differential Equations](#)
- [ METO 1010 Introduction to Meteorology](#)

### Graduation Requirements:

1. Completion of a minimum of 63 semester credits.
2. Overall grade point average of 2.00 (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 Earth Science

**General Education Requirements: 27 Credits**

- [ ENGL 1010 Introduction to Writing](#)
- [ ENGL 2020 Intermediate Writing–Science and Technology](#)
- [ MATH 1050 College Algebra](#)

**Complete one of the following:**

- [ HIST 2700 US History to 1877](#)
- [ HIST 2710 US History since 1877](#)

**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](#)

**Discipline Core Requirements: 56 Credits**

- [ CHEM 1210 Principles of Chemistry I](#)
- [ MATH 1210 Calculus I](#)
- [ MATH 1220 Calculus II](#)
- [ PHYS 2210 Physics for Scientists and Engineers I](#)
- [ PHYS 2220 Physics for Scientists and Engineers II](#)
- [ Humanities Distribution](#)
- [ Fine Arts Distribution](#)
- [ Social/Behavioral Science](#)

**Discipline Core Requirements: 17 Credits**

- [ CHEM 1210 Principles of Chemistry I](#)
- [ MATH 1210 Calculus I](#)
- [ MATH 1220 Calculus II](#)
- [ PHYS 2215 Physics for Scientists and Engineers I Lab](#)
- [ PHYS 2225 Physics for Scientists and Engineers II Lab](#)

**Elective Requirements: 8 Credits**

- [ CHEM 1220 Principles of Chemistry II](#)
- [ CHEM 2310 Organic Chemistry I](#)
- [ CHEM 2315 Organic Chemistry I Laboratory](#)
- [ CHEM 2325 Organic Chemistry II Laboratory](#)
- [ ENGR 2450 Computational Methods for Engineering Analysis](#)
- [ GEO 1010 Introduction to Geology](#)
- [ GEO 1220 Historical Geology](#)
- [ GEO 1080 Introduction to Oceanography](#)
- [ MATH 2210 Calculus III](#)
- [ MATH 2040 Principles of Statistics](#)
- [ MATH 2270 Linear Algebra](#)
- [ MATH 2280 Ordinary Differential Equations](#)
- [ METO 1010 Introduction to Meteorology](#)

**Emphasis:**

- Environmental Management
- Geology

**Graduation Requirements:**

1. Completion of a minimum of 121-123 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 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.
General Education Requirements: 27 Credits
- ENGL 1010 Introduction to Writing 3.0
- ENGL 2010 Intermediate Writing—Humanities/ Social Sciences 3.0
- ENGL 2200 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
- Biology
- Physical Science
- Additional Biology or Physical Science
- Humanities Distribution 3.0
- Fine Arts Distribution 3.0
- Social/Behavioral Science 3.0

Discipline Core Requirements: 86 Credits
- PHYS 1040 Elementary Astronomy 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 4500 Sedimentary Geology 4.0
- GEO 4500 Laboratory 1.0
- GEO 4200 Teaching Methods in Science 3.0
- MATH 1060 Trigonometry 3.0
- METO 3100 Climate and the Earth System 3.0
- PHYS 2010 College Physics I 4.0
- PHYS 2015 College Physics I Lab 1.0
- PHYS 2020 College Physics II 4.0
- PHYS 2025 College Physics II Lab 1.0

Education Courses
- ENVS 2540 Development of the Adolescent Student 2.0
- EDSP 3400 Exceptional Students 2.0
- EDSC 3000 Educational Psychology 3.0
- EDSC 3050 Foundations of American Education 2.0
- EDSC 4450 Multicultural Instruction ESL 2.0
- EDSC 4445 Content Area Reading and Writing 2.0
- EDSC 4550 Secondary Curriculum Instruction 4.0
- or EDSC 4550 Secondary Curriculum Instruction and Assessment 4.0

Elective Requirements: 10 Credits
- Any 10 credit hours of the student’s choosing.

Graduation Requirements:
1. Completion of a minimum of 123 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours — minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.
5. Grade of C- or higher in all GEO, BIOL, and METO courses.
6. 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: *This requirement is fulfilled with the core requirements.

Minor in Earth Science 23 Credits
Matriculation Requirements:
- ENGL 1010 Introduction to Geology 3.0

For complete course information, please refer to the UVU Catalog 2010–2011.
Elementary Education

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Office: ME 116d
Telephone: 801-863-6571

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

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Briant Farnsworth
Nancy Peterson

Associate Professor
Genan Anderson
Linda Pierce

Assistant Professor
Lorilyn Brandt
Debora Escalante
Stan Harward
Michael Patch
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School of Education
Dean: Briant J. Farnsworth
Office: ME 117b
Telephone: 801-863-8006

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.

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

<table>
<thead>
<tr>
<th>Discipline Core Requirements</th>
<th>30 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Early Care and Education</strong></td>
<td></td>
</tr>
<tr>
<td>• PSY 1100 Human Development Life Span (C grade or higher)</td>
<td>3.0</td>
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<tr>
<td>• EDEC 1640 Childrens Music and Movement</td>
<td>2.0</td>
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<tr>
<td>• EDEC 2300 Including Young Diverse Learners or EDSP 3400 Exceptional Students (2.0)</td>
<td>2.0</td>
</tr>
<tr>
<td>• EDEC 2500 Child Development Birth to Eight Years</td>
<td>3.0</td>
</tr>
<tr>
<td>• EDEC 2600 Introduction to Early Childhood Education</td>
<td>2.0</td>
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<tr>
<td>• EDEC 2610 Child Guidance</td>
<td>3.0</td>
</tr>
<tr>
<td>• EDEC 2620 Early Childhood Curriculum</td>
<td>3.0</td>
</tr>
<tr>
<td>• EDEC 2640 Literacy and Literature for Early Childhood</td>
<td>3.0</td>
</tr>
<tr>
<td>• EDEC 2700 Early Childhood Practicum</td>
<td>3.0</td>
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<tr>
<td>• EDEC 2720 Early Childhood Assessment</td>
<td>2.0</td>
</tr>
<tr>
<td>• EDEL 2200 Computer Technology in Education</td>
<td>2.0</td>
</tr>
</tbody>
</table>

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.
5. First aid/CPR certification, food handler’s permit, portfolio review and acceptance by Education Committee.
AS Pre Major in  
**Early Childhood Education  
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 3.0
- MATH 1050 College Algebra 4.0
- HIST 2710 US History to 1977 (3.0) and HIST 2711 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 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

**Discipline Core Requirements:** 23 Credits
- EDEL 2200 Computer Technology in Education 2.0
- EDEC 2630 Child Development Birth to Three Years 2.0
- EDEC 2640 Early Childhood Education 2.0
- EDEC 2610 Child Guidance 2.0
- EDEC 2620 Early Childhood Curriculum 2.0
- EDEC 2640 Literacy and Language for Early Childhood 3.0
- EDEC 2700 Early Childhood Practicum 3.0
- EDEC 2720 Early Childhood Assessment 2.0
- Elective Requirements: 1 Credit or any Advisor Approved elective 1.0

**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.

**AS Pre Major in  
**Pre-Elementary Education  
63 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
- HIST 2710 US History to 1977 (3.0) and HIST 2711 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 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

**Discipline Core Requirements:** 71 Credits
- Pre-Professional Core Requirements:
  - EDEL 1010 Introduction to Education 2.0
  - EDEL 2200 Computer Technology in Education 2.0
  - EDEL 2230 Children’s Literature 3.0
  - EDSP 3400 Exceptional Students 2.0
  - MATH 2010 Mathematics for Elementary Teachers I 3.0
  - MATH 2020 Mathematics for Elementary Teachers II 3.0
- Professional Education Core Requirements:
  - EDEL 3000 Educational Psychology 3.0

**BS in Elementary Education  
121 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
- HIST 2710 US History to 1977 (3.0) and HIST 2711 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 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

**Elective Requirements:** 12 Credits
- Recommended elective courses:
  - ART 3400 Fundamentals of Art Education (3.0)
  - MUSC 3400 Music in the Elementary School (2.0)
  - DAN 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)
  - EDEC 2300 Including Young Diverse Learners (2.0)
  - EDEC 2500 Child Development Birth to Eight (2.0)
  - EDEC 2600 Introduction to Early Childhood Education (2.0)
  - EDEC 2610 Child Guidance (3.0)
  - EDEC 2640 Literacy and Language for Early Childhood (3.0)

G. E. Requirements:
1. Completion of a minimum of 121 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.

Footnotes:
- Students must complete all Pre-Professional and General Education courses with an overall GPA of 3.0 and be formally admitted into the Teacher Preparation program before they are admitted into Professional courses.

See Course Descriptions section of the catalog for detailed course information. This department manages the following course prefixes:
- ECFS, Education, Child and Family Studies
- EDEC, Early Childhood Education
- EDEL, Elementary Education
- EDSP, Special Education
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

Matriculation 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.

Discipline Core Requirements:
- EDSC 2540 Development of the Adolescent Student (4.0)
- 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 4400 Content Area Reading and Writing (3.0)
- EDSC 445G Multicultural Instruction ESL (2.0)
- EDSC 4550 Secondary Curriculum Instruction and Assessment (4.0)
- EDSC 4850 Student Teaching—Secondary (4.0)
- EDSP 3400 Exceptional Students (2.0)

See Course Descriptions section of the catalog for detailed course information. This department manages the following course prefixes:
- EDSC, Secondary Education

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Electrical Automation and Robotics Technology

Department of Engineering Graphics and Design Technology

Department Chair: Darin Taylor
Office: CS 704e
Telephone: 801-863-8168

Program Coordinator: Dave Adams
Office: CS 620
Telephone: 801-863-6052

Faculty:
- Associate Professor
  - Dave Adams
  - Robert Benson

Administrative Support: Christine Bigelow
Office: CS 704
Telephone: 801-863-8363

Advisor: Jessie Stewart
Office: CS 635
Telephone: 801-863-6597

Advisory Committee: Kent Brown, Porter Brown, J.R. Christensen, Lyle W. Williams, Company, Inc.; Brad Hardman, Stoffer; David Hill, Arch Coal, Inc.; Calvin Robertson, Longview Fibre; Hamilton Shattuck, IM Flash Technologies; Russ Terry, Codale Electric Supply, Inc.; Scott Watson, Hunter High School

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.

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.

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

General Education Requirements: 18 Credits
- ENGL 1010 Introduction to Writing 3.0
- Any approved Humanities or Fine Art 3.0
- Any approved Behavioral Science, Social, or Political Science Distribution Course 3.0
- Any approved Physical Education, Health, Safety, 1.0 or Environment Course
- Any approved Biology or Physical Science 2.0
- ERT 1050 Applied Electrical Math 5.0

Discipline Core Requirements: 50 Credits
- ERT 1130 Basic Electrical 4.0
- ERT 1180 Basic Electrical Lab 5.0
- ERT 1250 Electrical Wiring and Code 2.0
- ERT 1260 Logic 2.0
- ERT 1280 DC and AC Machines 5.0
- ERT 1285 DC and AC Machines Lab 4.0
- ERT 2110 Semiconductors Devices 6.0
- ERT 2150 Hydraulics and Pneumatics 3.0
- ERT 2160 Industrial Solid State Circuit 5.0
- ERT 2250 Programmable Logic Controllers 1 5.0
- ERT 2260 Advanced Logic 3.0
- ERT 2270 Programmable Logic Controllers 2 6.0

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

General Education Requirements: 20 Credits
- ENGL 1010 Introduction to Writing 3.0
- MATH 1050 College Algebra 4.0
- COMM 1020 Public Speaking 3.0
- or English 2310 Technical Communication
- or Other Humanities distribution course approved by Dept. Chair

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:
- PHYS 2010 College Physics I 4.0
- PHYS 2015 College Physics I Lab 1.0
- HLTH 1100 Personal Health and Wellness 2.0
- or PES 1097 Fitness for Life (2.0)

Discipline Core Requirements: 49 Credits
- CS 1400 Fundamentals of Programming 3.0
- CS 2810 Computer Organization and Architecture 3.0
- EENG 2700 Digital Design I 3.0
- EENG 2705 Digital Design I Lab 1.0
- MATH 1060 Trigonometry 3.0
- MECH 1010 Introduction to Mechatronics 3.0
- MECH 1020 Mechanical Systems 3.0
- MECH 2030 Sensor Technology 3.0
- MECH 2040 Control Technology 3.0
- MECH 3050 Mechatronics Integration Projects 3.0
- MECH 3060 Mechatronics Management 3.0
- MECH 1510 Software Tools for Mechatronics 3.0
- MECH 2520 Introduction to Control Systems 4.0
- Programming
- MECH 2530 Advanced Control Systems 4.0
- Programming
- MECH 3540 Embedded Control Systems 3.0
- MECH 1800 Basic Electronics AC and DC 4.0

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

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

Complete 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 Govern-

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
- Social/Behavioral Science: 3.0

Discipline Core Requirements: 16 Credits
- Choose from EART or related courses (1000 level or higher)

Elective Requirements: 12 Credits
- Electives (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 Electrical Automation and Robotics Technology 45 Credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EART 1130</td>
<td>Basic Electrical</td>
<td>4.0</td>
</tr>
<tr>
<td>EART 1050</td>
<td>Applied Electrical Math</td>
<td>5.0</td>
</tr>
<tr>
<td>EART 1180</td>
<td>Basic Electrical Lab</td>
<td>5.0</td>
</tr>
<tr>
<td>EART 1260</td>
<td>Logic</td>
<td>2.0</td>
</tr>
<tr>
<td>EART 1280</td>
<td>DC and AC Machines</td>
<td>5.0</td>
</tr>
<tr>
<td>EART 1285</td>
<td>DC and AC Machines Labs</td>
<td>4.0</td>
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<tr>
<td>EART 2110</td>
<td>Semiconductors Devices</td>
<td>6.0</td>
</tr>
<tr>
<td>EART 2150</td>
<td>Hydraulics and Pneumatics</td>
<td>3.0</td>
</tr>
<tr>
<td>EART 2160</td>
<td>Industrial Solid State Circuit</td>
<td>5.0</td>
</tr>
<tr>
<td>EART 2250</td>
<td>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
- MECH, Mechatronics Technology
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

CAREER OPPORTUNITIES

<table>
<thead>
<tr>
<th>Federal Emergency Management Agency</th>
<th>State, County and Municipal Fire Departments</th>
</tr>
</thead>
<tbody>
<tr>
<td>The United States Department of Defense</td>
<td>State, County and Municipal Police Departments</td>
</tr>
<tr>
<td>The United States Department of Homeland Security</td>
<td>State, County and Municipal Emergency Management Departments</td>
</tr>
</tbody>
</table>

Federal Fire and Emergency Service Agencies
Private industries to include the Insurance Industry
Federal Law Enforcement Agencies
Public and Private Loss Prevention Positions

EMPLOYMENT 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>$61,410.00*</td>
</tr>
<tr>
<td>Fire and Rescue</td>
<td>298,000+*</td>
<td>$44,260.00*</td>
</tr>
<tr>
<td>Fire Investigators</td>
<td>12,960+*</td>
<td>$53,030.00*</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

PROGRAM REQUIREMENTS FOR ENROLLMENT
There are departmental enrollment 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 and may be taken either before or during the same semester of the program. 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 ≥ 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 the Candidate Physical Ability Test (CPAT) within 9 months of start date.
7. Obtain a physical examination 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 ≥ 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.
4. Be able to comply with criminal background
check requirements of UCA 26-8a-310 for certification as a paramedic in the state of Utah.

5. Have at least one year’s experience as an EMT-Basic 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 Tetanus.

8. Have current TB test results.

9. Complete a medical history form and 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 4.0
- ESFF 100A Introduction to Emergency Services (3.0) and ESFF 100B Firefighter Physical Ability Testing (1.0)
- 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
- ESFO 1350 Fire Protection Hydraulics and Water Supply 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. (Departmental may require a higher GPA.) Note: CERTIFICATION: Upon completion of courses for the Basic Recruit Certificate, students are eligible to apply for certification at the Firefighter I, Firefighter II, Hazardous Materials First Responder-Awareness and Hazardous Materials First Responder-Operations levels through the Utah Fire Science Certification System. Students are also eligible for certification at the Emergency Medical Technician--Basic level through the Utah Bureau of Emergency Medical Services.

Certificate in Paramedic 31 Credits

Discipline Core Requirements: 31 Credits

Complete the following:

- ESEC 3110 Paramedic I 5.0
- ESEC 3120 Paramedic Lab 3.0
- ESEC 3130 Paramedic II 7.0
- ESEC 3140 Paramedic III 4.0
- ESEC 4110 Paramedic IV 6.0
- ESEC 4120 Paramedic Clinical Concepts 6.0

Graduation Requirements:

1. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.) Note: CERTIFICATION: Upon completion, students are eligible to apply for certification as an Emergency Medical Technician/Paramedic through the Utah Bureau of Emergency Medical Services.

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: 16 Credits

- ESFF 100B Firefighter Physical Ability Testing 1.0
- 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
- ESFO 1350 Fire Protection Hydraulics and Water Supply 3.0

Emphasis in Fire Officer 31 Credits

General Education Requirements: 15 Credits

Choose 15 credits from the following:

- ESFO 1100 Fire Behavior and Combustion (3.0)
- ESFO 1110 Fire Prevention (3.0)
- ESFF 1110 Fire Prevention (3.0)
- ESFF 1350 Fire Protection Hydraulics and Water Supply (3.0)
- ESFO 2030 Fire Inspector I (3.0)
- ESFO 2050 Fire Protection and Detection Systems (3.0)
- ESFO 2080 Building Construction for the Fire Service (3.0)
- ESFO 2100 Fire Officer I: Supervision and Leadership (3.0)

Emphasis Elective Requirements: 16 Credits

- Any Emergency Services or related advisor approved courses

NOTE: Upon completion, students are eligible to apply for certification at the Fire Inspector I, Fire Investigator, Fire Service Instructor I, Fire Service Instructor II, Fire Officer I, and Fire Officer II levels through the Utah Fire Service Certification System.

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 (0.5)
- ESWF 1400 Wildland Firefighting Fundamentals (4.0)
- ESWF 1410 Wildland Firefighter Internship I (5.0)
- ESWF 1420 Wildland Firefighter Internship II (5.0)
- ESWF 2000 S200 Initial Attack Incident Commander Type 4 (1.0)
- ESWF 2010 I200 Basic Incident Command System (1.0)
- ESWF 2110 S211 Portable Pumps and Water Use (1.5)
- ESWF 2150 S215 Fire Operations in the Wildland Urban Interface (2.0)
- ESWF 2301 S230 Crew Boss Single Resource (2.0)
- ESWF 2340 S234 Ignition Operations (2.0)
- ESWF 2430 Wildland Firefighter Internship (5.0)
- ESWF 2600 S260 Interagency Incident Business Management (1.0)
- ESWF 2700 S270 Basic Air Operations (1.0)
- ESWF 2800 L280 Fellowship to Leadership (1.0)
- ESWF 2900 S290 Intermediate Wildland Fire Behavior (2.0)

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.

NOTE: The following courses are approved by the Utah Bureau of Emergency Medical Services.

• ESFO 1350 Fire Protection Hydraulics and Water Supply

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Utah Valley University
Completion of GE and specified departmental requirements.

Discipline Core Requirements: 25 Credits
- 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)
- MATH 2700 US History to 1877 (3.0)
- HIST 2710 US Economic History (3.0)
- HIST 2740 US History since 1877 (3.0)
- HIST 1740 American Civilization (3.0)
- HIST 1780 American History (3.0)
- POLS 1000 American Heritage (3.0)
- POLS 1100 American National Government (3.0)
- ESMG 3250 Managing Emergency Medical Services (3.0)
- ESMG 3500 Customer Service and Marketing for the Emergency Services (3.0)
- ESMG 4500 Emergency Services Capstone (3.0)

Elective Requirements: 32 Credits
- Any Emergency Services or related advisor approved course (3.0)
- Any courses 1000 or higher (1.0)

Emphasis: Complete one of the following:
- Emergency Care (3.0)
- Emergency Management (3.0)

Graduation Requirements:
1. Completion of a minimum of 120 semester credits.
2. Overall grade point average of 2.0 (C) or above, with completion of each Emergency Services class with a "C-" or higher.
3. Residency hours—minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. 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 list, see page 25.

Emphasis in Emergency Care 31 Credits
Emphasis Requirements: 31 Credits
- Choose one of the following two options for 31 credits: 31.0
- Student/Non-Affiliated Option
  - 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 4120 Paramedic Clinical Concepts (6.0)
- Paramedic/Affiliated Option
  - ESMG 481R Emergency Services Internship (1.0) 1
  - ESMG 491R Topics in Cardiology and Medical Trends (1.0) 2
  - ESMG 492R Topics in Trauma and Pharmacology (1.0) 3
  - ESMG 493R Topics in Medical Litigation (1.0) 4

Footnote:
1 Repeatable for a maximum of 15 credits.
2 Repeatable for a maximum of 6 credits.
3 Repeatable for a maximum of 6 credits.
4 Repeatable for a maximum of 4 credits.

Emphasis in Emergency Management 25 Credits
Emphasis Requirements: 25 Credits
- Choose 25 credits from the following: 25.0
  - USMGG 3150 Public Program Administration (3.0)
  - ESMG 3300 Master Planning for Public Emergency Services (3.0)
  - ESMG 3350 Analytical Research Approaches to Public Emergency Services (3.0)
  - ESMG 4400 Legal Considerations for the Emergency Services (3.0)
  - ESMG 4550 Principles of Disaster and Emergency Management (3.0)
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

<table>
<thead>
<tr>
<th>General Education Requirements</th>
<th>15 Credits</th>
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</thead>
<tbody>
<tr>
<td>ENGLISH</td>
<td>3.0</td>
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<tr>
<td>• ENGL 1010 Introduction to Writing (3.0) or MGMT 2200 Business Communications (3.0)</td>
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</tr>
<tr>
<td>MATHEMATICS</td>
<td>3.0</td>
</tr>
<tr>
<td>• EGD 1600 Technical Math–Algebra</td>
<td></td>
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<tr>
<td>• MATH 1050 College Algebra (4.0)</td>
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<tr>
<td>• EGD 1610 Technical Math–Geometry/Trig or MATH 1060 Trigonometry (3.0)</td>
<td></td>
</tr>
<tr>
<td>HUMANITIES/FINE ARTS/FOREIGN LANGUAGE</td>
<td>3.0</td>
</tr>
<tr>
<td>• PHIL 2050 Ethics and Values (highly recommended) (3.0)</td>
<td></td>
</tr>
<tr>
<td>• Any approved Humanities, Fine Arts, or Foreign Language Distribution Course</td>
<td></td>
</tr>
<tr>
<td>SOCIAL AND BEHAVIORAL SCIENCE</td>
<td>3.0</td>
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<tr>
<td>• MGMT 3000 Organizational Behavior (3.0) or Any approved Behavioral Science, Social, or Political Science</td>
<td></td>
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<tr>
<td>BIOLOGY OR PHYSICAL SCIENCE</td>
<td>3.0</td>
</tr>
<tr>
<td>• EGD 1810 Principles of Technology</td>
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</tr>
<tr>
<td>PHYSICAL EDUCATION/HEALTH/SAFETY OR ENVIRONMENT</td>
<td>1.0</td>
</tr>
<tr>
<td>• Any approved Physical Education, Health, Safety or Environment Course</td>
<td></td>
</tr>
</tbody>
</table>

Discipline Core Requirements: 40 Credits

<table>
<thead>
<tr>
<th>Course Numbers</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>• EGD 1010</td>
<td>Electrical–Electronic Drafting</td>
</tr>
<tr>
<td>• EGD 1020</td>
<td>3D Architectural Modeling</td>
</tr>
<tr>
<td>• EGD 1040</td>
<td>Computer Aided Drafting–AutoCAD</td>
</tr>
<tr>
<td>• EGD 1070</td>
<td>3 Dimensional Computer Modeling</td>
</tr>
<tr>
<td>• EGD 1100</td>
<td>Architectural Drafting</td>
</tr>
<tr>
<td>• EGD 1200</td>
<td>Mechanical Drafting</td>
</tr>
<tr>
<td>• EGD 1300</td>
<td>Structural Drafting</td>
</tr>
<tr>
<td>• EGD 1400</td>
<td>Surveying</td>
</tr>
<tr>
<td>• EGD 2020</td>
<td>Descriptive Geometry</td>
</tr>
<tr>
<td>• EGD 2040</td>
<td>Piping Drafting</td>
</tr>
<tr>
<td>• EGD 2050</td>
<td>Plate Layout</td>
</tr>
<tr>
<td>• EGD 2600</td>
<td>Statics</td>
</tr>
<tr>
<td>• EGD 2610</td>
<td>Strength of Materials</td>
</tr>
<tr>
<td>• EGD 2850</td>
<td>Cooperative Correlated Instruction/Orientation</td>
</tr>
<tr>
<td>• EGD 2860</td>
<td>Cooperative Correlated Instruction/Skills/USA</td>
</tr>
<tr>
<td>• EGD 2870</td>
<td>Portfolio and Career Preparation</td>
</tr>
</tbody>
</table>

Elective Requirements: 8 Credits

Choose three courses from the following list for a minimum of 8 credits.

<table>
<thead>
<tr>
<th>Course Numbers</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>• EGD 1060</td>
<td>MicroStation (2.0)</td>
</tr>
<tr>
<td>• EGD 1080</td>
<td>AutoLisp (2.0)</td>
</tr>
<tr>
<td>• EGD 2100</td>
<td>Advanced Mechanical–CAD (3.0)</td>
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<tr>
<td>• EGD 2200</td>
<td>Advanced Structural–CAD (3.0)</td>
</tr>
<tr>
<td>• EGD 2310</td>
<td>Structural Steel Modeling (3.0)</td>
</tr>
<tr>
<td>• EGD 2400</td>
<td>Surveying Applications (4.0)</td>
</tr>
<tr>
<td>• EGD 2710</td>
<td>Special Problems–Mechanical (2.0)</td>
</tr>
<tr>
<td>• EGD 2720</td>
<td>Special Problems–Surveying (2.0)</td>
</tr>
<tr>
<td>• EGD 2730</td>
<td>Special Problems–Civil Drafting (2.0)</td>
</tr>
<tr>
<td>• EGD 2740</td>
<td>Special Problems–Architectural (2.0)</td>
</tr>
<tr>
<td>• EGD 2750</td>
<td>Special Problems–Architectural Rendering (2.0)</td>
</tr>
<tr>
<td>• EGD 2760</td>
<td>Special Problems–Structural (2.0)</td>
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<tr>
<td>• EGD 2780</td>
<td>Special Problems–Electrical (2.0)</td>
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<tr>
<td>• EGD 281R</td>
<td>Cooperative Work Experience (1.0)</td>
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</table>

Graduation Requirements:
1. Completion of a minimum of 67 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours—minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements, including a portfolio and exit interview.
## 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 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
- HIST 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
- EGDT or related courses (1000 level or higher) 16.0

### Elective Requirements: 10 Credits
- Electives (1000 level or higher) 10.0

### Graduation Requirements:
1. Completion of a minimum of 61 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours--minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

## 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:
- EGDT 1010 Electrical-Electronic Drafting 3.0
- EGDT 1040 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 Strength of Materials 3.0

Complete 8 credits from the following: 8.0
- EGDT 1060 MicroStation (2.0)
- EGDT 2010 Advanced Electrical--CAD (2.0)
- EGDT 2100 Advanced Architectural--CAD (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.
English—Basic Composition

Department of Basic Composition/English as a Second Language (ESL)

Department Chair: Deborah R. Marrott
Office: LA 234e
Telephone: 801-863-8823
Website: http://www.uvu.edu/basiccomp/

Faculty:

Professor
  Deborah R. Marrott

Associate Professor
  Melinda Bender
  Forrest G. Williams

Assistant Professor
  Thomas Henry
  Chitralekha Duttagupta

Administrative Assistant: Elizabeth Nield
Office: LA 234f
Telephone: 801-863-6865

Advisor: Lisa Williamson
Office: LA 234a
Telephone: 801-863-8729

University College
Interim Dean: K.D. Taylor
Office: LA 210c
Telephone: 801-863-8949

OTHER SERVICES

Writing Center: Leigh Ann Copas
Office: LI 208
Telephone: 801-863-8099

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

The Basic Composition/ESL Department is dedicated to assisting students and community members who wish to improve their literacy skills in preparation for taking college courses or for self-improvement. Both the Basic Composition and ESL programs include emphasis on accuracy and clarity in language use, critical thinking, current events, organizational skills in speech and writing, comprehending and responding to written texts, and using logic and support to present oral and/or written arguments. 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 instruction, collaborative learning exercises, peer and individualized 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 desirably diverse and variable phenomenon.

The courses of study in English are designed to familiarize students with much of the traditional canon of literature. They are also designed to provide students with the critical and ethical skills necessary to interrogate this canon, to incorporate and legitimize their own and others “different” voices, not just in the academy, but in any of the many situations in which language influences human activity.

Students in English at UVU may choose from the following program options: BA/BS in English with an emphasis in Creative Writing or Literary 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.

AA/AS Pre Major in English with an Emphasis in Technical Communication

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 before 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

Distribution Courses
- Biology (3.0)
- Physical Science (3.0)
- Additional Biology or Physical Science (3.0)

Discipline Core Requirements: 15 Credits
Select 9 credits from the following:
- ENGL 2510 American Literature before 1865 (3.0)
- ENGL 2520 American Literature after 1865 (3.0)
- ENGL 2610 British Literature before 1800 (3.0)
- ENGL 2620 British Literature after 1800 (3.0)

Complete a minimum of any two lower-division ENGL courses or any lower-division course listed above that has not been previously completed.

Elective Requirements: 10 Credits
- FOR AA DEGREE: One Foreign Language (8.0)
- FOR AA DEGREE: Any course 1000 or higher (2.0)
- FOR AS DEGREE: Any course 1000 or higher (10.0)
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 foreign language.

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 before 1865, and ENGL 2610, British Literature before 1800, or ENGL 2620, British Literature after 1800.

General Education Requirements: 35-36 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)
- or 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)
- HIST 2710 US History since 1877 (3.0)
- HIST 1700 American Civilization (3.0)
- HIST 1740 US Economic History (3.0)
- POLS 1000 Introduction to American Politics (3.0)
- or POLS 1100 American National Government (3.0)

Complete the following:
- 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 (Foreign Language 202G or BA degree, 4 cr)
- Fine Arts Distribution 3.0
- Social/Behavioral Science 3.0

Discipline Core Requirements: 31 Credits
- ENGL 2600 Critical Introduction to Literature before 1865 3.0
- or ENGL 2520 American Literature after 1865 (3.0)
- or ENGL 2810 British Literature before 1800 3.0
- or ENGL 2820 British Literature after 1800 (3.0)
- or ENGL 3000 Critical Introduction to Literature 3.0
- or ENGL 3000 Professional Considerations for the English Major* 1.0
- ENGL 3090 Academic Writing for English Majors 3.0
- or ENGL 3890 Contemporary Critical Approaches to Literature 3.0

Selective Requirements: 35-36 Credits
- FOR BA DEGREE: Complete any courses 1000 level or higher

Emphasis in Creative Writing 18 Credits

Emphasis Requirements: 18 Credits

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 Studies in Literary Genres 3.0

Complete TWO from the following:
- ENGL 4420 Advanced Fiction Writing (3.0)
- ENGL 4430 Play Writing for Creative Writers (3.0)
- ENGL 4440 Advanced Poetry Writing (3.0)
- ENGL 4450 Advanced Creative Nonfiction Writing (3.0)

Emphasis in Literary Studies 18 Credits

Emphasis Requirements: 18 Credits

American Literature (complete TWO from the following):
- ENGL 3510 Early American Literature (3.0)
- ENGL 3520 Literature of the American Renaissance (3.0)
- ENGL 3525 American Literary Realism and Naturalism (3.0)
- ENGL 3530 Modern American Literature (3.0)
- ENGL 3540 Contemporary American Literature (3.0)
- British Literature, pre-1800 (complete ONE from 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)
- British Literature, post-1800 (complete ONE of the following):
- ENGL 3650 Romantic British Literature (3.0)
- ENGL 3655 Victorian British Literature (3.0)
- ENGL 3660 Modern British Literature (3.0)

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.

Secondary Education Matriculation 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: 35-36 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)
- or MATH 1050 College Algebra 4.0

Complete one of the following:
- HIST 2710 US History to 1877 (3.0)
- HIST 1740 US Economic History (3.0)
- or POLS 1000 Introduction to American Politics (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 3.0
- Physical Science 3.0
- Additional Biology or Physical Science 3.0
- Humanities Distribution (Foreign Language 202G or BA degree, 4 cr)
- Fine Arts Distribution 3.0
- Social/Behavioral Science 3.0

Discipline Core Requirements: 74 Credits

Complete the following:
- ENGL 2600 Critical Introduction to Literature 3.0
- or ENGL 2520 American Literature after 1865 (3.0)
- or ENGL 2610 British Literature before 1800 (3.0)
- or ENGL 2620 British Literature after 1800 (3.0)
- or ENGL 3890 Contemporary Critical Approaches to Literature 3.0
- or ENGL 3900 Academic Writing for English Majors 3.0
- ENGL 4210 Methods in Teaching Literacy I 3.0
- ENGL 4220 Methods in Teaching Literacy II 3.0
- ENGL 4230 Methods in Teaching Literacy III Teaching the Conventions of Writing 3.0

Language Core (complete ONE from the following):
- ENGL 3010 Rhetorical Theory (3.0)
- ENGL 3020 Modern English Grammar (3.0)
- ENGL 3040 History of the English Language (3.0)

American Literature (complete TWO from the following):
- ENGL 3510 Early American Literature (3.0)
- ENGL 3520 Literature of the American Renaissance (3.0)
- ENGL 3525 American Literary Realism and Naturalism (3.0)
- ENGL 3530 Modern American Literature (3.0)
- ENGL 3540 Contemporary American Literature (3.0)

British Literature, pre-1800 (complete ONE from 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)

British Literature, post-1800 (complete ONE from the following):
- ENGL 3650 Romantic British Literature (3.0)
- ENGL 3655 Victorian British Literature (3.0)
- ENGL 3660 Modern British Literature (3.0)
- ENGL 3670 Contemporary British Literature (3.0)
- ENGL 3740 Shakespeare (Complete the following):
- ENGL 463R Topics in Shakespeare (3.0)
- ENGL 357G Native American Literature (3.0)
- ENGL 3710 Literature by Women (3.0)
- ENGL 373R Literature of Cultures and Places (3.0)
- ENGL 374G Literature of the Sacred (3.0)
- ENGL 375G World Literature (3.0)
- ENGL 376G Mormon Literature (3.0)
- ENGL 3820 History of Literary Criticism (3.0)
- ENGL 4570 Studies in the American Novel (3.0)
- ENGL 4620 Chaucer (3.0)
- ENGL 4640 Milton (3.0)
- ENGL 471R Eminent Authors (3.0)
- ENGL 476G Multi-ethnic Literature in America (3.0)
- ENGL 486R Topics in Literature (3.0)
English and Literature

- ENGL 3670 Contemporary British Literature (3.0)
  Complete TWO from the following:
  - ENGL 3420 Intermediate Fiction Writing (3.0)
  - ENGL 3440 Intermediate Poetry Writing (3.0)
  - ENGL 3710 Literature by Women (3.0)
  - ENGL 373R Literature of Cultures and Places (3.0)
  - ENGL 374G Literature of the Sacred (3.0)
  - ENGL 376G World Literature (3.0)
  - ENGL 3780 Mormon Literature (3.0)
  - ENGL 3820 History of Literary Criticism (3.0)
  - ENGL 4010 Studies in Language (3.0)
  - ENGL 412R Stuart British Literature (3.0)
  - ENGL 4350 Rhetorical Theory (3.0)
  - ENGL 471R Eminent Authors (3.0)
  - ENGL 481R Shakespeare (1.0)
  - ENGL 490R Directed Readings (1.0)

Graduation Requirements:

1. Complete all courses with no grade lower than a C-

Minor in English Education 18 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 before 1865; and ENGL 2610, British Literature before 1800, or ENGL 2620, British Literature after 1800.
2. Must be accepted into a Secondary Education major.

Discipline Core Requirements: 18 Credits

- 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 2620 American Introduction to Literature (3.0)

Complete the following:
- ENGL 3890 Contemporary Critical Approaches (3.0)
- ENGL 4210 Methods in Teaching Literary (3.0)
- ENGL 4220 Methods in Teaching Literary II (3.0)

Choose one from the following:
- ENGL 3010 Rhetorical Theory (3.0)
- ENGL 3020 Modern English Grammars (3.0)
- ENGL 3040 History of the English Language (3.0)

Complete one from the following:
- ENGL 3510 Early American Literature (3.0)
- ENGL 3520 Literature of the American Renaissance (3.0)
- ENGL 3525 American Literary Realism and Naturalism (3.0)
- ENGL 3530 Modern American Literature (3.0)
- ENGL 3540 Contemporary American Literature (3.0)

Complete one from 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 3650 Romantic British Literature (3.0)
- ENGL 3660 Victorian British Literature (3.0)
- ENGL 3670 Contemporary British Literature (3.0)

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.
2. Completion of an Associate in Science or an Associate of Arts degree: Minimum grade of "C" in all courses.
3. Admitted to a bachelor degree program at UVU.

Discipline Core Requirements: 20 Credits

Complete the following:
- ENGL 2600 Critical Introduction to Literature (3.0)
- ENGL 3010 Rhetorical Theory (3.0)
- ENGL 4010 Studies in Language (3.0)
- ENGL 4310 Advanced Technical Communication (3.0)

Complete FOUR courses from the following:
- ENGL 3050 Advanced Editing and Design for Print Media (3.0)
- ENGL 3320 Grant and Proposal Writing (3.0)
- ENGL 3340 Designing Electronic Documentation (3.0)
- ENGL 4320 Document Management (4.0)
- ENGL 436R Topics in Technical Communication (3.0)

Capstone Course: Complete ONE of the following:
- 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 3340 Designing Electronic Documentation 3.0
• ENGL 4310 Advanced Technical Communication 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
James Pettersson
Associate Professor
Heidi Condie
Kevin Eyraud
Lecturer
Allison McMurtrey
Madeline Quayle
Timothy Hall

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 of Basic Composition/English as a Second Language (ESL)

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: Leigh Ann Copas
Office: LI 208
Telephone: 801-863-8099

Learning Assistance: Pat Nelson
Office: LC 405q
Telephone: 801-863-7418

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.

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 and Outdoor Recreation

Department Chair: Jason V. Slack
Office: PE 147k
Telephone: 801-863-7488
E-mail: slackja@uvu.edu

Advisor: Steven Namanny
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Telephone: 801-863-7456
E-mail: namanny@uvu.edu

Exercise Science Coordinator: Jason V. Slack
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Telephone: 801-863-7488
E-mail: slackja@uvu.edu

Program Coordinator and Advisor, PETE:
Shauna McGhie
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Telephone: 801-863-8663
E-mail: mcghiea@uvu.edu

Program Coordinator, Recreation Management:
Betsy Lindley
Office: PE 147g
Telephone: 801-863-6094
E-mail: lindlebe@uvu.edu

Faculty:

Professor
Shauna McGhie
M. Vinson Miner
Thomas M. Perkins

Associate Professor
Kemal Makasci
Jason V. Slack

Assistant Professor
Michael Bohne
Bret Boyer
Andrew Creer
Betsy Lindley

Instructor
Scott Williams

Lecturer
Clay Anderson

Risk Manager:
Garth Tino

Administrative Assistant:
Shauna Roberts

College of Science and Health
Dean: Sam Rushforth
Office: PS 201a
Telephone: 801-863-8980

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 Physical Education and Recreation with emphases in Exercise Science (PES), and Outdoor Recreation Management (REC) provide a broad discipline approach for optimal promotion of physical activity, recreation, fitness, health, wellness, and quality of life for all. These programs are complemented with opportunities for baccalaureate-level study in Integrated Studies with areas of emphasis in both Physical Education and Recreation. 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
• Coaching

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 Physical Education with a choice of emphasis in Exercise Science or Outdoor Recreation Management. 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, and coaching. 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 Management 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 Management teaches leadership for life because graduates exit the program with enhanced personal responsibility and confident 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 Outdoor Recreation a minor in Physical Education 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 Physical Education as well as exposure to teaching Physical Education and/or coaching in the public schools.

AA/AS Pre Major in Physical Education/Recreation

General Education Requirements: 60-61 Credits

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<td>or ENGL 2010 Intermediate Writing—Science and Technology (3.0)</td>
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Exercise Science and Outdoor Recreation

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 (3.0)
- 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)
- CHEM 1110 General Chemistry (3.0)
- CHEM 1210 Elementary Chemistry for the Behavioral Sciences (3.0)
- MATH 1040 College Algebra (recommended for Social Science majors) (3.0)
- MATH 2040 Outdoor Leadership (4.0)
- PES 3500 Statistics for the Behavioral Sciences (3.0)

Discipline Core Requirements: 17 Credits
- PES 2700 Foundations of Physical Education (3.0)
- OR REC 2200 Foundations of Recreation (3.0)
- PES 3500 Kinesiology (3.0)
- PES 3550 Motor Learning and Development (3.0)
- PES 3750 Psychosocial Aspects of Human Performance (3.0)
- PES 3850 Ethical Concerns in Physical Education (3.0)
- OR REC 3850 Ethical Concerns in Recreation (3.0)
- PES 4300 Research Methods in Physical Education and Recreation (3.0)

Emphasis:
Complete one of the following: 5.0
- Exercise Science
- Outdoor Recreation Management

Elective Requirements: 14 Credits
- Complete 12 credit hours of course work from one language to include the 1010, 1020, and 2010 levels (202G course level in GE requirements).
- Any one language course approved by department (maximum of 2 hours)

Graduation Requirements: 9-10 Credits
- FOR AS DEGREE: Any course 1000 or higher
- FOR AA DEGREE: One Foreign Language
- FOR AA DEGREE: Any 1000-level course or higher

Graduation Requirements:
1. Completion of a minimum of 60-61 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.

Footnote:
* Recommended for PE Teacher Education Majors

BA in Physical Education and Recreation 120 Credits

General Education Requirements: 37 Credits
- ENGL 1010 Introduction to Writing (3.0)
- ENGL 1020 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: 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:
- PHIL 2050 Ethics and Values (3.0)
- HLTH 1100 Personal Health and Wellness (2.0)
- OR PES 1097 Fitness for Life (required for the Exercise Science emphasis)

Emphasis in Exercise Science 52 Credits

Emphasis Requirements: 42 Credits
- CHEM 1110 Elementary Chemistry for the Health Sciences (3.0)
- CHEM 1210 General Chemistry (3.0)
- ZOOL 2230 Human Anatomy (4.0)
- ZOOL 2420 Human Physiology (4.0)
- PES 2500 Sports Medicine (3.0)
- PES 2510 Sports Medicine Lab (1.0)
- PES 2400 Sports Injuries (2.0) *
- PETE 2100 Skill Analysis I (3.0)
- PETE 2200 Skill Analysis II (3.0) *
- PETE 2300 Skill Analysis III (3.0) *
- Any PES or PETE courses approved by department (maximum of 2 hours)

Emphasis Elective Requirements: 10 Credits
- Any course 1000-level or higher

Emphasis in Outdoor Recreation Management 53 Credits

Emphasis Requirements: 53 Credits
- REC 1535 Backpacking (2.0)
- REC 1542 Wilderness First Responder (2.0)
- REC 2400 Principles of Experiential Education in Recreation (3.0)

Discipline Core Requirements: 17 Credits
- PES 2700 Foundations of Physical Education (3.0)
- OR REC 2200 Foundations of Recreation (3.0)
- PES 3500 Kinesiology (3.0)
- PES 3550 Motor Learning and Development (3.0)
- PES 3750 Psychosocial Aspects of Human Performance (3.0)
- PES 3850 Ethical Concerns in Physical Education (3.0)
- OR REC 3850 Ethical Concerns in Recreation (3.0)

BS in Physical Education and Recreation 120 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)
- MATH 1100 General Biology (3.0)

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:
- PHIL 2050 Ethics and Values (3.0)
- HLTH 1100 Personal Health and Wellness (2.0)
- OR PES 1097 Fitness for Life (required for the Exercise Science emphasis)
**Exercise Science and Outdoor Recreation**

- **PETE 4260** Secondary Physical Education 1.0
- **PETE 4400** Assessment in Physical Education 3.0
- **PETE 4900** Student Teaching Seminar 2.0

**Secondary Education Courses:**

- **EDSC 2450** Development of the Adolescent Student 2.0
- **EDSC 3000** Educational Psychology 3.0
- **EDSC 3505** Foundations of American Education 2.0
- **EDSC 3526** 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 4445G** Multicultural Instruction ESOL 2.0
- **EDSC 4550** Secondary Curriculum Instruction 4.0 and Assessment
- **EDSC 4850** Student Teaching—Secondary (4.0) 8.0
- **EDSP 3400** Exceptional Students 2.0

**Elective Requirements:** 8 Credits

- Any 1000-level or higher 8.0

**Graduation Requirements:**

- Completion of a minimum of 123 semester credits.
- Overall grade point average of 2.0 or above, with no grades below C in Core or Education courses.
- 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.
- 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 list, see page 25.

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**Minor in Outdoor Recreation 20 Credits**

**Matriculation Requirements:**

- 1 Admitted to a bachelor degree program at UVU.
- **EDSC 2200** Foundations of Recreation 3.0
- **REC 2400** Principles of Experiential Education 3.0 and Recreation
- **REC 3100** Recreation Program Planning 3.0
- **REC 3400** Risk Management 3.0
- Complete 2 credits from the following: 2.0
  - **REC 1500** Canoeing I (2.0)
  - **REC 1505** Whitewater Kayaking I (2.0)
  - **REC 1516** Ropes Course and Teambuilding (2.0)
  - **REC 1521** Indoor Rock Climbing I (2.0)
  - **REC 1525** Mountaineering (2.0)
  - **REC 1527** Rock Climbing I (2.0)
  - **REC 1528** Rock Climbing II (2.0)
  - **REC 1522** Indoor Rock Climbing II (2.0)
  - **REC 1550** Mountain Biking (2.0)
  - **REC 2010** Avalanche Awareness (2.0)

**Discipline Core Requirements:**

- **PETE 2100** Skill Analysis I 3.0
- **PETE 2300** Skill Analysis II 3.0
- **PETE 2400** Skill Analysis Capstone 3.0
- **PETE 3100** Physical Education Pedagogy 3.0
- **PETE 4200** Methods of Teaching Elementary Physical Education 3.0
- **PETE 4210** Elementary Physical Education Field Experience 3.0
- **PETE 4250** Methods of Teaching Secondary Physical Education 3.0

**Minor in Physical Education 24 Credits**

**Discipline Core Requirements:**

- **PETE 2100** Skill Analysis I 3.0
- **PETE 2200** Assessment in Physical Education 3.0
- **PETE 4900** Student Teaching Seminar 2.0
- **PETE 4260** Secondary Physical Education 1.0
- **PETE 3220** Teaching and Coaching Basketball (2.0)
- **PETE 3230** Teaching and Coaching Football (2.0)
Exercise Science and Outdoor Recreation

- 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 Physical Education  18 Credits
Emphasis Requirements:  18 Credits

Physical Education Emphasis
Complete the following:
- PES 2700  Foundations of Physical Education  3.0
- PES 3270  Methods of Teaching Fitness  3.0
- PES 3500  Kinesiology  3.0
- PES 3700  Exercise Physiology  4.0
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 PES course 2050 or higher

See Course Descriptions section of the catalog for detailed course information. This department manages the following course prefixes:
- 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 Whimpey, 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:
• providing environmental control such as: heating and cooling, air quality and lighting
• maintaining buildings and grounds
• approving changes in existing structures and approving plans for new facilities
• supervising personnel

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 68 CREDITS
General Education Requirements: 18 Credits
• ENGL 1010 Introduction to Writing 3.0
• EGDT 1600 Technical Math – Algebra (MATH 1040 required for BS in Technology Management) 3.0
• SOC 1010 Introduction to Sociology 3.0
• PHIL 2050 Ethics and Values 3.0
• PHYS 1010 Elementary Physics (Highly recommended for Biology/Physical Science) 3.0
• ENVT 1200 Environmental Worker Safety 3.0

Discipline Core Requirements: 50 Credits
• BCCM 1120 Blueprint Reading 2.0
• BCCM 1170 Principles of Mechanical Electrical and Plumbing Design 2.0
• 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
• FAC 1010 Survey of Facilities Management 3.0
• FAC 281R Cooperative Work Experience 8.0
• FAC 285R Cooperative Correlated Class (Must be repeated) 2.0
• MGMT 2200 Business Communications 3.0

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).
3. Residency hours: minimum of 20 credit hours through course attendance at UVU.

Footnotes:
* Must be completed with a grade of C- or higher

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 290R 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

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 Technology
- BIT, Building Inspection Technology
- CAW, Cabinetry and Architectural Woodworking
- FAC, Facilities Management
- LINE, Lineman Technology
- WELD, Welding Technology
Finance and Economics

Department Chair: Lowell M. Glenn
Office: WB 215
Telephone: 801-863-8385
E-mail: Lowell.Glenn@uvu.edu

Faculty:

Professor
Norman D. Gardner
Reed Gooch
Ian Wilson

Associate Professor
Lynn Adams
Vaughn S. Armstrong
Lowell M. Glenn
Faridul Iisan
Amir Kia
Abdus Samad

Assistant Professor
Cenk Caliskan
Leo Chan

Woodbury School of Business:

Dean: Norman S. Wright
Office: WB 128b
Telephone: 801-863-8260
E-mail: TBD

The department offers two baccalaureate degree programs the first in Economics and the Second in Finance. Graduates in economics find employment in a variety of public and private institutions while many go on to graduate education in law, public policy, MBA and other disciplines. The Finance degree expands on the emphasis in finance and banking that was formerly a part of the business management degree. Finance majors move on to careers in corporate financial management, as investment managers and analysts, banking and other careers in the finance industry. The business world is more competitive today than in past generations. Decision makers understand the increasing importance of getting things right the first time using business models and measurement methods to make policy decisions. The 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 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.

PROGRAMS
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.

BS in Business Management with an Emphasis in Finance and Banking 123 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)
- or 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)
- 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: 3.0
- PHIL 2050 Ethics and Values
- HLTH 1100 Personal Health and Wellness (2.0)
- or TES 1097 Fitness for Life 2.0

Distribution Courses: 3.0
- ECON 2020 Macroeconomics * (fulfills Social/ Behavioral Science credit)
- or BIO 1100 Principles of Biology
- or PHYS 1100 Principles of Physics
- or Additional Biology or Physical Science
- or Humanities Distribution
- or Fine Arts Distribution

Discipline Core Requirements: 50 Credits

Business Foundation Courses: 3.0
- ACC 2010 Financial Accounting
- ACC 2020 Managerial Accounting
- or Business Computer Proficiency Exam **
- or DGM 2010 Business Computer Proficiency Exam
- or DGM 2020 Business Computer Proficiency Exam
- or MATH 1100 Introduction to Calculus
- or MGMT 2200 Business Communications *
- or ECON 2010 Microeconomics
- or MGMT 2340 Business Statistics I
- or MGMT 2390 Effective Business Presentations

Business Core Courses: 1.0
- INFO 3120 Principles of Information Systems-- A Managerial Approach
- or LESL 3000 Business Law
- or MGMT 3010 Principles of Management
- or MGMT 3100 Principles of Finance*
- or MGMT 3450 Operations Management*
- or MGMT 3660 Principles of Marketing
- or MGMT 3890 Career Preparation
- or MGMT 4830 Strategic Management
- or MGMT 4830 Strategic Management Capstone
- or MGMT 493R Entrepreneurship Lecture Series (1.0)

Emphasis Requirements: 15 Credits
- MGMT 330G Survey of International Business 3.0
- or MGMT 3150 Financial Management 3.0
- or MGMT 3400 Investment Management 3.0
- or MGMT 4100 Management of Financial Institutions
- or ECON 3020 Intermediate Microeconomics 3.0

Emphasis Elective Requirements: 12 Credits
Select 12 credits from the following list: 12.0
- ECON 4150 Public Finance
- or MGMT 4160 Portfolio Management
- or MGMT 4170 Derivative Securities
- or MGMT 4180 International Finance Management
- or MGMT 4400 New Venture Financing
- or MGMT 457R Advanced Topics in Finance
- or Any Accounting Course Numbered 3010 or higher

E elective Requirements: 10 Credits
Select at least 10 credits of General Education courses 10.0

Graduation Requirements:
1. Completion of a minimum of 123 semester credits required in the BS degree; at least 40 credit hours must be upper-division courses.
2. Overall grade point average 2.0 or above with a minimum of 2.5 GPA in all Woodbury School of Business courses. No grade lower than a "C-" in core and specialization courses.
3. Residency hours: Minimum of 30 credit hours of business courses through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.
5. 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 J. For a complete listing, see page 25.

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

BA in Economics 123 Credits

General Education Requirements: 37 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)
- or 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)
- 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: 3.0
- PHIL 2050 Ethics and Values
- HLTH 1100 Personal Health and Wellness (2.0)
- or TES 1097 Fitness for Life 2.0

Distribution Courses: 3.0
- ECON 2020 Macroeconomics (fulfills Social/ Behavioral Science credit)
- or BIO 1100 Principles of Biology
- or PHYS 1100 Principles of Physics
- or Additional Biology or Physical Science
- or Humanities Distribution
- or Fine Arts Distribution

Discipline Core Requirements: 74 Credits

Business Foundation Courses: 3.0
- ACC 2010 Financial Accounting (3.0)
- or ACC 2020 Managerial Accounting (3.0)
- or ACC 2030 Principles of Accounting 6.0

* or MGMT 493R Executive Lecture Series
### Finance and Economics

**BS in Economics**

**120 Credits**

**General Education Requirements:** 36 Credits

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**BA in Finance**

**123 Credits**

**General Education Requirements:** 37 Credits

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**Business Core Courses:** 74 Credits

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**BS in Finance**

**120 Credits**

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Finance and Economics

- POLS 1100 American National Government (3.0)
- ECON 3030 Mathematical Economics (3.0)
- ECON 3820 Economic Development (3.0)
- FIN 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)

Minor in Finance 18 CREDITS

Discipline Core Requirements: 12 Credits
- ECON 2010 Microeconomics 3.0
- ECON 2020 Macroeconomics 3.0
- ECON 3340 Managerial Statistics 3.0
- FIN 3100 Financial Management 3.0
- ECON 3830 History of Economic Thought 3.0

Elective Requirements: 6 Credits
Choose nine hours from the following courses
- FIN 3150 Financial Management (3.0)
- FIN 3400 Investment Management (3.0)
- FIN 4100 Management of Financial Institutions (3.0)
- FIN 4160 Portfolio Management (3.0)
- FIN 4170 Derivative Securities (3.0)
- FIN 4180 International Finance Management (3.0)

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 3340 Managerial Statistics 3.0
- FIN 3100 Financial Management 3.0
- ECON 3830 History of Economic Thought 3.0

Elective Requirements: 6 Credits
Choose six hours from the following courses
- ECON 3330 Intermediate Microeconomics (3.0)
- ECON 3340 Intermediate Macroeconomics (3.0)
- ECON 3810 Labor Economics (3.0)
- ECON 3820 Economic Development (3.0)
- FIN 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
- ECON 3340 Managerial Statistics 3.0
- ECON 3830 History of Economic Thought 3.0

Elective Requirements: 9 Credits
Choose nine hours from the following courses
- FIN 3150 Financial Management (3.0)
- FIN 3400 Investment Management (3.0)
- FIN 4100 Management of Financial Institutions (3.0)
- FIN 4160 Portfolio Management (3.0)
- FIN 4170 Derivative Securities (3.0)
- FIN 4180 International Finance Management (3.0)

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

### AA/AS Pre Major in History and Political Science - 62 Credits

**General Education Requirements:**
- **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 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 Government (3.0)

**Distribution Courses:**
- **Biology** (3.0)
- **Physical Science** (3.0)
- **Additional Biology or Physical Science** (3.0)
- **Humanities Distribution** (Fulfilled by completing four semesters of one foreign language)
- **Social/Behavioral Science** (3.0)
- **Additional Biology or Physical Science** (recommended for Social Science students completing a bachelor degree following the 2008 or later catalog)

**Elective Requirements:**
- Complete any 12 hours of one Foreign Language.
- Complete additional 12 hours of one Foreign Language.

**Graduation Requirements:**
1. Completion of a minimum of 120 credits, 40 of which must be 2000 level or higher.
2. Minimum UVU GPA of 2.0 upon graduation, with no HIST course grade below a C-.
3. Completion of four semesters of one foreign language.
4. Complete one of the two tracks in the Areas of Study requirements.
5. Comply with the catalog’s rule on maximum number of years in the program.
6. Minimum of 30 credits must be taken at UVU (at least 10 of which must be part of the final 45 credits earned).
7. 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.

**Course Requirements:**
- Complete the following:
  - **HIST 2720** 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)
  - **POLS 1100** American National Government (3.0)

**Distribution Courses:**
- **Biology** (3.0)
- **Physical Science** (3.0)
- **Additional Biology or Physical Science** (3.0)
- **Humanities Distribution** (Fulfilled by completing four semesters of one foreign language)
- **Social/Behavioral Science** (3.0)
- **Additional Biology or Physical Science** (recommended for Social Science students completing a bachelor degree following the 2008 or later catalog)

**Elective Requirements:**
- Complete any three upper-division history courses numbered 1000 or higher

**Emphasis:**
- Complete 15 credits from one of the two tracks in the Areas of Study requirements.

**BA in History - 120 Credits**

**General Education Requirements:**
- **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 (3.0)
- **MATH 1040** Introduction to Statistics (3.0)
- **MATH 1050** College Algebra (4.0)

Complete one of the following:
- **HIST 1700** American Civilization (3.0)
- **HIST 1740** US Economic History (3.0)
- **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** (Fulfilled by completing four semesters of one foreign language)
- **Social/Behavioral Science** (3.0)
- **Additional Biology or Physical Science** (recommended for Social Science students completing a bachelor degree following the 2008 or later catalog)

**Discipline Core Requirements:**
- Complete any three upper-division history courses numbered 1000 or higher

**Emphasis Requirements:**
- Complete 36 credits from one of the following emphases:
  - United States History
  - European History
  - Latin American History

**Emphasis in General History - 30 Credits**

**Emphasis Requirements:**
- **HIST 3010** The Nature of History (3.0)
- **HIST 4990** Senior Research Thesis Research Component (3.0)
- **HIST 4990** Senior Research Thesis-Writing Component (3.0)

**Emphasis Elective Requirements:**
- Complete 21 credits from one of the following:
  - United States History
  - European History
  - Latin American History
Emphasis in Public History 27 Credits

Emphasis Requirements: 9 Credits:
- HIST 302G Introduction to Public History
- HIST 400R History Practicum
- HIST 482R Public History Internship

Emphasis Elective Requirements: 18 Credits

Complete any other upper-division history courses 9.0
Complete at least three of the following courses in U.S. History 9.0
- HIST 320G Women in American History to 1870 (3.0)
- HIST 321G Women in American History since 1870 (3.0)
- HIST 326G History of Utah (3.0)
- HIST 346G US Military History (3.0)
- HIST 352G The United States and Vietnam—1945 to Present (3.0)
- HIST 373G American Origins to 1790 (3.0)
- HIST 373L United States History 1790-1890 (3.0)
- HIST 373R United States History 1890-1945 (3.0)
- HIST 373W United States History since 1945 (3.0)
- HIST 380Q Environmental History of the United States (3.0)
- HIST 381Q Precolumbian America (3.0)
- HIST 383Q Indians of the Great Plains (3.0)
- HIST 385Q The Struggle for Self-determination—American Indians 1891-present (3.0)
- HIST 387G Constitutional History to Plessy 1896 (3.0)
- HIST 388W Constitutional History since Plessy 1896 (3.0)
- HIST 460Q Contemporary American Indian Political and Social Issues (3.0)
- HIST 462Q History of the American West (3.0)

American Revolution (3.0)
- HIST 470G American Revolution (3.0)
- HIST 475G Civil War/Reconstruction (3.0)

Footnotes:
- HIST 482R is a variable credit course. Students concentrating in Public History should arrange for internship experiences that are the equivalent of at least three credit hours.

BS in History Education 12 Credits

Matriculation 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 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
- or 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)
- POLS 1000 American Heritage (3.0)
- POLS 1100 American National Government (3.0)

Complete the following:
- PHIL 205Q Ethics and Values 3.0
- HLTH 1100 Personal Health and Wellness (2.0)
- or PES 102Q 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
- ENGL 251Q American Literature before 1865 (3.0)
- or ENGL 252Q British Literature after 1865 (3.0)
- or ENGL 254Q British Literature before 1800 (3.0)
- or ENGL 262Q British Literature after 1800 (3.0)
- Fine Arts Distribution 3.0
- Social/Behavioral Science 3.0
- or POLS 110Q Introduction to Political Science (3.0)
- or POLS 220Q Introduction to Comparative Politics (3.0)
- or POLS 210Q 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 150Q World History to 1500 3.0
- HIST 151Q World History from 1500 to the Present 3.0
- HIST 270Q US History since 1877 3.0
- HIST 271Q US History since 1877 3.0
- HIST 301Q The Nature of History 3.0
- HIST 326Q History of Utah 3.0
- HIST 425Q Teaching History in the Secondary Classroom 3.0

Professional Education Courses:
- EDUC 2540 Development of the Adolescent Student 3.0
- EDUC 300Q Educational Psychology 3.0
- EDUC 307Q Foundations of American Education 2.0
- EDUC 325Q Classroom Management II 2.0
- EDUC 444Q Content Area Reading and Writing 3.0
- EDUC 445Q Multicultural Instruction ESL 2.0
- EDUC 455Q Secondary Curriculum Instruction 4.0
- EDUC 485Q Student Teaching—Secondary (4.0) 8.0
- EDSP 430Q Exceptional Students 2.0

Choose one course from each of the following five AREAS OF STUDY**: United States
- HIST 320G Women in American History to 1870 (3.0)

** 12 Credits

Graduation Requirements:
1. Completion of a minimum of 122 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.
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.

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 4860 and HIST 4990. 9.0

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: 3.0
• HIST 3010 The Nature of History (3.0)
or
• HIST 3260 History of Utah (3.0)
or
See Advisor Complete an additional 15 credits from any HIST course 3000 or higher (see advisor) 15.0

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 Social Sciences 18 Credits
Emphasis Requirements: 18 Credits
Complete 3 credits from the following courses: 3.0
• 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: 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)

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: 801-863-6265  
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

- 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 3.40 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 classes 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.

**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: Scott Hammond
Office: WB 243
Telephone: 801-863-7183
E-mail: hammonsc@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: TBD

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 25 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 (the only CAHM accredited program in the state of Utah); Associate in Science Degree; and Bachelor of Science Degree in Hospitality Management.

AAS in Hospitality Management 65 CREDITS

General Education Requirements: 20 Credits
ENGLISH
• ENGL 1010 Introduction to Writing 3.0
• ENGL 2010 Intermediate Writing—Humanities/ Social Sciences 3.0

MATHEMATICS
• MAT 1010 Intermediate Algebra 4.0
or Any higher 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

Discipline Core Requirements: 39 Credits
• HM 1010 Introduction to Hospitality Industry 3.0
• HM 1110 Food Production Principles 3.0
• HM 1130 Hotel Operations I 3.0
• HM 1180 Food and Beverage Management 3.0
• HM 281R Cooperative Work Experience (2.0) 4.0
• HM 3020 Hospitality Managerial Accounting 4.0
• HM 3390 Hotel Operations II 3.0
• HM 3840 Food and Beverage Controls 3.0
• ACC 2010 Financial Accounting 3.0
• DGM 2010 Business Computer Proficiency 3.0
• or Business Computer Efficiency Exam *
• MGMT 2200 Business Communications 3.0
• MGMT 2250 Job Application and Advancement Skills 1.0
• or MGMT 3890 Career Preparation
• ECON 1010 Economics as a Social Science 3.0

Elective Requirements: 6 Credits
• 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 16 credits must be in Woodbury School of Business.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.

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.

AS Pre Major in Hospitality 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 (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

Complete one of the following:
• HIS 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)

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.

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 16 credits must be in Woodbury School of Business.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.

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 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 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)

Completed 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

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.

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 16 credits must be in Woodbury School of Business.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.

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 Hospitality Management 120 Credits

General Education Requirements: 38 Credits

- ENGL 1010 Introduction to Writing 3.0
- ENGL 2010 Intermediate Writing—Humanities/ Social Sciences 3.0
- MATH 1050 College Algebra 4.0

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
- DGM 2010 Business Computer Proficiency 3.0
- MATH 1100 Introduction to Calculus 4.0
- MGMT 2200 Business Communications * 3.0
- ECON 2010 Microeconomics 3.0
- MGMT 2340 Business Statistics I 3.0
- MGMT 2390 Effective Business Presentations 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 462R Internship (2.0)
- MGMT 2200 Business Communications 3.0
- MGMT 2240 Foundations of Business Statistics 3.0
- MGMT 2250 Job Application and Advancement Skills 3.0
- MGMT 2390 Effective Business Presentations 3.0
- MGMT 3000 Organizational Behavior 3.0
- MGMT 4220 Management Communication 3.0

Discipline Core Requirements: 18 Credits

Emphasis in Hospitality Management 18 Credits

- HM 1110 Food Production Principles (3.0)
- Complete six hours of electives from ACC, ECON, FIN, HM, LEGL, or MGMT courses 3000 level or higher.
- Complete four credits of general education courses

Elective Requirements: 10 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 Business courses. No grade lower than a “C-” in core and specialization courses.
3. Residency hours: Minimum of 30 credit hours of business courses through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.
5. 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: 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. ** Students will be required to complete the Business Computer Proficiency exam with a score of 80 percent or higher. ** Students will be required to complete the Business Computer Proficiency exam with a score of 80 percent or higher. ** Students will be required to complete the Business Computer Proficiency exam with a score of 80 percent or higher. ** Students will be required to complete the Business Computer Proficiency exam with a score of 80 percent or higher.

BS in Hospitality Management 120 Credits

General Education Requirements: 38 Credits

- ENGL 1010 Introduction to Writing 3.0
- ENGL 2010 Intermediate Writing—Humanities/ Social Sciences 3.0
- MATH 1050 College Algebra 4.0

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
- DGM 2010 Business Computer Proficiency 3.0
- MATH 1100 Introduction to Calculus 4.0
- MGMT 2200 Business Communications * 3.0
- ECON 2010 Microeconomics 3.0
- MGMT 2340 Business Statistics I 3.0
- MGMT 2390 Effective Business Presentations 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 462R Internship (2.0)
- MGMT 2200 Business Communications 3.0
- MGMT 2240 Foundations of Business Statistics 3.0
- MGMT 2250 Job Application and Advancement Skills 3.0
- MGMT 2390 Effective Business Presentations 3.0
- MGMT 3000 Organizational Behavior 3.0
- MGMT 4220 Management Communication 3.0

Discipline Core Requirements: 18 Credits

Emphasis in Hospitality Management 18 Credits

- HM 1110 Food Production Principles (3.0)
- Complete six hours of electives from ACC, ECON, FIN, HM, LEGL, or MGMT courses 3000 level or higher.
- Complete four credits of general education courses

Elective Requirements: 10 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 Business courses. No grade lower than a “C-” in core and specialization courses.
3. Residency hours: Minimum of 30 credit hours of business courses through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.
5. 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: 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. ** Students will be required to complete the Business Computer Proficiency exam with a score of 80 percent or higher. ** Students will be required to complete the Business Computer Proficiency exam with a score of 80 percent or higher. ** Students will be required to complete the Business Computer Proficiency exam with a score of 80 percent or higher. ** Students will be required to complete the Business Computer Proficiency exam 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 Hospitality Management 18 Credits

- HM 1130 Hotel Operations I 3.0
- HM 3390 Hotel Operations II 3.0

Complete 12 credits from the following: 12.0

- HM 3020 Hospitality Managerial Accounting (4.0)
- HM 3050 Country Club Management (3.0)
- HM 3150 Hospitality Finance (3.0)
- HM 3200 Global Tourism (3.0)
- HM 3640 Food and Beverage Controls (3.0)
- HM 3710 Marketing of Hospitality Services (3.0)
- HM 4550 Hospitality Industry Management (3.0)
- LEGL 3100 Hospitality Law (3.0)

Note: A minimum of 2.5 GPA in all Woodbury School of Business courses, and no grade lower than a C- required for graduation.

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

- HM, Hospitality Management
- MGMT, Business Management
Humanities

Department of Philosophy and Humanities

Department Chair: Michael Minch
Office: LA 121h
Telephone: 801-863-7482

Department Office: LA 121
Department Telephone: 801-863-8352

Director of Humanities: Michaela Giesenkirchen Sawyer
Office: LA 121w
Telephone: 801-863-6304

Faculty:
Professor
Scott Abbott
Associate Professor
Nancy Rushforth
Assistant Professor
Michaela Giesenkirchen Sawyer
Artist/Pro 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

<table>
<thead>
<tr>
<th>General Education Requirements: 35 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010 Introduction to Writing (3.0)</td>
</tr>
<tr>
<td>ENGL 2010 Intermediate Writing—Humanities/ Social Sciences (3.0)</td>
</tr>
<tr>
<td>or ENGL 2020 Intermediate Writing—Science and Technology (3.0)</td>
</tr>
<tr>
<td>Complete one of the following:</td>
</tr>
<tr>
<td>MATH 1030 Quantitative Reasoning (3.0)</td>
</tr>
<tr>
<td>MATH 1040 Introduction to Statistics (3.0)</td>
</tr>
<tr>
<td>MATH 1050 College Algebra (4.0)</td>
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<td>Complete one of the following:</td>
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<tr>
<td>HIST 2700 US History to 1877 (3.0)</td>
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<td>and HIST 2710 US History since 1877 (3.0)</td>
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<td>HIST 1740 US Economic History (3.0)</td>
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<td>POLS 1000 American Heritage (3.0)</td>
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<tr>
<td>or 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>
</tr>
<tr>
<td>or PES 1097 Fitness for Life (2.0)</td>
</tr>
</tbody>
</table>

**Distribution Courses**
- Biology (3.0)

### AS Pre Major in Humanities 62 CREDITS

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<td>and HIST 2710 US History since 1877 (3.0)</td>
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<tr>
<td>or PES 1097 Fitness for Life (2.0)</td>
</tr>
</tbody>
</table>

**Distribution Courses**
- Biology (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 Humanities 18 CREDITS

**Discipline Core Requirements: 9 CREDITS**
- HUM 1010 Humanities Through the Arts (3.0)
- or HUM 101G Humanities Through the Arts (3.0)
- HUM 101H Humanities Through the Arts (3.0)

**Elective Requirements: 9 CREDITS**
- Students must complete 9 credits from the following:
  - HUM 1010 Humanities Through the Arts (3.0)
  - HUM 101G Humanities Through the Arts (3.0)
  - HUM 101H Humanities Through the Arts (3.0)
  - HUM 2010 Arts in Humanities Traditions I (3.0)
  - or HUM 201G Arts in Humanities Traditions I (3.0)
  - HUM 201H Arts in Humanities Traditions I (3.0)
  - HUM 2020 Arts in Humanities Traditions II (3.0)
  - or HUM 202G Arts in Humanities Traditions II (3.0)
  - HUM 320R Topics in Humanities (1.0) *
  - Complete 9 credits from the following: AVC, ENGL, HUM, MUSC, PHIL, THEA (1000 level or higher)

**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:**
- Overall grade point average of a 2.0 (C) or better
- Admitted to a bachelor degree program at UVU

**Discipline Core Requirements: 9 CREDITS**
- or HUM 101G Arts in Humanities Traditions I (3.0)
- or HUM 201H Arts in Humanities Traditions I (3.0)
- or HUM 202H Arts in Humanities Traditions II (3.0)
- or HUM 3500 Approaches to Humanities (3.0)

**Elective Requirements: 9 CREDITS**
- Students must complete 9 credits from the following:
  - or HUM 320R Topics in Humanities (1.0) *
  - HUM 325R Area Studies in Humanities (3.0)
  - HUM 330R Period Studies in Humanities (3.0)

**Graduation Requirements:**
1. Complete all Humanities courses with a grade of 2.0 (C) or better.

**Footnotes:**
- * Variable credit course

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.

### Catalog 2010–2011 Utah Valley University
• HUM 3800 Introduction to Aesthetics (3.0)
• HUM 4000 Humanism and Posthumanism (3.0)
• HUM 4010 Forms and Genres Across the Arts (3.0)

See Course Descriptions section of the catalog for detailed course information. This department manages the following course prefixes:
- HUM, Humanities
- PHIL, Philosophy
- RLST, Religious Studies
Information Systems and Technology

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College of Technology and Computing
Dean: Ernest Carey
Office: 672 OCEA
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 committee 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 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 three areas of emphasis: Database Administration and Security, Network Administration and Security, and Web Administration and Security. The Database Administration and Security Concentration grooms students for employment as database administrators, data analysts, and enterprise database architects. Students in the Web Administration and Security Concentration pursue careers as Internet developers, IT consultants, enterprise software architects, and web administrators. The Network Administration and Security Concentration enables students to work as data communication consultants, information security analysts, and network administrators.

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 through 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 Administration

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFO 1120</td>
<td>Information Systems and Technology Fundamentals</td>
</tr>
<tr>
<td>INFO 1200</td>
<td>Computer Programming I for IS/IT</td>
</tr>
<tr>
<td>INFO 1420</td>
<td>Computer Architecture and Systems Software</td>
</tr>
<tr>
<td>INFO 1510</td>
<td>UNIX/Linux Operating System</td>
</tr>
<tr>
<td>INFO 2030</td>
<td>Data Communication Fundamentals</td>
</tr>
<tr>
<td>INFO 2050</td>
<td>Database Fundamentals</td>
</tr>
<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
</tr>
<tr>
<td>MAT 1010</td>
<td>Intermediate Algebra</td>
</tr>
<tr>
<td>MGMT 2250</td>
<td>Job Application and Advancement Skills</td>
</tr>
<tr>
<td>MGMT 3890</td>
<td>Career Preparation (2.0)</td>
</tr>
</tbody>
</table>

Elective Requirements: 6 Credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFO 1000</td>
<td>Computer Programming Concepts (3.0)</td>
</tr>
<tr>
<td>INFO 2640</td>
<td>Router Management (3.0)</td>
</tr>
<tr>
<td>INFO 2650</td>
<td>Voice and Data Cabling Fundamentals (3.0)</td>
</tr>
<tr>
<td>INFO 2680</td>
<td>Information Security--Fundamentals (3.0)</td>
</tr>
<tr>
<td>INFO 3030</td>
<td>Networks and Internetworking (3.0)</td>
</tr>
<tr>
<td>INFO 3510</td>
<td>Advanced System Administration--Linux/UNIX (3.0)</td>
</tr>
</tbody>
</table>
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 Distribution course

**SOCIAL AND BEHAVIORAL SCIENCE**
- ECON 2020 Microeconomics (fulfills Social/Behavioral Science) 3.0

**BIOLOGY OR PHYSICAL SCIENCE**
- PHYS 2010 Elementary Physics 3.0

**PHYSICAL EDUCATION/HEALTH/SAFETY OR ENVIRONMENT**
- Any approved Physical Education, Health, Safety or Environment Course

**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):
- ACC 2010 Financial Accounting 3.0
- or ACC 2020 Managerial Accounting or
- or ACC 3000 Financial Managerial 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 1120 Information Systems and Technology Fundamentals 3.0
- INFO 1200 Computer Programming I for IS/IT 3.0
- INFO 1420 Computer Architecture and Systems Software 3.0
- INFO 1510 Introduction to System Administration—Linux/UNIX 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 3030 Networks and Internetworking 3.0
- INFO 3410 Database Systems 3.0
- INFO 3430 Systems Analysis Design and Integration 3.0

**Elective Requirements:** 6 Credits

Choose a minimum of 6 credits from the following:
- INFO 1000 Computer Programming Concepts (3.0)
- INFO 2640 Router Management (3.0)
- INFO 2650 Voice and Data Cabling Fundamentals (3.0)
- INFO 281R Internship (1.0)
- INFO 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)
- INFO 3510 Advanced System Administration—Linux/UNIX (3.0)
- INFO 3620 Advanced System Administration—Windows Server (3.0)
- INFO 3660 Information Security—Network Defense and Countermeasures (3.0)

AS Pre Major in Information Systems and Technology | 61 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:
- HIST 2720 US History to 1877 (3.0)
- HIST 2721 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:** 25 Credits

- MATH 1100 Introduction to Calculus 4.0
- INFO 1120 Information Systems and Technology Fundamentals 3.0
- INFO 1200 Computer Programming I for IS/IT 3.0
- INFO 1420 Computer Architecture and Systems Software 3.0
- INFO 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

**Elective Requirements:** 15 Credits

Select 15 credits from the following:
- INFO 1000 Computer Programming Concepts (3.0)
- INFO 2660 Information Security—Fundamentals (3.0)
- INFO 3030 Networks and Internetworking (3.0)
- INFO 3440 Enterprise Database Development (3.0)
- INFO 3510 Advanced System Administration—Linux/UNIX (3.0)
- INFO 3620 System Administration—Windows (3.0)
- INFO 3630 Advanced System Administration—Windows Server (3.0)
- INFO 3660 Information Security—Network Defense and Countermeasures (3.0)
- INFO 4410 Data Administration (3.0)
- INFO 4420 Web Systems Development II (3.0)
- INFO 4440 Enterprise Computing Environments (3.0)
- INFO 459R Current Topics in Information Systems and Technology (3.0)
- MGMT 3010 Principles of Management (3.0)
- Other approved elective (3.0)

**Graduation Requirements:**
- 1 completion of all prerequisite courses

BS in Information Systems | 122 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:
- HIST 2720 US History to 1877 (3.0)
- HIST 2721 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
- HIST 3010 American History (3.0)

**Distribution Courses:** 15 Credits

- ECON 1200 Microeconomics (fulfills Social/Behavioral Science) 3.0
- BIOL 1010 Biology (fulfills Social/Behavioral Science) 3.0
- PHIL 2050 Ethics and Values 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)

**Elective Requirements:** 45 Credits

Select 45 credits from the following:
- INFO 1000 Computer Programming Concepts (3.0)
- INFO 2660 Information Security—Fundamentals (3.0)
- INFO 3030 Networks and Internetworking (3.0)
- INFO 3440 Enterprise Database Development (3.0)
- INFO 3510 Advanced System Administration—Linux/UNIX (3.0)
- INFO 3620 System Administration—Windows (3.0)
- INFO 3630 Advanced System Administration—Windows Server (3.0)
- INFO 3660 Information Security—Network Defense and Countermeasures (3.0)
- INFO 4410 Data Administration (3.0)
- INFO 4420 Web Systems Development II (3.0)
- INFO 4440 Enterprise Computing Environments (3.0)
- INFO 459R Current Topics in Information Systems and Technology (3.0)
- MGMT 3010 Principles of Management (3.0)
- Other approved elective (3.0)
### BS in Information Technology 124 Credits

**General Education Requirements:** 40 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 2710 US History to 1877 (3.0) and HIST 2720 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 3.0
- Social/Behavioral Science Distribution 3.0
- ENGL 2310 Technical Communication (fulfills a humanities requirement) 3.0
- PHYS 2010 College Physics I (fulfills Physical Science) 4.0
- and PHYS 2015 College Physics I Lab 1.0
- or PHYS 2020 College Physics II (fulfills additional Biology or Physical Science) 4.0
- and PHYS 2025 College Physics II Lab 1.0

**Discipline Core Requirements:** 69 Credits

**Math Requirement:**
- MATH 1100 Introduction to Calculus 4.0
- or INFO 2230 Data and Discrete Structures (3.0)
- or CS 2300 Discrete Structures I 3.0
- or MATH 2440 Principles of Statistics 4.0
- or MGMT 2340 Business Statistics I (3.0)

**IT Core Requirements:**
- INFO 1120 Information Systems and Technology Fundamentals (3.0)
- INFO 1420 Computer Architecture and Systems Software 3.0
- INFO 1510 Introduction to System Administration—Linux/UNIX 3.0
- INFO 2660 Information Security—Fundamentals 3.0
- INFO 301R Digital Lecture Series 1.0
- INFO 3430 Systems Analysis Design and Integration 3.0
- or CS 3410 Human Factors in Software Engineering 3.0
- or DGM 2240 Interaction Design (3.0)

**IT Pillar Courses:**
- INFO 1200 Computer Programming I for IS/IT 3.0
- INFO 2030 Data Communication Fundamentals 3.0
- INFO 2050 Database Fundamentals 3.0
- INFO 2450 Web Application Design 3.0

**Advanced IT Pillar Courses:**
- INFO 2200 Computer Programming II for IS/IT 3.0
- INFO 3030 Networks and Internetworking 3.0
- INFO 3410 Database Systems 3.0
- INFO 3420 Web Systems Development I 3.0

**Project Experience:**
- INFO 3400 Project Management 3.0
- or TECH 3400 Project Management (3.0)
- or INFO 4550 Senior Project 3.0
- or INFO 481R Internship (1.0)

or INFO 489R Undergraduate Research in Information Systems & Technology (1.0)

IT Application Domain Requirement:
- 6.0

Two specified courses to provide students with knowledge of a national application of their choice and interest. (See department advisor for list of approved courses.)

Some possible application domains are:
- Accounting/IT Auditor
- Business Communications
- Computer Science
- Construction
- Criminal Justice
- Forensics
- Geographic Information Systems
- Health Professions
- Hospitality Management
- Manufacturing/Production
- Military Science
- Multimedia/Digital Media
- Physical Sciences
- Social Sciences

Professional Ethics:
- INFO 405G Global Ethical and Professional Issues in Technology 3.0
- or TECH 405G Global Ethical and Professional Issues in Technology (3.0)

Emphasis:
Complete one of the following:
- Database Administration and Security 15.0
- Network Administration and Security 15.0
- Web Administration and Security 15.0

Graduation Requirements:
1. Completion of at least 124 semester credits required in the BS degree; at least 40 credit hours must be upper-division courses.
2. Overall grade point average 2.0 or above with a minimum of 2.5 GPA in all discipline core, specialty core, and elective courses with no grade lower than a “C-.”
3. Residency hours: Minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.
5. 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.

**Graduation Requirements:**
- Choice of 9 credits from the following:
  - INFO 3120 Principles of Information Systems—A Managerial Approach (3.0)
  - INFO 3620 System Administration—Windows (3.0)
  - INFO 3630 Advanced System Administration—Windows Server (3.0)
  - INFO 4420 Web Systems Development II (3.0)
  - LEGL 3020 Cyber Law (3.0)
  - DGM 2780 Authoring for the Internet I (3.0)
  - DGM 3780 Authoring for the Internet II (3.0)
  - Other approved elective(s)

**Minor in Information Systems and Technology** 21 Credits

**Graduation Requirements:**
- Complete the following:
  - INFO 1120 Information Systems and Technology Fundamentals (3.0)
  - INFO 2030 Data Communication Fundamentals (3.0)
  - INFO 2050 Database Fundamentals 3.0

**Elective Requirements:** 12 Credits
Complete 12 credits from the following, 9 credits of which must be upper division:
- INFO 1510 Introduction to System Administration—Linux/UNIX (3.0)
- INFO 2200 Computer Programming II for IS/IT (3.0)
- INFO 2450 Web Application Design (3.0)
- INFO 2680 Information Security—Fundamentals (3.0)
- INFO 3030 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)
- INFO 3510 Advanced System Administration—Linux/UNIX (3.0)
- INFO 3620 System Administration—Windows (3.0)
- INFO 3630 Advanced System Administration—Windows Server (3.0)
- INFO 3660 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**
- Complete the following:
  - INFO 1120 Information Systems and Technology Fundamentals (3.0)
Complete the following:
• INFO 1510 Introduction to System Administration--Linux/UNIX
• INFO 2030 Data Communication Fundamentals
• INFO 2660 Information Security--Fundamentals
Complete 9 credits from the following: 9.0
• INFO 3030 Networks and Internetworking
• INFO 3620 System Administration--Windows
• INFO 3630 Advanced System Administration--Windows Server
• INFO 3660 Information Security--Network Defense and Countermeasures
• INFO 4030 Enterprise Network Architectures and Administration
• INFO 405G Global Ethical and Professional Issues in Technology
or TECH 405G Global Ethical and Professional Issues in Technology
• INFO 3800 Computer Forensics and Cybercrime

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

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
• INFO 1200 Computer Programming I for IS/IT
• INFO 1420 Computer Architecture and Systems Software
• INFO 1510 Introduction to System Administration--Linux/UNIX
• INFO 2030 Data Communication Fundamentals
• INFO 2050 Database Fundamentals
• INFO 2200 Computer Programming II for IS/IT
• INFO 2450 Web Application Design
• INFO 2660 Information Security--Fundamentals
• INFO 281R Internship
• INFO 301R Digital Lecture Series
• INFO 3410 Database Systems
• INFO 3430 Systems Analysis Design and Integration

Elective Requirements: 12 Credits
Complete a minimum of 12 credits from the following: 12.0
• INFO 1000 Computer Programming Concepts
• INFO 1100 Exploring the Digital Domain
• INFO 2100 Business Computer Productivity with IS Technology
• INFO 2640 Router Management
• INFO 2650 Voice and Data Cabling Fundamentals
• INFO 2660 Information Security--Fundamentals
• INFO 281R Internship
• INFO 301R Digital Lecture Series
• INFO 3420 Web Systems Development I
• INFO 3440 Enterprise Database Development
• INFO 3510 Advanced System Administration--Linux/UNIX
• INFO 3620 System Administration--Windows
• INFO 3630 Advanced System Administration--Windows Server
• INFO 3660 Information Security--Network Defense and Countermeasures
• 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:

- INFO, Information Systems & 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-hour emphases from the following categories: 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.

Elective Requirements: 8 Credits

• One Language (other than English) to include up to 3.0 credits

Graduation Requirements:

1. Completion of a minimum of 60 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours—minimum of 20 credit hours 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 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 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)

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

Discipline Core Requirements: 17 Credits

• Complete any courses 1000 or higher (if planning to complete a BA degree, see advisor for list of recommended courses) 17.0

BA Pre Major in Integrated Studies 60 CREDITS

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

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.

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.

2.5 GPA minimum

General Education Requirements: 36 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 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) and **HIST 1740** US Economic History (3.0)
- **POLS 1000** American Heritage (3.0) and **POLS 1110** American National Government (3.0)

Elective Requirements: 12 Credits
- Complete 12 credits from any 3000 or 4000 level ASL or LANG courses not already taken.

Emphasis in American Sign Language 18 Credits

Elective Requirements: 12 Credits
- Complete 12 credits from any 3000 or 4000 level ASL or LANG courses not already taken.

Emphasis in Integrated Studies 20 Credits

Prerequisites (see advisor):
- **DANC 1330** Studio Workshop—Creative Process in Dance (1.0)
- **DANC 2100** Orientation to Dance (3.0)
- **DANC 2870** Introduction to Laban Studies (2.0)

Complete the following:
- **DANC 2340** Composition 2.0
- **DANC 3560** World Dance Forms 3.0
- **DANC 3830** Dance History 3.0
- **DANC 3670** Movement Analysis 3.0
- **DANC 4880** Current Issues in Dance 3.0

Emphasis in Ballroom Dance 20 Credits

Prerequisites (see advisor):
- **DANC 1330** Studio Workshop—Creative Process in Dance (1.0)
- **DANC 2100** Orientation to Dance (3.0)
- **DANC 2870** Introduction to Laban Studies (2.0)

Complete the following:
- **DANC 2340** Composition 2.0
- **DANC 3560** 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

Emphasis in Ballet 20 Credits

Prerequisites (see advisor):
- **DANC 1330** Studio Workshop—Creative Process in Dance (1.0)
- **DANC 2100** Orientation to Dance (3.0)
- **DANC 2870** Introduction to Laban Studies (2.0)

Complete the following:
- **DANC 2340** Composition 2.0
- **DANC 3560** 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

Emphasis in Art History 18 Credits

Elective Requirements: 12 Credits
- Complete 12 credits from the following courses:
  - **ARTH 1005** Twentieth Century Art and Architecture (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 Accounting 18 Credits

Graduation Requirements:
1. Complete a minimum of 123 semester credits; a minimum of 40 credits must be upper-division.
2. Complete all major-level, or higher, courses 18.0

Emphasis: 18 Credits
- **ACC 3010** Intermediate Accounting I 3.0
- **ACC 3020** Intermediate Accounting II 3.0
- **ACC 3200** Intermediate Individual Income Tax (3.0)
- **ACC 3510** Accounting Information Systems (3.0)
- **ACC 4110** Auditing (3.0)
- **ACC 4460** Taxation of Corporations/Partnerships/Estates and Trusts (3.0)

Footnotes:
** ANTH 101G/PSY/SOC 101G are introductory courses and pre-requisites which may not be used in the 19 hours required for these Integrated Studies Emphases.

Emphasis in Anthropology 19 Credits

Elective Requirements: 6 additional credits in Anthropology. Three credits must be upper division.

Emphasis in American Studies 18 Credits

Elective Requirements: 9 Credits
- **AMST 2000** Introduction to American Studies 3.0
- **AMST 300R** Topics in American Studies (3.0, must be repeated)

Footnotes:
** ANTH 101G/PSY/SOC 101G are introductory courses and pre-requisites which may not be used in the 19 hours required for these Integrated Studies Emphases.

Emphasis in Business 20 Credits

Graduation Requirements: 21 Credits
- **BUSI 2020** Personal Health and Wellness 2.0
- **PES 1097** Fitness for Life (2.0)

Elective Requirements: 8 Credits
- Complete 9 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 Distribution Courses 3.0
- **Biology** 3.0
- **Physical Science** 3.0
- **Additional Biology or Physical Science** 3.0
- **Any 2020G Foreign Language course** 4.0
- **Fine Arts Distribution** 3.0
- **Social/Behavioral Science** 3.0

Emphasis in Discipline Core Requirements: 21 Credits
- **IS 300R** Introductory Topics in Integrated Studies 3.0
- **IS 305R** Topics in Integrated Studies 3.0
- **IS 308** Controls and pre-requisites which may not be used in the 19 hours required for these Integrated Studies Emphases.

BS 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

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)
- **MATH 1050** College Algebra 4.0
- **HIST 2700** US History to 1877 (3.0) and **HIST 2710** US History since 1877 (3.0)
- **HIST 1700** American Civilization (3.0) and **HIST 1740** US Economic History (3.0)
- **POLS 1000** American Heritage (3.0) and **POLS 1110** American National Government (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

**Emphasis Requirements:** 9 Credits

- **PHIL 2110** Ancient Greek Philosophy (3.0)
- **HIST 3110** Greek History (3.0)
- **HIST 3120** Roman History (3.0) (complete 3 credits from the following):
  - **HIST 3130** Roman Republic (3.0)
  - **HIST 3140** Roman Empire (3.0)

In addition to the 9 credits of core requirements, students must complete an additional 9 hours of electives. The following list of courses has been approved for the Classical Studies IS Emphasis. If a course that is not presented 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** Ancient Anthropology (3.0)
- **ARCH 1150** 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 376G** World Literature (3.0)
- **HIST 3130** Roman Republic (3.0)
- **HIST 3140** Roman Empire (3.0)
- **HUM 2000** Ancient Legacies (3.0)
- **HUM 2010** Art in Humanistic Traditions (3.0)
- **HUM 2500** Introduction to Ancient Greek I (6.0)
- **HUM 2510** Introduction to Ancient Greek II (6.0)
- **PHIL 2130** Medieval Philosophy (3.0)
- **PHIL 386R** Topics in Ancient Philosophy (3.0)

### Emphasis in Communication 18 Credits

**Emphasis Requirements:** 18 Credits

Complete one of the following tracks:

**TRACK ONE: THEORY AND PRACTICE**

Complete six credits from the following:

- **COMM 2010** Mass Communication and Society (3.0)
- **COMM 217G** Race Class and Gender in U.S. Cinema (3.0)
- **COMM 2270** Argumentation (3.0)
- **COMM 2300** Public Relations (3.0)
- **COMM 2400** Organizational Communication (3.0)
- **THEA 2313** Film History I (3.0)
- **THEA 2323** Film History II (3.0)

Complete twelve credits from the following:

- **ANTH 3500** Discourse Semiotics and Representation (3.0)
- **COMM 3010** History of Mass Communication (3.0)
- **COMM 3050** Theories of Communication and Culture (3.0)
- **COMM 3110** Non-Fiction Cinema History (3.0)
- **COMM 3150** Film Theory (3.0)
- **COMM 332G** Cross-Cultural Communications for International Business (3.0)
- **COMM 3410** Fundamentals of Mediation and Negotiation (3.0)
- **COMM 350R** Special Topics in Mass Communication (3.0)
- **COMM 3520** Case Studies in Public Relations (3.0)
- **COMM 3600** Mass Media Ethics and Law (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)
- **COMM 3790** Case Studies in Journalism (3.0)
- **COMM 380R** Long-Form Video Journalism (3.0)
- **COMM 4100** Advanced Mediation and Negotiation (3.0)

**TRACK TWO: JOURNALISM AND PUBLIC RELATIONS**

Complete all of the following:

- **COMM 2100** Television News Writing and Reporting (3.0)
- **COMM 2200** Broadcast Journalism Anchoring and Producing (3.0)
- **COMM 3600** Mass Media Ethics and Law (3.0)

Complete three credits from the following:

- **COMM 2010** Mass Communication and Society (3.0)
- **COMM 2300** Public Relations (3.0)
- **COMM 2560** Radio Production (3.0)
- **COMM 2790** Magazine Writing (3.0)

Complete three credits from the following:

- **COMM 413R** Advanced Television News Writing and Reporting (3.0)
- **COMM 470R** On-Air Broadcast Journalism (3.0)

Complete three credits from the following:

- **COMM 3010** History of Mass Communication (3.0)
- **COMM 3050** Theories of Communication and Culture (3.0)
- **COMM 3110** Non-Fiction Cinema History (3.0)
- **COMM 3520** Case Studies in Public Relations (3.0)
- **COMM 3700** Free Expression in a Democratic Society (3.0)
- **COMM 3780** Mormon Cultural Studies (3.0)
- **COMM 413R** Advanced Television News Writing and Reporting (3.0)
- **COMM 470R** On-Air Broadcast Journalism (3.0)

### Emphasis in Community Health 18 Credits

**Emphasis Requirements:** 18 Credits

Complete the following:

- **HIST 3200** Principles of Community Health (3.0)
- **HIST 4500** Foundations of Health Education (3.0)
- **HIST 3400** Human Diseases (3.0)
- **HIST 3800** Epidemiology (3.0)
- **HIST 4300** Community Health Ethics (3.0)
- **HIST 4600** Research Methods for Community Health (3.0)

Choose 6 credits from the following:

- **NUTR 1020** Foundations of Human Nutrition (3.0)
- **NUTR 2020** Nutrition Through the Life Cycle (3.0)
- **HIST 4400** Concepts of Stress and Resilience (3.0)
- **HIST 2800** Drugs Behavior and Society (3.0)
- **HIST 3000** Health Concepts of Death and Dying (3.0)
- **HIST 3150** Culture Ecology and Health (3.0)
- **HIST 3240** Women's Health Issues (3.0)
- **HIST 3250** Consumer Health (3.0)
- **HIST 3260** Modifying Health Behavior (3.0)
- **HIST 3300** Health Promotion for Older Adults (3.0)
- **HIST 4150** Community Health Program Development and Evaluation (3.0)
- **HIST 4250** Health Services Organization and Policy (3.0)
- **HIST 490R** Special Topics in Community Health (1.0)

### Emphasis in Computer Networking 18 Credits

**Emphasis Requirements:** 18 Credits

Complete the following:

- **INFO 1120** Information Systems and Technology Fundamentals (3.0)
- **INFO 1200** Computer Programming I for IS/IT (3.0)
- **INFO 1420** Computer Architecture and Systems Software (3.0)

Complete the following:

- **INFO 1510** Introduction to System Administration--Linux/UNIX (3.0)
- **INFO 2030** Data Communication Fundamentals (3.0)
- **INFO 2690** Information Security Fundamentals (3.0)

Complete 9 credits from the following:

- **INFO 3030** Networks and Internetworking (3.0)
### Emphasis in English 18 Credits

**Emphasis Requirements:** 18 Credits

**English Emphasis:**
- Complete the following:
  - ENGL 2600 Critical Introduction to Literature (3.0)
- Complete 15 hours of upper-division ENGL courses. (15.0)
- Course selection must be approved by English advisor.

### Emphasis in Environmental Studies 18 Credits

**Emphasis Requirements:** 3 Credits

- ENST 3300 Introduction to Environmental Studies

**Elective Requirements:** 15 Credits

- Electives (15 credit hours). Complete 5 of the following 15.0 courses of 4 different prefixes from at least 2 different Colleges/Schools.

### Emphasis in Digital Media 18 Credits

**Emphasis Requirements:** 18 Credits

**Computer Science Emphasis**
- Complete one of the following:
  - CS 3250 Java Software Development (3.0)
  - CS 3370 C-plus-plus Software Development (3.0)

**Choose 15 credits from the following:**
- 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 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 Economics 18 Credits

**Discipline Core Requirements:** 12 Credits

- ECON 2010 Microeconomics (3.0)
- ECON 2020 Macroeconomics (3.0)
- ECON 3020 Intermediate Macroeconomics (3.0)
- ECON 3830 History of Economic Thought (3.0)

**Elective Requirements:** 6 Credits

- Choose six hours from the following courses:
  - ECON 3250 Intermediate Microeconomics (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)
  - MGMT 4100 Management of Financial Institutions (3.0)
  - MGMT 4180 International Finance Management (3.0)

### Emphasis in Finance 18 Credits

**Discipline Core Requirements:** 9 Credits

- ECON 2010 Microeconomics (3.0)
- MGMT 3340 Business Statistics I (3.0)
- MGMT 3310 Principles of Finance (3.0)

**Elective Requirements:** 9 Credits

- Choose nine hours from the following courses:
  - FIN 3150 Financial Management (3.0)
  - FIN 3400 Investment Management (3.0)
  - FIN 4100 Management of Financial Institutions (3.0)
  - FIN 4190 Portfolio Management (3.0)
  - FIN 4170 Derivatives 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)
Integrated Studies

Emphasis in Humanities 18 Credits

Emphasis Requirements: 9 Credits

- HUM 2010 Arts in Humanistic Traditions I 3.0
- or HUM 201G Arts in Humanistic Traditions I (3.0)
- HUM 2020 Arts in Humanistic Traditions II 3.0
- or HUM 202G Arts in Humanistic Traditions II (3.0)
- HUM 3500 Approaches to Humanities 3.0

Elective Requirements: 9 Credits

Students must complete 9 credits from the following:

- HUM 1010 Humanities Through the Arts (3.0)
- or HUM 101G Humanities Through the Arts (3.0)
- HUM 320R Topics in Humanities (1.0)*
- HUM 325R Area Studies in Humanities (3.0)
- HUM 330R Period Studies in Humanities (3.0)
- HUM 3800 Introduction to Aesthetics (3.0)
- HUM 4000 Humanism and Posthumanism (3.0)
- HUM 4010 Forms and Genres Across the Arts (3.0)

Footnotes:

* Variable credit course

Emphasis in Leadership 18 Credits

Emphasis Requirements: 18 Credits

Leadership (Upper Division) Emphasis

Prerequisites:

- ACC 2010 Financial Accounting (3.0)
- and ACC 2020 Managerial Accounting (3.0)
- or ACC 2030 Principles of Accounting (6.0)
- or ACC 3000 Financial Managerial and Cost Accounting Concepts (4.0)

Complete the following:

- INFO 3210 Principles of Information Systems--A Managerial Approach 3.0
- ECON 2200 Macroeconomics 3.0
- MGMT 3000 Organizational Behavior 3.0
- MGMT 3010 Principles of Management 3.0
- MGMT 3500 Leadership Process 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 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 3630 Dance History 3.0
- DANC 356G World Dance Forms 3.0
- DANC 3870 Movement Analysis 3.0
- DANC 4860 Current Issues in Dance 3.0

Complete 6 credits from the following classes:

- DANC 143R 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 III (3.0)
- DANC 341R Modern Dance Technique and Theory IV (3.0)
- DANC 441R Modern Dance Technique and Theory V (3.0)
- DANC 442R Modern Dance Technique and Theory VI (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)

Individual Musician Studies:

- MUSC 250R Private Lessons for Music Majors 4.0 (Repeated 4 times on major instrument or voice; Requires a grade B or higher (1.9)

Complete 6 credits from the following:

- MUSC 320R Masterworks Chorale (1.0)
- MUSC 322R Chamber Choir (1.0)
- MUSC 323R Women's Chorus Trible Singers (1.0)
- MUSC 330R Symphony Band (1.0)
- MUSC 332R Jazz Ensemble (1.0)
- MUSC 370R Orchestra I (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 6.0 (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 Communications (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 (3.0)
- 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.

Emphasis in Peace and Justice Studies 18 Credits

Emphasis Requirements: 18 Credits

Prerequisites:

- JST 300P Introduction to Peace and Justice Studies (3.0)

Elective Requirements: 15 Credits

Complete 15 credits, at least one course from each 15.0

of the following areas (additional advisor approved

courses may be available)

Peace, War, and Conflict:

- JST 300P 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-presen
- 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:

- ANTH 4180 Power Economy and Tribal Government (3.0)
- CJ 4160 Constitutions 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 Indian Political and Social Issues (3.0)
- POLS 3500 International Relations of the Middle East (3.0)
- POLS 3600 International Relations of Asia (3.0)
- POLS 359G American Indian Law and Tribal Government (3.0)
- PSY 3750 Child Abuse/Neglect and Domestic Violence (3.0)
- SOC 3450 Environmental Sociology (3.0)
- SOC 3200 Race and Minority Relations (3.0)
- SOC 3460 Political Sociology (3.0)
- SOC 3700 Social Inequality (3.0)
- MGMT 3890 Mediation/Conflict Resolution (3.0)
- LEGL 3410 Fundamentals of Mediation and Negotiation (3.0)
- LEGL 4100 Advanced Mediation and Negotiation (3.0)
- LEGL 3150 Survey of Dispute Resolution (3.0)
- LEGL 4200 Domestic Mediation (3.0)

Philosophy and Religion:

- PHIL 3350 Environmental Ethics (3.0)
- PHIL 3540 Christian Ethics (3.0)
- PHIL 3700 Social and Political Philosophy (3.0)
- PHIL 3910 Philosophical Issues in Feminism (3.0)

Emphasis in Philosophy 18 Credits

Emphasis Requirements: 18 Credits

Complete the following:

- PHIL 1250 Logical Thinking and Philosophical Writing 3.0

Complete 3 credits from the following:

- PHIL 1000 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 298R Directed Readings (1.0)

Complete 12 credits from any 3000 or 4000 level PHIL 12.0 courses
<table>
<thead>
<tr>
<th>Emphasis in Photography</th>
<th>18 Credits</th>
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<tbody>
<tr>
<td>Emphasis Requirements: 21 Credits</td>
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<tr>
<td>• ART 1050</td>
<td>3.0</td>
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<td>• ART 2700</td>
<td>3.0</td>
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<td>• ART 2710</td>
<td>3.0</td>
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<tr>
<td>• ART 2720</td>
<td>3.0</td>
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<tr>
<td>Complete 9 credits from the following courses: 9.0</td>
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<tr>
<td>• ART 371R</td>
<td>3.0</td>
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<tr>
<td>• ART 471R</td>
<td>Photographic Illustration (3.0)</td>
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<tr>
<td>• ART 474R</td>
<td>Advanced Photo Studies (may be repeated one) (3.0)</td>
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<tr>
<th>Emphasis in Social Sciences</th>
<th>18 Credits</th>
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<td>Emphasis Requirements: 18 Credits</td>
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<tr>
<td>Complete 3 credits from the following courses: 3.0</td>
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<tr>
<td>• ARCH 1100</td>
<td>Introduction to Archaeology (3.0)</td>
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<tr>
<td>• ECON 1010</td>
<td>Economics as a Social Science (3.0)</td>
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<td>• HIST 1740</td>
<td>US Economic History (3.0)</td>
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<tr>
<td>• GEOG 1300</td>
<td>Survey of World Geography (3.0)</td>
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<td>• GEOG 2100</td>
<td>Geography of the United States (3.0)</td>
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<tr>
<td>• GEOG 3010</td>
<td>Economic Geography (3.0)</td>
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<td>• GEOG 3430</td>
<td>Political Geography (3.0)</td>
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<td>• GEOG 3630</td>
<td>Introduction to Geographic Information Systems (4.0)</td>
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<tr>
<td>• GEOG 3800</td>
<td>Environmental History of the United States (3.0)</td>
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<tr>
<th>Emphasis in Physical Education</th>
<th>18 Credits</th>
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<td>Emphasis Requirements: 18 Credits</td>
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<tr>
<td>Complete the following:</td>
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<tr>
<td>• PES 2700</td>
<td>Foundations of Physical Education (3.0)</td>
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<tr>
<td>• PES 3270</td>
<td>Methods of Teaching Fitness (3.0)</td>
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<tr>
<td>• PES 3500</td>
<td>Kinesiology (3.0)</td>
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<tr>
<td>• PES 3700</td>
<td>Exercise Physiology (4.0)</td>
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<tr>
<td>Complete 5 credits from the following: 5.0</td>
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<tr>
<td>• Any PES 1000 level course except PES 1097, maximum of 1 credit may be applied to graduation</td>
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<td>• Any PES course 2050 or higher</td>
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<th>Emphasis in Psychology</th>
<th>19 Credits</th>
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<td>Emphasis Requirements: 19 Credits</td>
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<tr>
<td>Prerequisites:</td>
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<tr>
<td>• PSY 1010</td>
<td>General Psychology** (3.0)</td>
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<tr>
<td>or PSY 2400</td>
<td>Positive Psychology 3.0</td>
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<tr>
<td>or PSY 3010</td>
<td>Statistics for the Behavioral Sciences* 4.0</td>
</tr>
<tr>
<td>• PSY 3020</td>
<td>Research Methods for the Behavioral Sciences 3.0</td>
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<tr>
<td>• Advanced Research (complete one of the following): 3.0</td>
<td></td>
</tr>
<tr>
<td>• PSY 4010</td>
<td>Experimental Psychology (3.0)</td>
</tr>
<tr>
<td>or PSY 4020</td>
<td>Survey Research Design (3.0)</td>
</tr>
<tr>
<td>or PSY 4030</td>
<td>Introduction to Practice Evaluation and Grant Writing (3.0)</td>
</tr>
<tr>
<td>or PSY 4040</td>
<td>Applied Psychology (3.0)</td>
</tr>
<tr>
<td>or PSY 4050</td>
<td>Clinical Research (3.0)</td>
</tr>
<tr>
<td>Complete 6 additional credits in Psychology 6.0</td>
<td></td>
</tr>
<tr>
<td>(PSY). 3 credits must be upper division.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Emphasis in Religions Studies</th>
<th>18 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emphasis Requirements: 18 Credits</td>
<td></td>
</tr>
<tr>
<td>Prerequisites (see Advisor):</td>
<td></td>
</tr>
<tr>
<td>• PHIL 1610</td>
<td>Introduction to Western Religions (3.0)</td>
</tr>
<tr>
<td>• PHIL 1620</td>
<td>Introduction to Eastern Religions (3.0)</td>
</tr>
<tr>
<td>or ANTH 3450</td>
<td>Shamanism and Indigenous Religion (3.0)</td>
</tr>
<tr>
<td>Complete the following:</td>
<td></td>
</tr>
<tr>
<td>• PHIL 3000</td>
<td>Philosophy of Religion 3.0</td>
</tr>
<tr>
<td>• RLST 3650</td>
<td>Approaches to Religious Studies 3.0</td>
</tr>
<tr>
<td>• RLST 366R</td>
<td>Issues in Religious Studies 3.0</td>
</tr>
<tr>
<td>Complete 9 credits from the following: 9.0</td>
<td></td>
</tr>
<tr>
<td>• ANTH 3400</td>
<td>Myth and Magic (3.0)</td>
</tr>
<tr>
<td>• ANTH 3450</td>
<td>Shamanism and Indigenous Religion (3.0)</td>
</tr>
<tr>
<td>• ANTH 3460</td>
<td>Anthropology of Mormonism (3.0)</td>
</tr>
<tr>
<td>• COMM 3780</td>
<td>Mormon Cultural Studies (3.0)</td>
</tr>
<tr>
<td>• ENGL 374G</td>
<td>Literature of the Sacred (3.0)</td>
</tr>
<tr>
<td>• ENGL 3780</td>
<td>Mormon Literature (3.0)</td>
</tr>
<tr>
<td>• HIST 4100</td>
<td>Jewish History (3.0)</td>
</tr>
<tr>
<td>• RLST 3540</td>
<td>Christian Ethics (3.0)</td>
</tr>
<tr>
<td>• RLST 3610</td>
<td>Introduction to Christian Theology (3.0)</td>
</tr>
<tr>
<td>• SOC 3400</td>
<td>Sociology of Religion (3.0)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Emphasis in Spanish</th>
<th>18 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emphasis Requirements: 18 Credits</td>
<td></td>
</tr>
<tr>
<td>Complete 18 credits of SPAN courses numbered 3000 or higher.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Emphasis in Theatre Arts</th>
<th>18 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emphasis Requirements: 12 Credits</td>
<td></td>
</tr>
<tr>
<td>• THEA 1033</td>
<td>Fundamentals of Acting I 3.0</td>
</tr>
<tr>
<td>• THEA 1513</td>
<td>Stagecraft for Stage and Screen I 3.0</td>
</tr>
<tr>
<td>• THEA 1713</td>
<td>Script and Text Analysis 3.0</td>
</tr>
<tr>
<td>• THEA 3723</td>
<td>Theatre History and Literature I 3.0</td>
</tr>
</tbody>
</table>

| Elective Requirements: 6 Credits |
| Complete six credits from 3000 or higher level THEA courses |

<table>
<thead>
<tr>
<th>Emphasis in Technology Management</th>
<th>18 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emphasis Requirements: 18 Credits</td>
<td></td>
</tr>
<tr>
<td>• Completion of an AA or AS degree with at least 25 credits in a technical specialty.</td>
<td></td>
</tr>
<tr>
<td>Complete 18 credits from the following: 18.0</td>
<td></td>
</tr>
<tr>
<td>• TECH 3000</td>
<td>Introduction to Technology Management (3.0)</td>
</tr>
<tr>
<td>• TECH 3010</td>
<td>Creativity Innovation and Change Management (3.0)</td>
</tr>
<tr>
<td>• TECH 3400</td>
<td>Project Management (3.0)</td>
</tr>
<tr>
<td>• TECH 3700</td>
<td>Materials Management (3.0)</td>
</tr>
<tr>
<td>• TECH 3850</td>
<td>Quality Assurance in Technology (3.0)</td>
</tr>
<tr>
<td>• TECH 4000</td>
<td>Reliability Engineering and Safety (3.0)</td>
</tr>
<tr>
<td>• TECH 4050</td>
<td>Global Ethical and Professional Issues in Technology (3.0)</td>
</tr>
<tr>
<td>• TECH 4200</td>
<td>Technology Marketing and Distribution (3.0)</td>
</tr>
<tr>
<td>• TECH 4400</td>
<td>Advanced Project Management (3.0)</td>
</tr>
<tr>
<td>• TECH 4420</td>
<td>Organization Information Technologies (3.0)</td>
</tr>
<tr>
<td>• TECH 4820</td>
<td>Current Topics in Technology Management (2.0)</td>
</tr>
</tbody>
</table>

See Course Descriptions section of the catalog for detailed course information. This department manages the following course prefixes: |
| - IS, Integrated Studies |

Utah Valley University
Catalog 2010–2011
187
Interdisciplinary Studies Program

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:olsonma@uvu.edu

Program Website: www.uvu.edu/idst

Faculty Committee:

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Scott Abbott
William W. Cobb, Jr.
Jans B. Wager

Associate Professor
Brian Birch
Robert Cousins
Bryan Eldredge
Philip Gordon
David Knowlton
Michael Minch
Shannon M. Mussett
Michael Marx Shaw
David Wilson

Assistant Professor
John Gossett
Daniel A. Stephen

College of Humanities & Social Sciences
Dean: David P. Yells
Office: LA 209d
Telephone: 801-863-8351
E-mail: david.p.yells@uvu.edu

AMERICAN INDIAN STUDIES
Coordinator: David R. Wilson
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Telephone: 801-863-6916
E-mail: david.wilson@uvu.edu

Website: www.uvu.edu/americanindianstudies

Facility Committee:

Associate Professor
David Knowlton
Jan Wellington
David Wilson

Assistant Professor
Haagen Klaus

Instructor
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 knowledge, methods, and ethics.

Minor in American Indian Studies 18 CREDITS
Matriculation Requirements:
1 Admitted to a bachelor degree program at UVU.

Discipline Core Requirements: 18 Credits
Complete one of the following: 3.0
• ANTH 180G Introduction to American Indian Studies (3.0)
or
• HIST 180G Introduction to American Indian Studies (3.0)
Complete three of the following: 9.0
• ANTH 360R People and Cultures of the World (American Indians) (3.0)
or
• HIST 381G Pre-colonial American (3.0)
or
• HIST 383G The Contest for Territory—American Indians and the US 1815-1891 (3.0)
• ANTH 385G The Struggle for Self-determination—American Indians 1891-present (3.0)
or
• HIST 4600 Contemporary American Indian Political and Social Issues (3.0)
or
• SOC 320G Race and Minority Relations (3.0)
or
• ENGL 357G Native American Literature (3.0)
or
• POLS 359G American Indian Law and Tribal Government (3.0)
Complete two of the following: 6.0
• ANTH 3150 Culture Ecology and Health (3.0)
or
• HLTH 3150 Culture Ecology and Health (3.0)
or
• ANTH 3300 Development and Rural Societies (3.0)
or
• ANTH 3400 Myth Magic and Religion (3.0)
• ANTH 3450 Shamanism and Indigenous Religion (3.0)
or
• ANTH 3550 Memory and History (3.0)
or
• ANTH 3720 Applied Anthropology (3.0)
or
• ANTH 4150 Contemporary Theory and Debates (3.0)
or
• ANTH 4160 History of Anthropological Thought (3.0)
or
• ANTH 4180 Power Economy and People (3.0)
or
• ANTH 475R Current Topics in Anthropology (3.0)
or
• ARCH 1100 Introduction to Archaeology (3.0)
or
• HLTH 2600 Drugs Behavior and Society (3.0)
or
• HLTH 3200 Principles of Community Health (3.0)
or
• HLTH 4150 Community Health Program Development and Evaluation (3.0)
or
• HLTH 4600 Research Methods for Community Health (3.0)
or
• SOC 3000 Contemporary Social Theory (3.0)
or
• SOC 3010 Statistics for the Behavioral Sciences (4.0)
or
• SOC 3020 Research Methods for the Behavioral Sciences (4.0)
or
• SOC 3030 Research Methods for the Behavioral Sciences (3.0)
or
• SOC 3700 Social Inequality (3.0)
or
• SOC 4020 Survey Research Design (3.0)
or
• PSY 4020 Survey Research Design (3.0)
or
• SOC 4030 Introduction to Program Evaluation and Grant Writing (3.0)
or
• PSY 4030 Introduction to Program Evaluation and Grant Writing (3.0)

Graduation Requirements:
1 Overall GPA of 2.0 or above.
2 Residency hours—minimum of 12 credits counting towards the minor through attendance at UVU.

AMERICAN STUDIES
Coordinator: William W. Cobb, Jr.
Office: LA 030d
Telephone: 801-863-8846
E-mail: william.cobb@uvu.edu
Website: www.uvu.edu/americanstudies

Faculty Committee:

Professor
William W. Cobb, Jr.
Robert Cousins

Associate Professor
Lyn Bennett
Philip Gordon

Assistant Professor
Christa Albrecht-Crane

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

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 303R 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.

## 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

**Emphasis Requirements:** 9 Credits
- AMST 2000 Introduction to American Studies 3.0
- AMST 303R Topics in American Studies (3 credits, must be repeated) 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.

## CINEMA STUDIES

**Coordinator:** Jans B. Wagner
**Office:** LA 114j
**Telephone:** 801-863-8340
**E-mail:** wagerja@uvu.edu
**Website:** www.uvu.edu/cinemastudies

### Faculty Committee:

- **Professor** Jans B. Wagner
- **Associate Professor** Christa Albrecht-Crane
- **Assistant Professor** Rodayne Esmay
- **Lecturer** Phil Gordon
- **Advisor** Lynne Hetzel

**Website:** www.uvu.edu/cinemastudies

**Telephone:** 801-863-8455
**E-mail:** is_advising@uvu.edu

Cinema Studies focuses on analyzing film and the screen arts as some of the most important cultural productions of the twenty-first century. In Cinema Studies students approach movies as cultural texts and gain an understanding of the social, political, historical, and industrial contexts that produce cinema. The minor broadens students' knowledge of how these texts shape and are shaped by culture. As an interdisciplinary program, cinema studies draws on faculty expertise from various disciplines and includes global and historical perspectives. The minor also builds personal knowledge and professional competencies, including possible careers in business, advertising, public relations, technical writing, educational media, filmmaking, television, media sales and distribution, film archiving and preservation, popular journalism, and entertainment law.

### Minor in Cinema 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
- ENGL 2150 Critical Introduction to Cinema Studies 3.0
- THEA 3121 Film History I 3.0
- ENGL 3150 Film Theory 3.0
- IDST 4900 Interdisciplinary Studies Capstone 3.0

**Elective Requirements:** 9 Credits
- In addition to the 12 core requirements, students must complete an additional 9 hours of advisor-approved electives. Six (6) of the 9 hours must be upper-division (see coordinator for a list of approved electives).

**Graduation Requirements:**
- 1 Overall GPA of 2.0 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

**Emphasis Requirements:** 9 Credits
- ENGL 2150 Critical Introduction to Cinema Studies 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).

## CLASSICAL STUDIES

**Coordinator:** Michael Marx Shaw
**Office:** LA 121p
**Telephone:** 801-863-6265
**E-mail:** shawmi@uvu.edu
**Website:** www.uvu.edu/classicalstudies

### Faculty Committee:

- **Professor** Janae Brown Haas
- **Associate Professor** Rick McDonald
- **Advisor** Lynne Hetzel

**Telephone:** 801-863-8455
**E-mail:** is_advising@uvu.edu

Classical Studies focuses on the language, philosophy, art, and culture of Ancient Greece and Ancient Rome. The Classical Studies minor is ideal for students who are interested in career paths that are informed by an understanding of ancient cultures.

### Minor in Classical Studies 18 CREDITS

**Matriculation Requirements:**
- 1 Completion of 30 hours of credit.

**Discipline Core Requirements:** 12 Credits
- PHIL 2110 Ancient Greek Philosophy 3.0
- HIST 3110 Greek History 3.0
- IDST 4900 Interdisciplinary Studies Capstone 3.0

**Elective Requirements:** 6 Credits
- In addition to the 12 credits of core requirements, students must complete an additional 4 hours of electives. The following list of courses has been approved for the Classical Studies Minor. If a course that is not represented on the following list has sufficient classical studies related content, the student may seek approval from the Classical Studies Coordinator to have the course count toward the minor.
- ANTH 2030 Ancient Anthropology (3.0)
- ARCH 1100 Introduction to Archaeology (3.0)
- ARTH 2710 History of Art to the Renaissance (3.0)
- ARTH 3020 Classical Art and Architecture History (3.0)
- ENGL 2230 Myths and Legends in Literature (3.0)
- ENGL 3810 Medieval Literature (3.0)
- ENGL 376Q World Literature (3.0)
- HIST 3130 Roman Republic (3.0)
- HIST 3140 Roman Empire (3.0)
- HIST 3190 Greek History (3.0)
- HUM 2010 Arts in Humanistic Traditions I (3.0)
- HUM 2500 Introduction to Ancient Greek I (6.0)
- HUM 2510 Introduction to Ancient Greek II (6.0)
- PHIL 2130 Medieval Philosophy (3.0)
- PHIL 386R Topics in Ancient Philosophy (3.0)

**Graduation Requirements:**
- 1 Overall GPA of 2.0 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

**Emphasis Requirements:** 9 Credits
- PHIL 2110 Ancient Greek Philosophy 3.0
- HIST 3110 Greek History 3.0
- HIST 3120 Roman History Set (complete 3 credits from the following)
  - HIST 3130 Roman Republic (3.0)
  - HIST 3140 Roman Empire (3.0)

**Elective Requirements:** 9 Credits
- In addition to the 12 credits of core requirements, students must complete an additional 4 hours of electives. The following list of courses has been approved for the Classical Studies Minor. If a course that is not represented on the following list has sufficient classical studies related content, the student may seek approval from the Classical Studies Coordinator to have the course count toward the minor.
- ANTH 2030 Ancient Anthropology (3.0)
- ARCH 1100 Introduction to Archaeology (3.0)
- ARTH 2710 History of Art to the Renaissance (3.0)
- ARTH 3020 Classical Art and Architecture History (3.0)
- ENGL 2230 Myths and Legends in Literature (3.0)
- ENGL 3810 Medieval Literature (3.0)
- ENGL 376Q World Literature (3.0)
- HIST 3130 Roman Republic (3.0)
- HIST 3140 Roman Empire (3.0)
- HIST 3190 Greek History (3.0)
- HUM 2010 Arts in Humanistic Traditions I (3.0)
- HUM 2500 Introduction to Ancient Greek I (6.0)
- HUM 2510 Introduction to Ancient Greek II (6.0)
- PHIL 2130 Medieval Philosophy (3.0)
- PHIL 386R Topics in Ancient Philosophy (3.0)
Interdisciplinary Studies Program

In addition to the 9 credits of core requirements, students must complete an additional 2 hours of electives. The following list of courses has been approved for the Classical Studies IS Emphasis. If a course that is not represented on the following list has sufficient classical studies related content, the student may seek approval from the Classical Studies Coordinator to have the course count toward the IS Emphasis.

- ANTH 2030 Ancient Anthropology (3.0)
- ARCH 1100 Introduction to Archaeology (3.0)
- ARTH 2710 History of Art to the Renaissance (3.0)
- ARTH 3020 Classical Art and Architecture History (3.0)
- ENGL 2230 Myths and Legends in Literature (3.0)
- ENGL 3810 Medieval Literature (3.0)
- ENGL 376G World Literature (3.0)
- HIST 3110 Roman Republic (3.0)
- HIST 3140 Roman Empire (3.0)
- HNRS 2000 Ancient Legacies (3.0)
- HUM 2010 Arts in Humanistic Traditions I (3.0)
- HUM 2520 Introduction to Ancient Greek II (6.0)
- HUM 2520 Introduction to Ancient Greek II (6.0)
- PHIL 2130 Medieval Philosophy (3.0)
- PHIL 380R Topics in Ancient Philosophy (3.0)

DEAF STUDIES

Coordinator: Bryan Eldredge
Office: LA 003j
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E-mail: bryan.eldredge@uvu.edu

Faculty Committee:
Associate Professor
Flavia Fleisher
Will Garrow
Assistant Professor
Dale H. Boam
Advisor: Lexi Powell
Office: LA 013
Telephone: 801-863-8047
E-mail: alexia.powell@uvu.edu

Deaf Studies is an interdisciplinary field that draws on work from a variety of academic disciplines including anthropology, history, linguistics, interpretation and translation, education, psychology, sociology, public administration, political science, social work, philosophy, ethics, art, literature, and American Sign Language (ASL) instruction. Students will examine elements of what culturally-Deaf people in America have traditionally called “the Deaf-World” with special attention to the framework of meaning from within which culturally-Deaf people interpret what it means to be Deaf. The interdisciplinary nature of Deaf Studies courses challenges students to approach cultural descriptions critically. The Deaf Studies minor offers students a strong complement to a wide variety of majors. Students who earn this minor will find increased employability in a range of professions.

The minor in Deaf Studies provides students with a historical, cultural, and linguistic foundation. From this foundation the minor prepares students to become certified interpreters, to become ASL and Deaf studies teachers, to pursue graduate work in deaf education and a variety of other disciplines and to engage in any number of professional fields related to deafness.

Minor in Deaf Studies

Matriculation Requirements: 21 Credits
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:
- ASL 3050 Advanced American Sign Language (3.0)
- ASL 3530 Deaf Culture from 1970 (3.0)
- ASL 3610 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
Office: EN 115
Telephone: 801-863-8584
E-mail: daniel.stephen@uvu.edu
Website: www.uvu.edu/environmentalstudies/

Faculty Committee:
Professor
Kathryn French
David Richard Keller
Paul Taylor
Associate Professor
Eddy Cadet
Phil Gordon
Laura Hamblin
Daniel Horns
Faridul Islam
Michael Minch
Jan Wellington
Assistant Professor
Scott Hatch
Daniel A. Stephen
Advisor: Lynne Hetzel
Office: LI 507f
Telephone: 801-863-8455
E-mail: is_advising@uvu.edu

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

Matriculation Requirements: 18 Credits
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

Elective Requirements: 9 Credits
Electives (15 credit hours). Complete 5 of the following 15.0 courses from 2 different

College/Schools:
College of Humanities and Social Sciences
- ANTH 3150 Culture Ecology and Health (3.0)
- HIST 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)
- ENV 3630 Introduction to Geographic Information Systems (4.0)
- GEOG 3630 Introduction to Geographic Information Systems (4.0)
- GEOG 3010 Economic Geography (3.0)
- GEOG 3800 Environmental History of the United States (3.0)
- HIST 3800 Environmental History of the United States (3.0)
- HIST 3260 History of Utah (3.0)
- HIST 3430 Machines in the Making of History (3.0)
- HIST 462G History of the American West (3.0)
- PHIL 3530 Environmental Ethics (3.0)
- POLS 1800 Our Global Community (3.0)
- SOC 3450 Environmental Sociology (3.0)
- Any other advisor approved courses

College of Science and Health
- ANTH 3150 Culture Ecology and Health (3.0)
- HIST 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)
- ENV 3280 Environmental Law (3.0)
- ENV 3630 Introduction to Geographic Information Systems (4.0)
- GEOG 3630 Introduction to Geographic Information Systems (4.0)
- ENV 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

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

Emphasis Requirements: 3 Credits
- ENST 3000 Introduction to Environmental Studies 3.0
**Elective Requirements: 15 Credits**

Electives (15 credit hours). Complete 5 of the following 15.0 courses of 4 different prefixes from at least 2 different College/Schools.

**College of Humanities and Social Sciences**
- ANTH 3150 Culture Ecology and Health (3.0)
- or HIST 3150 Computation and Communication (3.0)
- or BIOL 3700 Conservation Biology (3.0)
- or PSY 3520 Environmental Psychology (3.0)
- or ENV T 3630 Introduction to Geographic Information Systems (4.0)
- or GEOG 3800 Environmental History of the United States (3.0)
- or HIST 3800 Environmental History of the United States (3.0)
- or ENGL 2730 History of the American West (3.0)
- or SOC 3450 Environmental Law (3.0)
- or PHIL 3450 Philosophy of Childhood (3.0)
- or PES 1405 Economic Geography (3.0)
- or HIST 4130 Environmental Geology (4.0)
- or HIST 3260 History of Utah (3.0)
- or HIST 4330 Machines in the Making of History (3.0)
- or HIST 462G History of the American West (3.0)
- or PHIL 3530 Environmental Ethics (3.0)
- or POLS 1800 Our Global Community (3.0)
- or 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 BIOL 3150 Culture Ecology and Health (3.0)
- or BIOL 1010 General Biology (3.0)
- or BIOL 2500 Environmental Biology (3.0)
- or BIOL 3700 General Ecology (3.0)
- or BIOL 3800 Conservation Biology (3.0)
- or BIOL 4500 Principles of Evolution (3.0)
- or ENV T 3630 Environmental Law (3.0)
- or ENVT 3630 Introduction to Geographic Information Systems (4.0)
- or GEOG 3800 Introduction to Geographic Information Systems (4.0)
- or ENV T 3630 Introduction to Geographic Information Systems (4.0)
- or GEOG 3800 Introduction to Geographic Information Systems (4.0)
- or BIOL 3800 Conservation Biology (3.0)
- or BIOL 4500 Principles of Evolution (3.0)
- or ENV T 3630 Introduction to Geographic Information Systems (4.0)
- or GEOG 3800 Introduction to Geographic Information Systems (4.0)
- or ENVT 3630 Introduction to Geographic Information Systems (4.0)
- or BIOL 1010 General Biology (3.0)
- or GEO 1220 Historical Geology (3.0)
- or GEO 3210 Environmental Geology (4.0)
- or METO 3100 Climate and the Earth System (3.0)
- or 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 121v
Telephone: 801-863-6264
E-mail: shannon.mussett@uvu.edu
Website: www.uvu.edu/genderstudies

**Faculty Committee:**
- **Professor**
  - Jans Wagner
- **Associate Professor**
  - Lyn Bennett
  - John Goshert
  - Laura Hamblin
  - Bonnie Kyburz
  - Shannon Mussett
  - Joylin Namie
  - Michael Marx Shaw
  - Jeff Torlina
- **Assistant Professor**
  - Numsiri Kunakemakorn

**Advisors**
- Lynne Hetzel
  - Office: LI 507
  - Telephone: 801-863-8455
  - E-mail: is_advising@uvu.edu

**Minor in Gender Studies 18 CREDITS**

**Matriculation Requirements:**
1. Completion of 30 hours of credit
2. 9 Credits
3. 9 Credits

**Elective Requirements: 9 Credits**
In addition to the 9 core requirements, students must complete an additional 9 hours of electives. The following list of courses has been approved for the Gender Studies minor. If a course is not represented on the following list, then courses must have substantial gender-related content. The student may seek approval from the Gender Studies Coordinator to have the course count toward the minor.

**Minor in Peace and Justice Studies 21 CREDITS**

**Matriculation Requirements:**
1. Admitted to a bachelor degree program at UVU
2. Discipline Core Requirements: 6 Credits
3. Elective Requirements: 15 Credits

**Discipline Core Requirements:**
- PUST 4900 Interdisciplinary Studies Capstone (3.0)
- PUST 3000 Introduction to Peace and Justice Studies (3.0)

**Elective Requirements:**
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:
  - PUST 3020 The Ethics of War and Peace (3.0)
  - HIST 435G Violence and Social Conflict in Latin America (3.0)
  - HIST 385G The Struggle for Self-determination—American Indians 1801-present (3.0)
  - HIST 4130 Anti-Semitism and the Holocaust (3.0)
  - HIST 3520 The United States and Vietnam—1945 to Present (3.0)

**Peace and Justice Studies 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 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.

**Professor**
- William W. Cobb, Jr.
- Kathryn French
- Robert Robbins

**Associate Professor**
- Lyn Bennett
- Laura Hamblin
- Jill Jaspers
- Michael Minch
- Jeff Torlina

**Assistant Professor**
- Stephen Gibson

**Advisor**
- Lynne Hetzel
  - Office: LI 507
  - Telephone: 801-863-8455
  - E-mail: is_advising@uvu.edu

**Minor in Peace and Justice Studies**

**Matriculation Requirements:**
1. Admitted to a bachelor degree program at UVU
2. Discipline Core Requirements: 6 Credits
3. Elective Requirements: 15 Credits

**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**

**Coordinator:** Michael Minch
Office: LA 121J
Telephone: 801-863-7482
E-mail: minchmi@uvu.edu
Website: www.uvu.edu/peaceandjustice

Utah Valley University
Catalog 2010–2011 191
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.

RELIGIOUS STUDIES
Coordinator: Brian Birch
Office: LA 121
Telephone: 801-863-8759
E-mail: brian.birch@uvu.edu
Website: www.uvu.edu/religiousstudies

Faculty Committee:
Associate Professor
Brian Birch
David Knowlton
Michael Minch
Dennis Potter
Jen Wahlquist

Assistant Professor
Grace Chou
Gae Lyn Henderson

Lecturer
Lynn England
Boyd Petersen
Alex Stecker
Kenneth White

Advisor: Lynne Hetzel
Office: LI 507
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E-mail: is_advising@uvu.edu

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RELIGIOUS STUDIES
Coordinator: Brian Birch
Office: LA 121
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E-mail: brian.birch@uvu.edu
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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. Additional information regarding this orientation can be obtained through your academic Internship Coordinator or through the Career Services and Student Employment Center (801-863-6364).

**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 a travel card, cultural recommendations and security clearance.
Languages

Department of Languages
Department Office: LA 003a
Department Telephone: 801-863-8518

Department Chair: Baldomero Lago
Office: LA 003a
Telephone: 801-863-7301

Faculty:

Professor
Liliana Riboldi (Spanish)
Bryan K. Eldredge (ASL & Deaf Studies)

Associate Professor
Gregory Briscoe (Spanish)
Débora R. S. Ferreira (Portuguese)
Douglas C. Jensen (Spanish)

Assistant Professor
Flavia S. Fleischer (ASL & Deaf Studies)
William G. Garrow (ASL & Deaf Studies)
Gloria Thomas Gilmore (French)
Jorge L. Nisguritzer (Spanish)
Jeffrey Packer (German)
Sara Ulloa (Spanish)

Lecturer
Ana Maria Chaparro (Spanish)
Benjamin Jarashow (ASL & Deaf Studies)

Visiting Assistant Professor
Dale Boam (ASL & Deaf Studies)

Language Advisor: Lexi Powell
Office: LA 013
Telephone: 801-863-8047

Supervisor, Office/Lab: Carol Morgan
Office: LA 003a
Telephone: 801-863-7232

Administrative Assistant: Stephanie Riggs

College of Humanities and Social Sciences
Dean: David P. Yells
Office: LA 209d
Telephone: 801-863-7435

ACADEMIC OPPORTUNITIES
Language expertise has specific application to a career in language teaching or translation. It becomes an attending and often essential skill in any business or government activity that involves 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, 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 limited 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/ Soc. Sciences 3.0
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)
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
HLLT 1100 Personal Health and Wellness 2.0
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

Science or Physical Science 3.0

Discipline Core Requirements: 31 Credits

ASL 2040 ASL Numbers* 1.0
ASL 3050 Advanced American Sign Language** 3.0
ASL 3310 Interpreting I 3.0
ASL 3550 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 8 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)
EDUC 3300 Multicultural Understanding (2.0)
ANTH 3500 Discourse Semiotics and Representation (3.0)
ANTH 360R People and Cultures of the World (3.0)

Emphasis

Complete one of the following:
• General Deaf Studies 57.0
• Interpreting 57.0

Graduation Requirements:

1 123 credit hours (minimum of 40 upper division)
2 Minimum cumulative G.P.A. of 2.0, with no grade lower than a “C” for all core and ASL elective requirements.
3 Completion of General Education requirements
4 Completion of Deaf Studies major core and elective requirements
5 Residency hours—minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
6 Students completing a bachelor degree following the 2009 or later catalog must complete one course that meets the Global/Intercultural Requirement, indicated by a course number ending in “G”. For a complete list, see page 25.

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 4560 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:
• 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)
• EDUC 3300 Multicultural Understanding (2.0)
• ANTH 3500 Discourse Semiotics and Representation (3.0)
• ANTH 360R People and Cultures of the World (3.0)

Complete 21 credits of any 1000 level or higher coursework. * 21.0

Footnotes:
* Students are encouraged to apply these credits toward the completion of a minor (or something otherwise 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 Interpersonal (1.0) 2.0
Complete 18 credits from the following: 18.0
- ASL 3310 Interpreting (3.0)
- ASL 3320 Physical Physiology of Interpreting (3.0)
- ASL 3340 Interpreting II—Advanced Techniques (3.0)
- ASL 3350 Consecutive Interpreting (3.0)
- ASL 3360 Simultaneous Interpreting (3.0)
- ASL 3370 Sign to Voice Interpreting (3.0)
- ASL 3380 Transliteration (3.0)
- ASL 3390 Professional Issues in Interpreting (3.0)
- ASL 4330 Visual Linguistic Analysis for Interpreters (3.0)
- ASL 4360 Legal Interpreting (3.0)
- ASL 439R Special Topics in Interpreting (3.0)

Emphasis Elective Requirements: | 34 Credits
Choose electives (totaling at least 34 credits) from the following courses. Complete two classes from each set (at least one upper-division course encouraged).

SELF AND SPATIAL AWARENESS SET
- THEA 1113 Voice and Diction (3.0)
- COMM 1020 Public Speaking (3.0)
- COMM 1050 Introduction to Speech Communication (3.0)
- DANC 1010 Dance as an Art Form (3.0)
- HUM 1010 Humanities Through the Arts (3.0)
- HUM 3900 Introduction to Aesthetics (3.0)

ETHICS SET
- PHIL 1000 Introduction to Philosophy (3.0)
- PHIL 3520 Bioethics (3.0)
- PHIL 3820 Metaethics (3.0)
- PHIL 3300 Epistemology (3.0)
- PHIL 3510 Business and Professional Ethics (3.0)
- PHIL 3700 Social and Political Philosophy (3.0)

SPECIAL INTEREST SET: LAW
- LEGL 1010 Survey of Law (3.0)
- LEGL 1110 Civil Litigation and Preparation (4.0)
- LEGL 290R Law Society (3.0)
- LEGL 3000 Business Law (3.0)
- CJ 1300 Introduction to Corrections Process (3.0)

SPECIAL INTEREST SET: COMMUNITY
- INFO 1000 Computer Programming Concepts (3.0)
- MGMT 1010 Introduction to Business (3.0)
- PHYS 1010 Elementary Physics (3.0)
- DGM 1210 Digital Media Essentials II (4.0)
- MGMT 1200 Business English (3.0)
- MGMT 2200 Intercultural Communications (3.0)

SPECIAL INTEREST SET: EDUCATION
- CHEM 1010 Introduction to Chemistry (3.0)
- MATH 1100 Introduction to Calculus (4.0)
- EDSC 3050 Foundations of American Education (2.0)
- EDSP 3400 Exceptional Students (2.0)
- SOC 3430 Sociology of Education (3.0)
- PHIL 4120 Philosophy of Education (3.0)

SPECIAL INTEREST SET: MEDICAL
- ZOOL 1090 Introduction to Human Anatomy and Physiology (3.0)
- ZOOL 2320 Human Anatomy (4.0)
- ZOOL 2420 Human Physiology (4.0)

BA in Spanish | 120 Credits
---|---
General Education Requirements: | 35 Credits
- ENGL 1010 Introduction to Writing 3.0
- ENGL 2010 Intermediate Writing—Humanities or Social Sciences 3.0
- 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)
- MATH 3380 Introduction to Writing 3.0

Distribution Courses:
- Humanities Distribution 3.0
- Social/Behavioral Science 3.0
- Fine Arts Distribution 3.0
- Biology 3.0
- Physical Science 3.0

Elective Requirements: | 70 Credits
Choose 15 credits of any upper-division SPAN or LANG courses not previously taken.

Graduation Requirements:
1. 120 credit hours (minimum of 40 upper division)
2. Minimum cumulative G.P.A. of 2.0, with no grade lower than a C (2.0) for all core and SPAN elective requirements.
3. Completion of General Education requirements
4. Completion of Spanish major core and elective requirements
5. Residency hours—minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
6. 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.
7. Students should frequently review their program with faculty or department advisor.
8. Any course at the 1000 level or higher *
Languages

or ENGL 2020 Intermediate Writing–Science and Technology/Special Topics in Grammar Usage and Style (3.0)
• MATH 1050 College Algebra 4.0
Choose one of the following: 3.0
• HIST 1700 American Civilization (3.0)
• HIST 2700 US History since 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
• HLT 1100 Personal Health and Wellness 2.0
or PES 1097 Fitness for Life (2.0)
Distribution Courses:
• Humanities Distribution [non-language courses 3.0
or Social/Behavioral Science 3.0
• Fine Arts Distribution 3.0
• Biology 3.0
• Physical Science 3.0
• Biological or Physical Science 3.0

Discipline Core Requirements: 53 Credits
• SPAN 3040 Spanish Conversation and Composition 3.0
or SPAN 3050 Advanced Spanish (3.0)
• SPAN 3510 Culture and Civilization–Spain 3.0
or SPAN 3520 Culture and Civilization–Spanish America (3.0)
• SPAN 3060 Oral Proficiency I (1.0) or Oral Proficiency Interview (OPI)
• SPAN 4050 Special Topics in Grammar Usage and Style 3.0
• SPAN 4100 Teaching Spanish Grammar 3.0
• SPAN 4900 Capstone Seminar 3.0
• LANG 4200 Methods of Teaching a Foreign Language 3.0

Education Courses:
• EDSC 2540 Development of the Adolescent Student 2.0
• EDSP 3400 Exceptional Students 2.0
• 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 4410 Content Area Reading and Writing 3.0
• EDSC 445G Multicultural Instruction ESL 2.0
• EDSC 4550 Secondary Curriculum Instruction and Assessment 4.0
• EDSC 4850 Student Teaching–Secondary (4.0) 8.0
• Any upper division Spanish Literature course 3.0

Elective Requirements: 33 Credits
Complete 12 credits of any upper-division SPAN or LANG courses not previously taken.
Complete 21 credits of any courses 1000-level or higher.

Graduation Requirements:
1. Complete a minimum of 122 credit hours with a minimum of 40 upper-division credits.
2. Minimum cumulative GPA of 2.75 with no grade lower than a C (2.0) in all core and elective courses.
3. Completion of General Education, Spanish core, and elective requirements.
4. Meet residency and maximum years in program requirements and any other requirements stated in the College Catalog or established by the department.
5. 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.

NOTES:
• Students should frequently review their program with faculty or department advisor.
• Any grade below a C (2.0) in a Spanish core or elective 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-BA/BS students must take 30 hours of education courses, fulfill the Math 1050 requirement, and meet all stipulated deadlines.

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 2020) or receive the equivalent through experiential credit (does not apply to native speakers).
3. Students with significant residency abroad should register for French 3096 or 3125 as a first course toward the minor.
4. Be admitted to a bachelor degree program at UUV.

Discipline Core Requirements: 3 Credits
• FREN 3050 Advanced French 3.0

Elective Requirements: 15 Credits
Complete 15 credits from among the following:
• FREN 3030 French Composition and Conversation (3.0)
• FREN 3040 Introduction to Literary Genres in French (3.0)
• FREN 3200 Advanced French (3.0)
• FREN 3510 Civilization and Culture 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 to 1700 (3.0)
• FREN 4200 Advanced French (3.0)
• FREN 490R Special Topics in French (3.0)
• LANG 3000 Language and Culture (3.0)
• LANG 4200 Methods Teaching a Foreign Language (3.0)
• LANG 481R Language Internship (1.0)

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 Languages with a minimum GPA of 2.0
2. Complete lower-division courses (1010, 1020, 2010, and 2020) in one foreign language or receive the equivalent through experiential credit (does not apply to native speakers).
3. Be admitted to a bachelor degree program at UUV.
4. Complete 9 credits from any upper-division SPAN or LANG courses not previously taken.

Graduation Requirements:
1. Completion of Baccalaureate Degree.
2. Any grade below a “C” (2.0) in a Language 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 2020) or receive the equivalent through experiential credit (does not apply to native speakers).
3. Be admitted to a bachelor degree program at UUV.

Discipline Core Requirements: 18 Credits
• SPAN 3040 Spanish Conversation and Composition II or SPAN 3050 Advanced Spanish 3.0
• SPAN 3510 Culture and Civilization–Spain (3.0)
• SPAN 3520 Culture and Civilization–Spanish America 3.0
• SPAN 4050 Special Topics in Grammar Usage and Style 3.0
Complete 9 credits from any upper-division SPAN or LANG courses not previously taken.

Graduation Requirements:
1. Completion of Baccalaureate Degree.
2. Any grade below a “C” (2.0) in a Spanish Minor course will not be accepted.

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 Sign Language 18 Credits
Emphasis Requirements: 6 Credits
Prerequisites (see advisor)
• ASL 1010 Beginning American Sign Language I (5.0)
• ASL 2020 Beginning American Sign Language II (5.0)
• ASL 2140 Intermediate American Sign Language I (5.0)
• ASL 202G Intermediate American Sign Language II (3.0)

Complete the following:
• ASL 3050 Advanced American Sign Language I (3.0)
• ASL 3550 Deaf Culture from 1970 (3.0) 3.0

Elective Requirements: 12 Credits
• Complete 12 credits from any 3000 or 4000 level ASL or LANG courses not already 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 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 Advanced French (3.0)
• FREN 4200 Advanced French (3.0)
• FREN 490R Special Topics in French (3.0)

Footnotes:
• FREN 3040 or 3050 is the prerequisite to all higher-numbered courses listed in Discipline Core Requirements.

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 German 18 Credits
Emphasis Requirements: 18 Credits
Students with more than one year of in-country experience should enroll in German 3050.

Emphasis Requirements: 18 Credits
Prerequisites (See advisor)
• GER 1015/1020 Beginning German I (4.0)
• GER 1010 Beginning German II (4.0)
• GER 2010/2020 Intermediate German I (4.0)
• GER 2020/2020 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 3230 Business German (3.0)
• GER 3550 German Culture and Civilization (3.0)
• GER 380R Topics in German Studies (3.0)
• GER 4200 Advanced Business German (3.0)
• LANG 3000 Language and Culture (3.0)
• LANG 481R Language Internship (1.0-8.0 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 Spanish 18 Credits

Emphasis Requirements: 18 Credits

- Complete 18 credits of SPAN courses numbered 3000 or higher.

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

- ASL, American Sign Language
- CHIN, Chinese
- FREN, French
- GER, German
- JPNS Japanese
- LANG, Languages
- PORT, Portuguese
- RUS, Russian
- SPAN, Spanish
Legal Studies

Department Contact: Aaron Bartholomew
Office: WB 244
Telephone: 801-863-6769

Faculty:
Professor
Hugh Rode
Associate Professor
Jill Jasperson
Assistant Professor
Aaron Bartholomew
Carolyn Howard
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, 4th Dist & Juvenile Courts; Steve Averett, Practicing Lawyer, and J. Reuben Clark Law School Librarian; Aaron Bartholomew, Assistant Professor, Legal Studies Program Director; UVI; Kim Bruce, Private Sector Paralegal; Workman Nydegger; Tavya Bushey, Student / Private Sector Paralegal; Bartholomew & Silva; Dana Facemeyer, Practicing Lawyer, Law Offices of Dana Facemeyer; Tamara Fackrell, Practicing Lawyer, and Professor of Law at BYU Law School; Val Hale, School Administrator; UVI VP of Advancement; Laurie Hart, Practicing Lawyer, Callister, Nebeker & Assoc.; Randy Kester, Practicing Lawyer, Young, Kester & Petro; Kiersty Loughmiller, Law Clerk/Bailiff - Utah State Courts; Alex Ludlow, Practicing Lawyer; Utah County Prosecutor; Raquel Painter, Private Sector Paralegal; Law Offices of Dana Facemeyer; Daniel Price, Private Sector Paralegal; Fillmore, Spencer LLC; Tom Seiler, Practicing Lawyer, Robinson, Seiler & Assoc.; Brooke Sessions, Practicing Lawyer, Private Practice / ProTem Judge; Neil Skousen, Practicing Lawyer, Private Practice; Judge James Taylor, Judge, Provo 4th Court; Mayor Hunt Willoughby, Mayor, Alpine City - Community Representative

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

CAREER OPPORTUNITIES
For those trained as paralegals, many opportunities exist for employment in traditional private law firms, federal or state governmental agencies, legal departments of corporations, banks, insurance companies and other businesses, such as title companies, mortgage companies, law libraries, legal service/legal aid offices, legal clinics, law offices handling criminal defense or prosecution work, and law departments of special interest groups or associations. Paralegals are non-lawyers who work under the close 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
Paralegal students may receive an Associate in Science Degree in Paralegal Studies or a Bachelor of Science Degree in Paralegal Studies.

ADMISSION REQUIREMENTS
In addition to applying for admission to Utah Valley University, paralegal 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 paralegal students. A total of eight credits may be applied toward graduation.

Program objectives for paralegal majors:
1. Every paralegal student must be competent in legal research, litigation, document production, and interviewing.
2. Advanced technology is prevalent in most law offices; and legal assistants are required not only to be computer literate, but also be able to use software, to develop specific computer applications, to handle spreadsheet analyses, and to conduct database searches.
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 training.
5. Students should demonstrate high ethical standards and conduct.

AS Pre Major in Paralegal Studies

<table>
<thead>
<tr>
<th>62 Credits</th>
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<tbody>
<tr>
<td>General Education Requirements: 35 Credits</td>
</tr>
<tr>
<td>- ENGL 1010 Introduction to Writing 3.0</td>
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<tr>
<td>- ENGL 2010 Intermediate Writing--Humanities/ Social Sciences 3.0</td>
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<tr>
<td>Complete one of the following:</td>
</tr>
<tr>
<td>- MATH 1030 Quantitative Reasoning (3.0)</td>
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<tr>
<td>- MATH 1040 Introduction to Statistics (3.0)</td>
</tr>
<tr>
<td>- MATH 1050 College Algebra (4.0)</td>
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<tr>
<td>Complete one of the following:</td>
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<tr>
<td>- HIST 2700 US History to 1877 (3.0)</td>
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<tr>
<td>Complete the following:</td>
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<tr>
<td>- PHIL 2000 Ethics and Values 3.0</td>
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<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>
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</tbody>
</table>

Distribution Courses
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<tbody>
<tr>
<td>Biology</td>
</tr>
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</tr>
<tr>
<td>Additional Biology or Physical Science</td>
</tr>
<tr>
<td>Humanities Distribution</td>
</tr>
<tr>
<td>Fine Arts Distribution</td>
</tr>
<tr>
<td>Social/Behavioral Science</td>
</tr>
</tbody>
</table>

Discipline Core Requirements: 70 Credits

All discipline core courses must be completed with minimum C+ grade or higher.

1. SH 1020 English Composition I 4.0
2. ENGL 1020 English Composition II 3.0

3. Complete one of the following:
   - MATH 1030 Quantitative Reasoning (3.0) |
   - MATH 1040 Introduction to Statistics (3.0) |
   - MATH 1050 College Algebra (4.0) |

4. Complete one of the following:
   - HIST 2710 US History since 1877 (3.0) |
   - HIST 2740 US Reform and Revolution (3.0) |
   - HIST 2770 American National Government (3.0) |

5. Complete the following:
   - PHIL 2000 Ethics and Values 3.0 |
   - HLTH 1100 Personal Health and Wellness 2.0 |
   - PES 1097 Fitness for Life (2.0) |

Note:
Approved by the American Bar Association.

BS in Paralegal Studies

<table>
<thead>
<tr>
<th>124 Credits</th>
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<tbody>
<tr>
<td>Matriculation Requirements:</td>
</tr>
<tr>
<td>- Completion of LEGL 1000, LEGL 1110, LEGL 1220, LEGL 2190, and LEGL 2300 with C+ or higher.</td>
</tr>
<tr>
<td>General Education Requirements: 35 Credits</td>
</tr>
<tr>
<td>- ENGL 1010 Introduction to Writing 3.0</td>
</tr>
<tr>
<td>- ENGL 2010 Intermediate Writing--Humanities/ Social Sciences 3.0</td>
</tr>
<tr>
<td>- ENGL 2020 Intermediate Writing--Science and Technology 3.0</td>
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<td>- MATH 1030 Quantitative Reasoning (3.0)</td>
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<td>- MATH 1040 Introduction to Statistics (3.0)</td>
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<td>- HIST 1700 American Civilization (3.0)</td>
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<tr>
<td>- HIST 1740 US Economic History (3.0)</td>
</tr>
<tr>
<td>- POLS 1000 American Heritage (3.0)</td>
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<tr>
<td>- POLS 1100 American National Government (3.0)</td>
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</tr>
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</table>

Discipline Core Requirements: 70 Credits

All discipline core courses must be completed with minimum C+ grade or higher.

1. SH 1020 English Composition I 4.0
2. ENGL 1020 English Composition II 3.0

3. Complete one of the following:
   - MATH 1030 Quantitative Reasoning (3.0) |
   - MATH 1040 Introduction to Statistics (3.0) |
   - MATH 1050 College Algebra (4.0) |

4. Complete one of the following:
   - HIST 2710 US History since 1877 (3.0) |
   - HIST 2740 US Reform and Revolution (3.0) |
   - HIST 2770 American National Government (3.0) |

5. Complete the following:
   - PHIL 2000 Ethics and Values 3.0 |
   - HLTH 1100 Personal Health and Wellness 2.0 |
   - PES 1097 Fitness for Life (2.0) |

Note:
Approved by the American Bar Association.
Legal Studies

- LEGL 1220 Legal Research in the Library 3.0
- LEGL 2190 Legal Ethics 2.0
- LEGL 2300 Computerized Legal Research 3.0
- LEGL 2330 Computer Applications in Law 3.0
- LEGL 3000 Business Law 3.0
- LEGL 3320 Family Law 3.0
- LEGL 4130 Bankruptcy and Collections 3.0
- LEGL 4150 Probates and Estates 3.0
- LEGL 4160 Contract Law 3.0
- LEGL 481R Internship (1.0) 2.0
- LEGL 4930 Legal Capstone Course 3.0
- MGMT 3890 Career Preparation 2.0
- SOC 320G Race and Minority Relations 3.0

Area of Specialization: 15.0
- 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) 19.0

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 Woodbury School of Business courses through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.
5. 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:
Approved by the American Bar Association.

Minor in Paralegal Studies 23 Credits

Matriculation Requirements:
1. Admitted to a bachelor degree program at UVU.

Discipline Core Requirements: 14 Credits
- LEGL 1000 Law and the Paralegal 3.0
- LEGL 1220 Legal Research in the Library 3.0
- LEGL 2190 Legal Ethics 2.0
- LEGL 2300 Computerized Legal Research 3.0
- LEGL 3000 Business Law 3.0

Elective Requirements: 9 Credits
Choose 9 credits from the following: 9.0
- LEGL 3150 Survey of Dispute Resolution (3.0)
- LEGL 3320 Family Law (3.0)
- LEGL 3530 Employment and Labor Law (3.0)
- LEGL 3650 Torts and Personal Injury Law (3.0)
- LEGL 4130 Bankruptcy and Collections (3.0)
- LEGL 4150 Probates and Estates (3.0)
- LEGL 4160 Contract Law (3.0)

Graduation Requirements:
1. Overall grade point average of 2.5 in all Woodbury 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
Management

Department Chair: Scott Hammond
Office: WB 243
Telephone: 801-863-7183
E-mail: Scott.Hammond@uvu.edu

Faculty:
Professor
Nolan Lickey
Douglas G. Miller
Peter B. Robinson
Associate Professor
Charles Cozzens
Scott Hammond
Tammy R. Huffman
Yang Huo
Susan Madsen
Steven Maranville
Eugene Seeley
Assistant Professor
David N. McArthur
Jeffrey Peterson
Johnathan Westover

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

Woodbury School of Business Advisement Center
Office: WB 257
Telephone: 801-863-8032

CAREER OPPORTUNITIES
For those trained in business management areas, many opportunities exist in private industry, government, and entrepreneurship fields. Possible occupational areas may include: human resource supervision, industrial management, communications, marketing, and international business.

JOB OUTLOOK
Job demand is high, particularly in larger metropolitan areas; and the employment outlook is excellent.

PROGRAMS
Students majoring in business management may receive a Certificate, an Associate in 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 six areas: Entrepreneurship, Finance and Banking, General Business, Hospitality Management, International Business, or Marketing. 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

Discipline Core Requirements: 24 Credits
- FIN 1020 Personal Finance 3.0
- MGMT 1010 Introduction to Business 3.0
- MGMT 2200 Business Communications 3.0
- MGMT 2390 Effective Business Presentations 3.0
- ACC 1150 Fundamentals of Business Math 3.0
- ACC 2010 Financial Accounting 3.0
- DGM 2010 Business Computer Proficiency* 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 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 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.

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

AAS in Business Management 65 Credits

General Education Requirements: 17 Credits
- ENGL 1010 Introduction to Writing 3.0
- MATH 1050 Fundamentals of Business Math 4.0
- Any approved Humanities, Fine Arts, or Foreign Language course 3.0
- ECON 1010 Economics as a Social Science 3.0
- Any approved Physical of Science course 3.0
- FIN 1020 Business Communications 3.0

Discipline Core Requirements: 30 Credits
- ACC 2010 Financial Accounting 3.0
- MGMT 1010 Introduction to Business 3.0
- DGM 2010 Business Computer Proficiency 3.0
- ACC 2030 Managerial Accounting 3.0

Elective Requirements: 18 Credits
- Any ACC, ECON, FIN, HM, LEGL, MGMT course 9.0
- DGM 2010 Business Computer Proficiency Exam 1.0
- Social Science course 4.0

Graduation Requirements:
1. Completion of a minimum of 65 semester credits.
2. Overall grade point average of 2.0 (C) or above with 2.5 GPA in Woodbury School of Business courses. No grade below C- in required courses.
3. Residency hours: Minimum of 20 credit hours through course attendance at UVU with at least 12 credits of Woodbury School of Business courses.
4. Completion of GE and specified departmental requirements.

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.

BS in Business Management 123-124 Credits

General Education Requirements: 36 Credits
- ENGL 1010 Introduction to Writing 3.0
- MATH 1050 Fundamentals of Business Math 4.0
- or ENGL 2020 Intermediate Writing--Humanities/ Social Sciences 3.0

Discipline Core Requirements: 15 Credits
- Choose 15 credits from the following list:
  - ACC 2010 Financial Accounting 3.0
  - MGMT 2200 Business Communications 3.0
  - ECON 2020 Macroeconomics 3.0
  - MGMT 2390 Effective Business Presentations 3.0
  - MGMT 3010 Principles of Management 3.0
  - LEGL 3000 American National Government 3.0

Elective Requirements: 9 Credits
- Complete any 9 credits numbered 1000 or higher 9.0

Graduation Requirements:
1. Completion of a minimum of 60 semester credits.
2. Overall grade point average of 2.0 (C) or above with 2.5 GPA 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 prerequisites courses.

Footnotes:
- Completes the requirements.
## Emphasis in Finance and Banking 27 Credits

**Emphasis Requirements: 15 Credits**
- [FIN 3150](#) Financial Management 3.0
- [FIN 3400](#) Investment Management 3.0
- [FIN 4100](#) Management of Financial Institutions 3.0
- [MGMT 3300](#) Survey of International Business 3.0
- [ECON 3020](#) Intermediate Microeconomics 3.0

**Emphasis Elective Requirements: 12 Credits**
- Select 12 credits from the following list: 
  - [ECON 4150](#) Public Finance
  - [FIN 4160](#) Portfolio Management
  - [FIN 4170](#) Derivative Securities
  - [FIN 4180](#) International Finance Management
  - [FIN 457R](#) Advanced Topics in Finance
  - [MGMT 4400](#) New Venture Financing
  - [Any Accounting Course Numbered 3010 or higher](#)

## 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: 28 Credits**
- [MGMT 3300](#) Survey of International Business 3.0
- [MGMT 3430](#) Hospitality Managerial Accounting 4.0
- [HM 3390](#) Hotel Operations II 3.0
- [HM 3360](#) Food and Beverage Controls 3.0
- [HM 3170](#) Marketing of Hospitality Services 3.0
- [HM 4550](#) Hospitality Industry Internship 6.0

**Emphasis Elective Requirements: 15 Credits**
- Complete 15 pre-approved elective credits. See advisor for list of specific courses.

## Emphasis in International Business 27 Credits

**Emphasis Requirements: 12 Credits**
- [MGMT 3300](#) Survey of International Business 3.0
- [MGMT 3450](#) Cross-Cultural Communications for International Business 3.0
- [MGMT 3450](#) 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.

## Emphasis in Marketing 27 Credits

**Emphasis Requirements: 27 Credits**
- [MGMT 3300](#) Survey of International Business 3.0
- [MGMT 3450](#) International Marketing 3.0
- [MGMT 4650](#) Marketing Research 3.0
- [MGMT 4650](#) Strategic Marketing 3.0
- Choose 15 credits from the following: 
  - [MGMT 3220](#) Retail Management
  - [MGMT 3620](#) Consumer Behavior
  - [MGMT 3630](#) Services Marketing
  - [MGMT 3650](#) Selling and Sales Management
  - [MGMT 3660](#) Internet Marketing
  - [MGMT 3670](#) Advertising and Promotion
  - [MGMT 481R](#) Internship (Limit of 3 credits)

## Minor in Business Management 23 Credits

**Matriculation Requirements:**
- Admitted to a bachelor degree program at UVU.

**Discipline Core Requirements:**
- [FIN 3150](#) Financial Management 3.0
- [MGMT 3430](#) Human Resource Management 3.0
- [FIN 4160](#) Portfolio Management 3.0
- [MGMT 4400](#) New Venture Financing 3.0
- [Any Accounting Course Numbered 3010 or higher](#)

**Elective Requirements:**
- [FIN 3300](#) Financial Management and Cost Accounting Concepts 4.0
- [INFO 3120](#) Principles of Information Systems* - A Managerial Approach 3.0
- [LEGL 3000](#) Business Law 3.0
- [MKTG 2200](#) Business Communications 3.0
- [ECON 2020](#) Microeconomics 3.0
- [MGMT 3010](#) Principles of Management 3.0
- [MGMT 495R](#) Executive Lecture Series 1.0

## Minor in Entrepreneurship 19 Credits

**Discipline Core Requirements:**
- [MGMT 3170](#) Entrepreneurship 3.0
- [MGMT 3430](#) Human Resource Management 3.0
- [MGMT 3650](#) Selling and Sales Management 3.0

**Elective Requirements:**
- [MGMT 3170](#) Entrepreneurship 3.0
- [MGMT 3430](#) Human Resource Management 3.0
- [MGMT 3650](#) Selling and Sales 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 Business Management 18 Credits**

**Discipline Core Requirements:**
- [ACC 2010](#) Principles of Information Systems* - A Managerial Approach 3.0
- [ECON 2020](#) Microeconomics 3.0
- [MGMT 3010](#) Principles of Management 3.0
- [MGMT 3660](#) Introduction to Management 3.0

**Elective Requirements:**
- [FIN 3300](#) Financial Management and Cost Accounting Concepts 4.0
- [DGM 2010](#) Business Computer Proficiency Exam* 3.0
- Complete to the degree's major.
- [LEGL 3000](#) Business Law 3.0

Note: A minimum of 2.5 GPA in all Woodbury School of Business courses, and no grade lower than a C- in business 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 Leadership 18 Credits

Emphasis Requirements: 18 Credits

Leadership (Upper Division) Emphasis

Prerequisites:
- ACC 2010 Financial Accounting (3.0)
  and ACC 2020 Managerial Accounting (3.0)
  or ACC 2030 Principles of Accounting (6.0)
  or ACC 3000 Financial Managerial and Cost Accounting Concepts (4.0)

Complete the following:
- INFO 3120 Principles of Information Systems - A Managerial Approach 3.0
- ECON 2020 Macroeconomics 3.0
- MGMT 3000 Organizational Behavior 3.0
- MGMT 3010 Principles of Management 3.0
- MGMT 3500 Leadership Process 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.

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

- HM, Hospitality Management
- MGMT, Business Management
## Courses with an asterisk (*) cannot be taken until student is matriculated.

### Emphasis in Marketing 27 Credits

**Emphasis Requirements:**
- MGMT 330G Survey of International Business 3.0
- MGMT 3350 International Marketing 3.0
- MGMT 4600 Marketing Research 3.0
- MGMT 4650 Strategic Marketing 3.0

Choose 15 credits from the following list:
- MGMT 3220 Retail Management 3.0
- MGMT 3620 Consumer Behavior 3.0
- MGMT 3630 Services Marketing 3.0
- MGMT 3650 Selling and Sales Management 3.0
- MGMT 3660 Internet Marketing 3.0
- MGMT 3670 Advertising and Promotion 3.0
- MGMT 481R Internship (Limit of 6 credits)

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

- MGMT, Business Management

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### BS in Business Management with an Emphasis in Marketing 123 Credits

<table>
<thead>
<tr>
<th>General Education Requirements:</th>
<th>36 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>• ENGL 1010 Introduction to Writing</td>
<td>3.0</td>
</tr>
<tr>
<td>• ENGL 2010 Intermediate Writing—Humanities/ Social Sciences or ENGL 2020 Intermediate Writing—Science and Technology (3.0)</td>
<td>3.0</td>
</tr>
<tr>
<td>• MATH 1050 College Algebra</td>
<td>4.0</td>
</tr>
<tr>
<td>or An Advanced Placement (AP) Mathematics Test with a score of 3 or higher</td>
<td></td>
</tr>
<tr>
<td>Complete one of the following:</td>
<td>3.0</td>
</tr>
<tr>
<td>• HIST 2700 US History to 1877 (3.0) and HIST 2710 US History since 1877 (3.0)</td>
<td></td>
</tr>
<tr>
<td>• HIST 1700 American Civilization (3.0)</td>
<td></td>
</tr>
<tr>
<td>• HIST 1740 US Economic History (3.0)</td>
<td></td>
</tr>
<tr>
<td>• POLS 1000 American Heritage (3.0)</td>
<td></td>
</tr>
<tr>
<td>• POLS 1100 American National Government (3.0)</td>
<td></td>
</tr>
<tr>
<td>Complete the following:</td>
<td></td>
</tr>
<tr>
<td>• PHIL 2050 Ethics and Values</td>
<td>3.0</td>
</tr>
<tr>
<td>• HLTH 1100 Personal Health and Wellness (2.0)</td>
<td></td>
</tr>
<tr>
<td>• PES 1097 Fitness for Life</td>
<td>2.0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Distribution Courses</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>• ECON 2020 Macroeconomics *(fulfills Social/ Behavioral Science credit)</td>
<td>3.0</td>
</tr>
<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></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Discipline Core Requirements:</th>
<th>50 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Foundation Courses:</td>
<td></td>
</tr>
<tr>
<td>• ACC 2010 Financial Accounting</td>
<td>3.0</td>
</tr>
<tr>
<td>• ACC 2020 Managerial Accounting</td>
<td>3.0</td>
</tr>
<tr>
<td>• Business Computer Proficiency Exam ** or DGM 2010 Business Computer Proficiency</td>
<td>3.0</td>
</tr>
<tr>
<td>• MATH 1100 Introduction to Calculus</td>
<td>4.0</td>
</tr>
<tr>
<td>• MGMT 2200 Business Communications *</td>
<td>3.0</td>
</tr>
<tr>
<td>• ECON 2010 Microeconomics</td>
<td>3.0</td>
</tr>
<tr>
<td>• MGMT 2340 Business Statistics I</td>
<td>3.0</td>
</tr>
<tr>
<td>• MGMT 2390 Effective Business Presentations</td>
<td>3.0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Business Core Courses:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>• INFO 3120 Principles of Information Systems—A Managerial Approach</td>
<td>3.0</td>
</tr>
<tr>
<td>• FIN 3100 Principles of Finance*</td>
<td>3.0</td>
</tr>
<tr>
<td>• LEGL 3000 Business Law</td>
<td>3.0</td>
</tr>
<tr>
<td>• MGMT 3010 Principles of Management</td>
<td>3.0</td>
</tr>
<tr>
<td>• MGMT 3450 Operations Management*</td>
<td>3.0</td>
</tr>
<tr>
<td>• MGMT 3600 Principles of Marketing</td>
<td>3.0</td>
</tr>
<tr>
<td>• MGMT 3890 Career Preparation</td>
<td>2.0</td>
</tr>
<tr>
<td>• MGMT 4800 Strategic Management*</td>
<td>3.0</td>
</tr>
<tr>
<td>• MGMT 4830 Strategic Management Capstone Simulation</td>
<td>1.0</td>
</tr>
<tr>
<td>• MGMT 493R Entrepreneurship Lecture Series (1.0) or MGMT 495R Executive Lecture Series</td>
<td>1.0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Emphasis:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete one of the following:</td>
<td></td>
</tr>
<tr>
<td>• Marketing</td>
<td>27.0</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Elective Requirements:</th>
<th>10 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select 10 credits of General Education courses</td>
<td>10.0</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Graduation Requirements:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Completion of a minimum of 123 semester credits required in the BS degree; at least 40 credit hours must be upper-division courses.</td>
<td></td>
</tr>
<tr>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>4 Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.</td>
<td></td>
</tr>
<tr>
<td>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.</td>
<td></td>
</tr>
</tbody>
</table>

**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 2010 course with a score of 80 percent or higher.**

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### Career Opportunities

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, market research, new product planning, marketing logistics (physical distribution), public relations, purchasing, retail management, internet marketing, and sales and sales management.

### Job Outlook

Almost a third of all Americans are employed in marketing-related positions. From large corporations to small companies, both in manufacturing and service areas, firms rely on marketers. There is also a growing trend to use marketing in nonprofit organizations, such as colleges, libraries, and hospitals.

### Programs

Students in Marketing may receive a Bachelor of Science Degree in Business with a Marketing Specialization. An Associate in Science (AS) 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.)
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
- 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)
- HIST 2710 US History since 1877 (3.0)
- HIST 1720 American Civilization (3.0)
- HIST 1740 US Economic History (3.0)
- MATH 1050 American Heritage (3.0)
- POLS 1000 American National Government (3.0)

Complete the following: 5.0

- HLTN 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
- or PHYS 2215 Physics for Scientists and Engineers I Lab 1.0
- PHYS 2220 Physics for Scientists and Engineers II (Required for Pure Mathematics Emphasis) (3.0)
- or PHYS 2225 Physics for Scientists and Engineers II Lab (Required for Pure Mathematics Emphasis) (1.0)

Distribution Courses

- Fine Arts Distribution 3.0
- Social/Behavioral Science 3.0

Discipline Core Requirements: 16 Credits

- MATH 1210 Calculus I 5.0
- MATH 1220 Calculus II 5.0

Complete 6 credits from the following: 6.0

- MATH 2210 Calculus III (3.0)
- MATH 2240 Principles of Statistics (4.0)
- MATH 2270 Linear Algebra (3.0)
- MATH 2280 Ordinary Differential Equations (3.0)

Elective Requirements: 10-12 Credits

- FOR AA DEGREE: Any course 1000 or higher (12.0 Math 1060 suggested)
- FOR AA DEGREE: Any course 1000 or higher (Math 1060 suggested)

Graduation Requirements:

1. Completion of a minimum of 61-63 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours—minimum of 20 credit hours through course attendance at UVU
4. Completion of GE and specified departmental requirements.
5. For the AA degree, completion of 8 credit hours of course work from one language.

BS in Mathematics 120 CREDITS

Matriculation Requirements: 12 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 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)
- HIST 2710 US History since 1877 (3.0)
- HIST 1720 American Civilization (3.0)
- HIST 1740 US Economic History (3.0)
- MATH 1050 American Heritage (3.0)
- POLS 1000 American National Government (3.0)

Complete the following: 3.0

- HLTN 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
- or PHYS 2215 Physics for Scientists and Engineers I Lab 1.0
- PHYS 2220 Physics for Scientists and Engineers II (Required for Pure Mathematics Emphasis) (3.0)
- or One other Biology or Physical Science Distribution (3.0) (Required for Actuarial Science Emphasis)
- Humanities Distribution 3.0
- Fine Arts Distribution 3.0
- Social/Behavioral Science 3.0

Discipline Core Requirements: 28 Credits

Complete the following: 3.0

- 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 3200 Foundations of Analysis 3.0
- MATH 3300 Foundations of Abstract Algebra 3.0
- MATH 4210 Advanced Calculus I* 3.0

Elective Requirements: 23 Credits

Complete 11 credits of upper division electives 11.0
Complete 22 credits of upper or lower division electives 12.0

Emphasis:

Complete one of the following: 3.0

- Actuarial Science 3.0
- Pure Mathematics 3.0

Graduation Requirements: 1

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 2.5 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 Mathem atics 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.
Students planning to do graduate work in mathematics should take both the year-long sequences MATH 4210, 4220, and MATH 4310, 4320, and acquire a reading knowledge of at least one foreign language chosen from French, German, or Russian.

### Emphasis in Actuarial Science 31 Credits

**Emphasis Requirements:** 26 Credits
- ECON 2010 Microeconomics 3.0
- ECON 2020 Macroeconomics 3.0
- ACC 2010 Financial Accounting (3.0)
- and ACC 2020 Managerial Accounting (3.0) or ACC 3000 Financial Management and Cost Accounting Concepts 4.0
- MATH 3710 Applied Regression and Time Series 4.0
- MATH 3750 Financial Mathematics 3.0
- MATH 4710 Mathematical Statistics I 3.0
- MATH 4720 Mathematical Statistics II 3.0
- MATH 4750 Life Contingencies 3.0

**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)

**Footnotes:**
- **Requires completion of a prerequisite course, which fulfills elective requirements.

### Emphasis in Pure Mathematics 31 Credits

**Emphasis Requirements:** 3 Credits
- MATH 4220 Advanced Calculus II (3.0)
- MATH 4320 Introduction to Modern Algebra II (3.0)**
- MATH 4620 Introduction to Numerical Analysis II (3.0)**

**Emphasis Elective Requirements:** 28 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 (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)

**Footnotes:**
- **Requires completion of a prerequisite course, which fulfills elective requirements.

### 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
5. Completion of all General Education requirements and required pre-professional education courses
6. Completion of interview directed by the Teacher Education Selection and Retention Committee
7. Pass criminal background check

**General Education Requirements:** 34 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:
  - 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:
  - MATH 2040 US History before 1877 (3.0)
  - and MATH 2050 US History after 1877 (3.0)
- Complete one of the following:
  - HIST 2710 US History since 1877 (3.0)
  - and HIST 2720 US History after 1877 (3.0)
- Complete the following:
  - MATH 2210 Calculus II 3.0
  - MATH 3210 Advanced Calculus II (3.0)
  - MATH 3220 Introduction to Modern Algebra II (3.0)**
  - MATH 3230 Real Analysis (3.0)
  - MATH 3240 Introduction to Number Theory (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)

**Distribution Courses**
- Biology 3.0
- PHYS 2210 Physics for Scientists and Engineers I 4.0
- PHYS 2215 Physics for Scientists and Engineers I Lab 4.0
- Additional Biology or Physical Science (PHYS 2220 recommended) 3.0
- Humanities Distribution 3.0
- Fine Arts Distribution 3.0
- Social/Behavioral Science 3.0

**Discipline Core Requirements:** 92 Credits
- MATH 1210 Calculus I 5.0
- MATH 1220 Calculus II 5.0
- MATH 2210 Calculus III 3.0
- MATH 2300 Foundations of Mathematics 3.0
- MATH 2310 Methods of Secondary School Mathematics Teaching 3.0
- MATH 3200 Computer-Based Mathematics for Secondary School Mathematics Teachers 3.0
- MATH 3300 Foundations of Geometry 3.0
- MATH 3320 Foundations of Analysis 3.0
- MATH 3330 Foundations of Abstract Algebra 3.0
- MATH 3340 Probability and Statistics for Engineering and the Sciences 3.0
- EDSC 2540 Development of the Adolescent Student 2.0
- 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 4456 Multicultural Instruction ESL 2.0
- EDSC 4550 Secondary Curriculum Instruction and Assessment 4.0
- EDSC 4850 Student Teaching—Secondary 8.0
- EDSP 3400 Exceptional Student 2.0
- Complete 16 credits of any courses 1000 or higher (Minor strongly recommended)

**Graduation Requirements:**
1. Completion of a minimum of 126 semester credits with at least 40 credit hours in upper-division courses.
2. Overall grade point average of 2.0 (C) or above, with a minimum GPA of 2.4 in MATH core courses, but no grade lower than “C” in any of the seven mathematics courses required for the mathematics minor.
3. A grade of “B-” or higher required in MATH 3010.
4. Completion of GE and specified departmental requirements.
5. Completion of a minor in a discipline other than mathematics.
6. Completion of Math Department Exit Survey.
7. 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.

### Minor in Mathematics 25 Credits

**Matriculation Requirements:**
1. 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 3210 (Complex variables) and MATH 3400 (Partial Differential Equations), or MATH 4610 and MATH 4620 (Introduction to Numerical Analyis 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 3300 (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 Tutoring
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
### Music

#### Department Chair: Donna Fairbanks
Department Office: GT 332  
Department Telephone: 801-863-8534

#### Faculty:
- Professor: G. Larry Johnson  
- Associate Professor: Bryce Ryting  
- Assistant Professor: James Colonna, Hilary Denske, Donna Fairbanks, Matt Nelson

#### School of the Arts
Dean: Patrick M. Jones  
Office: GT 605A  
Telephone: 801-863-7359

The Department of Music prepares students academically and artistically in a variety of musical disciplines including theory, history, aural skills, composition, music education, solo and ensemble performance, jazz, conducting, music technology and pedagogy. With a history of academic excellence and fine performances, the department provides rich experiences in diverse musical styles and genres. An array of distinguished faculty members work with students in classroom settings, in outreach with public schools, in ensemble and master class settings, and individually on their instrumental and vocal performance skills. Students learn to appreciate the powerful impact of superb musical training as it relates to personal development and community enrichment. Students become successful music educators, private instructors, performers, conductors and composers. Music degree options include an Associate in Science, Bachelor of Arts, Bachelor of Science, Bachelor of Science in Music Education, and Integrated Studies with Music Emphasis.

### 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  
- 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 the following:
- PHYS 2210 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

### 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

Choose one of the following:
- POLS 1000 American Heritage 3.0  
- HIST 2700 US History since 1877 3.0  
- HIST 2710 US History before 1877 3.0  
- HIST 1700 American Civilization 3.0  
- HIST 1740 US Economic History 3.0  
- POLS 1000 American National Government 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  
- MATH 1040 Introduction to Statistics (recommended for Social Science majors) 3.0  
- MATH 1050 College Algebra (recommended for Business, Education, Science, and Health Professions majors) 4.0

Choose one of the following:
- PHIL 2050 Ethics and Values 3.0  
- HLTH 1100 Personal Health and Wellness 2.0  
- PES 1097 Fitness for Life 2.0

### Disciple Core Requirements: 56 Credits

#### Music Circuits Courses: 10 Credits
- 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 3120 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 11 credits of upper-division MUSC courses not already required for the degree.

#### Individual Musicianship Studies
- MUSC 2520 Private Lessons for Music Majors (Repeated 4 times on major instrument or voice) 4.0  
- MUSC 450R Private Lessons for Music Majors (Repeated 4 times on major instrument or voice) 4.0

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)

#### Elective Requirements: 29 Credits
- One Foreign Language 12.0  
- Complete any course 1000 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, 40 credits must be upper-division.  
2. All grade point average of 2.0 (C) or above. MUSC 1150 and 250R courses require a grade B or higher. All other MUSC courses require a C grade or higher.  
3. Residency hours -- minimum of 20 credit hours through course attendance at UVU.  
4. Completion of GE and specified departmental requirements.

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BS in Music Education 126 CREDITS

Matriculation Requirements:
Students will apply for formal admission to the Secondary Education 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. A GPA of 2.76 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: 35 Credits
- ENGL 1003 Introduction to Writing
- ENGL 2010 Intermediate Writing—Humanities/ Social Sciences
- 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)
- MUSC 1150 Group Piano I (2.0)
- MUSC 1160 Group Piano II (2.0)
- MUSC 3010, 3150, 330R, 3450, 370R courses require a grade of C or higher.
- MUSC 450R, 450R courses require a grade of B or higher.

Discipline Core Requirements: 91 Credits

Music Skills Development Courses
- 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 2120 Aural Skills III (1.0)
- MUSC 2140 Aural Skills IV (1.0)
- MUSC 3120 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)

Elective Requirements: 29 Credits
- Music 1150 Group Piano I (2.0) and 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) and MUSC 1160 Group Piano II (with a grade of B or higher) or Departmental Keyboard Proficiency exam

Discipline Core Requirements: 18 Credits
- MUSC 1630 Group Voice I (1.0)
- MUSC 1650 String Practicum I (1.0)
- MUSC 1660 Woodwind Practicum I (1.0)
- MUSC 1680 Brass Practicum I (1.0)
- MUSC 1800 Introduction to Music Education (1.0)
- MUSC 3620 Percussion Pracitcum I (1.0)
- MUSC 3650 String Practicum II (1.0)
- MUSC 3660 Woodwind Practicum II (1.0)
- MUSC 3680 Brass Practicum II (1.0)
- MUSC 4120 Twentieth-Century Theory (3.0)
- MUSC 4130 TScoring and Arranging (2.0)
- MUSC 1630 Group Voice I (1.0)
- MUSC 1650 String Practicum I (1.0)
- MUSC 1660 Woodwind Practicum I (1.0)
- MUSC 1680 Brass Practicum I (1.0)
- MUSC 1800 Introduction to Music Education (1.0)
- MUSC 3620 Percussion Pracitcum I (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
- Individual Musicianship Studies - Student must complete 4 credits of MUSC 2520; Student must complete 3 credits of MUSC 450R; Lessons must be taken on major instrument or voice
- Performance Group Studies - Student must complete 6 credits selected from MUSC 320R, 322R, 328R, 330R, 370R
- Student must pass the Departmental Keyboard Proficiency Examination or complete MUSC 1150 and MUSC 1160

Secondary Education Courses
- EDSC 2540 Development of the Adolescent Student (2.0)
- EDSC 3000 Educational Psychology (3.0)
- EDSC 3020 Foundations of American Education (3.0)
- EDSC 3250 Instructional Media (2.0)
- EDSP 3400 Exceptional Students (2.0)
- EDSC 4260 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 445S Secondary Curriculum Instruction I and II (4.0)
- EDSC 4850 Student Teaching—Secondary (4.0) (8.0)

Choose one of the following Composite Emphases
- Composite Choral - String Emphasis (6 credits)
- MUSC 4150 Advanced Choral Conducting (2.0)
- MUSC 4220 Choral Literature and Methods (2.0)
- MUSC 4370 Orchestra Literature and Methods (2.0)

Composite Choral - Winds/Percussion Emphasis (7 credits)
- MUSC 4150 Advanced Choral Conducting (2.0)
- MUSC 4220 Choral Literature and Methods (2.0)
- MUSC 4340 Marching Band Techniques (1.0)
- MUSC 4360 Wind Band Literature and Methods (2.0)

Composite Strings - Choral Emphasis (6 credits)
- MUSC 3150 Advanced Instrumental Conducting (2.0)
- MUSC 4370 Orchestra Literature and Methods (2.0)
- MUSC 4220 Choral Literature and Methods (2.0)

Composite Instrumental (7 credits)
- MUSC 3150 Advanced Instrumental Conducting (2.0)
- MUSC 4330 Marching Band Techniques (1.0)
- MUSC 4360 Wind Band Literature and Methods (2.0)
- MUSC 4370 Orchestra Literature and Methods (2.0)

Composite Winds/Percussion - Choral Emphasis (7 credits)
- MUSC 3150 Advanced Instrumental Conducting (2.0)
- MUSC 4220 Choral Literature and Methods (2.0)
- MUSC 4340 Marching Band Techniques (1.0)
- MUSC 4360 Wind Band Literature and Methods (2.0)

Graduation Requirements:
1. Completion of a minimum of 128 semester credits.
2. Overall grade point average of 2.0 (C) or above.
3. Completion of all General Education requirements (excluding, see page 25).
4. Completion of GE and specified departmental requirements, including a sophomore review.
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 list, see page 25.

Minor in Music 18 CREDITS

Matriculation Requirements:
1. Admitted to a bachelor degree program at UVU.

Discipline Core Requirements: 16 Credits
- MUSC 160R Private Lessons for Nonmusic Majors (Repeated 4 times; Requires a grade B or higher) (4.0)
- MUSC 2520R Private Lessons for Music Majors (Repeated 4 times; Requires a grade B or higher) (4.0)

Complete 4 credits from the following:
- MUSC 124R UVU Concert Choir (1.0)
- MUSC 320R Masterworks Choir (1.0)
- MUSC 322R Chamber Choir (1.0)
- MUSC 330R Symphony Band (1.0)
- MUSC 331R Percussion Ensemble (1.0)
- MUSC 332R Jazz Ensemble (1.0)
- MUSC 337R Symphony Orchestra (1.0)
- MUSC 337R Chamber Orchestra (1.0)
- MUSC 4120 Twentieth-Century Theory (3.0)
- MUSC 4130 TScoring and Arranging (2.0)

Complete 10 credits from the following:

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

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 (1.5)
- MUSC 1140 Aural Skills II (1.5)
Individual Musicianship Studies

- **MUSC 250R** Private Lessons for Music Majors (Repeated 4 times on major instrument or voice; Requires a grade B or higher) (1.0) 4.0

Complete 4 credits from the following: 4.0
- **MUSC 320R** Masterworks Chorale (1.0)
- **MUSC 322R** Chamber Choir (1.0)
- **MUSC 328R** Womens Chorus Treble Singers (1.0)
- **MUSC 330R** Symphony Band (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) 6.0

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: MT 203x
Telephone: 801-863-8053
E-mail: Suzette.Farmer@uvu.edu

Associate Chair: Gayla Carlton
Office: MT 203a
Telephone: 801-863-8195
E-mail: Gayla.Carlton@uvu.edu

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

Pre-Nursing Counselor: Denise Fullmer
Office: LC 402j
Telephone: 801-863-8425
E-mail: fullmede@uvu.edu

Faculty:

Professor
Lori Barber
Gayla Carlton
 Gretchen Cornell
 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
Joo hyun Chung
Linda Kochniuk
Dale Maughan
Dianne McAdams-Jones
Katherine Moore
Susan Rasmussen
Dena Rae Walker

Administrative Assistants:
Diane Evans
Cari Rymer

Laboratory Faculty:
Gary Measom

Advisory Committee: Maria Black, Utah Valley Regional Medical Center; Pauline Hartvigsen, Public Health Department; Wendy Pamley, Utah Valley Regional Medical Center; Wayne Riding, Mountainview Hospital; Ruthann Jarvis, MountainStar; Lane Pedersen, IHC Homecare Services

College of Science and Health
Dean: Sam Rushforth
Office: PS 201a
Telephone: 801-863-8980

The Associate Degree and Bachelor of Science in Nursing Degree programs are accredited by the National League for Nursing Accrediting Commission (NLNAC), 3343 Peachtree Road NE, Suite 500, Atlanta, GA, 30326.

NURSING PROGRAMS
Undergraduate nursing education includes an Associate in Science in Nursing (ASN) and a BS in Nursing 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 prior to the end of their first semester in the BS curriculum. 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 completion of a BS degree in Nursing.

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 program prepares graduates to design, coordinate and manage healthcare, to assume leadership roles, to enter graduate education in nursing, and to develop leadership and management skills. The Master of Science in Nursing program prepares post-baccalaureate nursing students for advanced practice roles as nurse educators in academic settings and/or as clinical nurse educators in healthcare institutions.

ADMISSION REQUIREMENTS
Admission to any nursing 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.

Application to both UVU and to the Nursing Program is required in order to be considered in any applicable pool. Transcripts from all colleges and/or universities attended, as well as high school transcripts (or GED test scores), are required as part of the application to the University. See the Department of Nursing for application materials and deadlines. Admission to UVU's Nursing program does not guarantee eligibility to write the NCLEX-RN exam.

OTHER REQUIREMENTS
In the Bachelor program, a student cannot fail any required course and remain in the program. In order to pass each nursing course, a student must pass the clinical portion, receive both a minimum of 74% in the theory portion and a minimum 74% average on all exams, and complete all assignments. At the end of the semester, a student must have an average of 74% or above for the course exams and an overall course average of 74% or above. A minimum grade of "B" is required for BIOL 1010, ZOOL 2320, ZOOL 2420, MICR 2060, CHEM 1110, MATH 1050, PSY 1100, ENGL 1010, ENGL 2020, NURS 1020, NURS 1400, ZOOL 4400, MATH 2040 and all nursing courses. Nursing courses must be taken in sequence, unless otherwise indicated. Masters program students must maintain a “B-” (80%) grade minimum in order to progress in the program.

Programs

ASN in Nursing

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1010 General Biology</td>
<td>3.0</td>
</tr>
<tr>
<td>CHEM 1110 Elementary Chemistry</td>
<td>4.0</td>
</tr>
<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>NURS 1020 Foundations of Human Nutrition</td>
<td>3.0</td>
</tr>
<tr>
<td>PHIL 2050 Ethics and Values</td>
<td>3.0</td>
</tr>
<tr>
<td>PSY 1100 Human Development Life Span</td>
<td>3.0</td>
</tr>
<tr>
<td>ZOOL 2320 Human Anatomy</td>
<td>4.0</td>
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</tbody>
</table>

Discipline Core Requirements: 45 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 1400 Introduction to Nursing</td>
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</tr>
<tr>
<td>NURS 2300 Nursing Health Assessment</td>
<td>3.0</td>
</tr>
<tr>
<td>NURS 2310 Nursing Pharmacology</td>
<td>3.0</td>
</tr>
<tr>
<td>NURS 2320 Nursing Interventions</td>
<td>4.0</td>
</tr>
<tr>
<td>NURS 2410 Nursing Care of Adults</td>
<td>4.0</td>
</tr>
<tr>
<td>NURS 2420 Nursing Care of Older Adults</td>
<td>2.0</td>
</tr>
<tr>
<td>NURS 2430 Nursing Care of Persons with Psychiatric Disorders</td>
<td>3.0</td>
</tr>
<tr>
<td>NURS 3300 Health Promotion and Health Teaching in Nursing</td>
<td>2.0</td>
</tr>
<tr>
<td>NURS 3310 Nursing Care of Child-Bearing Families</td>
<td>3.0</td>
</tr>
<tr>
<td>NURS 3320 Nursing Care of Child-Rearing Families</td>
<td>3.0</td>
</tr>
<tr>
<td>NURS 3330 Nursing Care of Persons with Complex Disorders</td>
<td>4.0</td>
</tr>
<tr>
<td>NURS 3400 Nursing Care Coordination and Management</td>
<td>4.0</td>
</tr>
<tr>
<td>MICR 2060 Microbiology for Health Professions</td>
<td>4.0</td>
</tr>
<tr>
<td>ZOOL 2420 Human Physiology</td>
<td>4.0</td>
</tr>
</tbody>
</table>

Graduation Requirements:
1. Completion of a minimum of 72 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours-- minimum of 20 credit hours through course attendance at UVU.
4. Completion of specified departmental requirements.
BS in Nursing 121 Credits

Matriculation Requirements:
1 Acceptance into Nursing program.

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:
• 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:
• ENGL 2020 Intermediate Writing--Science and Technology 3.0
• MATH 1050 College Algebra 4.0

Distribution Courses
• BIOL 1010 General Biology 3.0
• CHEM 1110 Elementary Chemistry for the Health Sciences 4.0
• HIST 1740 US Economic History (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 2700 US History to 1877 (3.0)
• HIST 2710 US History since 1877 (3.0)
• HIST 1740 US Economic History (3.0)
• PHIL 2050 Ethics and Values 3.0
• PSY 1100 Human Development Life Span 3.0
• ZOOL 2320 Human Anatomy 4.0

Discipline Core Requirements: 85 Credits
Complete the following with a minimum C or higher:
• NURS 1400 Introduction to Nursing 2.0
• NURS 2300 Nursing Health Assessment 3.0
• NURS 2310 Nursing Pharmacology 3.0
• NURS 2320 Nursing Interventions 4.0
• NURS 2410 Nursing Care of Adults with Common Disorders 4.0
• NURS 2420 Nursing Care of Older Adults 2.0
• NURS 2430 Nursing Care of Persons with Psychiatric Disorders 3.0
• NURS 3300 Health Promotion and Health Teaching in Nursing 2.0
• NURS 3310 Nursing Care of Child-Bearing Families 3.0
• NURS 3320 Nursing Care of Child-Rearing Families 3.0
• NURS 3330 Nursing Care of Persons with Complex Disorders 4.0
• NURS 3400 Nursing Care Coordination and Management 4.0
• NURS 4300 Nursing Theory 2.0
• NURS 4310 Nursing Research 3.0
• NURS 4320 Nursing in the Community 4.0
• NURS 4330 Nursing in Health Systems and Policy 3.0
• NURS 4400 Nursing Leadership 4.0
• NURS 441G Nursing in Global Perspective 3.0
• NURS 4420 Senior Seminar in Nursing 3.0
• NURS 4430 Senior Project in Nursing 3.0
• MATH 2040 Principles of Statistics * 4.0
• MCHR 2060 Microbiology for Health Professions 4.0
• NUTR 1020 Foundations of Human Nutrition 3.0
• ZOOL 2420 Human Physiology 4.0
• ZOOL 4400 Pathophysiology 4.0
And a minimum of 4 additional credit hours from any upper-division nursing courses, not otherwise required for the Bachelor of Science degree.

RNs returning to complete BS in Nursing take ZOOL 4400, NURS 2300, and NURS 2310, then proceed to NURS 3400 and higher-numbered courses. NURS 2300 waived if student transcript shows a health assessment course passed with a “C” grade or better. NURS 2310 waived if transcript shows a pharmacology course passed with a “C” grade or better.

Graduation Requirements: 
1 Completion of a minimum of 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 30 credit hours through course attendance at UVU.
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.

Footnotes:
* MATH 1040 is accepted as an alternative to MATH 2040. However, the student may need 1 additional hour of credit (from any course) to meet graduation requirements.

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

- NURS, Nursing
Philosophy

Graduation Requirements:

- Elective Requirements: 9 Credits
  - Complete 9 credits from any 100 level or higher philosophy course.

- Discipline Core Requirements: 16 Credits
  - Complete the following:
    - PHIL 1000 Introduction to Philosophy
    - PHIL 120R Philosophy Forum
    - PHIL 1250 Logical Thinking and Philosophical Writing
    - PHIL 1610 Introduction to Western Religions
    - PHIL 2110 Ancient Greek Philosophy
    - PHIL 2150 Early Modern Philosophy

- Distribution Courses
  - Complete 3 credits from the following:
    - Biology
    - Physical Science
    - Additional Biology or Physical Science
    - Humanities Distribution
    - Fine Arts Direction
    - Social/Behavioral Science

- Graduation Requirements:
  - 1. Completion of a minimum of 60 semester credits.
  - 2. Overall grade point average of 2.0 (C) or above.
  - 3. Residency hours- minimum of 20 credit hours through course attendance at UVU.
  - 4. Completion of GE and specified departmental requirements.

- Elective Requirements: 9 Credits
  - Complete the following:
    - PHIL 2050 Ethics and Values
    - HLTH 1100 Personal Health and Wellness
    - PES 1097 Fitness for Life (2.0)

- Philosophy

Department of Philosophy and Humanities

Department Chair: Michael Minch
Office: LA 121h
Telephone: 801-863-7482

Associate Chair: Karen Mizell
Office: LA 121v
Telephone: 801-863-8758

Faculty:

- Professor
  - Scott Abbott
  - Brian Birch
  - Jeffrey W. Bulger
  - Elaine Englehardt
  - Jeanille Gooch
  - Larry Harper
  - David Keller
  - Karen Mizell
  - Associate Professor
  - Pierre Lamarche
  - Michael Minch
  - Shannon Mussett
  - Dennis Potter
  - Michael Shaw
  - Christine Weigel

College of Humanities and Social Sciences
Dean: David P. Yells
Office: LA 209d
Telephone: 801-863-7435

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
- ENGL 2010 Intermediate Writing—Humanities/Social Sciences
- or ENGL 2020 Intermediate Writing—Science and Technology

Complete one of the following: 3.0

- 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 the following: 3.0

- HIST 2700 US History to 1877
- and HIST 2710 US History since 1877
- and HIST 1740 US Economic History
- and POLS 1000 American Heritage

Complete the following: 3.0

- PES 1097 Fitness for Life

Elective Requirements: 9 Credits

- Complete one of the following:
  - PHIL 2050 Ethics and Values
  - HLTH 1100 Personal Health and Wellness
  - PES 1097 Fitness for Life (2.0)

BA in Philosophy 120 CREDITS

General Education Requirements: 35 Credits

- ENGL 1010 Introduction to Writing
- ENGL 2010 Intermediate Writing—Humanities/Social Sciences
- or ENGL 2020 Intermediate Writing—Science and Technology

Complete one of the following: 3.0

- 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 the following: 3.0

- HIST 2700 US History to 1877
- and HIST 2710 US History since 1877
- and POLS 1000 American Heritage

Complete the following: 3.0

- PES 1097 Fitness for Life

DISCIPLINE REQUIREMENTS

- Complete one of the following:
  - PHIL 1000 Introduction to Philosophy
  - PHIL 120R Philosophy Forum
  - PHIL 1250 Logical Thinking and Philosophical Writing
  - PHIL 1610 Introduction to Western Religions
  - PHIL 1620 Introduction to Eastern Religions
  - PHIL 2110 Ancient Greek Philosophy
  - PHIL 2150 Early Modern Philosophy

Elective Requirements: 9 Credits

- Complete the following:
  - PHIL 2050 Ethics and Values
  - HLTH 1100 Personal Health and Wellness
  - PES 1097 Fitness for Life (2.0)

Optional Philosophy Pre-Major

- Complete one of the following: 2.0
  - PHIL 1000 Introduction to Philosophy
  - PHIL 120R Philosophy Forum
  - PHIL 1250 Logical Thinking and Philosophical Writing
  - PHIL 1610 Introduction to Western Religions
  - PHIL 1620 Introduction to Eastern Religions
  - PHIL 2110 Ancient Greek Philosophy
  - PHIL 2150 Early Modern Philosophy

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.

- Elective Requirements: 9 Credits
  - Complete the following:
    - PHIL 2050 Ethics and Values
    - HLTH 1100 Personal Health and Wellness
    - 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 Direction 3.0
• Social/Behavioral Science 3.0

Discipline Core Requirements: 37 Credits

Complete the following:
• PHIL 120R Philosophy Forum 1.0
• PHIL 2110 Ancient Greek Philosophy 3.0
• PHIL 2150 Early Modern Philosophy 3.0
• PHIL 4910 Philosophy Research Capstone 3.0

Ethics Set (complete 3 credits from the following) 3.0
• PHIL 3510 Business and Professional Ethics (3.0)
• PHIL 3520 Bioethics (3.0)
• PHIL 3530 Environmental Ethics (3.0)
• PHIL 3540 Christian Ethics (3.0)
• PHIL 3700 Social and Political Philosophy (3.0)
• PHIL 450R Interdisciplinary Senior Ethics Seminar (3.0)
• PHIL 451R Ethical Theory Seminar (3.0)

Logic Set (complete 3 credits from the following) 3.0
• PHIL 1250 Logical Thinking and Philosophical Writing (3.0)
• PHIL 3000 Formal Deductive Logic (3.0)
• PHIL 3200 Metaphysics (3.0)
• PHIL 3300 Epistemology (3.0)
• PHIL 3400 Philosophy of Science (3.0)
• PHIL 4140 History of Analytic Philosophy (3.0)
• PHIL 4470 Philosophy of Mind (3.0)
• PHIL 4480 Philosophy of Language (3.0)

Topic Set I (complete 3 credits, not previously completed, from the following) 3.0
• PHIL 3000 Formal Deductive Logic (3.0)
• PHIL 3200 Metaphysics (3.0)
• PHIL 3300 Epistemology (3.0)
• PHIL 3400 Philosophy of Science (3.0)
• PHIL 4140 History of Analytic Philosophy (3.0)

Complete one of the following:
• PHIL 1020 Introduction to Writing 3.0
• PHIL 1300 Intermediate Writing—Humanities/ Social Sciences 3.0
• PHIL 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 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
• PHIL 2110 Early Modern Philosophy (3.0)

Distribution Courses
• Biology 3.0
• Physical Science 3.0
• Additional Biology or Physical Science 3.0
• Humanities Distribution 3.0
• Fine Arts Direction 3.0
• Social/Behavioral Science 3.0

Discipline Core Requirements: 37 Credits

Complete the following:
• PHIL 120R Philosophy Forum 1.0
• PHIL 2110 Ancient Greek Philosophy 3.0
• PHIL 2150 Early Modern Philosophy 3.0
• PHIL 4910 Philosophy Research Capstone 3.0

Ethics Set (complete 3 credits from the following) 3.0
• PHIL 3500 Business and Professional Ethics (3.0)
• PHIL 3520 Bioethics (3.0)
• PHIL 3530 Environmental Ethics (3.0)
• PHIL 3540 Christian Ethics (3.0)
• PHIL 3700 Social and Political Philosophy (3.0)
• PHIL 450R Interdisciplinary Senior Ethics Seminar (3.0)
• PHIL 451R Ethical Theory Seminar (3.0)

Logic Set (complete 3 credits from the following) 3.0
• PHIL 1250 Logical Thinking and Philosophical Writing (3.0)
• PHIL 3000 Formal Deductive Logic (3.0)
• PHIL 3200 Metaphysics (3.0)
• PHIL 3300 Epistemology (3.0)
• PHIL 3400 Philosophy of Science (3.0)
• PHIL 4140 History of Analytic Philosophy (3.0)
• PHIL 4470 Philosophy of Mind (3.0)
• PHIL 4480 Philosophy of Language (3.0)

Complete one of the following:
• PHIL 1020 Introduction to Writing 3.0
• PHIL 1300 Intermediate Writing—Humanities/ Social Sciences 3.0
• PHIL 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 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
• PHIL 2110 Early Modern Philosophy (3.0)

Distribution Courses
• Biology 3.0
• Physical Science 3.0
• Additional Biology or Physical Science 3.0
• Humanities Distribution 3.0
• Fine Arts Direction 3.0
• Social/Behavioral Science 3.0

Elective Requirements: 48 Credits
• One Foreign Language 1.0
• Any course 1000 or higher, 16 credits must be upper-division

Graduation Requirements:
1. Completion of a minimum of 120 semester credits.
2. Overall grade point average of 2.0 (C) or above.
3. Residency hours—minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. Completion of 40 hours of upper-division credit.
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.

Minor in Philosophy 18 Credits

Matriculation Requirements:
1. Enrollment at Utah Valley University
2. Overall grade point average of 2.0 (C) or better.
3. Admitted to a bachelor degree program at UVU.

Discipline Core Requirements: 18 Credits

Complete one of the following:
• PHIL 2110 Ancient Greek Philosophy (3.0)
• PHIL 2150 Early Modern Philosophy (3.0)

Complete 15 additional credit hours of philosophy courses (9 credit hours must be 3000 or higher level; no more than 6 credit hours may be at the 1000 level. Philosophy 2050 does not count for this requirement.)

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

Complete 3 credits from the following: 3.0
• PHIL 1000 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

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

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 3600 Philosophy of Religion (3.0)
• RLST 3650 Approaches to Religious Studies (3.0)
• RLST 368R 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)
Philosophy

- 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
- PHIL, Philosophy
- RLST, Religious Studies
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:
• 1 PHYS 2210, PHYS 2220, and approval of department chair.

General Education Requirements: 26 Credits
• ENGL 1010 Introduction to Writing
• ENGL 2020 Intermediate Writing—Science and Technology

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
• HLTH 1100 Personal Health and Wellness (2.0)
• or PES 1097 Fitness for Life

Distribution Courses
• Biology
• Humanities Distribution
• Fine Arts Distribution
• Social/Behavioral Science

Discipline Core Requirements: 71 Credits
• PHYS 2210 Physics for Scientists and Engineers I
• PHYS 2215 Physics for Scientists and Engineers I Lab
• PHYS 2220 Physics for Scientists and Engineers II
• PHYS 2225 Physics for Scientists and Engineers II Lab
• PHYS 3210 Introduction to Experimental Physics I
• PHYS 3220 Introduction to Experimental Physics II
• PHYS 3230 Principles of Electronics for the Physical Sciences
• PHYS 3300 Mathematical Physics
• PHYS 3400 Classical Mechanics
• PHYS 3500 Thermodynamics
• PHYS 3740 Modern Physics
• PHYS 4120 Advanced Experimental Techniques
• PHYS 4300 Computational Physics
• PHYS 4410 Electrostatics and Magnetism
• PHYS 4600 Optics
• PHYS 469R Seminar (0.5 credits, taken 4 times) (0.5)
• CS 1400 Fundamentals of Programming
• MATH 1210 Calculus I
• MATH 1220 Calculus II
• MATH 2210 Calculus III
• MATH 2280 Introduction to Ordinary Differential Equations

Complete 9 credits from the following:
• PHYS 3030 Astrophysics
• PHYS 4220 Electrodynamics
• PHYS 4510 Quantum Mechanics I
• PHYS 4520 Quantum Mechanics II
• PHYS 4700 Acoustics
• PHYS 4800 Solid State Physics
• PHYS 499A Senior Project
• PHYS 499B Senior Thesis

Elective Requirements: 23 Credits
• Complete all 1000 level or higher

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.

PHYS 1610 College Biology I (4.0)
PHYS 1615 College Biology I Laboratory (1.0)
PHYS 1620 College Biology II (3.0)
PHYS 1625 College Biology II Laboratory (1.0)
Any BIOL course 3400 or higher except internship and independent study type courses.
Physics

- 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 CS course 1410 or higher except internship and independent study type courses.
- Any ENGS course 2310 or higher except internship and independent study type courses.
- Any ENGR course 2010 or higher except internship and independent study type courses.
- Any ENGR course 2010 or higher except internship and independent study type courses.
- HIST 4320 History of Scientific Thought (3.0)
- MATH 2270 Linear Algebra (3.0)
- Any MATH course 3200 or higher except internship and independent study type courses.
- GEO 1010 Introduction to Geology (1.0)
- GEO 1015 Introduction to Geology Laboratory (1.0)
- GEO 1220 Historical Geology (3.0)
- GEO 1225 Historical Geology Laboratory (1.0)
- Any GEO course 3080 or higher except internship and independent study type courses.
- HIST 4320 History of Scientific Thought (3.0)
- MATH 2270 Linear Algebra (3.0)
- Any MATH course 3200 or higher except internship and independent study type courses.
- METO 3100 Climate and the Earth System (3.0)
- PHYS 3050 Astrophysics (3.0)
- PHYS 3800 Energy use on Earth (3.0)
- PHYS 4100 Biophysics (3.0)
- PHYS 4420 Electrodynamic* (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 481R Physics Internship (1.0)
- PHYS 492R Topics in Physics (may only be taken once toward degree credit) (3.0)
- PHYS 495R Independent Readings (1.0)
- PHYS 499A Senior Project* (2.0)
- PHYS 499B Senior Thesis* (1.0)
- ZOOL 2320 Human Anatomy (4.0)
- ZOOL 2420 Human Physiology (4.0)
- See Physics Department academic advisor for possibly more complete and up-to-date list.

Graduation Requirements:
- 1 Completion of a minimum of 120 semester credits.
- 2 Overall grade point average of 2.0 (C) or above with no grade lower than a “C” in core and elective requirement courses.
- 3 Residency hours—minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
- 4 Completion of GE and specified departmental requirements.
- 5 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.
- 6 Complete all chemistry and physics courses with a minimum grade of “C-” or better.
- 7 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.

Minor in Physics 20 Credits

Matriculation Requirements:
- 1 Admitted to a bachelor degree program at UVU.

Discipline Core Requirements: 20 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 3010 Physics Experiments for Secondary Education 1.0
- PHYS 3740 Modern Physics 3.0

Education Courses:
- EDSC 3250 Science Education 1.0
- EDSC 4250 Principles of Science Education 1.0
- EDSC 4540 Educational Assessment 1.0
- EDSC 4550 Multicultural Instruction ESL 1.0
- EDSC 4550 Secondary Curriculum Instruction and Assessment 1.0
- EDSC 4850 Student Teaching—Secondary (4.0) 8.0
- EDSP 3400 Exceptional Students 2.0

Complete one of the following sets: 11.0

CHEMISTRY:
- CHEM 3060 Physical Chemistry I (4.0)
- CHEM 3100 Advanced Inorganic Chemistry (4.0)
- PHYS 3050 Astrophysics (3.0)

PHYSICS:
- PHYS 3210 Introduction to Experimental Physics (2.0)
- PHYS 490R Seminar (0.5)

Complete 9 credits from the following:
- PHYS 3050 Astrophysics (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)

Graduation Requirements:
- 1 A minimum grade of “C” must be earned in all minor courses.

See Course Descriptions section of the catalog for detailed course information. This department manages the following course prefixes:
- ASTR, Astronomy
- PHYS, Physical Science
- PHYS, Physics

** Strongly recommended for inclusion in any elective option.
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 leaders, both public and private. 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. Upper division courses apply toward a BA/BS in Political Science and the Integrated Studies Social Sciences emphasis and may service as electives in other programs. (See specific program requirements.)

**BA in Political Science 120 Credits**

**General Education Requirements: 36 Credits**
- ENGL 1010 Introduction to Writing 3.0
- ENGL 2020 Intermediate Writing—Humanities/ Social Science 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 Social Science 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 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)

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 (Fulfilled by completing Foreign Language Course 202G) 4.0
- Fine Arts Distribution (3.0)
- Social/Behavioral Science (3.0)

**Discipline Core Requirements: 21 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 4990 Senior Seminar (3.0)
- POLS 480R Internship (2.0)

**Emphasis**: Complete one of the following:

- American Government (18.0)
- International Relations (18.0)
- Political Philosophy/Public Law (18.0)

**Elective Requirements: 46 Credits**

- Complete the 1010, 1020, and 2010 courses from one foreign language (12.0)
- Complete courses numbered 1000 or higher (at least 16 credits must be upper-division) (33.0)

**Graduation Requirements**

1. Completion of a minimum of 120 or more semester credits, 40 credits must be upper-division.
2. Overall grade point average of 2.0 (C) or above, with no POLS course grade lower than a C-
3. Residency hours: minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. Completion of 16 credit hours of course work from one language to include the 1010, 1020, 2010, and 202G levels or transferred equivalents.
6. Students completing a bachelor degree following the 2010 or later catalog must complete one course that meets the Global/Intercultural Requirement, indicated by a course number ending in 'G'. For a complete list, see page 25.

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**Emphasis in American Government 18 Credits**

**Emphasis Requirements:**

Complete 18 credits from the following courses:
- POLS 3030 State and Local Government (3.0)
- POLS 3150 US Presidency (3.0)
- POLS 3180 Public Opinion and Political Behavior (3.0)
- POLS 320H 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 International Relations 18 Credits**

**Emphasis Requirements:**

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 3440 American Foreign Policy (3.0)
- POLS 3500 International Relations of the Middle East (3.0)
- POLS 3600 International Relations of East Asia (3.0)
- POLS 420R Issues and Topics in Political Science (3.0)
- POLS 490R Independent Study (1.0)
- HIST 3050 Modern Latin America (3.0)
- HIST 3520 The United States and Vietnam--1945 to Present (3.0)
- HIST 3610 The Modern History of East Asia (3.0)
- HIST 430G Violence and Social Conflict in Latin America (3.0)
- HIST 4430 History of Iran--1900 to Present (3.0)
- ANTH 107G Multicultural Societies (3.0)
- ANTH 3000 Language and Culture (3.0)
- MGMT 3300 Survey of International Business (3.0)
- MGMT 332G Cross-Cultural Communications for International Business (3.0)
- PHIL 1610 Introduction to Western Religions (3.0)
- or PHIL 1620 Introduction to Eastern Religions (3.0)

**Emphasis in Political Philosophy/Public Law 18 Credits**

**Emphasis Requirements:**

Complete 18 credits from the following courses:
- POLS 230G Introduction to Political Theory (3.0)
- POLS 3030 State and Local Government (3.0)
- POLS 3180 Public Opinion and Political Behavior (3.0)
- POLS 320H 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)
### Political Science

- **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 3200** Race and Minority Relations (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)
- **MATH 1050** College Algebra (recommended for Business, Education, Science, and Health Professions majors)

Complete one of the following:

- **HIST 1700** American Civilization (3.0)
- **HIST 2700** US History since 1877 (3.0)
- **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
- **PHIL 3530** Environmental Ethics (3.0)
- **POLS 3700** Social and Political Philosophy (3.0)
- **SOC 3200** Race and Minority Relations (3.0)
- **SOC 3460** Political Sociology (3.0)

#### Distribution Courses:

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

#### Discipline Core Requirements: 36 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 4990** Senior Seminar (3.0)
- **PHIL 4800** Internship (2.0)

Quantitative Requirement: Complete 15 credits from the following courses:

- **CLSS 1050** Library Research (1.0)
- **COMM 1130** Writing for the Mass Media (3.0)
- **COMM 1500** Introduction to Mass Communication (3.0)
- **MATH 1060** Trigonometry (3.0)
- **MATH 1210** Calculus I (5.0)
- **MATH 2040** Principles of Statistics (4.0)
- **MGMT 2390** Effective Business Presentations (3.0)
- **MGMT 3000** Organizational Behavior (3.0)
- **MGMT 3430** Human Resource Management (3.0)
- **ECON 4150** Public Finance (3.0)

#### Emphasis

Complete one of the following:

- American Government
- International Relations
- Political Philosophy/Public Law

#### Elective Requirements: 30 Credits

- Complete courses numbered 1000 or higher at 3.0 (at least 16 credits must be upper-division)

#### Graduation Requirements:

1. A minimum of 120 or more semester credits, 40 credits must be upper-division.
2. A grade point average of 2.0 (C) or above, with no POLS course grade below C-.
3. Residence 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 18 credit hours of course work from one language to include the 1010, 1020, 2010, and 2020 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 list, see page 25.

### Emphasis in American Government 18 Credits

**Emphasis Requirements:** Complete 18 credits from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLS 3030 State and Local Government (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 3150 US Presidency (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 3180 Public Opinion and Political Behavior (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 3200 US Congress (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 420R Issues and Topics in Political Science (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 490R Constitutionalism (3.0)</td>
<td></td>
</tr>
<tr>
<td>PHIL 3530 Environmental Ethics (3.0)</td>
<td></td>
</tr>
<tr>
<td>PHIL 3700 Social and Political Philosophy (3.0)</td>
<td></td>
</tr>
<tr>
<td>SOC 320G Race and Minority Relations (3.0)</td>
<td></td>
</tr>
</tbody>
</table>

### Emphasis in International Relations 18 Credits

**Emphasis Requirements:** Complete 18 credits from the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLS 1440 Introduction to Middle East Politics (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 1800 Our Global Community (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 3100 Survey of International Terrorism (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 3400 American Foreign Policy (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 3500 International Relations of the Middle East (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 3600 International Relations of East Asia (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 420R Issues and Topics in Political Science (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 3520 The United States and Vietnam 1945 to Present (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 3610 The Modern History of East Asia (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 4300 Contemporary Chinese History since 1860 (3.0)</td>
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<tr>
<td>HIST 4400 American History since 1860 (3.0)</td>
<td></td>
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<tr>
<td>HIST 4500 Constitutional History since Plessy 1896 (3.0)</td>
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</tr>
<tr>
<td>HIST 4600 Contemporary American Indian Political and Social Issues (3.0)</td>
<td></td>
</tr>
<tr>
<td>MGMT 3320 Cross-Cultural Communications for International Business (3.0)</td>
<td></td>
</tr>
<tr>
<td>MGMT 332G Introduction to Western Religions (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 420R Introduction to Eastern Religions (3.0)</td>
<td></td>
</tr>
<tr>
<td>PHIL 480R Internship* (2.0)</td>
<td></td>
</tr>
</tbody>
</table>

#### Graduation Requirements:

1. Complete all history courses with a grade of “C-” or better.
2. Only 3 credits of internship will be accepted.

### Minor in Political Science 18 Credits

**Matriculation Requirements:**

1. Completion of one of the following prerequisites: POLS 1100, American History, POLS 1120, Introduction to Political Science; or POLS 1100, American National Government.
2. Admitted to a bachelor degree program at UVU.

**Discipline Core Requirements: 18 Credits**

Complete two of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLS 1020 Political Ideologies (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 1440 Introduction to Middle East Politics (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 2200 Introduction to Comparative Politics (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 2100 Introduction to International Relations (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 1800 Our Global Community (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 2120 Political Parties (3.0)</td>
<td></td>
</tr>
</tbody>
</table>

Complete two of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLS 3030 State and Local Government (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 3150 US Presidency (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 3200 US Congress (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 3250 Introduction to Law and Politics (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 4800 Constitutionalism (3.0)</td>
<td></td>
</tr>
<tr>
<td>PHIL 3530 Environmental Ethics (3.0)</td>
<td></td>
</tr>
<tr>
<td>PHIL 3700 Social and Political Philosophy (3.0)</td>
<td></td>
</tr>
<tr>
<td>SOC 320G Race and Minority Relations (3.0)</td>
<td></td>
</tr>
<tr>
<td>PHIL 480R Internship* (2.0)</td>
<td></td>
</tr>
</tbody>
</table>

#### Graduation Requirements:

1. Complete all history courses with a grade of “C-” or better.
2. Only 3 credits of internship will be accepted.

### 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 Political Philosophy/Public Law 18 Credits

**Emphasis Requirements:** Complete 18 credits from the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLS 1020 Political Ideologies (3.0)</td>
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<tr>
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<td></td>
</tr>
<tr>
<td>POLS 2200 Introduction to Comparative Politics (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 2100 Introduction to International Relations (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 1800 Our Global Community (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 2120 Political Parties (3.0)</td>
<td></td>
</tr>
</tbody>
</table>

Complete two of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>POLS 3030 State and Local Government (3.0)</td>
<td></td>
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<tr>
<td>POLS 3150 US Presidency (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 3200 US Congress (3.0)</td>
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<tr>
<td>POLS 4800 Constitutionalism (3.0)</td>
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</tr>
<tr>
<td>SOC 320G Race and Minority Relations (3.0)</td>
<td></td>
</tr>
<tr>
<td>PHIL 480R Internship* (2.0)</td>
<td></td>
</tr>
</tbody>
</table>

#### Graduation Requirements:

1. Complete all history courses with a grade of “C-” or better.
2. Only 3 credits of internship will be accepted.
• 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 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: 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).

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:** Darin Taylor  
**Office:** CS 704  
**Telephone:** 801-863-8168

**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

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 to a baccalaureate university to complete their engineering degree. 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.

### AS Pre Major in Pre-Engineering 63 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 1210</td>
<td>Calculus I</td>
<td>5.0</td>
</tr>
<tr>
<td>HIST 1700</td>
<td>American Civilization (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 2700</td>
<td>US History to 1877 (3.0)</td>
<td></td>
</tr>
<tr>
<td>HIST 2710</td>
<td>US History since 1877 (3.0)</td>
<td></td>
</tr>
<tr>
<td>MATH 1740</td>
<td>US Economic History (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 1000</td>
<td>American Heritage (3.0)</td>
<td></td>
</tr>
<tr>
<td>POLS 1100</td>
<td>American National Government (3.0)</td>
<td></td>
</tr>
<tr>
<td>PHIL 2050</td>
<td>Ethics and Values</td>
<td>3.0</td>
</tr>
<tr>
<td>HLTH 1100</td>
<td>Personal Health and Wellness (2.0)</td>
<td></td>
</tr>
<tr>
<td>PES 1097</td>
<td>Fitness for Life</td>
<td>2.0</td>
</tr>
<tr>
<td>CHEM 2120</td>
<td>Principles of Chemistry I</td>
<td>4.0</td>
</tr>
<tr>
<td>PHYS 2210</td>
<td>Physics for Scientists and Engineers I</td>
<td>4.0</td>
</tr>
<tr>
<td>HUM 3000</td>
<td>Humanities</td>
<td>3.0</td>
</tr>
<tr>
<td>FA 3000</td>
<td>Fine Arts</td>
<td>3.0</td>
</tr>
<tr>
<td>PSY 3000</td>
<td>Social/Behavioral Science</td>
<td>3.0</td>
</tr>
<tr>
<td>BIO 3000</td>
<td>Biology</td>
<td>3.0</td>
</tr>
</tbody>
</table>

#### Distribution Courses: 43 Credits

**Engineering Emphasis:**
- PHYS 2215: Physics for Scientists and Engineers I Lab (1.0)
- CHEM 2125: Principles of Chemistry II (3.0)
- ENGR 1000: Introduction to Engineering (3.0)
- CS 2810: Computer Organization and Architecture (3.0)

**General Education Requirements:**
- 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)
- EEENG 2270: Circuit Theory (3.0)
- EEENG 2275: Circuit Theory Lab (1.0)

**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

**Math and Science Electives:**
- MATH 2210: Calculus III (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)

**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 (4.0)

**Civil and Mechanical Engineering Electives:**
- EENG 2210: Fundamentals of Electric Circuit Analysis (3.0)
- ENGR 2300: Thermal Dynamics (3.0)
- EGD 1040: Computer Aided Drafting—AutoCAD (3.0)
- EGD 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:
- 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 through course attendance at UVU.
- Completion of GE and specified departmental requirements.
APE in Associate in Pre-Engineering 68-69 C redits

**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 4.0
- 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) 6.0
- Fine Arts (from list) 3.0
- 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)
- 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

**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 2200 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 (4.0)
- CHEM 2310 Principles of Chemistry II (4.0)
- CHEM 2315 Principles of Chemistry II Laboratory (1.0)
- CHEM 2320 Organic Chemistry I (4.0)
- CHEM 2325 Organic Chemistry I Laboratory (1.0)
- 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)

**Emphasis in Civil and Mechanical Engineering 22 Credits**

**Emphasis Requirements:** 9 Credits
- ENGR 2210 Engineering Statics 3.0
- ENGR 2300 Engineering Thermodynamics (3.0)
- ENGR 2450 Computational Methods for Engineering Analysis (3.0)
- ENGR 295R Special Topics (Must be taken 3 times) (1.0)
- MATH 2210 Calculus III (3.0)
- MATH 2270 Linear Algebra (3.0)
- MATH 2280 Ordinary Differential Equations (3.0)

**Emphasis in Computer and Electrical Engineering 23 Credits**

**Emphasis Requirements:** 8 Credits
- EENG 2270 Circuit Theory (3.0)
- EENG 2275 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 2215 Fundamentals of Electric Circuit Analysis (3.0)
- ENGR 2300 Engineering Thermodynamics (3.0)
- ENGR 2450 Computational Methods for Engineering Analysis (3.0)
- ENGR 295R Special Topics (Must be taken 3 times) (1.0)
- MATH 2210 Calculus III (3.0)
- MATH 2270 Linear Algebra (3.0)
- MATH 2280 Ordinary Differential Equations (3.0)

See Course Descriptions section of the catalog for detailed course information. This department manages the following course prefixes:
- EART, Earth Science
- EGER, Environmental Science
- EGR, Engineering
- EMT, Mechatronics
Public and Community Health

Department Chair: Robert Walsh
Office: PE 147b
Telephone: 801-863-6193
E-mail: walshbo@uvu.edu

Faculty:
Professor
Vance G. Hillman
Reba Keele
Robert Walsh

Associate Professor
Brian Barthele
Lori Richards
Lynley Rowan

Assistant Professor
Mary Brown
Matthew Flint
TeriSue Jackson

Administrative Assistant: Kristie Dockstader
Office: PE 147
Telephone: 801-863-8980

Advisor: Becca Brimhall
Office: PE 151d
Telephone: 801-863-6579

College of Science and Health
Dean: Sam Rushforth
Office: PS 201a
Telephone: 801-863-8980

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.

PROGRAMS

AA Pre major in Community Health

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)

Primary Distribution Courses: 30 Credits
- 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 National Government (3.0)
- NUTR 1020 Nutrition Through the Life Cycle (3.0)
- HLTH 2800 Introduction to Environmental Health Professions (2.0)
- HLTH 3240 Womens Health Issues (3.0)
- MGMT 3000 Foundations of Physical Education (3.0)
- PSY 1100 Human Development Life Cycle (3.0)
- PSY 2250 Psychology of Interpersonal Relationships (3.0)

Elective Requirements: 8 Credits
- Same Foreign Language (1010 and 1020) 8.0

BS in Community Health

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: 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: 21 Credits
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
Health Education Distribution 3.0
Fine Arts Distribution 3.0
Social/Behavioral Science (HLTH 2800) 3.0
Recommended: 3.0

Distribution Requirements: 18 Credits
ZOOL 1090 Introduction to Human Anatomy and Physiology 3.0
ENVT 2560 Environmental Health 3.0
HIST 3260 Principles of Community Health 3.0
HLTH 3260 Modifying Health Behavior 3.0
HLTH 3400 Human Diseases 3.0
HLTH 4050 Foundations of Education 3.0
Emphasis Courses
Complete one of the following: 67 Credits
Community Health Education 67.0
or Health Services Administration 67.0
Graduation Requirements:
1. Completion of a minimum of 120 semester credits with a minimum of 40 upper-division credits. A minimum of at least 10 hours earned in the last 45 hours must be earned at UVU. 2. A minimum of 34 credit hours must be in the major with a minimum of 20 credits taken at UVU. A minimum of 20 Health Education credits must be upper-division.
3. Complete the following courses with a minimum grade of C- or better: HLTH 3200, HLTH 4050, and all Emphasis Courses.
4. Overall grade point average of 2.25 or above with a minimum GPA of 2.5 in Major and Minor courses.
5. Completion of GE and specified departmental requirements.
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.

Emphasis in Community Health Education 67 Credits
Emphasis Requirements: 33 Credits
Nutrition 3.0
HLTH 2510 Media and Computer Applications in Health 3.0
HLTH 2600 Drugs Behavior and Society 3.0
HLTH 3800 Social Promotion 3.0
HLTH 4150 Community Health Program 3.0
HLTH 4300 Community Health Ethics 3.0
HLTH 4600 Research Methods for Community Health 3.0
or HLTH 3700 Grant Writing 3.0
or HLTH 4520 Community Health Internship (2.0) 6.0
or HLTH 4530 International Health Education Internship 3.0
Emphasis Elective Requirements: 34 Credits
Complete 12 credits of the following at least 6 of which 12.0 are upper division:
HLTH 1200 First Aid (2.0)
HLTH 2000 Body Image, Self-Esteem, and Weight Management (3.0)
HLTH 2400 Concepts of Stress Management (3.0)
HLTH 2800 Human Sexuality (3.0)
HLTH 3000 Health Concepts of Death and Dying (3.0)
HLTH 3240 Womens Health Issues (3.0)
HLTH 3250 Consumer Health (3.0)
HLTH 3300 Health Promotion for Older Adults (3.0)
HLTH 350G International Health (3.0)
HLTH 4250 Health Services Organization and Policy (3.0)
HLTH 440G Health and Diversity (3.0)
HLTH 490R Special Topics in Community Health (1.0)
NUTR 2020 Nutrition Through the Life Cycle (2.0)
Complete 22 credits of any courses 1000 or higher (minor).

Emphasis in Health Services Administration 67 Credits
Emphasis Requirements: 80 Credits
HLTH 3300 Health Promotion for Older Adults 3.0
HLTH 3800 Epidemiology 3.0
HLTH 3700 Grant Writing 3.0
or HLTH 4600 Research Methods for Community Health 3.0
HLTH 4150 Community Health Program 3.0
HLTH 4250 Health Services Organization and Policy 3.0
HLTH 4300 Community Health Ethics 3.0
HLTH 4500 Public Health Administration 3.0
HLTH 492R Health Internship (2.0) 6.0
or HLTH 483R International Health Education Internship (2.0)
ECON 2020 Macroeconomics 3.0
MGMT 2240 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
MGMT 3600 Principles of Marketing 3.0
ACC 2010 Financial Accounting 3.0
ACC 2020 Managerial Accounting 3.0
INFO 3120 Principles of Information Systems-- A Managerial Approach 3.0
LEGL 3160 Health Care Law 3.0
Emphasis Elective Requirements: 7 Credits
Complete any courses 1000 or higher 7.0

BS in School Health Education 124 Credits
Matriculation 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 or ENGL 2020 Intermediate Writing--Science and Technology (3.0) 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 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

Minor in Community Health Education 21 Credits
Matriculation Requirements:
1. Admitted to a bachelor degree program at UVU.
Discipline Core Requirements: 18 Credits
NUTR 1020 Foundations of Human Nutrition 3.0
HLTH 2600 Drugs Behavior and Society 3.0
HLTH 2800 Human Sexuality 3.0
HLTH 3200 Principles of Community Health 3.0
HLTH 3260 Modifying Health Behavior 3.0
HLTH 4050 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 3200 Principles of Community Health 3.0
HLTH 3260 Modifying Health Behavior 3.0
HLTH 4050 Foundations of Health Education 3.0
Election 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: 21 Credits
NUTR 1020 Foundations of Human Nutrition 3.0
HLTH 2600 Drugs Behavior and Society 3.0
HLTH 2800 Human Sexuality 3.0
HLTH 3200 Principles of Community Health 3.0
HLTH 3260 Modifying Health Behavior 3.0
HLTH 4050 Foundations of Health Education 3.0
Frontline Health Care 3.0
Social/Behavioral Science 3.0
Discipline Core Requirements: 70 Credits
ZOOL 1090 Introduction to Human Anatomy and Physiology 3.0
ENVT 2560 Environmental Health 3.0
HLTH 3200 Principles of Community Health 3.0
HLTH 3260 Modifying Health Behavior 3.0
HLTH 3400 Human Diseases 3.0
HLTH 4050 Foundations of Health Education 3.0
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 3200 Principles of Community Health 3.0
HLTH 3260 Modifying Health Behavior 3.0
HLTH 4050 Foundations of Health Education 3.0
• HLTH 4100 Health Education Curriculum for Secondary Teachers 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 Community Health 18 CREDITS

Emphasis Requirements: 18 Credits
Complete the following:
• HLTH 3200 Principles of Community Health 3.0
• HLTH 4050 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 many special skills and experiences which will enable them to compete as leaders in the military and/or business, civic, and community affairs.

Scholarships

ROTC offers many two, three, and four-year scholarships for which students may compete, awarded on merit. The scholarships pay full tuition, textbook costs, lab, and other required college fees, related education expenses such as classroom materials, and a $350-500 per month subsistence allowance. These scholarships are among the finest scholarships offered and can be used at hundreds of other universities and colleges across the United States for students to complete their baccalaureate degree. ROTC military and leadership training provides ROTC graduates with many special skills and experiences which will enable them to compete as leaders in the military and/or business, civic, and community affairs.

Aerospace Studies (Air Force)

All students in the Air Force ROTC program must attend a four- or six-week field training camp at an Air Force base, usually in the summer between sophomore and junior years.

Military Science (Army)

A five-week Advanced Leadership Course is required in the summer between the junior and senior years.

All Army ROTC students are required to attend a leadership laboratory for two and one-half hours each week. Practical experience in leadership applications such as small unit tactics, rappelling, weapons familiarization, etc., are emphasized during laboratory periods.

Cadets are also required to participate in scheduled morning/afternoon fitness training.

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 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
Complete one of the following: 3.0
- HIST 3450 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: 3.0
- COMM 3520 Case Studies in Public Relations (3.0)
- CJ 3040 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)
- MILS 4200 American Foreign Policy (3.0)
- POLS 3600 International Relations of East Asia (3.0)

Notes:
- 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.
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

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Faculty:
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College of Technology and Computing
Dean: Ernest Carey
Office: CS 720
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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 63 Credits

General Education Requirements: 16 Credits
• ENGL 1010 Introduction to Writing (3.0)
• EGDIT 1050 Technical Math—Algebra
or MATH 1003 Quantitative Reasoning (3.0)
• MATH 1040 Introduction to Statistics (3.0)
• BIOL 2100 College Algebra (4.0)
• BIOL 2800 Biology / Physical Science (3.0)
• BIOL 2900 Health / PE / Safety / Environment (1.0)
• HUM 2100 Humanities / Fine Arts (3.0)
• TECH 2000 Technology and Human Life (3.0)

Technology Core Requirements: 23 Credits
• TECH 1010 Technical Experiential Credit (1.0)
• TECH 1020 Understanding Technology (3.0)
• TECH 1030 Supervision in Technology (3.0)
• TECH 1040 Technical Area Credits - With advisor approval, students must select a minimum of 6 credits.

Elective Requirements: 24 Credits

This degree MAY apply toward the BS in Technology Management. The AAS Degree in Technology has been designed for individuals working in a technical area or combination of related areas. Students must select a minimum of 24 credits of electives from the following or Advisor approved courses:

• TECH 1010 Technical Experiential Credit (Maximum of 10 in addition to the core.) (1.0)
• Additional Technical Area credits as approved by Advisor.

• ANTH 101G Social/Cultural Anthropology (3.0)
• BIOL 1010 General Biology (3.0)
• BIOL 1015 General Biology Laboratory (1.0)
• BIOL 1070 Heredity (3.0)
• CHEM 1010 Introduction to Chemistry (3.0)
• CHEM 1110 Elementary Chemistry for the Health Sciences (4.0)
• CHEM 111G Elementary Chemistry Laboratory (1.0)
• CLSS 1000 University Student Success (3.0)
• CLSS 1200 The 7 Habits of Highly Effective People (3.0)
• COMM 1050 Introduction to Speech Communication (3.0)
• COMM 1500 Introduction to Mass Communication (3.0)
• COMM 2100 Mass Communication and Society (3.0)
• ENGR 1000 Introduction to Engineering (3.0)
• ENV 1110 Introduction to Environmental Management (3.0)
• ENV 1510 Hazardous Materials Emergency Response (3.0)
• ENV 2600 Skills for Humanitarian Projects (3.0)
• GEO 1010 Introduction to Geology (3.0)
• GEO 1015 Introduction to Geology Laboratory (1.0)
• MAT 1010 Intermediate Algebra (4.0)
• PHYS 1000 Survey of Physical Science (3.0)
• PHYS 1010 Elementary Physics (3.0)
• PHYS 3800 Energy use on Earth (3.0)
• 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 departmental requirements.
5. This degree MAY apply toward the BS in Technology Management, if the majority of course work is in a related technical area, and has been approved by the department to be used toward the BSTM.

BS in Technology Management 125 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 Introduction to Statistics (3.0)
• MATH 1810 Calculus and Analytic Geometry (5.0)
• Complete one of the following: (3.0)
• HIST 2120 US History since 1877 (3.0)
or HIST 2121 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 (3.0)

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Technology Management

- HLTH 1100 Personal Health and Wellness (2.0)
- or PES 1037 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)
- TECH 2000 Technology and Human Life (Fullfills Social/Behavioral Science) (3.0)

Discipline Core Requirements: 30 Credits
Meet with Technology Management advisor to complete a degree plan prior to enrollment in Technology Management courses.
- TECH 3000 Introduction to Technology Management (3.0)
- TECH 3010 Creativity Innovation and Change Management (3.0)
- or MGMT 3170 Entrepreneurship (3.0)
- TECH 3400 Project Management (3.0)
- TECH 3850 Quality Assurance in Technology Management (3.0)
- TECH 405G Global Ethical and Professional Issues in Technology (3.0)
- TECH 4420 Organization Information Technologies (3.0)
- TECH 4820 Current Topics in Technology Management (2.0)
- TECH 4910 Senior Capstone Project (3.0)
- ACC 3000 Financial Management and Cost Accounting Concepts (4.0)
- MGMT 3430 Human Resource Management (3.0)

Emphasis Requirements: 45 Credits
See specific Technical Area for the 45 credit requirement.

Elective Requirements: 15 Credits
- Complete 15 credits from the following: (15.0)
  - TECH 3700 Materials Management (3.0)
  - TECH 4000 Reliability Engineering and Safety Systems (3.0)
  - TECH 4200 Technology Marketing and Distribution (3.0)
  - TECH 4400 Advanced Project Management (3.0)
  - TECH 481R Internship (Up to 3 credits may be selected) (1.0)
  - TECH 489R Undergraduate Research in Technology Management (1.0)
  - TECH 497R Independent Study (Up to 4 credit hours may be selected) (1.0)
  - LEGL 3000 Business Law (3.0)
  - ENGL 4310 Advanced Technical Communication (3.0)
  - MGMT 3450 Operations Management (3.0)
  - MGMT 3470 Lean Management Systems (3.0)
  - Up to 6 credits toward Leadership Certification with the Center for the Advancement of Leadership.
- Students may select up to 9 credits of other upper division technology related courses with advisor approval.

Graduation Requirements:
1. Completion of a minimum of 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. Residency hours—minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
5. Completion of GE and specified departmental requirements.
6. 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: No upper-division Technology Management (i.e. Technology Management or Business Management) course work older than six years can be counted toward graduation.

Emphasis in Automotive Technology

Emphasis Requirements: 45 Credits

Elective Requirements: 12 Credits
Complete 12 credits from the following: (12.0)

- AVSC 1010 Introduction to Aviation Science (3.0)
- AVSC 1050 Aircraft Identification (1.0)
- AVSC 2050 Introduction to Aviation Security (3.0)
- AVSC 2230 Theory of Instruction (1.0)
- AVSC 2400 Ground Certified Flight Instructor (3.0)
- AVSC 2410 Flight Certified Flight Instructor (1.0)
- AVSC 2420 Ground CFI Instrument (1.0)
- AVSC 2430 Flight CFI Instrument (1.0)
- AVSC 2450 Ground Multi-Engine Instructor (1.0)
- AVSC 2510 Flight Multi-Engine Instructor (1.0)
- AVSC 281R Cooperative Work Experience (1.0)
- AVSC 285R Cooperative Related Class (1.0)
- AVSC 2860 SkillsUSA (1.0)
- AVSC 3020 Aviation Insurance and Risk Management (3.0)
- AVSC 3100 Corporate Aviation Management (3.0)
- AVSC 3120 Airport Management (3.0)
- AVSC 3140 Fixed Base Operations Management (3.0)
- AVSC 410G Global Ethical and Professional Issues in Aviation (3.0)
- AVSC 475R Current Topics in Aviation (1.0)
- AVSC 481R Cooperative Work Experience (1.0)
- AVSC 485R Cooperative Related Class (1.0)

Graduation Requirements:
1. Students should take no more than 4 credit hours of aviation co-op (AVSC 286R/2869/286R/485R) toward the aviation elective section of the Technology Management degree.

Emphasis in Building Construction and
Construction Management

Emphasis Requirements: 46 Credits

Elective Requirements: 15 Credits
- BCCM 1110 Principles of Residential Framing (3.0)
- BCCM 1120 Blueprint Reading (2.0)
- BCCM 1150 Building Construction Safety (1.0)
- BCCM 1170 Principles of Mechanical Electrical and Plumbing Design (2.0)
- BCCM 1190 Framing and Concrete Lab (5.0)
- BCCM 1210 Principles of Finish Carpentry (3.0)
- BCCM 1220 Finishing Lab (5.0)
- BCCM 1230 Construction Estimating (2.0)
- BCCM 1240 Roofs Stairs and Specialty Framing (2.0)
- BCCM 1250 Utah Contractors License (3.0)
- BCCM 1280 Computer Estimating (2.0)
- CMGT 1020 Construction Materials and Methods I (3.0)
- CMGT 3300 Principles of Construction Scheduling (3.0)
- BIT 1010 Building Codes (3.0)
- or BIT 1020 Residential Codes (3.0)
- EGDT 1400 Surveying (4.0)
- EGDT 1020 3D Architectural Modeling (3.0)
- or EGDT 1090 Introduction to Architecture Drafting (3.0)

Emphasis in

Building Inspection Technology

Emphasis Requirements: 45 Credits

Elective Requirements: 12 Credits
Complete 45 credits from the following: (12.0)

- AVSC 1010 Introduction to Aviation Science (3.0)
- AVSC 1100 Ground Private Pilot (4.0)
- AVSC 1110 Flight Private Pilot Certification (3.0)
- AVSC 1220 Ground Commercial Pilot--Phase I (3.0)
- AVSC 1230 Flight Commercial Pilot--Phase II (3.0)
- AVSC 1240 Ground Instrument Pilot (4.0)
- AVSC 1250 Flight Instrument Pilot Rating (2.0)
- AVSC 2150 Air Transportation Management (3.0)
- AVSC 2161 Aviation Law (3.0)
- AVSC 2300 Ground Commercial Pilot--Phase II (3.0)
- AVSC 2310 Flight Commercial Pilot--Phase II (3.0)
- AVSC 2440 Ground Multi-Engine (1.0)
- AVSC 2450 Flight Multi-Engine (1.0)
- AVSC 2510 Flight Multi-Engine Instructor (1.0)
- AVSC 281R Cooperative Work Experience (1.0)
- AVSC 285R Cooperative Related Class (1.0)
- AVSC 2860 SkillsUSA (1.0)
- AVSC 299R Utah Contractors License (3.0)
- EGDT 1020 3D Architectural Modeling (3.0)
- EGDT 1400 Surveying (4.0)
- EGDT 1600 Technical Math—Algebra (3.0)
- ESFO 2030 Fire Inspector I (3.0)

Emphasis in

Cabinetry and Architectural Woodwork

Emphasis Requirements: 45 Credits

Elective Requirements: 12 Credits
Complete 45 credits from the following: (12.0)

- ART 1120 2D Design (3.0)
- ART 1400 Graphic Computer Applications (3.0)
- ART 1000 Color Theory (3.0)
- Complete an additional 36 credits from AVC courses.
Emphasis in Collision Repair Technology

**45 Credits**

- **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
- **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

Emphasis in Diesel Mechanics Technology

**48 Credits**

- **DMT 1110** Diesel Engine Overhaul 4.0
- **DMT 111L** Diesel Engine Overhaul Lab 4.0
- **DMT 1120** Diesel Engine Operation/Tune Up 4.0
- **DMT 112L** Diesel Engine Operation/Tune Up Lab 1.0
- **DMT 1510** Electrical Systems Theory 4.0
- **DMT 151L** Electrical Systems Lab 2.0
- **DMT 1520** Engine Electronics and Diagnostics Theory 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

Emphasis in Digital Media

**45 Credits**

Emphasis Requirements: 17 Credits

Complete the following:
- **DMG 1110** Digital Media Essentials I 4.0
- **DMG 2110** Digital Motion Picture Essentials 3.0
- **DMG 2210** Web Essentials 4.0
- **DMG 2310** Digital Audio Essentials 3.0
- **DMG 2210** 3D Modeling and Animation 4.0

Elective Requirements: 28 Credits

Complete 28 credits from approved DGM electives 28.0 (see advisor)

Emphasis in Drafting Technology

**45 Credits**

Emphasis Requirements: 45 Credits

**Elective Requirements: 1 Credits**

Electives in EART based on chosen option (students must see advisor for list of approved course options).

Emphasis in Electrical Automation and Robotics Technology

**45 Credits**

Emphasis Requirements: 44 Credits

- **EART 1130** Basic Electrical 4.0
- **EART 1050** Applied Electrical Math 5.0
- **EART 1160** Basic Electrical Lab 5.0
- **EART 1260** Logic 2.0
- **EART 1280** DC and AC Machines 5.0
- **EART 1285** DC and AC Machines Lab 4.0
- **EART 2110** Semiconductors Devices 6.0
- **EART 2150** Fluids and Pneumatics 3.0
- **EART 2160** Industrial Solid State Circuit 5.0
- **EART 2250** Programmable Logic Controllers 1.0

Emphasis in Electrical Construction Apprentice

**45 Credits**

Emphasis Requirements: 45 Credits

- **APP 281R** Cooperative Work Experience (Must be repeated 4 times) 1.0
- **APP 285R** Cooperative Correlated Class 1.0
- **EART 1110** Electrical Apprentice 1A 5.0
- **EART 1120** Electrical Apprentice 1B 5.0
- **EART 1210** Electrical Apprentice 2A 5.0
- **EART 1220** Electrical Apprentice 2B 5.0
- **EART 2310** Electrical Apprentice 3A 5.0
- **EART 2320** Electrical Apprentice 3B 5.0
- **EART 2410** Electrical Apprentice 4A 5.0
- **EART 2420** Electrical Apprentice 4B 5.0

Emphasis in Electrical Union Apprentice (JATC)

**45 Credits**

- **EART 1300** Electrical Union Apprentice 1A 5.0
- **EART 1310** Electrical Union Apprentice 1B 5.0
- **EART 1320** Electrical Union Apprentice 2A 5.0
- **EART 1330** Electrical Union Apprentice 2B 5.0
- **EART 2330** Electrical Union Apprentice 3A 5.0
- **EART 2340** Electrical Union Apprentice 3B 5.0
- **EART 2350** Electrical Union Apprentice 4A 5.0
- **EART 2360** Electrical Union Apprentice 4B 5.0

Emphasis in Emergency Services

**45 Credits**

Emphasis Requirements: 45 Credits

Complete 45 credits from the following: 45.0

Emphasis in Facilities Management

**45 Credits**

Emphasis Requirements: 45 credits

- **BCCM 1170** Principles of Mechanical Electrical and Plumbing Design 2.0
- **BCCM 299R** Skills USA (1.0)
- **CMGT 3000** Principles of Construction 3.0
- **CMGT 3010** 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 8.0

Elective Requirements: 2.0

- **FAC 285R** Cooperative Correlated Class 2.0
- **MGMT 2200** Business Communications 3.0

Emphasis in HVAC Apprentice

**45 Credits**

Emphasis Requirements: 45 Credits

- **ACRT 281R** Cooperative Work Experience (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

- **APP 281R** Cooperative Work Experience (Must be repeated 4 times) 1.0
- **APP 285R** Cooperative Correlated Class 1.0
- **DMT 1410** Industrial Maintenance 1A 5.0
- **DMT 1430** Industrial Maintenance 2B 5.0
- **DRT 1010** Industrial Maintenance 2A 5.0
Complete 10 credits from the following: 10.0

- **DRT 1410** Industrial Maintenance 3B (5.0)
- **MET 1400** Industrial Maintenance 3A (5.0)
- **WELD 1300** Industrial Maintenance 3C (5.0)
- **WELD 1350** Industrial Maintenance 3D (5.0)
Complete 10 credits from the following: 10.0

- **EART 1020** Industrial Maintenance 4A (6.0)
- **HVAC 1110** Industrial Maintenance 4D (5.0)
- **WELD 1310** Industrial Maintenance 4B (5.0)
- **WELD 1320** Industrial Maintenance 4C (5.0)

Emphasis 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
- **INFO 1420** Computer Architecture and Systems Software 3.0
- **INFO 1510** Introduction to System Administration–Linux/UNIX 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 3030** Networks and Internetworking 3.0
- **INFO 3410** Database Systems 3.0
- **INFO 3430** Systems Analysis Design and Integration 3.0

Elective Requirements: 12 Credits

Complete a minimum of 12 credits from the following: 12.0
Technology Management

- 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)
- INFO 2640 Router Management (3.0)
- INFO 2650 Voice and Data Cabling Fundamentals (3.0)
- INFO 2660 Information Security--Fundamentals (3.0)
- INFO 281R Internship (1.0)
- INFO 301R Digital Lecture Series (1.0)
- INFO 3420 Web Systems Development (3.0)
- INFO 3440 Enterprise Database Development (3.0)
- INFO 3510 Advanced System Administration--Linix/UNIX (3.0)
- INFO 3810 System Administration--Windows (3.0)
- INFO 3830 Advanced System Administration--Windows Server (3.0)
- INFO 3660 Information Security--Network Defense and Countermeasures (3.0)
- Any approved Accounting- or Business-related Course up to 6 credits

Emphasis in Line Meter Apprentice 48 Credits

Emphasis Requirements: 48 Credits

- LINE 1500 Line Meter Apprentice 1A 6.0
- LINE 1610 Line Meter Apprentice 1B 6.0
- LINE 1620 Line Meter Apprentice 2A 6.0
- LINE 1630 Line Meter Apprentice 2B 6.0
- LINE 1640 Line Meter Apprentice 3A 6.0
- LINE 2610 Line Meter Apprentice 3B 6.0
- LINE 2620 Line Meter Apprentice 4A 6.0
- LINE 2630 Line Meter Apprentice 4B 6.0

Emphasis in Lineman Apprentice 48 Credits

Emphasis Requirements: 48 Credits

- LINE 1010 Lineman Apprentice 1A 6.0
- LINE 1020 Lineman Apprentice 1B 6.0
- LINE 1030 Lineman Apprentice 2A 6.0
- LINE 1040 Lineman Apprentice 2B 6.0
- LINE 2010 Lineman Apprentice 3A 6.0
- LINE 2020 Lineman Apprentice 3B 6.0
- LINE 2030 Lineman Apprentice 4A 6.0
- LINE 2040 Lineman Apprentice 4B 6.0

Emphasis in Lineman Substation Apprentice 48 Credits

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 51 Credits

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/Three-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 Plumber Apprentice 45 Credits

Emphasis Requirements: 45 Credits

- APPR 1410 Plumbing Independent 1A 5.0

Emphasis in Sheet Metal Apprentice 48 Credits

Emphasis Requirements: 48 Credits

- 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

Minor in Technology Management 21 Credits

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 Management 3.0
- TECH 4000 Reliability Engineering and Safety Management 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 405G 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 Integrated Studies Emphasis is available (see the Integrated Studies section of this catalog for complete degree requirement listings.)

Emphasis in Technology Management 18 Credits

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:

- TECH 3000 Introduction to Technology Management (3.0)
- TECH 3010 Creativity Innovation and Change Management (3.0)
- TECH 3400 Project Management (3.0)
- TECH 3700 Materials Management (3.0)
- TECH 3850 Quality Assurance in Technology Management (3.0)
- TECH 4000 Reliability Engineering and Safety Management (3.0)
- TECH 405G Global Ethical and Professional Issues in Technology Management (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)
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, 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.

**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 managers

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 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)

**Elective Requirements:** 3 Credits

- Select any THEA course(s) 1000 level or higher

**Distribution Courses**

- Biology 3.0
- Physical Science 3.0
- Additional Biology or Physical Science 3.0
- Humanities Distribution 3.0
- THEA 1013 Introduction to Theatre 3.0
- Social/Behavioral Science 3.0

**Discipline Core Requirements:** 25 Credits

Complete the following:

- THEA 1023 Introduction to Film 3.0
- 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 259R Production Practicum for Stage and Screen (1.0)
- THEA 2713 Introduction to Writing for the Stage and Screen 3.0
- THEA 3613 Directing Actors 3.0
- THEA 3633 Introduction to Stage and Theatre Management 3.0

**BA in Theatre Arts**

**120 CREDITS**

**General Education Requirements:** 36 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 (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)
- MATH 1050 College Algebra (4.0)

Complete the following:

- PHIL 2050 Ethics and Values 3.0

**BA in Theatre Arts**

**120 CREDITS**

**General Education Requirements:** 36 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 (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)
- MATH 1050 College Algebra (4.0)

Complete the following:

- PHIL 2050 Ethics and Values 3.0

**School of the Arts**

**Dean:** Patrick M. Jones
Office: GT 605a
Telephone: 801-863-7359

**Theatre Office:** Open from 9:00 am to 5:00 pm, Monday through Friday; closed on weekends.
Telephone: 801-863-8105

**Production Office:** 131 South 1000 East, Provo, UT 84601
Telephone: 801-863-7157

**Administrative Assistant:** Loretta King
Office: FA 707
Telephone: 801-863-8105

**Faculty:**

**Associate Professor**
- James Arrington
- Terry Petrie

**Assistant Professor**
- Chris Clark
- John Graham

**Lecturer**
- Rick Moody
- Stephen Purdy

**Artist in Residence**
- David Tinney

**Administrative Staff**
- Joe Fox, Scene Shop Foreman
- Katherine Farmer, Youth Theater Program Director
- Emily Bell, Noorda Center Administrative Assistant
- Carla Summers, Costume Shop Supervisor
- Issac Walters, Noorda Media and Marketing Director

**Advisors:**
- Rae Ann Ellis
Office: GT 619c
Telephone: 801-863-6412

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### Disciplinary 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 for Young Audiences (3.0)
- THEA 359R Production Practicum for Stage and Screen II (1.0)
- THEA 3613 Directing Actors (3.0)
- THEA 3633 Introduction to Stage and Theatre Management (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: 24.0
  - Performance: 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.
4. 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.

### Emphasis in Design and Technology
- Complete 18 credits of the following: 18.0
  - THEA 3203 Costume Construction II (3.0)
  - THEA 3223 Makeup II (3.0)
  - THEA 3513 Set and Prop Construction and Painting (3.0)
  - THEA 4533 Advanced Lighting Design (3.0)
  - THEA 457R Sets and Properties Design II (1.0)
  - THEA 4633 Theatre Management II (3.0)
  - THEA 497R Professional Topics (1.0)
  - THEA 4981 Portfolio (1.0)

- Complete 6 credits of any upper division THEA course

### BS in Theatre Arts

<table>
<thead>
<tr>
<th>Emphasis in Performance</th>
<th>24 Credits</th>
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<tbody>
<tr>
<td>Elective Requirements:</td>
<td>24 Credits</td>
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<tr>
<td>Complete 18 credits of the following:</td>
<td>18.0</td>
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</table>
  - THEA 3113 Acting for Film (3.0)
  - THEA 3123 Stage Dialects (3.0)
  - THEA 3413 Acting for Musical Theatre I (3.0)
  - THEA 3423 Acting for Musical Theatre II (3.0)
  - THEA 3623 Advanced Direction of Actors for Stage and Screen (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 4113 Auditioning (3.0)
  - THEA 4123 Script Writing II (3.0)
  - THEA 4233 Costume Design II (3.0)
  - THEA 4243 Lighting and Sound Design I (3.0)
  - THEA 4253 Advanced Lighting Design (3.0)
  - THEA 457R Sets and Properties Design II (1.0)

### BS in Theatre Education
- Complete the following: 36 Credits
  - ENGL 1010 Introduction to Writing (3.0)
  - ENGL 2010 Intermediate Writing--Humanities/ Social Sciences (3.0)
  - MATH 1030 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 since 1877 (3.0)
  - HIST 2710 US History since 1877 (3.0)

- Complete 18 credits of the following:
  - PHIL 2050 Ethics and Values (3.0)
  - HLTH 1100 Personal Health and Wellness (2.0)
  - PES 1097 Fitness for Life (2.0)

- Complete 6 credits of any upper division THEA course

### Emphasis in Performance

- Elective Requirements: 25 Credits
  - Any courses 1000 or higher: 25.0

- Graduation Requirements:
  - Completion of a minimum of 120 semester credits, 40 of which must be upper-division.
  - 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 in the last 45 hours.

- 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.

### Emphasis in Design and Technology

- Elective Requirements: 24 Credits
  - Any courses 1000 or higher: 24.0

- Graduation Requirements:
  - Completion of a minimum of 120 semester credits, 40 of which must be upper-division.
  - 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 in the last 45 hours.

- 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.
• THEA 259R Production Practicum for Stage and Screen (1.0) 2.0
• THEA 2713 Introduction to Writing for the Stage and Screen 3.0
• THEA 359R Production Practicum for Stage and Screen III (1.0) 2.0
• THEA 3613 Directing Actors 3.0
• THEA 3623 Advanced Direction of Actors for Theater 3.0
• THEA 3633 Introduction to Stage and Theatre Management 3.0
• THEA 3723 Theatre History and Literature I 3.0
• THEA 3733 Theatre History and Literature II 3.0
• THEA 4200 Theatre Arts Secondary Teaching Methods 3.0

Secondary Education Licensure requirements:
• EDSC 2540 Development of the Adolescent Student 2.0
• 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 2.0
• EDSC 4550 Secondary Curriculum Instruction and Assessment 4.0
• EDSC 4850 Student Teaching--Secondary (4.0) 8.0
• EDSP 3400 Exceptional Students 2.0

Elective Requirements: 9 Credits
• Select 9 credits of 1000-level or higher courses. 9.0

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.
4. 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.

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 2013 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) 3.0
or THEA 3633 Introduction to Stage and Theatre Management 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 6.0

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 Studies

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)

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 1700 American Civilization (3.0)
- HIST 2700 US History to 1877 (3.0)
and HIST 2710 US History since 1877 (3.0)
- HIST 1740 US Economic History (3.0)
- POLS 1000 American Heritage (3.0)
- POLS 1100 American National Government (3.0)

Complete the following: 3.0
- PHIL 2050 Ethics and Values
- 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 3.0
- Fine Arts 3.0
- Social/Behavioral Science 3.0

Discipline Core Requirements: 25 Credits
- Any course(s) 1000 or higher 17.0
- One Language (other than English) to include the 1010, 1020, 2010, 202G levels, or transferred 8.0

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.
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<td>Automotive Technology</td>
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<td>AVSC</td>
<td>Aviation Science</td>
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<tr>
<td>BCCM</td>
<td>Building Construction and Construction Management</td>
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<td>BESC</td>
<td>Behavioral Science</td>
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<td>BIOL</td>
<td>Biology</td>
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<tr>
<td>BIT</td>
<td>Building Inspection Technology</td>
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<tr>
<td>BMED</td>
<td>Business/Marketing Education</td>
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<td>BTEC</td>
<td>Biotechnology</td>
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<tr>
<td>CA</td>
<td>Culinary Arts</td>
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<td>CAW</td>
<td>Cabinetry and Architectural Woodwork</td>
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<td>CHEM</td>
<td>Chemistry</td>
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<td>CHIN</td>
<td>Chinese</td>
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<td>CJ</td>
<td>Criminal Justice</td>
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<td>CLSS</td>
<td>College Success Studies</td>
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<td>CMGT</td>
<td>Construction Management</td>
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<td>COMM</td>
<td>Communications</td>
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<td>CRT</td>
<td>Collision Repair Technology</td>
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<td>Dance</td>
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<td>DENT</td>
<td>Dental Hygiene</td>
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<td>Digital Media</td>
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<td>DMT</td>
<td>Diesel Mechanics Technology</td>
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<td>EART</td>
<td>Electrical Automation and Robotics Technology</td>
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<td>ECFS</td>
<td>Education, Child and Family Studies</td>
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<td>ECON</td>
<td>Economics</td>
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<td>ECT</td>
<td>Electronic and Computer Technology</td>
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<td>EDEC</td>
<td>Early Childhood Education</td>
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<td>Elementary Education</td>
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<td>Secondary Education</td>
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<td>EDSP</td>
<td>Special Education</td>
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<td>Education</td>
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<td>Electrical Engineering</td>
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<td>EGDT</td>
<td>Engineering Graphics and Design Technology</td>
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<tr>
<td>ENGH</td>
<td>English - Basic Composition</td>
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<td>ENGL</td>
<td>English and Literature</td>
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<td>ENGR</td>
<td>Engineering Science</td>
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<td>Environmental Studies</td>
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<td>ENVT</td>
<td>Environmental Management</td>
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<td>ESEC</td>
<td>Emergency Services - Emergency Care</td>
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<td>ESFF</td>
<td>Emergency Services - Fire Fighting</td>
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<td>ESFO</td>
<td>Emergency Services - Fire Officer</td>
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<td>ESL</td>
<td>English As A Second Language</td>
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<td>ESMG</td>
<td>Emergency Services - Management</td>
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<tr>
<td>ESWF</td>
<td>Emergency Services - Wildland Firefighter</td>
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<td>Facilities Management</td>
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<td>FAMT</td>
<td>Fine Arts, Music, and Theater</td>
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<td>Finance and Economics</td>
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<td>French</td>
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<td>Forensic Science</td>
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<td>Community Health</td>
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<td>Hospitality Management</td>
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<td>Humanities</td>
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<td>HVAC</td>
<td>Heating, Ventilation, Air Conditioning</td>
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<td>IDST</td>
<td>Interdisciplinary Studies Program</td>
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<td>INFO</td>
<td>Information Systems and Technology</td>
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<td>IS</td>
<td>Integrated Studies</td>
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<td>Languages</td>
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<td>LEGL</td>
<td>Legal Studies</td>
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<td>LINE</td>
<td>Lineman Technology</td>
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<td>Mathematics - Developmental</td>
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<td>MECH</td>
<td>Mechatronics Engineering Technology</td>
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<td>MET</td>
<td>Manufacturing Engineering Technology</td>
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<td>Meteorology</td>
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<td>Business Management</td>
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<td>PES</td>
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<td>Physical Education Teacher Education</td>
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<td>PJST</td>
<td>Peace and Justice Studies</td>
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<td>Religious Studies</td>
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<td>Technology Management</td>
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<td>THEA</td>
<td>Theatrical Arts for Stage and Screen</td>
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<td>WELD</td>
<td>Welding Technology</td>
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<td>ZOOL</td>
<td>Zoology</td>
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The following descriptions may include other important information regarding each course, such as: general education (HH) 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.

Course Prefix and Number

Course Title

Some sections of this course may be applied toward Service Learning credit.

Credit Ratio:
Total Credits : Lecture Hours : Lab Hours

Prerequisites are requirements that must be completed prior to registration in the described course.

Corequisites are courses that must be taken concurrently with the described course.
(See your advisor if you have questions about these requirements.)

Description of the course.

PSY 101G (Cross-listed with SOC 1010) General Psychology

3:3:0

Prerequisite(s): ENGH 0990, CTRS 0900, and MAT 0990 or equivalent
Corequisite(s): ACC 1150 recommended if required for your degree

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.

Indicates that an honors course is available.

Course that is cross-listed with the described course.

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.

Terms this course may be offered:
Su - Summer
F - Fall
Sp - Spring
DE - Distance Education (For a list of courses, please go to www.uvu.edu/disted/)

General Education Distribution Course

The following list identifies general education core and distribution courses as they apply to the Associate in Science/Arts Degrees and Bachelor of Science/Arts Degrees:

AS - American Institutions
BB - Biology
CC - English Composition
FE - Fitness for Life
FF - Fine Arts
GI - Global Intercultural Requirement
HH - Humanities
IH - Ethics and Values
LH - Foreign Language
MM - Mathematics
PP - Physical Science
SS - Social Science
TE - Personal Health
XF - Must be taken with another course to equal FF (see department)
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
Designed for non-accounting majors in Executive Assistant and Paralegal. Provides comprehensive coverage of the accounting cycle for services and merchandising organizations. Topics include: Journalizing, posting, financial statements, closing, accounting systems, internal control, accounts receivable, accounts payable, inventory control, and payroll. Taught in a computer environment.

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 and control operations; and 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 transactions and generate financial statements for decision makers outside of the organization. Teaches how to interpret external financial reports, assess the viability and profitability of businesses. Also addresses how to use managerial accounting principles to general internal reports, establish budgets, analyze variances, evaluate cost behavior, and control operations through a combination of responsibility accounting and internal controls. Integrates ACC 2010 (Financial Accounting) and ACC 2020 (Managerial Accounting,) for students who want to fulfill both requirements in a single semester and to understand how Financial and Managerial Accounting concepts work together to succinctly represent huge volumes of transactions that drive modern business.

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, calculations, registers, 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, 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 E-mail. Includes Windows operating system, using popular accounting software (QuickBooks, Peachtree). Integrates accounting information with other software programs such as spreadsheets and word processing.

ACC 2610
Accounting Systems Applications
3:3:1
Sp
- Prerequisite(s): ACC 2010, 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 E-mail. Includes Windows operating system, using popular accounting software (QuickBooks, Peachtree). Integrates accounting information with other software programs such as spreadsheets and word processing.

ACC 3000
Financial Managerial and Cost Accounting Concepts
4:4:0
Su, F, Sp
- Prerequisite(s): ENGL 2010 or ENGL 2020 and MAT 1010 or higher
Provide students in computer science and the technologies with knowledge of financial, managerial, and cost accounting concepts and applications. Prepares students to gain knowledge of accounting information systems and to utilize accounting information in making business decisions.

ACC 3010
Intermediate Accounting I
3:3:0
Su, F, Sp
- Prerequisite(s): ACC 2010 or ACC 2030
Includes the conceptual framework of accounting, review of the accounting process, income statement, balance sheet, statement of cash flows, earnings management, revenue recognition, and current and non-current assets.

ACC 3020
Intermediate Accounting II
3:3:0
Su, F, Sp
- Prerequisite(s): ACC 2010
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, and analysis.

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 individually for work experience objectives.
ACC 4350
Management Control  
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  
Prerequisite(s): ACC 3400 and Matriculation into the Bachelor's Degree Program  
Teaches 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 4410
Tax Research  
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 4420
Corporate Tax  
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  
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  
Prerequisite(s): ACC 3400  
Covers the tax 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
Advanced Accounting Information Systems  
Prerequisite(s): ACC 3510 and Matriculation into the Bachelor's Degree 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  
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
Fraud Examination  
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  
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  
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  
Prerequisite(s): ACC 3020 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.
Course Descriptions

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 Su, F, Sp
- 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 Su, F, Sp
- 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 Su, F, Sp
- 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 Su, F, Sp
- 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 Su, F, Sp
- 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 1000
Survey of Air Conditioning and Refrigeration 1:1:0 Not 10-11
An introductory course which allows students to explore the opportunities available in the challenging and rewarding fields of Air Conditioning, Refrigeration, Heating, and Sheet Metal work. Covers theories, physics, and principles of various refrigeration and air conditioning systems. Includes hands-on practice with flaring and welding copper tubing.

ACRT 1110
Refrigeration I 10:5:15 Not 10-11
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 111A
Refrigeration I 5:2:5.7.5 Not 10-11
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, fitting, and metering devices. Includes lab. Emphasizes safety principles and practices.

ACRT 111B
Refrigeration I 5:2:5.7.5 Not 10-11
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 half of ACRT 1110. 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, fitting, and metering devices. Includes lab. Emphasizes safety principles and practices.

ACRT 1120
Special Refrigeration Mathematics 3:3:0 Not 10-11

ACRT 1210
Refrigeration II 9:4:15 Not 10-11
For second semester Refrigeration majors and interested Refrigeration and Air Conditioning service personnel desiring skill upgrading. Runs concurrently with ACRT 1220. Covers additional theory and practice in assembly, installation, service, and repair of refrigeration units, including domestic refrigerators and freezers. Emphasizes installation, operation, and testing of pressure regulating maintenance. Completers may gain entry-level employment in the domestic repair industry.

ACRT 121A
Refrigeration II 4.5:2.7.5 Not 10-11
For second semester Refrigeration majors and interested Refrigeration and Air Conditioning service personnel desiring skill upgrading. Runs concurrently with ACRT 1220. Covers half of ACRT 1210. Covers additional theory and practice in assembly, installation, service and repair of refrigeration units, including domestic refrigerators and freezers. Emphasizes installation, operation, and testing of pressure regulating maintenance. Completers may gain entry-level employment in the domestic repair industry.

ACRT 121B
Refrigeration II 4.5:2.7.5 Not 10-11
For second semester Refrigeration majors and interested Refrigeration and Air Conditioning service personnel desiring skill upgrading. Runs concurrently with ACRT 1220. Covers half of ACRT 1210. Covers additional theory and practice in assembly, installation, service and repair of refrigeration units, including domestic refrigerators and freezers. Emphasizes installation, operation, and testing of pressure regulating maintenance. Completers may gain entry-level employment in the domestic repair industry.

ACRT 1220
Basic Electricity and Motor Controls 5:5:1 Not 10-11
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 1330  Residential HVAC Estimating and Design  2:2:0  Not 10-11
Introduces Residential HVAC and mechanical systems, basic HVAC principles, systems, materials, applications, and methods, system types, sizing, and designs, heat loss/heat gain calculations.

ACRT 2320  Motors--Controls and Wiring Diagrams  5:5:0  Not 10-11
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. Emphasizes reading electrical symbols and wiring diagrams for heat pumps, gas heat systems, and cooling controls. Stresses safety practices. Should be taken concurrently with ACRT 2310.

ACRT 2330  Sheet Metal Layout  1:0:3  Not 10-11
For heating, ventilation, and air conditioning students. Includes hands-on experience in layout, fabrication, and assembly of sheet metal ducts. Students will also become acquainted with sheet metal hand tools, equipment, and safe usage. Practice is given in geometric drawings.

ACRT 2340  Commercial Refrigeration Theory  4:4:0  Not 10-11
Prerequisite(s): 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 troubleshooting equipment. Emphasizes electrical and electronic controls that are used on these systems.

ACRT 234L  Commercial Refrigeration Lab  5:0:15  Not 10-11
Prerequisite(s): ACRT 1110, ACRT 1210 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.

ACRT 2440  Commercial Refrigeration Heating and Air Conditioning Theory  4:4:0  Not 10-11
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. Lab and 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 10-11
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 254R  Cooperative Work Experience  1 to 8:0:5 to 40  Not 10-11
Corequisite(s): ACRT 281R the first time only. Provides experience in writing and completing individualized work objectives that improve present work performance.

ACRT 255R  Cooperative Correlated Class  1:1:0  Not 10-11
Corequisite(s): ACRT 285R. 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 2420  Heating and Air Conditioning Controls  5:5:0  Not 10-11
Prerequisite(s): ACRT 2320. Runs concurrently with ACRT 2410. For advanced Air Conditioning and Refrigeration Technology majors, as well as those interested in heating, ventilating, and air conditioning. Studies primary and safety controls for electric motors: gas, hot water, and electric heating, air conditioning, and humidifying. Covers modulating motors and controls for air handling. Electrical, mechanical, electronic, and pneumatic controls will be emphasized. Safety standards of ARI/GAMA gas manufacturers will be followed.

ACRT 2440  Commercial Refrigeration Heating and Air Conditioning Theory  4:4:0  Not 10-11
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 10-11
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 254R  Cooperative Work Experience  1 to 8:0:5 to 40  Not 10-11
Corequisite(s): ACRT 281R the first time only. Provides experience in writing and completing individualized work objectives that improve present work performance.

ACRT 255R  Cooperative Correlated Class  1:1:0  Not 10-11
Corequisite(s): ACRT 285R. 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 299R  SkillsUSA  1:1:0  Not 10-11
For Air Conditioning and Refrigeration Technology majors. Supports and facilitates the goals and objectives of the SkillsUSA organization. Develops social awareness, civic, recreational, and social activities. May include participation in local, state, and national contests. Includes advanced troubleshooting and diagnostic training and experience.
### Course Descriptions

**AERO 2110**  
The Development and Growth of Air Power-B  
1:0:0  
Sp  
- Corequisite(s): AERO 2010  
Studies development of various concepts of air power employment. Emphasizes factors that have prompted research and technological change.

**AERO 3000**  
Leadership Laboratory 3A  
0.5:0:2  
F  
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  
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  
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  
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  
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  
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, F  
- Prerequisite(s): Instructor Approval for Air Force ROTC Cadets only  
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  
Prerequisite(s): AERO 1010  
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  
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  
Introduces overview of modern and historical international concerns related to differing ethnic groups. Provides a forum for constructive interaction among people of differing economic, social, racial, ethnic and religious backgrounds.

**AMST—American Studies**

**AMST 2000**  
Introduction to American Studies  
3:3:0  
Sp  
- Prerequisite(s): ENGL 1010 or ENGL 2010 or ENGL 2020  
Introduces students to the interdisciplinary study of American culture. Employs insights and approaches from literature, history, art, sociology, anthropology, and political science. Analyzes a variety of texts, artifacts, and events. Explores selected themes and issues central to American Studies.

**AMST 300R**  
Topics in American Studies  
3:3:0  
F, Sp  
- Prerequisite(s): ENGL 1010 or ENGL 2010  
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  
Introduces students to the variability of human behavior across-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**  
Biological Anthropology  
3:3:0  
F, Sp  
- Prerequisite(s): ENGL 2010 or ENGL 2020  
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**  
Introduction to American Indian Studies  
3:3:0  
F  
Provided 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**  
Ancient Anthropology  
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 275R**  
Survey of Current Topics  
3:3:0  
On Sufficient Demand  
- Prerequisite(s): (ANTH 101G or PSY 1010 or SOC 1010) and ENGL 1010  
Prepares selected topics in Anthropology 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 a maximum of nine credits with
Course Descriptions

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 3100 Anthropology of Gender and Sexuality 3:3:0 Not 10-11
• Prerequisite(s): ANTH 101G and (ENGL 2010 or ENGL 2020)
Explores critical issues of gender and sexuality to better understand how these concepts appear within a variety of societies and contexts. Studies feminist anthropology and other anthropological writings challenging gender as an essential construct. Examines social movements that have developed around gender and sexuality.

ANTH 3130 Reproduction and Biomedicine 3:3:0 On Sufficient Demand
• Prerequisite(s): ANTH 101G and (ENGL 2010 or ENGL 2020); ANTH 3150 is suggested
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: HUDY 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)
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)
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 3300 Development and Rural Societies 3:3:0 On Sufficient Demand
• Prerequisite(s): ANTH 101G and (ENGL 2010 or ENGL 2020)
Examines the importance of agriculture and village life in an increasingly globalized world. Explores peasant studies and the many concerns of rural development. Also 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 3400 Myth Magic and Religion 3:3:0 F
• Prerequisite(s): ANTH 101G and (ENGL 2010 or ENGL 2020)
Explores the many aspects of religion, including its history, diversity, and how it relates to social science studies. Also examines terms such as myth, magic, religion, ritual and shamanism, among others, and how these items are used to discuss religious and spiritual practices around the world.

ANTH 3450 Shamanism and Indigenous Religion 3:3:0 F
• Prerequisite(s): ANTH 101G and (ENGL 2010 or ENGL 2020)
Studies the religious systems of indigenous peoples, particularly those which have been called shamanic. Focuses on the classical study of shamanism and the literature on indigenous shamanism. Locates the study of shamanism within a social context that includes social relational and political economic contexts of the groups within which shamanism is found. Poses questions of how shamanism is different from the expanding world religions and compares and contrasts shamanism with non-shamanic indigenous religions. Looks at the current marketing of shamanism in New Age contexts.

ANTH 3460 Anthropology of Mormonism 3:3:0 Sp
• Prerequisite(s): ANTH 101G and (ENGL 2010 or ENGL 2020); ANTH 3400 recommended
Examines the anthropological and sociological work on Mormonism, both the Church and Mormon society and culture. Studies Mormonism in a comparative framework, and will explore the question of the adequacy of the conceptual apparatus of a social science of religion for comprehending Mormonism.

ANTH 3500 Discourse Semiotics and Representation 3:3:0 On Sufficient Demand
• Prerequisite(s): ANTH 101G and (ENGL 2010 or ENGL 2020)
Explores a range of approaches to the study of representation, meaning, discourse, poetics, and performance of culture and their implications for scientific epistemology and methodology. Also explores recent work by anthropologists in a range of settings responding to questions raised by these concerns.

ANTH 3550 (Cross-listed with: HST 3550)
Memory and History 3:3:0 F
• Prerequisite(s): ANTH 101G and (ENGL 2010 or ENGL 2020)
• Corequisite(s): ACRT 281R the first time only
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 ethnography and how anthropologists and historians have dealt with these issues.

ANTH 360R People and Cultures of the World 3:3:0 Su, F, Sp
• Prerequisite(s): ENGL 1010 and (ANTH 101G or SOC 1010)
Surveys selected cultures and peoples in ethnographically different areas of the world. Includes cultures such as: Africa, Far and Middle East, North and South America, Europe and the Pacific. Repeatable up to nine credits with different topics.

ANTH 3620 (Cross-listed with: PSY 3620, SOC 3620)
Intercultural Relations 3:3:0 Su, F, Sp
• Prerequisite(s): (PSY 1010 or SOC 1010 or ANTH 101G) and (ENGL 2010 or ENGL 2020)
Investigates potential psychological, sociological, and anthropological techniques for transcending our own culture to more objectively study current hot spots involving the United States and other governments.

ANTH 3700 (Cross-listed with: PSY 3700)
Psychological Anthropology 3:3:0 On Sufficient Demand
• Prerequisite(s): PSY 1010 and ANTH 101G and (ENGL 2010 or ENGL 2020); PSY 3400 strongly recommended
Explores interrelationships of individual personality to elements of Western and non-Western sociocultural systems. Relations of sociocultural contexts to self, motives, values, personal adjustment, stress and pathology are examined 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 3720 Applied Anthropology 3:3:0 On Sufficient Demand
• Prerequisite(s): ANTH 101G and (ENGL 2010 or ENGL 2020)
Surveys the ethics and methods used by applied anthropologists. Surveys a range of areas where applied work is performed, including development anthropology, anthropology and health, industrial anthropology, anthropology and marketing, etc. Also explores the political, social, and theoretical implications of applied work.
ANTh 3800 History of Evolutionary Theory 3:3:0 On Sufficient Demand
- Prerequisite(s): (ANTH 101G or ANTH 1020) and (ENGL 2010 or ENGL 2020)
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 F
- Prerequisite(s): (ANTH 101G or ANTH 1020) and (ENGL 2010 or ENGL 2020)
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 4150 Contemporary Theory and Debates 3:3:0 Sp
- Prerequisite(s): ANTH 101G and (ENGL 2010 or ENGL 2020)
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 literatures.

ANTh 4160 History of Anthropological Thought 3:3:0 F
- Prerequisite(s): ANTH 101G and (ENGL 2010 or ENGL 2020)
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 4180 Power Economy and People 3:3:0 On Sufficient Demand
- Prerequisite(s): ANTH 101G and (ENGL 2010 or ENGL 2020)
Builds from a foundation in classic social anthropology and political economy to comprehend groups and identities both in the past and present as we look at nations, ethnicities, churches, civil society, tribes, and social movements.

ANTh 4200 Biology of Religion 3:3:0 On Sufficient Demand
- Prerequisite(s): (ANTH 101G or ANTH 1020) and (ENGL 2010 or ENGL 2020)
Examines how biologists and life scientists have begun to study the physical nature of religious behavior and beliefs. Explores how religious behaviors and beliefs affect biology from an interdisciplinary perspective.

ANTh 4250 Human Sexual Nature 3:3:0 On Sufficient Demand
- Prerequisite(s): (ANTH 101G or ANTH 1020) and (ENGL 2010 or ENGL 2020)
Examines cultural and biological aspects of human sexual nature, drawing on evidence and controversies from anthropology, psychology, medicine, biology, and history.

ANTh 475R Current Topics in Anthropology 3:3:0 F
- Prerequisite(s): ANTH 101G and (ENGL 2010 or ENGL 2020)
Examines how biologists and life scientists have begun to study the physical nature of religious behavior and beliefs. Explores how religious behaviors and beliefs affect biology from an interdisciplinary perspective.

ANTh 4850 Ethnographic Methods 3:3:0 F
- Prerequisite(s): ANTH 101G and (ENGL 2010 or ENGL 2020)
Examines how biologists and life scientists have begun to study the physical nature of religious behavior and beliefs. Explores how religious behaviors and beliefs affect biology from an interdisciplinary perspective.

ANTh 490R Independent Studies 1 to 3:1to 3:0 On Sufficient Demand
- Prerequisite(s): For Behavioral Science Bachelor Degree students only. Must have consent of the instructor
For qualified students who wish to undertake a well-defined project or directed study related to an area of special interest. Requires individual initiative and responsibility. Includes limited formal instruction and faculty supervision. Projects may include writing a publishable paper, passing a competency exam, producing an annotated bibliography, an oral presentation, or other options as approved by instructor. May be repeated for a maximum of six credits.

APP-APPRENTICE

APP-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.

APP-1200 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.

APP-1210 Sheet Metal 2A 6:6:0 F
- Prerequisite(s): APPR 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.

APP-1220 Sheet Metal 2B 6:6:0 Sp
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.

APP-1300 Apprentice Math 3:3:0 F, Sp
For apprentices. Covers math used in apprentice trades. Teaches fractions, decimals, percents, interest, volume and metrics. Studies special trade formulas.

APP-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.

APP-1420 Plumbing Independent 1B 5:5:0 Sp
- Prerequisite(s): APPR 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, calked joint, mathematics units 7-16 and blue print reading.

APP-1430 Plumbing Independent 2A 5:5:0 F
- Prerequisite(s): APPR 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.

APP-1440 Plumbing Independent 2B 5:5:0 Sp
- Prerequisite(s): APPR 1430
For plumbing apprentices. Covers blue print reading for plumbers units 11-34, Uniform Plumbing Code
Course Descriptions

APP 1450 Plumbing Independent 3A 5:5:0 F
Prerequisite(s): APPR 1440

APP 1460 Plumbing Independent 3B 5:5:0 Sp
Prerequisite(s): APPR 1460
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.

APP 1470 Plumbing Independent 4A 5:5:0 F
Prerequisite(s): APPR 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, braizing, soldering, PVC pipe and pipe dies.

APP 1480 Plumbing Independent 4B 5:5:0 Sp
Prerequisite(s): APPR 1470
For plumbing apprentices. Covers blue print reading, PVC pipe and copper joining techniques, and review and preparation for state license exam.

APP 1800 Carpenter Apprentice 1A 5:5:0 F
Prerequisite(s): Departmental Written Approval
For members of the Carpenters Joint Apprenticeship Training Committee. Covers first aid, CPR, Safety and OSHA requirements. Teaches use of hand tools, power tools, materials, tool safety, rigging, knots, hand signals and math. Introduces Building layout and forms.

APP 1810 Carpenter Apprentice 1B 5:5:0 Sp
Prerequisite(s): APPR 1800 or Departmental Written Approval
For members of the Carpenters Joint Apprenticeship Training Committee. Covers layout, framing, roots, canopies, sound control, temperature control, insulation and math. Teaches finish for exteriors and interiors.

APP 1820 Carpenter Apprentice 2A 5:5:0 F
Prerequisite(s): APPR 1810 or Departmental Written Approval
For members of the Carpenters Joint Apprenticeship Training Committee. Covers exterior/interior finish, interior systems, metal framing, drywall, partitions, ceilings, tools.

APP 1830 Carpenter Apprentice 2B 5:5:0 Sp
Prerequisite(s): APPR 1820 or Departmental Written Approval
For members of the Carpenters Joint Apprenticeship Training Committee. Covers forms, pile caps, form hardware, tilt up and precast.

APP 1840 Carpenter Apprentice 3A 5:5:0 F
Prerequisite(s): APPR 1830 or Departmental Written Approval
For members of the Carpenters Joint Apprenticeship Training Committee. Covers blueprints, elevation symbols, detail drawing and math. Introduces CAD, print reading and drafting.

APP 1850 Carpenter Apprentice 3B 5:5:0 Sp
Prerequisite(s): APPR 1840 or Departmental Written Approval
For members of the Carpenters Joint Apprenticeship Training Committee. Covers welding safety and principles, cutting and burning. Teaches flat, vertical, overhead and light gauge. Introduces blueprint reading and drafting.

APP 1860 Carpenter Apprentice 4A 5:5:0 F
Prerequisite(s): APPR 1850 or Departmental Written Approval
For members of the Carpenters Joint Apprenticeship Training Committee. Covers scheduling, MSDS, leadership skills, concrete testing, computer keyboard, track tips and scaffold safety.

APP 1870 Carpenter Apprentice 4B 5:5:0 Sp
Prerequisite(s): APPR 1860 or Departmental Written Approval
For members of the Carpenters Joint Apprenticeship Training Committee. Covers MSHA, clean rooms, comet, foundations, heavy construction and highway.

APP 2300 Sheet Metal 3A 6:6:0 F
Prerequisite(s): APPR 1220
Teaches the properties of air in heating, ventilating, and cooling system applications, specifications, and review of contract documents, selections and installation of fans, duct system designs.

APP 2320 Sheet Metal 3B 6:6:0 Sp
Teaches structural, mechanical, and electrical blueprint interpretation. Introduces the uses of CAD in the sheet metal industry. Teaches proper hoisting and rigging methods, beginning field measuring, and sign work.

APP 2410 Sheet Metal 4A 6:6:0 F
Prerequisite(s): APPR 2320
Uses advance mathematics to design and layout duct systems. Teaches specialized power equipment used in the shop and in the field.

APP 2420 Sheet Metal 4B 6:6:0 Sp
Teaches methods to layout and install metal ceilings and boiler breaching, construction of metal buildings and installation of skylights, basic air conditioning properties and duct sizing, and determination of the air quality in a building.

APP 281R Cooperative Work Experience 1 to 8:0:5 to 40 On Sufficient Demand
Corequisite(s): APPR 281R
Designed for electrical construction apprentice majors. Provides paid, on-the-job work experience in the student’s major. Work experience, the correlated class and enrollment are coordinated by the Cooperative Coordinator. Includes student, employer and coordinator evaluations, on-site work visits, written assignments and oral presentations. Provides experience in writing and completing individualized work objectives that improve present work performance.

APP 285R Cooperative Correlated Class 1:1:0 On Sufficient Demand
Corequisite(s): APPR 281R
Designed for electrical construction apprentice majors. Identifies on-the-job problems and provides remediation of those problems through in-class discussion and study. Includes the study of identifying and maximizing service opportunities. Students register for this class with approval of the Cooperative Coordinator. Includes lecture, guest speakers, video tapes, role playing, case analysis, oral presentation and written assignments. Completers should be better able to perform in their field of work or study.

ARCH—Archaeology

ARCH 1000 Introduction to Archaeology SS 3:3:0 F, Sp
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.

ART—Art

ART 1000 Color Theory 3:3:0 F, Sp
Covers theories of color, color systems, social and psychological impact of color, and the effects of colors on humankind. Assignments demonstrate the application of color theories.
ART 1010 Introduction to Visual Arts 3:3:0 Su, F, Sp
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.

ART 1050 Photography I 3:2:4 Su, F, Sp
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.

ART 1110 Drawing I 3:2:2 Su, F, Sp
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.

ART 1120 2D Design 3:2:4 Su, F, Sp
Core course for all AVC majors. Introduces the elements and principles of design. Studies two-dimensional formats as they relate to a series of different design problems. Uses principles such as line, shape, rhythm, contour, value, and contrast in creative assignments.

ART 1130 3D 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. Community members welcome.

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. Community members welcome.

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 3:2:2 Su, 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 1430 Digital Prepress 3:2:2 Su, F, Sp
- Prerequisite(s): ART 1400
Introduces production techniques used in the publishing industry. Teaches digital layout and pasteup, trapping, imposition, proofing, color reproductive processes, digital file preflighting and terminology. Includes the practical application of learned skills through design projects.

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
Studies materials, techniques, and compositional methods of watercolor painting at a beginning level. Teaches the application of six basic techniques for the use of transparent watercolor materials. Includes lecture/demonstration, and studio time for application and evaluation. For majors and non-majors.

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 On Sufficient Demand
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 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 seeking a bachelor's degree must repeat this course at least three times for credit.

ART 2010
Art Theory and Criticism I 3:3:0 On Sufficient Demand
• Prerequisite(s): ARTH 2710, ARTH 2720
Emphasizes critical thinking and a broad introduction to the aesthetic vocabulary of form, concept, criticism, and historical theories in the visual arts. Develops skills to articulate and defend a critical position about an artist, piece of work, or an exhibition through written and oral presentation. Evaluates key readings and theories.

ART 2110
Drawing II 3:2:2 F, Sp
• Prerequisite(s): ART 1110
Emphasizes continued mastery of drawing principles and further integration of these principles into a personal drawing style. Provides exposure to a variety of structured drawing experiences. Introduces color into drawing vocabulary.

ART 219R
Special Topics 1 to 3:1 to 3:0 to 6 Su, F, Sp
Elective course for AVC students. Presents seminars and workshops from experts in industry. May range from a single weekend to a full semester. Repeatable for offerings of different content. A maximum of 3 credits may apply toward graduation.

ART 2210
Drawing for Illustration 3:2:4 On Sufficient Demand
• Prerequisite(s): ART 1110, ART 1120
Provides students with essential observational drawing skills used in illustration. Introduces techniques, stylization, abstraction, sketching, memory and compositional drawing. Stresses the importance of quality reference materials and files.

ART 2230
Illustrative Media and Techniques I 3:2:4 F
• Prerequisite(s): ART 1110, ART 1120
• Prerequisite(s): ART 2210
Introduces the study of techniques and media used in the production of illustration art. Develops skill in the application and combination of a variety of painting processes. Focuses primarily on oil and watercolor painting techniques. In addition, develops mixed media processes and techniques using oil and watercolor in combination with other materials.

ART 2240
Illustrative Media and Techniques II 3:2:4 F, Sp, Su
• Prerequisite(s): ART 2230
Introduces the study of techniques and media used in the production of illustration art. Develops skill 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 2270
Anatomy and Figure Structure 3:2:4 F, Sp
• Prerequisite(s): ART 1110, ART 1120
Studies the human figure; dynamics of movement. Emphasizes figure-drawing skills such as extreme foreshortening, perspective, and the drawing of the human form. Uses live models (draped and/or undraped).

ART 2280
Sculpture II 3:2:2 On Sufficient Demand
• Prerequisite(s): ART 1340 or Department Approval
For students seeking more advanced sculpture instruction. Teaches intermediate techniques of clay sculpture, including armature construction, armature construction, bas relief, figurative sculpture based on human and animal form. Includes mold construction for casting in various media, such as hydrocal, resins, acrylic polymers, cold cast metals, etc. Completers should possess techniques to create a sculpture from clay model to finished piece. Community members welcome.

ART 2350
Ceramics II 3:2:2 F
• Prerequisite(s): ART 1350 or Department Approval
For students seeking intermediate and advanced techniques of wheel throwing, hand-building, and glazing. Emphasizes clay as an artistic medium. Includes decoration of clay shapes with engobes, slip, glaze, overglazes, etc. Students will provide all materials and equipment except wheels. Completers should possess the skills to create a quality finished ceramic piece. Community members welcome.

ART 2410
Typography and Layout II 3:2:2 F, Sp
• Prerequisite(s): ART 1120, ART 1410, ART 1430
Covers conceptualizing, design, 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 2430
Graphic Design I 3:2:2 F, Sp
• Prerequisite(s): ART 1050, ART 1120, ART 1400
Teaches the creation and manipulation of computer images with a variety of techniques using Adobe Photoshop. Provides an understanding of what and how images communicate. Teaches technical skills such as image capture, scanning, file format conversion, color correction, resolution and printing considerations, digital photo retouching, compositing, image montages.

ART 2460
Interactive Design I 3:2:2 F, Sp
• Prerequisite(s): ART 1120, ART 1400
Provides a thorough experience in the conceptual and technological aspects of designing interfaces for web sites. Includes discussion of web usability and its effect on the design of the site. Teaches the creation of underlying architecture for a web site so that it meets the goals and needs of the client. Includes learning the basics behind XHTML and CSS; image manipulation and file format conversion; color correction; resolution and printing considerations, digital photo retouching, compositing, image montages.

ART 2590
Portfolio 1:0:2 F, Sp
• Prerequisite(s): AVC major and Sophomore status
Teaches the selection and preparation of a portfolio and its contents for use in applying to professional art programs and for job interviews. Provides opportunities to evaluate and develop a format for professional presentations. Presents job-seeking skills pertinent to the visual arts industry. Successful completers should have a portfolio which will display the artist's work to its best advantage.
ART 2630 Painting I 3:2:2 Su, F, Sp
- Prerequisite(s): ART 1110 recommended
  Investigates the character and techniques of oil painting at a beginning level. Emphasizes several approaches (both traditional and modern) on a variety or surfaces.

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 exploration. 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 Introduction to Printmaking 3:2:2 F, Sp
- Prerequisite(s): ART 1110
  Introduces printmaking and focuses on beginning techniques and materials. Includes processes such as screen printing, woodcut, and etchings.

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 Photography III 3:2:4 F, Sp
- Prerequisite(s): ART 1110, ART 1400, ART 2700
  Investigates alternative processes of traditional photography. Explores pinhole photography, painterly darkroom techniques, multiple exposures through both darkroom and camera techniques. Explores toning, bleaching, distortion, and brutalization. Emphasizes artistic expression. Covers processes and concepts through slide presentations, readings, critiques and class discussions. Examines processes and how they apply to photography as a medium for artistic expression.

ART 2720 Color Photography 3:2:4 F
- Prerequisite(s): ART 2710, ARTH 2710
  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 2710, ARTH 2720
  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 to 30 F, Sp
- Prerequisite(s): Departmental Approval
  Combines classroom theory with related, practical work 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 to 9 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 AVC Program. Limited to advanced work beyond that which can be completed in existing available classes. Requires that a proposal be submitted and approved by the department prior to enrollment. May be repeated for a maximum of three credits toward graduation.

ART 300R Special Topics in Art 1 to 3:0 to 3 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 3010 Art Theory and Criticism II 3:0 On Sufficient Demand
- Prerequisite(s): ART 2110
  Emphasizes development of higher-level critical thinking skills learned from Introduction to Art Theory I. Examines art theories, explores ideas related to content and understanding the meaning in art by emphasizing interpretation and judgment. Integrates theories and concepts to personal work through critical writings and artist statements.

ART 311R Drawing III 3:2:2 to 4 F, Sp
- Prerequisite(s): ART 2110
  Extends the exploration of the technical skills and conceptual development of drawing as a creative medium. Focuses on the mastery of drawing skills in color and includes demonstrations, lectures and active participation in the critical process. Emphasizes cultivating personal expression and independent serial work. May be repeated for a maximum of 6 credits toward graduation.

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 327R Rendering the Human Head 3:2:4 On Sufficient Demand
- Prerequisite(s): ART 1110, ART 120, ART 1050
  Develops proficiency in rendering the human head in a variety of approaches and techniques. Addresses geometric and planar construction, proportion,
Course Descriptions

ART 328R Painting the Human Head 3:2:4 Su, F, Sp
- Prerequisite(s): ART 2370
Continues the development of rendering skills acquired in ART 2370 (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 3:2:2 to 4 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 F
- Prerequisite(s): ART 1050 and ART 1400
For elementary and early 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 Layout 3:2:4 F
- Prerequisite(s): ART 1410, ART 2430, ART 2450
Develops advanced skills in the use of typography and layout to communicate the printed word in the editorial design area, 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 Sp
- Prerequisite(s): ART 2450, ART 3410
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 3460 Interactive Design II 3:2:2 F
- Prerequisite(s): ART 2460
Continues the development of rendering skills in the area of digital illustration and animation. Focuses on creating dynamic, interactive experiences for the web and other digital media. Includes the use of PhotoShop, Illustrator, and Flash to create digital animations, interactive graphics, and immersive experiences for the web.

ART 3470 Digital Painting 3:2:2 F, Sp
- 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 that 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 3480 Advanced Printmaking 3:2:2 F
- Prerequisite(s): ART 2460
Continues the processes begun in Intro to Printmaking. Covers creative woodcuts, intaglioetching, and/or silkscreen. Emphasizes fine print quality and technical development. May be repeated for a maximum of 6 credits toward graduation.

ART 371R Alternative Photography 3:2:2 F, Sp
- Prerequisite(s): ART 2720, ART 2730, ART 2450, and ART 2790
Emphasizes the process of photography from a conceptual standpoint. Explores deconstruction of the image in both a formal and conceptual process. Analyzes liquid emulsions, mixed media, and historic photographic processes. Examines the possibilities of digital and historic photographic processes in the context of conceptual image-making. May be repeated for a maximum of 6 credits toward graduation.

ART 3750 Digital Imaging II 3:2:4 On Sufficient Demand
- Prerequisite(s): ART 1050 and ART 1400
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.
Course Descriptions

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 4360 Mold Making and Casting 3:2:2 On Sufficient Demand
- Prerequisite(s): ART 1120, ART 1130, ART 2340
Covers both theory and practice of sculptural mold making and casting of sculptural designs of multiple origins of their own works. Includes using various materials for both cold casting and lost wax casting. May be repeated for up to six credits toward graduation.

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. Covers various types of firing processes, including bisque, raku, anagama, saggar, high fire, and overglaze, in addition to normal firing methods.

ART 443R Special Topics in Graphic Design 3:2:2 to 4
- Prerequisite(s): ART 2430, 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.

ART 446R Advanced Interactive Design 3:2:2 to 4
- Prerequisite(s): ART 3460
Teaches advanced concepts and techniques in developing interactive design. Focuses on creating unique, usable and effective interactive experiences for users. Includes technical instruction using CSS to markup information and create layouts; in-depth instruction of WYSIWYG software to assist in creation of web experiences; using Macromedia Flash and Actionscript to create non-traditional interactivity. May be repeated for a maximum of 6 credits toward graduation.

ART 449R Advanced Graphic Design Studio 3:2:2 to 4
- Prerequisite(s): ART 2410, ART 2460, ART 3430
Presents advanced instruction in the execution of a variety of graphic design projects (advertising, collateral, editorial, packaging 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.

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
- Prerequisite(s): ART 2720, ART 2730, ART 3750, ARTH 2790
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. 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, ARTH 2790
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 481R Art and Visual Communications Internship 1 to 6:0:5 to 30 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 AVC Major
For AVC majors. Covers standard policies and procedures used in the creation and marketing of visual arts. Includes estimating, pricing, trade customs, ethical standards, contracts, and other legal rights and issues. Explores job opportunities and self-employment options for visual artists.

ART 491R Independent Study 1 to 3:0 to 3:0 to 9
- Prerequisite(s): Department Approval
Provides an opportunity for upper division students to do individual research and experimentation within the areas of the AVC Program. Study is limited to advanced work beyond that which can be completed in existing available classes. A proposal must be submitted and approved by the department prior to enrollment. A maximum of three credits may apply to graduation.

ART 4990 Senior Studio 3:2:2
- Prerequisite(s): Senior Status in AVC Major
For AVC majors with senior status. Combines and integrates concepts, methodologies and skills developed in previous AVC course work, through the completion of a comprehensive project. Requires students to develop their own project/portfolio in consultation with a faculty advisor. Finished projects will demonstrate individual student skills and interests.

ART 4991 BFA Project 3:2:2
- Prerequisite(s): Senior Status in AVC Major with BFA degree
For AVC majors with senior status and a BFA emphasis. Students will be required to develop and execute a gallery exhibition. The course will require the student to work with a gallery/museum professional in the preparation of the student project for public viewing.

ART—ART HISTORY

ARTH 2710 History of Art to the Renaissance 3:3:0 F, Sp, Su
Covers major trends in Western art from the Paleolithic period to the Gothic era, including elements of political, religious, cultural, literary, and philosophical elements as they impacted the development of art.

ARTH 2720 History of Art from the Renaissance 3:3:0 Su, F, Sp
Covers major trends in Western art, from the Renaissance through the Modern era, including elements of political, religious, cultural, literary, and philosophical elements as they impacted the creation of art.

ARTH 2780 The History of Illustration 3:3:0 Su, F, Sp
Surveys the history of illustration as visual communication. Discusses major movements and the influence of technological advancements in printing and broadcast media on the field of illustration. Focuses primarily on the period from 1860 to the present.
Course Descriptions

ARTH 2790
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 and focus on 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 specific reasons that set the stage for the

ARTH 2800
Introduction to Art History Research and Methodology
3:3:0 Su, F, Sp
- Prerequisite(s): ARTH 2710, ARTH 2720
Teaches writing clearly and correctly about the visual arts. Develops needed skills to research in the various fields related to the visual arts. Teaches how to prepare and organize a research paper. Focuses on historical methodologies. Studies critical reading, thinking, and writing.

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, Oceania, 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 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.

ASL—AMERICAN SIGN LANGUAGE

ASL 1000
Introduction to the Deaf-World
3:3:0 On Sufficient Demand
Focuses on the nature, make up, and significance of the Deaf-World as a linguistic and cultural minority group. Gives significant attention to the different ways that deaf people form a minority group thereby adding diversity to society at large. Also addresses the diversity within the group and the sociological factors that affect its makeup. Introduces American Sign Language (ASL) and teaches some basic conversational 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 1010
Beginning American Sign Language I
4:4:1 Su, F, Sp
Introduces American Sign Language (ASL) to students with no previous experience with ASL. Employs an immersion approach to language learning. Emphasizes basic expressive and receptive conversational skills. Includes introduction to American Deaf culture. Requires weekly lab.

ASL 1020
Beginning American Sign Language II
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 with particular attention to the effects on individual Deaf lives.

ASL 202G
Intermediate American Sign Language II
4:4:0 HH
- Prerequisite(s): Students should have equivalent knowledge of ASL 2010
Continues applied conversation use of ASL through literature, narratives, poetry, and creative sign play. Analyzes ASL grammatical principles and Deaf cultural experiences to explore and understand
Course Descriptions

various underlying metaphors found in ASL literature. Requires Deaf community exposure and involvement.

**ASL 2030**
**Advanced Fingerspelling**
*1:1:0*  
Prerequisite(s): ASL 1020  
F, Sp  
Fingerspelling is the primary method of written communication used in Deaf communities. This course focuses on the rules and patterns of ASL fingerspelling to develop fluency in both production and comprehension. Students will learn and practice fingerspelling techniques necessary for interpreting, and will have opportunities to incorporate fingerspelling into their interpreting practices.

**ASL 2040**
**ASL Numbers**
*1:1:0*  
Prerequisite(s): ASL 1020  
F, Sp  
This course focuses on the number system in ASL, with an emphasis on accurate production and comprehension. Students will learn how to count, perform calculations, and use numbers in various contexts. The course also explores the role of numbers in ASL culture and their significance in communicating with Deaf individuals.

**ASL 2050**
**Advanced ASL Grammar**
*3:3:0*  
Prerequisite(s): ASL 2010 or equivalent  
F, Sp  
This course explores the grammatical aspects of ASL, focusing on the rules and structures that govern sentence formation, word order, and meaning. Students will develop a deeper understanding of the complex grammar of ASL and how it relates to both written and spoken languages.

**ASL 3000**
**Technology for Deaf Studies**
*3:3:0*  
Prerequisite(s): ASL 2010 or equivalent  
F, Sp, Su  
This course examines the role of technology in Deaf Studies and the Deaf community. Students will learn about various digital tools and applications used by Deaf professionals, and how they can be incorporated into Deaf culture and studies. This course also explores the ethical implications of technology use in Deaf Studies.

**ASL 3050**
**Advanced American Sign Language**
*3:3:0*  
Prerequisite(s): ASL 202G or instructor approval  
F, Sp, Su  
This course is designed for Deaf students who have attained a fairly good mastery of basic ASL. It focuses on grammatical aspects of ASL, including sign formation, sentence forms, pronominalization, identifying subjects and objects, classifiers, pluralization, time concepts, locatives, and inflectional morphology. Students will also learn about the culture of Deaf people.

**ASL 3310**
**Interpreting I**
*3:3:0*  
Prerequisite(s): Any 3000 level ASL course  
F, Sp  
This course introduces students to basic levels of interpretation focusing on interpreting between Deaf and hearing people. Students will learn about the skills necessary to be an interpreter. Includes history, models, and professional certification procedures.

**ASL 3320**
**Physiology of Interpreting**
*3:3:0*  
Prerequisite(s): ASL 202G  
On Sufficient Demand  
This course provides an in-depth look into the physical and physiological aspects of interpreting, including the impact of health and wellness on performance. Students will learn how to maintain health and wellbeing in the physically demanding and high stress field of interpreting.

**ASL 3330**
**Cross-Cultural Communication and Interpreting**
*3:3:0*  
Prerequisite(s): ASL 3310 or Instructor Approval  
On Sufficient Demand  
This course explores the communication processes between Deaf (including Deaf-blind) and hearing populations, and negotiation of the complex and growing field of interpreting. Students will develop an understanding of the day to day demands of the work needed become truly professional interpreters.

**ASL 3350**
**Consecutive Interpreting**
*3:3:0*  
Prerequisite(s): ASL 3310 or Instructor Approval  
On Sufficient Demand  
This course focuses on developing the skills necessary for consecutive interpreting. Students will learn how to accurately interpret spoken text into ASL, maintaining the meaning and pace of the original content.

**ASL 3370**
**Simultaneous Interpreting**
*3:3:0*  
Prerequisite(s): ASL 3310 or Instructor Approval  
On Sufficient Demand  
This course focuses on interpreting simultaneous interpretation, focusing on interpreting in real-time within a variety of contexts. Students will develop skills in handling multiple audience sizes and types, and in adapting to different interpreting situations.

**ASL 3380**
**Transliteration**
*3:3:0*  
Prerequisite(s): ASL 3310  
On Sufficient Demand  
This course focuses on the process of transliteration, which involves converting spoken content into written or signed form. Students will learn various techniques and tools for transliterating content accurately and efficiently.

**ASL 3390**
**Professional Issues in Interpreting**
*3:3:0*  
Prerequisite(s): ASL 3310  
On Sufficient Demand  
This course explores the professional issues faced by interpreters, including ethical considerations, legal issues, and personal development. Students will learn how to address and navigate these issues in their professional practice.

**ASL 3510**
**Deaf Culture to 1817**
*3:3:0*  
Prerequisite(s): ASL 202G or equivalent  
F, Sp  
This course provides an overview of the history of Deaf culture and community, focusing on the development of ASL and the Deaf community. Students will learn about the social and cultural context that shaped Deaf culture and its evolution over time.

Utah Valley University
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, and deepen understanding of ASL. Presentations and class instruction conducted entirely in ASL.

ASL 3710
Deaf View Image Art De'VIA
3:3:0 On Sufficient Demand

- Prerequisite(s): ASL 3050
- Explores the role of visual arts in the Deaf-World with particular attention to Deaf View Image Art (De'VIA) whose subject-matter and style represent a Deaf worldview. Examines the historical contributions of early Deaf artists in the development of De'VIA. 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 On Sufficient Demand

- Pre-or Corequisite(s): ASL 3800
- 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. Taught variously in ASL or English. Open to all students via interpretation.

ASL 4330
Visual Linguistic Analysis for Interpreters
3:3:1 On Sufficient Demand

- Prerequisite(s): ASL 3310
- 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 On Sufficient Demand

- Prerequisite(s): ASL 3310
- 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 Sp

- Prerequisite(s): ASL 3310
- Provides students advanced study and skills development in ethical decision making while interpreting between Deaf (including Deaf-blind) and hearing populations, including interpreting in: Educational, Higher Ed. Legal, Mental Health and Medical situations. Helps students develop the ethical understanding needed to become truly professional interpreters. Provides extensive individual feedback to rapidly improve students’ interpreting skills and understanding of the complex nature of interpreting ethics.

ASL 439R
Special Topics in Interpreting
3:3:1 On Sufficient Demand

- Prerequisite(s): ASL 3310
- 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 bona fide professional interpreters. Provides extensive individual feedback to rapidly improve students’ interpreting skills and understanding of the complex nature of the interpreting process. Repeatable up to 9 credits toward graduation.

ASL 4410
ASL Linguistics
3:3:0 F, Sp

- 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 F

- 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 4500
Multicultural Issues In the Deaf-World
3:3:0

- Prerequisite(s): ASL 202G
- Explores a variety of issues facing various ethnic deaf groups in American society. Considers how these groups express their concerns out of ethnic, racial, class, sexual, or gender experiences that help to define issues of political, economic and social impact. Also discusses how the members of these groups constitute American “eyes/hands”, which create communities on various topics, questions, and themes having cultural, historical, and contemporary significance for shaping discourse in the United States.

ASL 4560
Deafness and the Law
3:3:0 Sp

- Prerequisite(s): ASL 3050
- Provides students with a perspective of the development of the concept of Deafness by exploring the history of Deafness within the context of the American legal system and internationally. Examines both the law and Deafness as social constructs and how the social definition of Deafness shapes laws, policies and judicial decisions which may help or hinder the development of the Deaf community.

ASL 4800
Multicultural Issues In the Deaf-World
3:3:0 Sp

- Prerequisite(s): ASL 3530 or equivalent, or instructor consent.
- Explores advanced concepts relative to American Deaf culture, including cultural constructions of the body, the “problem of voice,” class consciousness, the technology of voice, the relationships between art and culture, the “Deaf ethic,” the promise of culture, and issues of enculturation. Provides a comprehensive study of the Deaf-World through analysis of historical events, current issues, and the expressions of Deaf people themselves.

ASL 4850
Advanced Understanding of Oppression and Audism
3:3:0 On Sufficient Demand

- 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 490R
Special Topics 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 495R
Independent Study in Deaf Studies
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
Course Descriptions

ASTR—Astronomy

ASTR 1040 (Cross-listed with: PHYS 1040) 3:3:0 Elementary Astronomy Provides an introduction to 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 290R Independent Study 1 to 5:0 to 5:0 to 15 On sufficient demand For students interested in advanced topics in astronomy and cosmology. Students may choose their own course of study under the guidance of an assigned faculty member.

ASTR 3050 (Cross-listed with: PHYS 3050) 3:3:0 Astrophysics Covers the physics of stars, star clusters, and galaxies. Treats in detail the current methods of astronomical data collection and analysis. Discusses the mathematics of the Theories of Relativity and its implications for the origin and structure of the Universe.

AUT—Automotive Technology


AUT 1110 Brake Systems 2:2:0 F, Sp • Corequisite(s): AUT 111L Recommended For automotive majors and other interested community members. Covers the principles of automotive brake systems. Emphasizes demonstrations, observations and hands-on participation. Utilizes actual vehicle systems of major manufacturers to supplement training.

AUT 1111 Brake Systems Lab 1:0:3 F, 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, 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/axles and driveline components. Covers the function, construction, operation, inspection, troubleshooting and servicing of front, rear, and four-wheel drive power transmission devices used in passenger cars and light trucks.

AUT 112L Manual Power Trains Lab 1:0:3 F, Sp • Pre-or Corequisite(s): AUT 1220 Define diagnosis and repair of manual transmissions including transaxes, differentials, drive shafts, and four wheel drive components. Operation of clutches with torque and gear application.

AUT 1130 Engine Repair 2:2:0 F, Sp • Corequisite(s): AUT 113L Recommended Offers an in-depth study of design, operation, troubleshooting, and service procedures for modern gas and diesel engines. Presents procedures for disassembly and reassembly of engine units, service, and technical data.

AUT 113A Engine Repair 2:1:3 F, 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 experiences.

AUT 113B Engine Repair 2:1:3 F, 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 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, Sp • Pre-or Corequisite(s): AUT 1130 Provides a laboratory experience enhanced by following the Engine Repair ASE task list. Emphasizes demonstrations, observations and hands-on participation. Utilizes actual vehicle systems of major manufacturers to supplement training.

AUT 1160 Automotive Electrical Systems 2:2:0 F, Sp • Corequisite(s): AUT 116L Recommended Studies electrical and electronic fundamentals found and used on current model automobiles and trucks. Topics of study are: electricity, Ohm’s Law, magnetism, inductance, capacitance, electronic devices, schematic user’s information, test procedures, test equipment, and batteries.

AUT 116L Automotive Electrical Systems Lab 1:0:3 F, Sp • Pre-or Corequisite(s): AUT 1160 Studies electrical and electronic fundamentals found and used on current model automobiles and trucks. Topics of study are: electricity, Ohm’s Law, magnetism, inductance, capacitance, electronic devices, schematic user’s information, test procedures, test equipment, and batteries. Lab exercises are correlated with the Automotive Service Excellence (ASE) P1 task list. Lab work will include activities on lab circuitry and live vehicles.

AUT 1170 Engine Electrical Systems 2:2:0 F, Sp • Prequisite(s): AUT 1100 • Corequisite(s): AUT 117L Recommended Studies the function, construction, operation, testing, diagnosis and servicing of automotive ignition systems, starting, charging/generator systems and battery testing using a variety of diagnostic test equipment.

AUT 117L Engine Electrical Systems Lab 1:0:3 F, Sp Studies the function, construction, operation, testing, diagnosis and servicing of automotive ignition systems, starting, charging/generator systems and battery testing using a variety of diagnostic test equipment. Proper use of diagnostic test equipment in the lab and on vehicle systems will be stressed.

AUT 1210 Suspension and Steering Systems 2:2:0 F, Sp • 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, 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, Sp • Corequisite(s): AUT 122L Recommended Studies diagnosis, repair, and adjustment of many automatic transmissions and transaxles. Covers planetary gearing, hydraulic theory, strategies for operation, and service of many domestic and imported passenger car and light-truck vehicles. Introduces electronic control theory.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Mode(s)</th>
<th>Prerequisite(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUT 122L</td>
<td>Automatic Transmissions and Transaxes Lab</td>
<td>1:0:3</td>
<td>F, Sp</td>
<td>Pre-or Corequisite(s): AUT 1220. Provides a laboratory experience enhanced by following the Automatic Transmissions and Transaxes ASE task list. Emphasizes demonstrations, observations and hands-on participation. Utilizes actual vehicle systems of major manufacturers to supplement training.</td>
</tr>
<tr>
<td>AUT 1230</td>
<td>Engine Performance</td>
<td>2:2:0</td>
<td>F, Sp</td>
<td>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.</td>
</tr>
<tr>
<td>AUT 123A</td>
<td>Engine Performance--2nd Half</td>
<td>2:1:3</td>
<td>F</td>
<td>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.</td>
</tr>
<tr>
<td>AUT 123B</td>
<td>Engine Performance--2nd Half</td>
<td>2:1:3</td>
<td>Sp</td>
<td>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.</td>
</tr>
<tr>
<td>AUT 123L</td>
<td>Engine Performance Lab</td>
<td>1:0:3</td>
<td>F, Sp</td>
<td>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.</td>
</tr>
<tr>
<td>AUT 1260</td>
<td>Tech Math for Mechanics</td>
<td>3:3:0</td>
<td>F, Sp</td>
<td>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.</td>
</tr>
<tr>
<td>AUT 1700</td>
<td>Brakes and Wheels</td>
<td>3:3:1</td>
<td>On Sufficient Demand</td>
<td>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.</td>
</tr>
<tr>
<td>AUT 1720</td>
<td>Engine Repair</td>
<td>3:3:1</td>
<td>On Sufficient Demand</td>
<td>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.</td>
</tr>
<tr>
<td>AUT 1730</td>
<td>Engine Performance</td>
<td>3:3:1</td>
<td>On Sufficient Demand</td>
<td>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.</td>
</tr>
<tr>
<td>AUT 1740</td>
<td>Automotive Computer Literacy</td>
<td>3:3:1</td>
<td>On Sufficient Demand</td>
<td>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 automobile computer components by type and function. Includes hands-on computer use in diagnostics and troubleshooting.</td>
</tr>
<tr>
<td>AUT 1760</td>
<td>Manual Drive Trains and Safety</td>
<td>3:3:1</td>
<td>On Sufficient Demand</td>
<td>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.</td>
</tr>
<tr>
<td>AUT 201L</td>
<td>Automotive Service Practicum Engine Performance and Steering Suspension</td>
<td>2:0:6</td>
<td>F</td>
<td>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.</td>
</tr>
<tr>
<td>AUT 202L</td>
<td>Automotive Service Practicum Emission Controls and Chassis Electronics</td>
<td>2:0:6</td>
<td>F</td>
<td>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.</td>
</tr>
<tr>
<td>AUT 203L</td>
<td>Automotive Service Practicum Brake Systems and Transmission Controls</td>
<td>2:0:6</td>
<td>Sp</td>
<td>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.</td>
</tr>
<tr>
<td>AUT 204L</td>
<td>Automotive Service Practicum Fuel Management Systems and HVACR</td>
<td>2:0:6</td>
<td>Sp</td>
<td>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 Automotive Transmissions and Brake Systems including Anti-Lock and Traction Control.</td>
</tr>
</tbody>
</table>
Tasks for Engine Performance and Heating, Ventilation and Air Conditioning Systems.

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 201L Recommended

Discusses advanced theory of two-wheel and four-wheel alignment. Studies nomenclature, theory of operation and service procedures for mechanical, electronic, and electrical parts of automotive steering and suspension systems.

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 202L Recommended

Includes advanced instruction in engine performance, indicator circuits and On-Board Diagnostics II (OBD-II). Discusses mechanical and electronic parts of the vehicle relative to quality engine tune-up and diagnostic instruction.

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 202L Recommended

Studies emissions control systems on vehicles. Reviews county emissions certification requirements. Emphasizes the pre and post testing of the different emission systems and the control of the systems as they apply to different types of fuel systems.

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 202L Recommended

Studies theory, diagnosis, and repair of chassis electrical and electronic systems. Includes the study of lighting systems, electronic dash circuits, inflatable restraint systems, electronic cruise control systems and other accessories found on vehicles.

AUT 2150 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 203L Recommended

An in-depth study of the theory, diagnosis, and repair of electronic controlled braking systems. Includes the study of anti-lock brakes, traction control systems, stability control systems and other control systems found on vehicles.

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 203L Recommended

Includes advanced instruction in rear-wheel drive and transaxle automatic transmissions for passenger cars and trucks (light-duty and medium-duty).

Studies computerized transmission controls for shifting and torque converter operation. Stresses service, diagnosis and troubleshooting using electronic test equipment.

AUT 2240 Heating Ventilation Air Conditioning and Refrigeration Theory 2:2:0 Sp
- Prerequisite(s): AUT 1160 with a grade of C- or better
- Corequisite(s): AUT 204L Recommended

This course provides a laboratory experience for Heating, Ventilation, and Air Conditioning lecture (AUT 2240). Studies and provides experience with R12 and 134a refrigerants, environmental issues, retrofit assemblies, evacuation and charging AC systems, and problem solving of AC systems.

AUT 224L Automotive HVAC Lab 1:0:3 Sp
- Corequisite(s): AUT 2240

AUT 2710 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 2720 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 2730 Advanced Auto Transmissions and Brake Systems 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 2740 Advanced Electronics and Fuel Injection 3:3:1 On Sufficient Demand
- Prerequisite(s): AUT 1700 through AUT 1770

For automotive apprentices. Includes advanced instruction on computerized fuel injection with emphasis on distributorless ignition. Studies electronic and mechanical sensors of fuel and ignition systems. Covers basic gas and diesel engine design and repair. Also covers alternative fuel vehicles.

AUT 2750 Advanced Air Conditioning and Heating 3:3:1 On Sufficient Demand
- Prerequisite(s): AUT 1700 through AUT 1770

For automotive apprentices. Teaches advanced air conditioning and heating with some emphasis on electronics and computerized engine systems and fuel injection.

AUT 281R Cooperative Work Experience 1 to 8:0:5 to 40 Su, F, Sp
- Corequisite(s): AUT 285R

Designed for Automotive Technology majors. Provides paid, on-the-job work experience in the student’s major. Work experience, the correlated class, and enrollment are coordinated by the Cooperative Coordinator. Includes student, employer, and coordinator evaluations, on-site work visits, written assignments, and oral presentations. Provides experience in writing and completing individualized work objectives that improve present work performance. May be repeated as desired for interest.
AVSC—AVIATION SCIENCE

AVSC 1010  
Survey of Aviation Science  
2:2:0  
Su, F, Sp  
Designed for all students interested in career opportunities in Aviation Science and general knowledge of aviation and aerospace studies. Includes historical events in aviation and aerospace development. Studies aviation and aerospace terminology, how airplanes and spacecraft fly, research and development of future systems, government and industry roles in the growth of aviation, and potential careers in aviation. Includes a field trip and several interesting and exciting projects.

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  
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  
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 1100  
Ground Private Pilot  
4:4:0  
Su, F, Sp  
Corequisite(s): AVSC 1110 recommended  
Designed for entry level student pilots. Introduces the airplane to students as they prepare for flight training. Stresses airport systems, air traffic control procedures, aviation weather, air navigation, radio communication procedures, and federal aviation regulations. Prepares the student for the FAA Private Pilot written examination. Lab activities will provide opportunity for viewing practical application of required pilot proficiency skills.

AVSC 1110  
Flight Private Pilot Certification  
3:3:1  
Su, F, Sp  
Corequisite(s): AVSC 1100 recommended  
Provides the entry level aviation student with 20 hours of dual flight instruction and 15 hours of solo practical flight experience for private pilot certification. Covers airplane ground operation, take-off and landing, all basic flight maneuvers, and emergency procedures. Provides practice in a training airplane. Designed to meet the flight experience requirements for the FAA Private Pilot Flight check.

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 non-powered glider flight in preparation for the FAA Private Pilot Glider Rating. Includes ground and flight lessons covering gliding towings, 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  
Su, F, Sp  
Prerequisite(s): AVSC 1100, AVSC 1110  
Introduces common flying conditions in mountain and desert areas. Emphasis is placed on flight accident statistics and causes, effects of altitude on aircraft and pilot, mountain associated wake turbulence, techniques for low-altitude search 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  
Su, F, Sp  
Prerequisite(s): MAT 1010, ENGL 1010 or equivalent, AVSC 1100 and AVSC 1110  
Corequisite(s): AVSC 1230  
Designed to give the more experienced private and instrument rated pilot ground classroom instruction in preparation for commercial cross-country flight operations. Stresses advanced VFR navigation using dead reckoning, pilotage 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 pilots, advanced aircraft navigational systems, and decision making. Lab activities will provide opportunity for viewing practical application of required pilot proficiency skills.

AVSC 1230  
Flight Commercial Pilot--Phase I  
3:3:5  
Su, F, Sp  
Prerequisite(s): AVSC 1100, AVSC 1110  
Provides more experienced private and instrument rated pilots with 54 hours of dual and solo flight instruction and experience to meet FAA Commercial 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...
Course Descriptions

AVSC 1240
Ground Instrument Pilot
4:4:0
Su, F, Sp
- Prerequisite(s): AVSC 1100, AVSC 1110
Designed to prepare private pilots for the Federal Aviation Administration Instrument Pilot written test. Includes 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. Lab activities will provide opportunity for viewing practical application of required pilot proficiency skills.

AVSC 1250
Flight Instrument Pilot Rating
2:2:1
Su, F, Sp
- Prerequisite(s): AVSC 1100, AVSC 1110
Provides the private pilot student with 35 hours of dual flight instruction. 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 the student for the FAA instrument pilot rating flight test.

AVSC 1260
21st Century Avionics and Instrumentation
1:1:1
Su, F, Sp
- Prerequisite(s): AVSC 1100, AVSC 1110
- Corequisite(s): AVSC 1240
Provides pilots with knowledge and practical experience using the new generation of glass cockpit instruments and radio navigation devices. Includes glass cockpit system knowledge, functions, safety, flight planning, crew concepts, and use of GPS technology. Requires flight or flight training device 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 2150
Air Transportation Management
3:3:0
F
For advanced commercial flight students. 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 completors should have a basic knowledge of aviation management.

AVSC 2160
Aviation Law
3:3:0
Sp
For the beginning commercial pilot. 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): AVSC 2300, AVSC 2310
For students preparing for the rigors of an airline interview. Reviews important areas of Federal Aviation Regulations, aviation meteorology, aircraft systems, crew resource management, and interpersonal skills necessary to successfully obtain an airline or corporate aviation job. Includes specific resume, background search, and interview preparation.

AVSC 2180
Airline Computer Applications
3:3:3
- 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
- Prerequisite(s): Basic Computer Proficiency
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 2200
Aviation Marketing
3:3:0
Teaches principles of aviation marketing and promotional concepts. Covers planning and coordination, advertising and media as well as sales presentations. Explores aviation tradeshows, trade events, and networking as industry marketing tools. Teachers marketing research, financial planning, and transportation methods.

AVSC 2210
AMT Airframe Phase II C
5:5:0
On Sufficient Demand
- Prerequisite(s): AVSC 1330, AVSC 1340, Must complete all (b) level AMT apprentice courses with grade of C- or better
For Aviation Maintenance Technician Apprentice Students. Prepares students for intermediate level understanding of major airframe components and accompanying devices. Includes lessons on structure alignments, aircraft rigging, flight control balance, communications and navigation equipment, brake systems, anti-skid systems, and landing gear position indication.

AVSC 2220
AMT Airframe Phase III D
5:5:0
On Sufficient Demand
- Prerequisite(s): AVSC 2210, AVSC 2230, Must complete all (c) level AMT apprentice courses with
Course Descriptions

AVSC 2230
AMT Powerplant Phase II C
5:5:0 On Sufficient Demand
- Prerequisite(s): AVSC 1330, AVSC 1340. Must complete all (b) level AMT apprentice courses with grade of C- or better
For Aviation Maintenance Technician Apprentice Students. Provides students with information and understanding of turbine engines, designs, systems and components. Covers engine installation, accessory devices, lubrication systems, fuel metering, and airworthiness inspections.

AVSC 2240
AMT Powerplant Phase III D
5:5:0 On Sufficient Demand
- Prerequisite(s): AVSC 2210, AVSC 2230. Must complete all (c) level AMT apprentice courses with grade of C- or better
For Aviation Maintenance Technician Apprentice Students. Provides intermediate level understanding of engine components, accessories, and their operating principles. Prepares students for the FAA AMT Powerplant Knowledge Examination.

AVSC 2300
Ground Commercial Pilot--Phase II
3:3:0 Su, F, Sp
- Prerequisite(s): AVSC 1220, AVSC 1230
- Corequisite(s): AVSC 1230
Designed for Commercial Pilot students in preparation for the FAA commercial pilot written exam. Covers advanced maneuvers such as steep power turns, steep spirals, chandelles, lazy eights, and pylon eights. Uses ground classroom instruction and illustrated lecture, video tape presentations, and demonstration using model airplanes. Studies engine fuel injection and turbo charging, constant speed propellers, retractable landing gear, and ice control systems. Lab activities will provide opportunity for viewing practical application of required pilot proficiency skills.

AVSC 2310
Flight Commercial Pilot--Phase II
3:2:3 Su, F, Sp
- Prerequisite(s): AVSC 1220, AVSC 1230
Designed for an additional 66 hours of dual and solo flight instruction in advanced complex airplanes. For more experienced pilots in preparation for the Commercial Pilot Flight test certification. Lab for maneuvers such as steep power turns, steep spirals, slow flight, lazy eights, pylon eights, and chandelles. Includes commercial cross-country, instrument flying skills, and emergency procedures. Prepares student for the FAA Commercial Pilot Flight test.

AVSC 2330
Theory of Instruction
1:1:0 F, Sp
- Prerequisite(s): Commercial Pilot student experience and permission of the instructor
Designed for advanced pilots preparing for Flight Instructor rating. Stresses psychology of learning and the ability to evaluate student learning. Analyzes student needs and rates of learning. Provides instructional communication techniques. Requires writing a lesson plan which includes learning objectives, methods of instruction, media selection and adaptation, and teaching.

AVSC 235R
Unusual Attitude Safety Training
1:1:1 On Sufficient Demand
- Prerequisite(s): AVSC 1250
Teaches pilots how to assess various flight situations and take the appropriate action to avoid or recover from any in-flight unusual attitude scenario, includes training not covered by commercial flight courses such as situations involving wake turbulence, wind shear, mountain waves and other wind flow patterns, as well as instrument or control system failure and pilot error may produce unusual attitudes beyond those experienced in normal flight. Presented in three phases: for the experience level of the 1) Private Pilot Student, 2) Instrument Pilot Student, 3) Commercial Pilot Student and for the Certified Flight Instructor Student. Course enhances overall pilot skill and increases confidence in all flight conditions. May be repeated for a maximum of 2 credits toward graduation.

AVSC 2400
Ground Certified Flight Instructor
3:3:0 F
- Prerequisite(s): AVSC 2300, AVSC 2310, AVSC 2330
- Corequisite(s): AVSC 2410
Designed for advanced pilots preparing for the Flight Instructor rating. Includes in-depth study of aerodynamics, flight maneuvers, Federal Aviation Regulations and airplane operations and systems, with an emphasis on teaching this knowledge to other pilots. Stresses oral and written communication skills as well as student records and reports needed for flight instruction. Completers should be prepared to sit for the FAA Certified Flight Instructor (CFI) written exams.

AVSC 2410
Flight Certified Flight Instructor
1:1:1 Su, F, Sp
- Prerequisite(s): AVSC 2300, AVSC 2310, AVSC 2330
Designed for advanced pilots preparing for the Flight Instructor rating. Students will receive 20 hours of dual flight instruction and experience in teaching the basic flight maneuvers and airplane operations from the right seat of the training airplane. Student will discuss each maneuver while precisely performing the maneuver and maintaining proper operation practice in flight. Includes identifying common student errors and correcting them. Prepares the student for the Civil Aviation Administration’s CFI flight test.

AVSC 2420
Ground CFI Instrument
1:1:0 F, Sp
- Prerequisite(s): AVSC 2400, AVSC 2410
- Corequisite(s): AVSC 2430
Designed for Instructor Pilots preparing for the addition of an Instrument Instructor rating. Stresses psychology of learning and the ability to evaluate student learning. Analyzes student needs and rates of learning. Provides instructional communication techniques. Requires writing a lesson plan which includes learning objectives, methods of instruction, media selection and adaptation, and teaching.

AVSC 2450
Prepares the student for the FAA Certified Flight Instructor/Instrument Instrument Flight Instructor flight test.

AVSC 2460
Ground Multi-Engine
1:1:0 F
- Prerequisite(s): Instructor’s recommendation
- Corequisite(s): AVSC 2450

AVSC 2480
Flight Multi-Engine
1:1:0 Su, F, Sp
- Prerequisite(s): Instructor’s recommendation
Designed for advanced pilots preparing for commercial multi-engine operations. Includes sufficient flight instruction and experience in heavy complex multi-engine airplanes to qualify for the multi-engine pilot rating. 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 every type of flight environment and situation. Discusses complex systems operation as well as instrument flight procedures. Prepares the student for the FAA multi-engine airplane flight test.

AVSC 2500
Ground Multi-Engine Instructor
1:1:0 F, Sp
- Prerequisite(s): AVSC 2410, AVSC 2450
- Corequisite(s): AVSC 2510
For advanced commercial multi-engine pilots with a single engine certified flight instructor rating. Presents specific teaching techniques and skills necessary to certify as a flight instructor with a multi-engine land rating. Includes a review of the multi-engine pilot certification requirements. Stress the...
Course Descriptions

unique responsibilities of an instructor demonstrating flight at minimal control speed.

AVSC 2510
Flight Multi-Engine Instructor
1:1:0
Su, F, Sp
Prerequisite(s): AVSC 2410, AVSC 2450
For advanced commercial multi-engine pilots with a single engine certified flight instructor rating. Provides flight training and experience in multi-engine aircraft. Includes demonstration, under supervision of an M.E.I., the various pilot maneuvers and operations necessary to instruct a licensed single-engine pilot for the FAA multi-engine flight test. Includes normal and emergency flight operations and procedures in all the various flight environments and regimes. Completers should have knowledge and skill to operate a multi-engine aircraft safely while instructing student multi-engine pilots and have the required multi-engine experience to qualify for the FAA flight test.

AVSC 281R
Cooperative Work Experience
1 to 6:3:0 to 40
On Sufficient Demand
Corequisite(s): AVSC 285R
Designed for Aviation 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.

AVSC 285R
Cooperative Related Class
1:1:0
On Sufficient Demand
Corequisite(s): AVSC 281R
This course is designed to identify on-the-job opportunities and problems of cooperative work experience students, and provide opportunities for in-class discussion and study.

AVSC 2860
SkillsUSA
1:1:0
On Sufficient Demand
SkillsUSA is a first-year class for Aviation Science majors. 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
Prerequisite(s): Commercial Pilot Certificate
For the commercial pilot with an instrument rating. 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
Prerequisite(s): AVSC 2150, AVSC 2160
Explores the complexity of aviation risk management from flight operations and aircraft maintenance perspectives. Examines industry insurance practices and standards, including the development of risk management procedures to meet both government and insurance requirements. Analyzes basic underwriting procedures and requirements. Presents basic principles of hazardous materials handling in aviation.

AVSC 3030
Air Traffic Control
3:3:0
Teaches tower, approach, and center techniques and terminology. Covers radar and non-radar control environments and the pilot's responsibility in each. Explains the 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
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 3050
Aviation Human Resource Management
3:3:0
Prerequisite(s): AVSC 2150, AVSC 2160, (ENGL 2010 or ENGL 2020)
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 3060
Regional Airline Management
3:3:0
Prerequisite(s): AVSC 2150, AVSC 2160
Prepares student for management level duties at a regional airline or similar-size certificated carrier. Examines regional airline operational considerations, regulation, financing, accounting methods, marketing, customer service, profitability, and labor relations. Discusses how some regional airlines succeed and others fail. Covers code-sharing and airline alliances.

AVSC 3070
Aviation Cargo Operations
3:3:0
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 hazmat and security issues. Explores domestic and international air cargo considerations.

AVSC 3100
Corporate Aviation Management
3:3:0
Prerequisite(s): AVSC 2150
Introduces basic principles of corporate flight department management. Discusses regulatory requirements in corporate aviation, acquisition procedures, insurance requirements, and pilot certification programs. Explores fractional ownership programs and management.

AVSC 3120
Airport Management
3:3:0
Prerequisite(s): AVSC 2150
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
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
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 Crash and Emergency Management
3:3:0
Prerequisite(s): AVSC 2160
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
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 video graphic documentation, assessing environmental factors, human factor considerations, aircraft maintenance status, and air traffic control considerations.

AVSC 3230
Accident Witness Interviewing
3:3:0
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**
3:0
- **Prerequisite(s):** AVSC 3210 or AVSC 3220
  - 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**
3:0
- **Prerequisite(s):** AVSC 2240, Commercial Pilot Certificate
  - 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 3400
**High Altitude Navigation/International Flight Operations**
3:0
- **Prerequisite(s):** AVSC 3300
  - Covers the advanced navigation systems of commercial aircraft. Explores VOR/DME, Loran-C, IRS (three ring laser gyro), and GPS navigational aids. Teaches the operation of the "Glass Cockpit" flight data center. Explains international flight operations. Uses in class lectures, demonstrations, individual experimentation, and computer based trainer experience.

### AVSC 3530
**Advanced Aerodynamics**
3:0
- **Prerequisite(s):** AVSC 3300
  - 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/Human Factors**
3:0
- **Prerequisite(s):** AVSC 1010
  - Explores concepts of Crew Resource Management (CRM) employed by commercial airlines. Covers crew coordination, communication, and resource management in a professional airline atmosphere. Utilizes class discussions, role plays, lecture, guest lecturers, and group experiences.

### AVSC 3610
**Aviation Safety and Security**
3:0
- **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**
3:0
- **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 410G
**Global Ethical and Professional Issues in Aviation**
3:0
- **Prerequisite(s):** ENGL 1010, PHIL 2050
  - 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 4200
**Ground Turbine Transition**
3:0
- **Prerequisite(s):** AVSC 3300, AVSC 3530
  - For commercial pilots desiring a Citation type rating. Teaches operating practices of the Citation jet, along with systems indoctrination, and procedures training. Utilizes lecture, demonstration, and cockpit procedures trainers. Successful completers should be prepared to pass the FAA Citation type rating oral exam.

### AVSC 4210
**Flight Turbine Transition**
1:0:3
- **On Sufficient Demand**
  - Provides practical experience in preparation for the FAA Citation type rating practical exam. Teaches start up, taxi, take-off, en-route, approach, landing, shutdown, and emergency procedures. Utilizes individualized instruction in a cockpit procedures trainer, simulator, and Citation jet.

### AVSC 4300
**Ground Airline Transport Pilot/Aircraft Dispatcher**
3:3:0
- **On Sufficient Demand**
  - **Prerequisite(s):** Commercial Pilot Certificate, Instrument Rating
  - For the commercial pilot preparing for the FAA Airline Transport Pilot (ATP) written exam and the Aircraft Dispatcher written exam. Teaches air traffic controller job duties, and FAA regulations. Includes class discussion, lecture, sample test questions, and group projects. Successful completers should be prepared to pass both the FAA ATP and Aircraft Dispatcher written exams.

### AVSC 4310
**Flight Airline Transport Pilot**
1:0:3
- **On Sufficient Demand**
  - For students with 1500 hours total flight time preparing for the Airline Transport Pilot (ATP) practical exam. Teaches skills to pass an ATP check ride administered by a FAA designated examiner. Covers pre-flight, departure, en-route, arrival, post flight, and emergency procedures in both day and nighttime flight environments. Utilizes personalized flight instruction in both a flight simulator and aircraft.

### 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 481R
**Cooperative Work Experience**
1 to 8:0:5 to 40
- **On Sufficient Demand**
  - **Prerequisite(s):** Instructor approval
  - For upper division Aviation majors. Provides on the job work experience that will utilize student's skills and abilities in the field of Aviation. Includes student, employer, and coordinator evaluations, on-site work visits, written assignments, and oral presentations. Completers should obtain experience in establishing and accomplishing individualized work objectives that improve work performance. May be repeated twice for credit.

### AVSC 485R
**Cooperative Related Class**
1:1:0
- **On Sufficient Demand**
  - **Prerequisite(s):** Instructor approval
  - For upper division Aviation Science majors. Identifies on the job managerial problems through class discussion and study. Teaches resume and job interview letter writing, interview techniques, and personal and career goal setting. Includes lecture, guest speakers, case analysis, role playing, oral presentations, and written assignments. May be repeated twice for credit.

### AVSC 490R
**Safety and Professional Seminars**
2:2:0
- **Prerequisite(s):** Matriculation into Aviation Professional Pilot Bachelor's Degree Program Designed for pilots planning a professional career in commercial aviation. Includes FAA safety seminars and other professional presentations designed to inform the commercial pilot of safety and professional issues affecting employment. Features FAA safety counselors, and other aviation professionals as guest lecturers. May be repeated twice to qualify for graduation.

### AVSC 491R
**Undergraduate Research Project**
3 to 6:2:3 to 12
- **Prerequisite(s):** Department Approval
  - 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.

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**BCCM—BUILDING CONSTRUCTION AND CONSTRUCTION MANAGEMENT**

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**Course Descriptions**

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*Utah Valley University*
Course Descriptions

BCCM 1110 Principles of Residential Framing 3:3:0 Su, F, Sp
- Pre-or Corequisite(s): BCCM 1120
Prepares students with a general overview of residential construction delivery methods and practices, terms and systems including site work, foundations, floor, wall and roof systems. Includes guest lectures, field trips, and associated hands-on demonstrations.

BCCM 1120 Blueprint Reading 2:2:0 Su, F, Sp
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 10-11
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 Su, F, Sp
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 10-11
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 10-11
- 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 F
- 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.

BCCM 1210 Principles of Finish Carpentry 3:3:0 Su, F, Sp
- 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 Sp
- Prerequisite(s): BCCM 1150
- 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 Su, F, Sp
- Prerequisite(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 Su, F, Sp
- Prerequisite(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 F, Sp
- Prerequisite(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.

- Prerequisite(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 takeoffs.

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.

BESC 299R Skills USA 1:1:0 F, Sp
(Cross-listed with: CAW 299R)
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 3100 Career Preparation for Behavioral Science Majors 2:0 F, Sp
- Prerequisite(s): (ANTH 101G or PSY 1010 or SOC 1010 or SW 1010) and (ENGL 2010 or ENGL 2020)
Prerequisite(s): Departmental Approval
0101 and (ENG 1010 or ENGL 2010 or ENGL 2020)
Emphasizes the development of skills necessary to successfully apply for employment and/or graduate school. Includes resume writing, cover letters and basic interview skills. Also includes the preparation of acceptable application packages, and learning how to network with school and community resources to find employment and/or graduate school opportunities.

BESC 4705 Substance Abuse Applied Skills and Ethics 2:2:0 F, Sp
- Prerequisite(s): (ANTH 101G or PSY 1010 or SOC 1010 or SW 1010) and (ENG 1010 or ENGL 2010 or ENGL 2020)
Prerequisite(s): Departmental Approval
Defines the scope of practice and legal and ethical obligations of substance abuse counselors. Examines the knowledge, skills, attitudes, legal obligations, and limitations of practice of professional substance abuse counselors.

BESC 481R Senior Internship 1 to 8:0:5 to 40 F, Sp
- Prerequisite(s): Senior standing in the Behavioral Science Department. (PSY 3020 or SOC 3020) and (ENG 1010 or ENGL 2010)
Prerequisite(s): Departmental Approval
Allows Behavioral Science students with non-clinical orientation to receive psychology credits for interning
in a governmental, corporate, or private agency apart from their regular employment. Provides practical and research experience over the course of the 15 week semester. Supervised by agency representative. Internships approved by faculty and written contracts must be signed. May be repeated for a maximum of 8 credits toward graduation.

**BIOL—Biology**

**BIOL 1010**
**General Biology**
3:3:0 F, Sp, Su
- Prerequisite(s): ACT (or equivalent) composite score of 21+, or completion of ENGL 010 (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**
1:0:2 Su, F, Sp
- Pre-or Corequisite(s): BIOL 1010
A general laboratory experience covering introductory topics in general biology. Designed to complement the student's experience in the General Biology 1010 course with emphasis on the application of the scientific method. Includes actual student experiences with living organisms, use of the microscope, field excursions and an introduction to techniques used in the study of life.

**BIOL 101H**
**General Biology**
3:3:0 F, Sp
- 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
- 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 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 hominoid.

**BIOL 1610**
**College Biology I**
4:4:0 F, Sp
- Prerequisite(s): ACT (or equivalent) composite score of 21+, or completion of ENGL 010 (or higher) with a minimum grade of C-
- Pre-or Corequisite(s): BIOL 1615 or BIOL 1616
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**
1:0:2 F, Sp
- Corequisite(s): BIOL 1610
Laboratory course to accompany BIOL 1610. Topics covered include scientific method, biomolecules, cell structure and function, cellular reproduction, Mendelian and molecular genetics, DNA technology, and evolution.

**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**
**College Biology II**
3:3:0 F, Su, Sp
- Corequisite(s): BIOL 1620
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**
**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**
**Natural History Excursion**
3:1:6 Su
- Prerequisite(s): BIOL 1010 or BIOL 1610 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 4:3 to 12
- 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 On Sufficient Demand
- 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.
## Course Descriptions

### 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  
F, Sp  
- 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**
3:3:1  
F, Sp  
- Prerequisite(s): BIOL 1610  
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. Successful completers of this course should possess an understanding of the basic principles of genetics and be prepared for more advanced courses in other aspects of biology.

### BIOL 3515
**Advanced Genetics Laboratory**
2:1:4  
On Sufficient Demand  
- 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
**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
**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
**Biototechnology**
2:1:3  
On Sufficient Demand  
- Prerequisite(s): MICR 3450, BIOL 3600  
Primary 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**
3:3:0  
F, Sp  
- Prerequisite(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**
3:3:0  
Sp  
- Prerequisite(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  
- Prerequisite(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
**Teaching Methods in Science**
3:3:0  
Sp  
- Prerequisite(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 to 5:1 to 5:0 to 10  
Su  
- Prerequisite(s): BIOL 1610, BIOL 3400  
Primarily for students majoring in Biology. 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**
2:1:2  
On Sufficient Demand  
- Prerequisite(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  
- Prerequisite(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.

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Catalog 2010–2011  
Utah Valley University
The course **Molecular Evolution and Bioinformatics** (BIOL 4550) focuses on the macromolecules, cells, and organs involved in innate and adaptive immunity. It 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 4450**

**Principles of Evolution**

**Course Descriptions**

3:3:0 F, Sp

• Prerequisite(s): BIOL 1620 and BIOL 3500 and minimum of 6 additional credits upper division biology (BIOL, BOT, MICR, ZOOL) courses.

Focuses on the concepts of evolution as a fundamental principle of biology. Emphasizes the mechanisms and explanations of the tremendous diversity of life. Studies classical, molecular and current explanations of evolution in the background of current techniques and understanding of the genetic processes. Successful completers of this course will possess an understanding of the principles of evolution and be able to explain the various aspects of natural selection and speciation.

**BIOL 4550**

**Molecular Evolution and Bioinformatics**

3:3:0 Sp

• Prerequisite(s): BIOL 1610 and BIOL 3500 and minimum of 6 additional credits upper division biology (BIOL, BOT, MICR, ZOOL, STEC) 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 to 5 to 20 F, Sp, Su, S

• Prerequisite(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 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.

**BIOL 494R**

**Seminar**

1:1:0 F, Sp

• Prerequisite(s): BIOL 1620 and junior standing

For students in their junior or senior year. Students will do research of scientific literature and give presentations on assigned biology topics in specific areas of current research in biology. May be repeated for up to two credits toward graduation.

**BIOL 489R**

**Student Research**

1 to 4: 0 to 3 to 12 Su, F, Sp

• Prerequisite(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.

**BIOL 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 BIOL 495R. 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-resistive 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.
Course Descriptions

**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 established to give students experience in a variety of jurisdictions. This class is for fourth-semester students only.

**BIT 281R**
Cooperative Work Experience
1 to 6:0:5 to 40  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 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. Take up to 16 credits total between BIT 281R and BIT 285R.

**BIT 285R**
Cooperative Correlated Class
1:0  F, Sp
- Corequisite(s): BIT 281R the first time only
For Building Inspection Technology Majors. Identifies on-the-job problems and provides remediation of those problems through in-class discussion and study. Includes the study of identifying and maximizing service opportunities. Students register for this class with approval of the Cooperative Coordinator. Includes lecture, guest speakers, video tapes, role playing, case analysis, oral presentations, and written assignments. Completers should be better able to perform in their field of work or study. Take up to 16 credits total between BIT 281R and BIT 285R.

**BMED—BUSINESS/MARKETING EDUCATION**

**BMED 4200**
Methods of Teaching Digital Technology
3:3:0  Sp
- Prerequisite(s): (DGM 2360 or DGM 2370 or Instructor Approval) and EDSC 3000
Provides foundation knowledge and methods of teaching digital media, emerging technologies, and keyboarding. Topics include philosophical foundations of business education, curriculum trends impacting the technology classroom, classroom management, and planning and assessment. Includes curriculum standards, competency-based instruction, career and technical education, and professionalism. Requires field observation.

**BMED 4250**
Methods of Teaching Business and Marketing
3:3:0  F
- Prerequisite(s): EDSC 3000, LEGL 3000, MGMT 2200, ECON 2020, MGMT 3600, or instructor approval
Provides an opportunity for prospective teachers to become facilitators of learning specifically by planning, developing, delivering, and evaluating basic business and marketing curriculum. Provides the background and foundation of business/marketing teacher education for students seeking a secondary education degree. Includes textbook selection, student organizations, professional associations, and advisory committees. Addresses issues and trends in business and marketing education.

**BMED 4900**
Business/Marketing Student Teaching Seminar
2:2:0  F, Sp
- Prerequisite(s): BMED 4200, BMED 4250, and Admission to Professional Education Program
- Corequisite(s): EDSC 4850
Discusses the student teaching environment as experienced by the students as they perform teaching responsibilities. Allows the student to draw on the experiences of other students in the class, resource people, and the seminar leader. Offered credit/no-credit.

**BOT—BOTANY**

**BOT 2050**
Field Botany
3:2:3  F
- Prerequisite(s): BIOL 1010 or BOT 2400 recommended
For biology majors and non-majors. Covers the classification, identification, and ecology of woody plants with an emphasis on native trees and shrubs. Students completing the course should be able to identify common trees and shrubs native to Utah. Includes field trips and laboratory work. Student plant collection required.

**BOT 2100**
Flora of Utah
3:2:3  Su
- Prerequisite(s): None, BIOL 1010 is recommended
A vascular plant taxonomy course for intended botany and biology majors or anyone interested in learning about plants native to Utah. Covers the principles of plant classification, nomenclature, and identification with an emphasis on Utah flowering plants. Includes field trips and weekly laboratory. Student plant collection required.

**BOT 2400**
Plant Kingdom
4:3:2  F, Sp
- Prerequisite(s): BIOL 1010 or BIOL 1610 or instructor permission
Surveys of the Divisions (Phyla) traditionally studied by botanists, emphasizing structure, reproduction, systematics, and evolution. Completers should be familiar with the morphological features of the major prokaryotic, fungal, algal, and plant groups. Includes a weekly laboratory.

**BOT 3340**
Plant Biology
4:3:2  F
- Prerequisite(s): BIOL 1620 and (CHEM 1110 or CHEM 1220 or higher.)
Designed for Biology Education majors and others wishing a one semester upper division combined plant anatomy/plant physiology course. Covers structure-function interrelationships from the cellular to whole plant level, including aspects of plant anatomy, physiology, reproduction, growth and development with emphasis on the angiosperms (flowering plants). Includes weekly laboratory. Students may not receive credit for both BOT 3340 and BOT 4100 and/or BOT 4600.

**BOT 4100**
Plant Anatomy
4:3:2  Sp (Odd Years)
- Prerequisite(s): BIOL 1620 and BIOL 1625
Covers the structure and development of cells, tissues and tissue systems in stems, roots, leaves, and reproductive structures in vascular plants, with emphasis on the angiosperms. Discusses primary and secondary plant body, including wood anatomy. Includes weekly laboratory. Students cannot receive credit toward graduation for both BOT 3340 and BOT 4100.

**BOT 4200**
Vascular Plant Taxonomy
3:2:2  F
- Prerequisite(s): (BOT 2050 or BOT 2100), (BIOL 1010 or BIOL 1620)
Covers principles of botanical nomenclature, classification, and identification, as well as the techniques involved in gathering and analyzing taxonomic data. Includes field trips and weekly laboratory.

**BOT 4300**
Wildland Shrubs
3:2:2  F
- Prerequisite(s): BIOL 1010 or BIOL 1620
Explores the diversity and biology of woody plants in Utah and their ecological importance. Field trips required.

**BOT 4430**
Plant Pathology
3:2:2  On Sufficient Demand
- Prerequisite(s): BIOL 1010
Teaches the fundamental concepts of plant pathology. Describes plant disease symptoms and organisms that cause those diseases and methods of control and diagnosis of diseases. Includes required laboratory.

**BOT 4500**
Introduction to Grasses
3:2:2  F
- Prerequisite(s): (BOT 2050 or BOT 2100), (BIOL 1010 or BIOL 1620)
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.

**BOT 4600**
Plant Physiology
3:3:0  Sp (Even Years)
- Prerequisite(s): BIOL 1620 and CHEM 1220
- Corequisite(s): BOT 4605
Covers the physiological processes occurring in plants. Includes experimental techniques used in the investigation of processes such as photosynthesis, water and solute transport; tissue culture, growth regulation and responses and plant hormones. Involves problem solving and critical thinking skills. Students can not receive credit for both BOT 4600 and BOT 3340.
Course Descriptions

BOT 4605 Plant Physiology Laboratory 1:0:3 Sp (Even Years)
- Corequisite(s): BOT 4600
Focuses on laboratory aspects of topics in BOT 4600. Covers experimental methods for studying plant physiological processes such as respiration, photosynthesis, mineral nutrition, transpiration and tissue-water relations.

BOT 4700 Plant Tissue Culture 3:1:4 On Sufficient Demand
- Prerequisite(s): BIOL 1610 and BIOL 1620
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.

BTEC—BIOTECHNOLOGY

BTEC 1010 Fundamentals of Biotechnology I Career Survey 3:2:2 Sp, F
Explores careers in biotechnology with emphasis on central dogma of biology, DNA techniques, applications in biotech, and bioethics. Examines forensics and human cloning. Includes lab work.

BTEC 2010 DNA Manipulation and Analysis 3:2:4 Sp
- Prerequisite(s): BTEC 1010, BIOL 1610, BIOL 1616
Master lab skills relevant to DNA technology; including recombinant DNA cloning, DNA gel electrophoresis, polymerase chain reaction and DNA mutagenesis. Explore cutting-edge techniques such as DNA micro arrays.

BTEC 2020 Protein Purification and Analysis 3:2:3 Sp
- Prerequisite(s): BTEC 1010, BIOL 1610, BIOL 1616
Teaches current techniques with protein production, purification, and analysis. Includes instruction and practice with polyacrylamide gel electrophoresis (PAGE), chromatography, western blot, and FPLC analysis.

BTEC 2030 Cell Culture Techniques 2:0:6 F, Sp
- Prerequisite(s): BIOL 1616, MICR 2060
Teaches basics of prokaryote and eukaryote cell culture; includes handling, storage, and maintenance of bacterial, mammalian and yeast stocks. Emphasizes media preparation and sterile techniques. Includes in vitro labeling and transfection.

BTEC 2040 Advanced Nucleic Acid Laboratory 3:0:6 F
- Prerequisite(s): BTEC 2010
Teaches current techniques with protein production, purification, and analysis. Includes instruction and practice with polyacrylamide gel electrophoresis (PAGE), chromatography, western blot, and fast protein liquid chromatography (FPLC) analysis.

BTEC 290R Special Topics In Biotechnology 1 to 3:0 to 3:0 to 9 On Sufficient Demand
Explores and examines special topics relating to the field of Biotechnology. Emphasizes areas of rapid growth in Biotechnology or current importance to society. May be repeated for a total of six credits toward graduation.

BTEC 481R Biotechnology Internship 1 to 8:0:5 to 40 F, Sp, Su
- Prerequisite(s): BIOL 1610, junior standing in Biotechnology B.S. program, and instructor approval.
Allows biotechnology majors to earn credit while obtaining practical and research experience as an intern in a government, nonprofit, private agency, or with an approved employer. Must be supervised by agency representative and faculty advisor. Department chairperson approval required and written contracts must be completed and signed. May be repeated for a maximum of 10 credits.

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
Teaches basic food service 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.

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.

CA 1190 Professional Kitchen Gard Manger 4.5:2:7.5 F, Sp
- Prerequisite(s): CA 1120 and CA 1170
- Corequisite(s): CA 1230
Emphasizes proper preparation of cold food items. Includes preparation of tossed, compound and composed salads, cold sandwiches, dressings, salad bar items, display platters, assorted forcemeat, smoked and cured items, along with marinated and assorted cold first course items.

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 tarts, petit
Course Descriptions

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 in 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 10-11

Teaches effective food and beverage service management in outlets ranging from cafeterias and coffee shops to room service, banquet areas, and high-check-average dining rooms. Presents basic service principles while emphasizing the special needs of guests. Explains effective sanitation management to achieve high standards that will keep customers coming back. Includes lecture, film, and tapes. Develops an entry-level working knowledge of serving food and beverage.

CA 1490
Food Service Sanitation
1:1:0 F, Sp

• 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
• Corequisite(s): CA 2130

Teaches the creation of soups, salads, appetizers, hot and cold entrees, and baked items for International Cuisine to be served in a restaurant environment.

CA 2130
Advanced Pastry Baking
4:5:2:7.5
• Prerequisite(s): CA 1170
• Corequisite(s): CA 2120

Emphasizes proper preparation of plated desserts, cakes and torts, petit fours, and laminated doughs. Studies the use and role of value added dessert items, and banquet and catering dessert requirements.

CA 2430
Menu/Facilities Design and Beverage Management
3:3:0 Not 10-11
• 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/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 6:0 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 10-11
• 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
• Corequisites: CA 2120

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
• Corequisites: CA 2120

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 3:1.5 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—CABINETRY AND ARCHITECTURAL WOODWORK

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 1130 Residential Cabinetry 4:1:9 Sp**  
Studies cabinmaking methods including joinery, construction, gluing, and clamping. Includes building a set of residential cabinets. Introduces hand and portable electric and air tools. Covers tool care and minor repairs. Stresses functions, selection, maintenance, and safety.

**CAW 1140 Millworking and Safety Shop I 5:0:15 Sp**  
A lab for CAW students. Teaches fundamentals of woodworking machines and standard millwork operations. Studies correct construction techniques. Safety is taught the first 15 hours and stressed throughout the course.

**CAW 114A Millworking and Safety Shop I 2.5:0:7.5 F**  
Laboratory for Cabinetry students. Covers half of CAW 1140. Teaches fundamentals of woodworking machines and standard millwork operations. Studies correct construction techniques. Teaches safety the first 15 hours and stressed throughout the course.

**CAW 114B Millworking and Safety Shop I 2.5:0:7.5 Sp**  
Laboratory for Cabinetry students. Covers half of CAW 1140. Teaches fundamentals of woodworking machines and standard millwork operations. Studies correct construction techniques. Teaches safety the first 15 hours and stressed throughout the course.

**CAW 1150 Design Drafting and Billing 3:3:0 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**  
Emphasizes characteristics of wood, plastic laminates, plywoods, and particle boards. Discusses proper use and residential hardware. Covers specifications, types, selection, and installation.

**CAW 1240 Millworking Shop II 5:0:15 Sp**  
A second semester shop course for CAW students and interested community members. Teaches the design and construction of more difficult millworking projects. Studies advanced joiners, finishing techniques, and fastening devices. Stresses safety.

**CAW 124B Millworking Shop II 2:0:6 Sp**  
A second semester shop course for CAW students and interested community members. Covers half of CAW 1240. Teaches the design and construction of more difficult Millworking projects. Studies advanced joiners, finishing techniques, and fastening devices. Stresses safety.

**CAW 1250 Drafting and Computer Applications for Cabinetmakers 4:4:0 Sp**  
Emphasizes design, purpose, function, appearance, materials, and construction for quality cabinetmaking. Covers efficient timesaving methods. Teaches material cost estimating. Teaches basic CNC software. Uses computer software Cabinet Vision and Master CAM.

**CAW 2300 Counter-top 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 2310 Cabinetry Math 2:2:0 F**  
Covers math used in cabinetmaking. Includes fractions, decimals, percents, interest, volume, and metrics. Studies special trade formulas. Students receive instruction through structured situations to cope with the special problems required in the woodworking industry.

**CAW 2340 Millworking Shop III 5:0:15 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 woodworking trainee.

**CAW 2430 Commercial Cabinetry Technology 4:1:9 F**  
Studies zoning, shop flow, and production set up. 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 2:0:6 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 10-11**  
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.

**CAW 283R Cooperative Correlated Class 1:1:0 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.

**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—CHEMISTRY

CHEM 1010 Introduction to Chemistry 3:3:0 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 1110 Elementary Chemistry for the Health Sciences 4:4:0 Su, F, Sp
• Prerequisite(s): MATH 1010 or equivalent
Introduces the fundamentals of chemistry to students in the health sciences. Covers chemical measurements and calculations, atomic structure, chemical bonding, chemical reactions, states of matter, solutions, chemical equilibrium, acid-base systems, and introduces organic chemistry.

CHEM 1115 Elementary Chemistry Laboratory 1:0:2 Su, F, Sp
• Corequisite(s): CHEM 1010 or CHEM 1110
Introduces inorganic laboratory experiments including density, precipitation, determination of empirical formulas, gas laws and acid-base reactions.

CHEM 1120 Elementary Organic Bio-Chemistry 4:4:0 F, Sp
• Prerequisite(s): CHEM 1110
An introductory organic and biochemistry class for non-chemistry majors entering nursing and other allied health fields such as medical technology, physical therapy, nutrition, and environmental technology. Studies the nomenclature of organic compounds, functional groups and their reactivity, stereochemistry, major biomolecules and their metabolism, enzymes, chemical communications, and chemistry of heredity. May also be used to prepare for organic chemistry (CHEM 2310 and 2320). Students who need or desire laboratory work should enroll in CHEM 1125 also.

CHEM 1125 Elementary Organic Bio-Chemistry Laboratory 1:0:3 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 identifications and reactions of organic functional groups and conducts experiments with biomolecules.

CHEM 1210 Principles of Chemistry I 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
• Corequisite(s): CHEM 1210
Primarily for students in the physical and biological sciences and engineering. Introduces laboratory safety and chemical waste disposal practices. Teaches techniques of using standard laboratory equipment. Shows how to record laboratory data and prepare laboratory reports. Experiments follow topics in CHEM 1210.

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
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 molecules. Explores the relationship between structure and reactivity of organic functional groups. Introduces the concepts of nomenclature, stereochemistry, and reaction mechanism.

CHEM 2315 Organic Chemistry I Laboratory 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 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.

CHEM 2320 Organic Chemistry II 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. 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.

CHEM 2325 Organic Chemistry II Laboratory 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.

CHEM 3000 Analytical Chemistry 4:2:6 F
• Prerequisite(s): CHEM 1225
For Chemistry majors and others interested in the basic principles of chemical measurement. Studies principles of quantitative analysis, stoichiometry, equilibrium theory, volumetric and gravimetric analysis. Includes introduction to instrumental methods and error analysis. Includes lectures and laboratory exercises.

CHEM 3020 Environmental Chemistry 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.

CHEM 3025 Environmental Chemistry Laboratory 1:0:3 On Sufficient Demand
• Prerequisite(s): CHEM 1225
Laboratory course which supports CHEM 3020. Introduces laboratory, sampling, and data analyses techniques used in environmental laboratories. Covers air sampling, soil and water analysis using a variety of instruments and techniques.

CHEM 3060 Physical Chemistry I 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.
## Course Descriptions

**CHEM 3070**

**Physical Chemistry II**

4:4:0  
- Prerequisite(s): CHEM 3060  
Continuation of Chemistry 3060. Covers quantum mechanics, spectroscopy, kinetics, and statistical thermodynamics.

**CHEM 3080**

**Physical Chemistry III Statistical Mechanics and Chemical Kinetics**

3:3:0  
- Prerequisite(s): CHEM 3070  
Teaches the fundamental concepts of chemical kinetics, as well as the fundamentals of the specialized topics of the physical chemistry of chemical symmetry, computational chemistry, NMR spectroscopy, and electrochemistry.

**CHEM 3090**

**Physical Chemistry Applications in Biology**

3:3:0  
- Prerequisite(s): MATH 1220, CHEM 2320  
Covers the fundamentals of statistical mechanics and chemical kinetics, as well as the fundamentals of the specialized topics of the physical chemistry of chemical symmetry, computational chemistry, NMR spectroscopy, and electrochemistry.

**CHEM 3100**

**Advanced Inorganic Chemistry**

4:4:0  
- 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.

**CHEM 3115**

**Physical and Inorganic Chemistry Laboratory**

1:0:4  
- 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.

**CHEM 3200**

**Chemistry Literature**

1:0:2  
- Prerequisite(s): CHEM 2320  
Corequisite(s): CHEM 3000  
Teaches 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.

**CHEM 3600**

**Biological Chemistry**

3:3:0  
- Prerequisite(s): CHEM 2320  

**CHEM 3605**

**Biochemistry Laboratory**

1:0:4  
- 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.

**CHEM 3620**

**Biological Chemistry II**

3:3:0  
- 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.

**CHEM 3700**

**Forensic Analytical Chemistry**

3:3:0  
- 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.

**CHEM 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.

**CHEM 4000**

**Instrumental Analysis**

2:2:0  
- 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  
- 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 an advanced laboratory exercise.

**CHEM 4030**

**Radiochemistry**

3:3:0  
- 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**

**Teaching Methods in Science**

3:3:0  
- 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  
- 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  
- 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  
- Prerequisite(s): CHEM 2320 and CHEM 3000 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: 3 to 9  
- Prerequisite(s): 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
Course Descriptions

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  LH
- 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 digitlog 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 diglot 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
Explores Chinese history and culture through reading and writing of basic 450-600 characters.

CJ 1010
Introduction to Criminal Justice
3:3:0  F, Sp, Su
- Prerequisite(s): Permission Required
Prepares students for a career in criminal justice. Introduces the processes, institution, and administration of criminal justice in the United States. Examines the crime problem and criminal law. Discusses criminal law, law enforcement, criminal prosecution, criminal defense, bail, the jury system, and sentencing. Explores the correctional system; namely, probation, prisons, inmates' rights, and parole.

CJ 1300
Introduction to Corrections Process
3:3:0  F, Sp
- Prerequisite(s): CJ 1010 and ENGL 1010
Introduces the corrections system. Includes origin and evolution, philosophies of corrections, perspectives on sentencing, and alternatives to incarceration. Includes community corrections, probation and parole, offender rights and legal issues; adult, juvenile, and special needs offenders; corrections specialists, staff and administration as a profession and special challenges for the future.

CJ 1330
Criminal Law
3:3:0  F, Sp, Su
- Prerequisite(s): LEGL 1000 or CJ 1010
Provides an overview of criminal law and procedures. Covers history and terminology of the criminal justice system, the elements of specific offenses, and the role of the paralegal in the fact-gathering process.

CJ 1340
Criminal Investigations
3:3:0  F, Sp
- Prerequisite(s): CJ 1010 and ENGL 1010
Introduces criminal investigation including necessary functions of interviewing witnesses and suspects, preservation and collection of evidence, and crime scene processing including post-crime scene processing of evidence.

CJ 1350
Introduction to Forensic Science
3:3:0  F, Sp
- Prerequisite(s): CJ 1010
Studies the importance of proper identification, collection and preservation of physical evidence. Teaches laboratory techniques and services available to the law enforcement professional as they relate to physical evidence.

CJ 1390
Police Field Operations
3:3:0  F, Sp
Explores patrol and basic field procedures, observation and perception along with police communications. Teaches field note-taking, crime scene recording, and the art of interviewing. Emphasizes patrol assignments, crimes in progress, preliminary investigations, traffic direction and enforcement, arrest, search, custody, stress survival and the use of force, community policing, and problem solving.

CJ 1800
POST Module I
7:7:0  Su, F
- 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
11:11:0  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 mock court.
CJ 2110
Security Management and Loss Prevention
3:3:0
- 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 2330
Juvenile Justice
3:3:0
- 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
Laws of Evidence
3:3:0
- Prerequisite(s): CJ 1330

CJ 281R
Internship
1 to 8:0:5 to 4
- 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.

CJ 290R (Cross-listed with: LEGL 290R)
Law Society
1:1:0
Su, 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. Criminal Justice majors and Paralegal majors may repeat this course for a total of three elective credits towards graduation. Each student must participate in the service project and fundraiser for a passing grade.

CJ 2920
Short-Course Workshop
1 to 3:1 to 3:3 to 9
On Sufficient Demand
The specific title with the credit authorized for the particular offering will appear in the semester schedule and on the student transcript.

CJ 3020
Criminal Justice Management
3:3:0
- 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 1300, 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
Examines the origin, development, 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
Covers three main areas: 1) women as offenders; 2) women as victims; and 3) women as criminal justice practitioners.

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
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 4060
Special Problems in Criminal Justice
3:3:0
On Sufficient Demand
- Prerequisite(s): Acceptance into the Criminal Justice Bachelor Degree Program and Senior
Course Descriptions

CJ 4160
Constitutional Rights and Responsibilities
3:3:0 F, Sp
- 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 F, Sp
- 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 F, Sp
- 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 F, Sp
- 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 F, Sp, Su
- 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 6:0:5 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 3:0:5 to 9 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 1010
Student Success Topics
1 to 2:1 to 2:0 Not 10-11
- 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

Focuses on the nature of leadership, citizenship, and advocacy in a democracy. Provides an overview of leadership and civic as crucial to the success of any leader, including a student leader.

CLSS 1040
Student Leadership Development II
1:1:3 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
- Prerequisite(s): Appropriate placement scores

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 improve reading speed and flexibility while maintaining or increasing their level of comprehension. Also teaches methods of speed studying.
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Course Descriptions

**CLSS 1190**  
Power Reading Strategies  
2:2:0  
F, Sp  
- Prerequisite(s): Appropriate placement scores  
- Provides intensive instruction in reading skills and effective strategies for improving reading skills. Introduces students to tools for improving reading comprehension and efficiency. Focuses on developing skills essential for success in college, including directed reading and peer tutoring. Includes lecture, laboratory, and field trips in addition to traditional classroom activities.

**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 long-term success. Includes highly interactive class discussions, application exercises, videos, and group work.

**CLSS 1300**  
Learning to Learn  
2:2:0  
Not 10-11  
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-reflection, lecture, group interaction, and application of principles to the academic setting.

**CLSS 2100**  
Career and Major Exploration  
3:3:0  
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  
Su, F, 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.

**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 mentoring 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  
Provides the theoretical base and hands-on training for potential UV Mentors. Examines leadership 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 long-term success. Includes highly interactive class discussions, application exercises, videos, and group work.

**CMGT—CONSTRUCTION MANAGEMENT**

**CMGT 2010**  
Introduction to Construction Management  
3:3:0  
F, Sp  
- Prerequisite(s): Basic Computer Applications Exam with score of 80% or higher or DGM 1010; and MAT 1000 or higher or EGD 1600  
- Corequisite(s): CMGT 2100 recommended  
- Presents 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 2010**  
Construction Materials and Methods I  
3:2:3  
F, Sp  
- Prerequisite(s): CMGT 2010, EGD 1600  
- 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 2010**  
Construction Materials and Methods II  
3:2:3  
F, Sp  
- Prerequisite(s): CMGT 1020, EGD 1620  
- 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  
- 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 2010  
- 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 2010, ACC 3000 or (ACC 2010 and ACC 2020, or ACC 2030)  
- 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  
Su, F, Sp  
- Prerequisite(s): (MATH 1060 or EGD 1610) and CMGT 2010  
- 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  0.5:0:0.5  F, Sp
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): CMGT 3030
Prepares learners to be able to interpret and utilize appropriate construction documents such as contracts, waivers, change orders, employee documents and specifications, etc. Addresses the dispute process in the United States and the contractual relationship associated with construction project delivery methods.

CMGT 4500  Senior Capstone Project  3:1:4  On Sufficient Demand
• Prerequisite(s): CMGT 4010
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  2:1:2  On Sufficient Demand
• Prerequisite(s): 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 3:0:5 to 15  F, Sp, Su
• 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 3:0:5 to 15  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 3:0:3 to 9  F, Sp, Su
• 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.

COMM—COMMUNICATION

COMM 1020  Public Speaking  3:3:0  Su, F, Sp
Covers speech research, preparation, outlining, and delivery. Provides students with practical experience and evaluation.

COMM 1050  Introduction to Speech Communication  3:0:0  Su, 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  Su, 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  F, Sp
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 up to four times.

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 1510  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 210  Mass Communication and Society  3:3:0  Su, F, Sp
• Prerequisite(s): COMM 1500
Examines relationships between mass communication and society from a variety of theoretical perspectives and social concerns.

COMM 270G  Introduction to Gender and Communication  3:3:0
Introduces students to 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  F
• Prerequisite(s): COMM 1130
Introduces news judgment, content, and forms. Prepares and edits copy for publication, including rewriting faulty stories, copy editing, proof-reading, headlines, newspaper design, and picture editing.

COMM 2110  (Cross-listed with: MGMT 2110)  SS
Interpersonal Communication  3:3:0  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 217G  (Cross-listed with: ENGL 217G)  HH
Race Class and Gender in U.S. Cinema  3:2:2  F, Sp
• 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.
COMM 2120 Small Group Communication and Decision Making 3:3:0 Sp, DE
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 2200 Broadcast Journalism Anchoring and Producing 3:1:6 F, Sp
- 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 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 Radio Production 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 3:0 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 289A Independent Study 1:1:0 On Sufficient Demand
- Prerequisite(s): COMM 1610
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 3:0 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 290E 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 3010 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 3020 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 3050 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 interactionism, structuralist, post-

Strive to improve.
structure, postmodern, and critical theories.

COMM 3100 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 Non-Fiction Cinema History 3:2:3
- 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 NANOOK 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 2010 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 Global Cinema History 3:2:3
- 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 Film Theory 3:3:0
- Prerequisite(s): ENGL 2010 or ENGL 2020 or permission of instructor
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 3180 Communication and Social Behavior 3:3:0
- Prerequisite(s): COMM 2110, COMM 2120
Examines the complex relationships 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 3.0 to 3.0 : 3.0 to 3.0 : 0.0 to 0.0
- 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-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 Fundamentals of Mediation and Negotiation 3:3:0
- Prerequisite(s): COMM 1050 or LEGL 1000 or (PSY 1010 or SOC 1010 or SW 1010)
Prepares students to understand and participate knowledgeably on a basic level in the processes of mediation and negotiation. Improves 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 Communication and Conflict 3:3:0
- Prerequisite(s): COMM 2110, COMM 2120
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 2120
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 (6) 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 3620 International Communication 3:3:0
- Prerequisite(s): COMM 2110 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 362G International Communication 3:3:0
- Prerequisite(s): COMM 2110 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
Explores news and information in a democratic framework. Develops interview techniques, public record use, fact checking and electronic data access in relation to complex social issues. 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  Sp
- 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.

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, Sp
- 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 televisul 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 4100  Cross-listed with: SW 4100, PSY 4100, LEGL 4100
Advanced Mediation and Negotiation 3:3:0  F, Sp
- Prerequisite(s): ENGL 2010 or ENGL 2020, COMM 3410 or LEGL 3410 or PSY 3410 or SW 3410

Prepares students to perform at an advanced level in the processes of mediation and negotiation. Builds on the fundamentals learned in the basic course, improves knowledge of both processes, and sharpens practical skills and effectiveness as a mediator or negotiator. Uses an interactive-workshop format that blends theory with simulated case role-play. A certification with the Utah State Court mediator or negotiator. Uses an interactive-workshop course, improves knowledge of both processes, in the processes of mediation and negotiation. Prepares students to perform at an advanced level for graduation.

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 3.0 : 3.0 : 0.0
- 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 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 operation duties for on-air institution 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 8:0:5 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.

CRT—COLLISION REPAIR TECHNOLOGY

CRT 100R
Paint Your Own Car 2:1-4  Su, F, Sp
- Prerequisite(s): Communication major and senior status

Designed as a survey class. Discusses and demonstrates safety, sanding, masking, feather edging, priming, and refinishing of student's vehicle. Students will refinsh 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  Su, F, Sp
- Prerequisite(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  
F  
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  
Studies automotive refinishing blending techniques. Identifies proper procedures for single stage, base coat, and tri stage blending. Identifies detailing techniques and materials. Uses ICAR Advanced Technical Curriculum. Successful completers should be prepared for ASE certification.

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 aluminums. Studies the most common joints as they apply to current vehicles construction techniques. Introduces plasma arc cutting techniques. Uses ICAR Advanced Technical Curriculum. Successful completers should be prepared for ASE certification.

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  
Provides a laboratory experience for plastic parts identification, interpretation of ISO codes, plastic...

**CRT 2420 Plastic Repair**  
4:1.5:7  
Teaches various repair methods, tools, and materials used to correctly repair plastic materials and SMC panels in modern vehicles. Includes lecture, demonstrations, and lab. Uses I-CAR Advanced Technical Curriculum. Successful completers should be prepared for ASE certification.

**CRT 2430 Mechanical and Electrical Repair**  
4:1.5:7  
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  

**CRT 244L Mechanical Advanced Vehicle Systems Lab**  
1:0:3  
- Corequisites(s): CRT 2440  

**CRT 2450 Bags Brakes Steering**  
2:2:0  
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 Technical curriculum is used.

**CRT 2510 Custom Welding**  
2:2:0  
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  
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  
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, kraftformer, 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, kraftformer, plenisher hammer, shrinkers, and stretchers. Teaches panel fabrication and hammer forming.

**CRT 2540 Structural Body Fabrication**  
2:2:0  
Not 10-11  
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  
- Corequisites(s): CRT 2540  
Provides a laboratory experience for identifying the different types of frames and how to modify them. Teaches sub-framing, pro-streeting, narrowling of rear ends, drive shafts, and complete frame change over. Covers exhaust systems and other alterations, front to rear.

**CRT 2560 Frames**  
2:2:0  
- Corequisites(s): CRT 2610  
Provides a laboratory experience for methods of top chopping, sectioning and channeling techniques.

**CRT 2561L Top Chopping Sectioning and Channeling Lab**  
1:0:3  
- Corequisites(s): CRT 2560  
Provides a laboratory experience for methods of top chopping, sectioning and channeling techniques.

**CRT 2620 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-streeting, 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  
- Corequisites(s): CRT 1110, CRT 1120, CRT 1130, CRT 1140  
For students pursuing a Diploma or an AAS degree in Collision Repair Technology or interested community members with a welding background. Identifies the different frames and how to modify them. Teaches sub-framing, pro-streeting, narrowing of rear ends, drive shafts, and complete frame change over. Covers exhaust systems and other alterations, front to rear.

**Course Descriptions**
Course Descriptions

**CRT 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 1120, CRT 1130, CRT 1140
For students pursuing a diploma or an AAS degree in Collision Repair Technology with an emphasis in Custom Street Rod Technology or interested community members. Covers basic hand tools, such as: hammers, dollies, 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, dollies, 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, lay out, and cutting.

**CRT 281R**
Cooperative Work Experience
1 to 6:5:0 to 4:0
• 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
Designed for Collision Repair 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 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 299R**
VICA
1:1:0
• Prerequisite(s): CRT 281R
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.

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**CS**—**COMPUTER SCIENCE**

**CS 1030**
Foundations of Computer Science
3:3:0
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
3:3:0
• 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 1340**
Object-Oriented Programming
3:3:0
• Prerequisite(s): CS 1400
Introduces the key concepts of object-oriented programming. Includes pointers and dynamic memory allocation, linked lists, inheritance and polymorphism, the development of graphical user interfaces, operator overloading, memory management, exceptions, templates and the standard template library, and an overview of object-oriented analysis and design.

**CS 2220**
Visual Basic Programming
3:3:0
• Prerequisite(s): CS 1400

**CS 2250**
Java Programming
3:3:0
• On Sufficient Demand
• 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
3:3:0
• 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++ Programming
3:3:0
• On Sufficient Demand
• 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 to 3:1 to 3:0
• On Sufficient Demand
• 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 (3) hours may be counted towards graduation without prior written CNS Department approval.

**CS 2420**
Introduction to Algorithms and Data Structures
3:3:0
• Prerequisite(s): CS 1410
Introduces data structures using an object-oriented programming language, and paradigm. Studies data
abstraction as a design tool. Includes advanced 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
- Prerequisite(s): CS 2300, CS 2420

Introduces principles, methodology and best-practices necessary to develop large scale software projects. Includes step-wise software requirements analysis, design, implementation, testing and release. Discusses software generation, reuse, scheduling, verification, and maintenance. Emphasizes current “real world” industry best-practices and tools.

**CS 2550 Internet Programming**

3:0
- 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 Communications**

3:0
- Prerequisite(s): CS 2810, (CS 1510, MATH 1210, PHYS 2210 recommended)

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 279R Current Topics in Networking**

1 to 3:1 to 3:0
- Prerequisite(s): Department approval

Current Topics in Networking 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
- 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 to 8:0:5 to 40
- 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 to 6:0 to 6:0 to 18
- 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 CS Seminar**

1 to 3:0 to 3:0 to 12
- Prerequisite(s): Department approval

Provides exposure to emerging technologies and state-of-the-art topics of current interest in 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 CS Department approval.

**CS 301R Invited Speaker Series**

1:1:0
- Prerequisite(s): F, Sp

Guest speakers lecture on current topics in computer science, computer engineering, and electrical engineering. May be repeated for a maximum of one credit toward graduation.

**CS 305G Global Social and Ethical Issues in Computing**

3:0
- 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 judgments, (2) examine various ethical issues surrounding computer usage, particularly in differing societal contexts, (3) understand the responsibilities they bear, to know how their actions can affect both society and individual people in their own and other cultural settings, and to appreciate both the good and the harm they can do and (4) consider many of the moral and professional issues that those who work with computers might expect to face.

**CS 3060 Operating Systems Theory**

3:0
- Prerequisite(s): CS 2420 and CS 2810

Examines 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 3220 Rapid Client Server Development with Visual Basic**

3:0
- Prerequisite(s): CS 2420


**CS 3240 Introduction to Computational Theory**

3:0
- Prerequisite(s): CS 2300

Examines 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
- Prerequisite(s): CS 2420

Examines 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 practices.

**CS 3260 C# .NET Software Development**

3:0
- Prerequisite(s): CS 2420

Examines the C# programming language and the .NET Framework that the programming language is within. Discusses the various datatypes, built-in class in namespaces, and how to develop user-defined classes and namespaces. Includes programming assignments for console, GUI, and ASP.NET applications.

**CS 3310 Introduction to Algorithms**

3:0
- 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
- Prerequisite(s): CS 2300, CS 2420, 2810, MATH 1220 (MATH 2270 recommended)

Examines how computers have affected global society and how they could further affect it in the future. Challenges students to (1) examine several types of ethical reasoning to establish an ethical framework to assist in making normative judgments, (2) examine various ethical issues surrounding computer usage, particularly in differing societal contexts, (3) understand the responsibilities they bear, to know how their actions can affect both society and individual people in their own and other cultural settings, and to appreciate both the good and the harm they can do and (4) consider many of the moral and professional issues that those who work with computers might expect to face.

**CS 3240 Introduction to Computational Theory**

3:0
- Prerequisite(s): CS 2300

Examines concepts of formal (programming) language definition, Turing machines, finite automata, regular expressions, grammars, context-free languages, and computability.
exception 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 3:3:0 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 3:3:0 F
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 3:3:0 F
Prerequisite(s): CS 3320 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 3:3:0 F
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 3:3:0 F
Prerequisite(s): CS 2420; CS 3370 recommended. Presents 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 multi-player games.

CS 3550 Internet Software Development 3:3:0 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 3:3:0 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 3:3:0 Sp
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 3:3:0 F, Sp
Prerequisite(s): CS 2300, CS 2600, ENGL 1010, MATH 1210. (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 4010 Database Management System Construction 3:3:0 F
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 3:3:0 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 3:3:0 Sp
Prerequisite(s): CS 3060, MATH 2040
Introduces simulation of the methods used to study the behavior of digital systems. Includes the study of discrete simulation models, queuing theory, the generation of random numbers and varieties, and stochastic processes. Compares popular simulation languages and commercially available simulation tools. Describes approaches to design of simulation experiments and the analysis of experimental data.

CS 4380 Advanced/High-Performance Computer Architecture 3:3:0 F
Prerequisite(s): CS 3060
Presents theory and concepts of high-performance computer architectures. Includes digital logic, buses, registers, ALU’s, control units, pipelining, parallelism, DASD’s, SASD’s, RAID, caching, instruction-sets, memory hierarchy, multiprocessing, interconnection via networks.

CS 439R Advanced Current Topics in Computer Science 1 to 3:0 to 3:0 to 12 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 CNS Department approval.

CS 4400 Software Engineering II 3:3:0 F
Prerequisite(s): CS 2450
Covers principles and practices of early phases of software development life cycle. Studies software requirements elicitation, analysis, and design. Includes in-depth, practical study of at least one major software development approach as applied to a realistic organizational systems problem. Explores requirements definition, analysis including prototyping, functional and nonfunctional requirements specification, legacy systems, and architecture patterns.

CS 4450 Analysis of Programming Languages 3:3:0 F
Prerequisite(s): CS 3240
Offers the mature student an in-depth understanding of the design and implementation of programming languages. Criteria for evaluating programming languages are established as a context for comparing both traditional and current popular languages. Topics include the evolution of programming languages, syntax analysis, the concept of binding, type checking, static and dynamic scoping, control structures, subprograms and parameter passing methods, concurrency, and exception handling. Explores the functional programming paradigm in-depth. Includes programming assignments in at least two different programming languages, at least one of which being a functional language such as LISP, Scheme, ML, or Haskell.
Course Descriptions

CS 4470
Artificial Intelligence
3:3:0 F
- Prerequisite(s): CS 3240, MATH 1220, and (CS 3220 or CS 3250 or CS 3260)
Prepares students to create 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 4480
Digital Image Processing and Computer Vision
3:3:0 F
- 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
3:3:0 Sp
- Prerequisite(s): CS 4380, CS 4450
Studies theory, analysis and design of class design. Requires completion of a program level assessment test.

CS 4500
Advanced Topics in Database
3:3:0 Sp
- 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
3:3:0 Sp
- Prerequisite(s): CS 4380
Prepares students to create 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 4550
Software Engineering III
3:3:0 Sp
- Prerequisite(s): CS 4400
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
3:3:0
- 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
3:3:0 Sp
- Prerequisite(s): CS 4610
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 4690
Distributed Internet Application Development
3:3:0
- Prerequisite(s): CS 3690 and (CS 3220 or CS 3250 or CS 3260 or CS 3370)
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 479R
Advanced Current Topics in Computer Science
1 to 3:0 to 12 On Sufficient Demand
- Prerequisite(s): Department 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 481R
Internship
1 to 8:0:5 to 40 Su, F, Sp
- Prerequisite(s): CS 3240 and Instructor 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 489R
Undergraduate Research Project
2 to 6:2 to 6:0 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 to 6:0 to 6:0 to 18 On Sufficient Demand
- Prerequisite(s): Prior written Department Chair 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 Department approval.

CS 496R
Senior Seminar
1 to 3:0 to 3:0 to 12 On Sufficient Demand
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.

DANC
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 1010
Beginning Ballet
1:0:2 F
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 1100
Music for Dancers
1:0:5:2 Sp
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.

DANC—DANCE
Internship 1 to 8:0:5 to 40 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.

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
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
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.
Course Descriptions

relationship to dance. Studies simple and complex rhythmic patterns, rhythmic analysis of select world music styles (African, Eastern European, and American Funk rhythms), vocalizing, instrumentation, score reading, musical structure, and compositional principles. Includes vocal, instrumental, and movement participation; lecture; writing; and discussion.

DANC 1200
Beginning Modern Dance
1:0:2 F, 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 1300
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
3:1:8.5 F
- Prerequisite(s): Audition
First level modern dance technique for Dance majors. Focuses on development of solid foundational skills in modern dance technique and theory that prepare the student for an intensive major program. Emphasizes the development of strength, flexibility, core support, coordination, kinesthetic awareness and memory, and movement expressiveness. Includes experience in improvisation and composition as a means of understanding and applying technical skills in performance settings. May be repeated for a total of six credits toward graduation.

DANC 144R
Modern Dance Technique and Theory I
3:1:6.5 Sp
- Prerequisite(s): DANC 143R
First level modern dance technique for Dance majors. Focuses on development of solid foundational skills in modern dance technique and theory that prepare the student for an intensive major program. Emphasizes the development of strength, flexibility, core support, coordination, kinesthetic awareness and memory, and movement expressiveness. Includes experience in improvisation and composition as a means of understanding and applying technical skills in performance settings. May be repeated for a total of six credits toward graduation.

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
1:0:2 F, Sp, Su
Explores a variety of Hip-hop styles and moves to the latest music. Introduces students to fundamental dance techniques. Discusses Hip-hop as a cultural movement.

DANC 1600
Hip-Hop II
1:0:3 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 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
1:0:2 Su, F, Sp
Explores basic forms of authentic Polynesian dance with a focus on the dances of Tonga, New Zealand, Tahita 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 F, Sp
- Prerequisite(s): Previous American Social Dance experience. Teaches beginning (Bronze) level patterns of American Social Dance including Foxtrot, Triple Swing, Waltz, and Cha Cha. Emphasizes, on a beginning level, correct rhythm, poise, footwork and foot positions, dance position, and etiquette. Successful completers will have a good general knowledge of Bronze level curriculum.
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,  
purpose, 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 10-11  
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 10-11  
- 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 artistic field of  
study.  Examines various dimensions of the discipline  
such as performance, 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  
development of musicality and epuement as it  
relates to artistic interpretations.  Successful  
completers will be prepared to perform simple men’s  
varying 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  
barre.  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.  Guides  
students to analyze 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 develop-  
ing 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 documentation-  
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  
cross-training 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  
Special Topics In Dance  
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.  Emphas-  
izes study and performance of guest and faculty  
choreography.  Introduces students to choreographic  
approaches of historical and current works.  Includes  
performance in formal and informal concerts.  
Repeatable for a maximum of three credit hours.

DANC 248R  
Special Topics In Dance  
2:1:2  
F, Sp  
Provides students an in-depth exploration of  
specialized dance forms outside of traditional course  
of offerings, with an emphasis on World Dance forms  
such as Polynesian, Classical Indian, Argentine  
Tango, Capoeira, Balinese and Tibetan Folk  

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Dance. Focuses on learning specific dance forms through active participation. Includes integration of theoretical, historical and social concepts which deepen the student’s understanding of the context in which the dance form was practiced historically and is practiced today. May be repeated for a total of 6 credits toward graduation.

**DANC 250R**
Advanced Jazz Dance
2:1:3.5 F, Sp
• Prerequisite(s): Instructor Approval
Explores advanced level jazz technique, performance and composition skills. Includes preparation for the professional audition through movement experiences, lecture with group discussions, video, guest teacher(s), and group projects. May be repeated for a total of six credit hours.

**DANC 2560**
African Dance II
1:0:3 Su, F, 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 Foxtrot, 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, Foxtrot, 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 3:0.5:2.5 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 costuming, set design, sound design, backstage organization, make-up for dance, promotion, and programming. Includes lecture and lab experience.

**DANC 3150**
Music for Ballet Dancers
2:1:2 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 F
• 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 F
• Corequisite(s): DANC 327R or DANC 427R
Focuses on men’s ballet technique and prepares men dance majors for the professional world. Emphasizes jumps and technical abilities specifically for men. Builds strength and control necessary for further study. Explores the development of musicality and epaulement as it relates to artistic interpretations. Successful completers will be prepared to perform men’s variations from the classical repertoire. May be repeated for a total of four credit hours.

**DANC 327R**
Ballet Technique III
3:1:5.5 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
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DANC 3330
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 2330, DANC 2340
• Corequisite(s): DANC 327R, DANC 427R, or DANC 426R and (DANC 321R or DANC 421R)
For dance majors desiring ballet emphasis. Investigates and explores the choreographic process with relationship to narration as well as all choreographic concepts. Includes the creation of student works that give shape and form to ideas based on a specific theme or statements. Examines plot, character, and theme as part of the creative process.

DANC 3350
Choreography
2:1:2 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
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, rhetorical, 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, rhetorical, 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 up to 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 multicultural 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
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 the 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. Emphasizes application of principles of Bartenieff 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, Effort, Shape and Space Harmony paradigms. Utilizes physical performance and written and verbal observation methods. Examines application to disciplines that concern themselves with human movement behavior such as behavioral sciences,
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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 symbolism 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 American Style Fox trot, Cha Cha, Waltz, Triple Swing, Viennese Waltz, and West Coast Swing. Emphasizes, on an advanced level, correct poise, style, rhythm. Also teaches correct footwork, foot position, alignments, rise and fall, partnering, correct leading and following, and etiquette. First semester successful completers will have a general knowledge of Gold level curriculum. Second semester successful completers will have an in-depth knowledge of Gold level curriculum. 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 develop a general knowledge of Gold level curriculum. Second semester successful completers will develop an in-depth knowledge of Gold level curriculum. Must be repeated for two credits toward graduation.

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. Completers 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. Includes guest teachers. May be repeated for a total of eight credit hours.

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. Includes discussion, lecture, research, student presentations and participation.

DANC 376R
Ballroom Dance Company Reserve Tour Team
2:0:6 F, Sp
- 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
- Corequisite(s): DANC 427R
For women dance majors and other students with an interest in the professional dance world. Emphasizes pointe. Continues to build strength and control through increased complex combinations. Explores advanced levels of styles from classical and contemporary repertoire. Develops virtuosity en pointe. Completers will have skills necessary to perform at a professional technical skill level. Includes guest teachers. May be repeated for a total of six credits toward graduation.

DANC 422R
Ballet Technique for Men
1:0:3 F
- Prerequisite(s): Intermediate/Advanced equivalent skill level to be determined by audition
- Corequisite(s): DANC 227R or DANC 327R or DANC 427R
Explores jump, turns, and 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 pointe. In-depth study of styles from classical and contemporary repertoire. Women develop successful virtuosity en pointe. Completers will have skills necessary to perform at an professional technical and artistic skill level and have the advanced experience necessary to pursue a professional career in Dance. Includes guest teachers. May be repeated for a total of six credits toward graduation.

DANC 424R
Pas de deux
1:0:2 F
- Prerequisite(s): (DANC 321R or DANC 327R) and (DANC 421R or DANC 427R or DANC 426R)
advanced equivalent skill level to be determined
by audition.
- Corequisite(s): DANC 427R or DANC 428R and (DANC 421R or DANC 423R)

For dance majors and other students with an interest in developing their advanced level technique. Emphasizes work as pairs through tradition styling and classical technique. Explores various pas de deux from classical through contemporary repertory. 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 corps de ballet professional performance level. May be repeated for a total of 18 credits toward graduation.

**DANC 428R Ballet Technique V**
3:1:6.5 F, Sp
- Prerequisite(s): DANC 427R or advanced equivalent skill level to be determined by audition.
- Corequisite(s): DANC 421R or DANC 423R

For ballet students who successfully audition for Utah Regional Ballet Company at an advanced skill and artistic skill level who are prepared for the technical difficulties required at a professional level. Provides hands-on experience in barre and center floor work to fully develop the professional artist. Successful completers will be prepared to participate on a professional performance level. May be repeated for a total of 24 credits toward graduation.

**DANC 429R 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 theoretical understanding and skills in modern dance. Emphasizes body and performance techniques, axial and locomotor skills, total body connectivity, movement progressions, increased spacial, rhythmical and qualitative acuity, risk-taking, and movement commitment. Includes aspects of composition, improvisation, and performance as they relate to technique. May be repeated for up to 9 credits total toward graduation.

**DANC 442R Modern Dance Technique and Theory IV**
3:1:6.5 Sp
- Prerequisite(s): DANC 441R or by audition

A capstone technique course for students interested in rigorous technical, performance, and theoretical training. Emphasizes advanced performance sequences and progressions that utilize technical, kinesthetic, and expressive skills. Includes challenging spacial, rhythmical, and qualitative performance skills, risk-taking, and movement commitment. Includes aspects of composition, improvisation, and performance as they relate to technique. May be repeated for up to 9 credits total toward graduation.

**DANC 4430 Dance Teaching Practicum**
3:2:3 Sp
- Prerequisite(s): DANC 3450

For secondary dance licensure majors or dance majors interested in dance pedagogy. Builds on the methodologies, strategies, ideologies and philosophies of dance pedagogy studied in DNCE 3430. Emphasizes lesson plan and unit development, instruction, and assessment based on the National and Utah State Dance Standards. Focuses on the integration of theory and practice during a practicum experience in the secondary public schools setting. Includes writing, reading, discussion, and participation.

**DANC 446R Contemporary Dance Ensemble**
2:0:6 F, Sp
- Prerequisite(s): By audition
- Corequisite(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 471R International Ballroom Dance IV**
2:1:2 F, Sp
- 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, Foxtrot, and Viennese Waltz. Emphasizes, on a pre-professional level, correct poise, style, and rhythm. Also teaches and enhances correct footwork, foot positions, alignments, rise and fall, partnering, floor craft, body flight, 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 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
Course Descriptions

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
- Prerequisite(s): DANC 371R, DANC 3730
For Dansesport majors and other students interested in teaching International Ballroom classes. Covers technical and theoretical aspects of all basic figures in Waltz, Foxtrot, 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
- Prerequisite(s): DANC 372R, DANC 3730
For Dansesport 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
- 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 3:0:5.2.5 to 12.5
- 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 towards graduation.

DANC 4880
Current Issues in Dance 3:3:0
- 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
- Prerequisite(s): DANC 2110 and (DANC 365R or DANC 3670)
Course Descriptions

DENT—Dental Hygiene

DENT 1010
Dental Hygiene I 4:2:6
- Prerequisite(s): Departmental permission required
For students accepted into the Dental Hygiene Program. Introduces basic principles and skills used in the practice of dental hygiene, including infection control, patient assessment and treatment. Skills are practiced in a preclinical setting on dental mannequins and student patients; all skills are taught to clinical competence. Builds on basic and dental sciences and prepares for clinical dental hygiene practice on community patients.

DENT 1020
Oral Anatomy and Physiology 4:3:3
- Prerequisite(s): Departmental permission required
For students accepted into the Dental Hygiene Program. Focuses on study of the oral region. Includes radiation physics, biology, protection, emergency preparedness. All skills are taught to clinical competence. Builds on basic and dental sciences and prepares for clinical dental hygiene practice.

DENT 1040
Dental Hygiene II 6:3:9
- Prerequisite(s): Departmental permission required
Provides advanced 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 2:1:3
- Prerequisite(s): Departmental permission required
Focuses on 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 3:3:3
- 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
- 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
- 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 6:2:12
- Prerequisite(s): Departmental permission required
Introduces skills involving oral anesthesia and supportive periodontal treatment. Advanced skills of dental hygiene practice, including assessment and treatment are practiced on patients of all ages.
the dental hygiene profession. Considerations, and other challenges faced in the profession of dental hygiene. Includes observation and prepares for entry into the many aspects of the dental hygiene practice.

DENT 3040 Dental Hygiene IV 6.2:12 Sp
- Prerequisite(s): Admission to the BS Dental Hygiene
Provides comprehensive clinical experience in all phases of dental hygiene practice for patients, regardless of special needs; all skills are taught 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
Explores topics relevant to contemporary practice of dental hygiene, including their professional roles, career and stress management, ethical and legal aspects, and the role of the dental hygienist in the dental specialty practices. Builds on clinical practice and prepares for entry into the many aspects of the profession of dental hygiene. Includes observation of various dental specialty practices.

DENT 3060 Advanced Dental Hygiene Public Health 3.2:3 F
- Prerequisite(s): Admission to the BS Dental Hygiene
Examines current and future issues in oral public health. Examines barriers and solutions to health concerns. Teaches students to produce a program or process to address an issue.

DENT 3100 Office and Private Practice for the Dental Hygienist 3.3:0 F
- Prerequisite(s): 2 year hygiene degree and departmental approval
Expands beyond the dental hygiene basics taught in hygiene school. Addresses topics in dental hygiene practice that will help the clinical dental hygienist become more proficient in their field and a leader in dental hygiene. Studies practice management issues, productivity, salary enhancement, cutting edge technology, dental insurance, salaries and benefits, team work, patients and money considerations, and other challenges faced in the dental hygiene profession.

DENT 3200 Teaching the Dental Hygiene Patient 2:2:0 F
- Prerequisite(s): Admission to the BS Dental Hygiene
Addresses areas such as learning theories, teaching strategies, societal-cultural considerations, and evaluation and applies them specifically to the needs of the dental hygienist when teaching his/her patients and the community at large.

DENT 360G Intercultural Dental Education 3:3:0 F
- Prerequisite(s): Admission to the BS Dental Hygiene
- Pre-or Corequisite(s): DENT 4200
Reviews teaching and learning theories as students design a culturally appropriate oral hygiene curriculum to meet a required need in a community setting, elementary school, civic group or at an international university. Includes concepts of community health such as: needs assessment/survey; analysis/diagnosis: project planning (curriculum planning); implementation and evaluation. Covers topics dealing with cultural sensitivity and diversity education. Provides students the option to either implement their oral hygiene education program on site (in country) or conduct a pilot program (trial run) locally if travel is not an option.

DENT 4010 Cutting Edge Seminar 1:1:0 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 1:1:0 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 3:3:0 F
- 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.

DGM—DIGITAL MEDIA

DGM 1010 Basic Computer Applications 2.2:5
- 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 F, Sp
- Prerequisite(s): Basic keyboarding skill
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.

DGM 106G Undergraduate Research in Dental Hygiene 3:3:0 F
- 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.

DGM 106H 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.
Course Descriptions

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
4:6:0
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
- 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 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
- 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
- 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, printing, and showing presentations. Includes planning a slide show, choosing appropriate designs, and using templates.

DGM 201C
Spreadsheet Applications
1:1:0
- 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
- 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 210R
Special Topics in Digital Media
1 to 4:0 to 12
On Sufficient Demand
Designed for students interested in specific digital media tools and concepts. Includes relevant and changing topics and tools used in production. Emphasizes hands-on experience along with lectures and demonstrations. This class may be taken for a total of nine credits, but curriculum may vary from one semester to another.

DGM 2110
Digital Motion Picture Essentials
3:2:3
- Prerequisite(s): DGM 1110 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
- Prerequisite(s): DGM 1110
Designed to provide students with the fundamentals of Web design practices, basic coding skills, and future directions that present opportunities for developers. Exposes participants to the latest enhancements on Web programming, examine various multimedia formats such as images, audio, video, sound and animation, and how to ensure international standards are best implemented. Culminates with a final group project during which students will design and create a working site.

DGM 2130
Digital Audio Essentials
3:2:3
- 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
3:2:3
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 222R
Special Topics in Digital Design
1 to 4:0 to 4:0
On Sufficient Demand
Designed for students interested in specific authoring tools and concepts used in digital media processes. Includes relevant and changing topics.
and tools used in digital authoring. 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 2210
3D Modeling and Animation Essentials
4:3:3 Su, F, Sp
- Prerequisite(s): DGM 1110 or DGM 2620
Addresses the basics of 3D modeling, rigging, texturing, animation, and rendering. Demonstrates how to utilize these techniques in a production pipeline for games and animation. Includes basic techniques and theories used in a 3D animation pipeline.

DGM 2240
Interaction Design
3:3:0 F
- 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 Su
- 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. Laptop Required

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 1110
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 with lectures and demonstrations. Curriculum may vary from one semester to another. May be repeated for a maximum of nine credits.

DGM 2400
Sound for Film and Television
3:3:0 Sp
- Prerequisite(s): DGM 2130 or MAT 1010 or PHYS 1700 or instructor approval
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 mixdown of a multi-track project. Also introduces psycho-acoustics and Digital Signal Theory. Continues more in-depth from where the Digital Audio Essentials class left off.

DGM 2420
Motion Picture Production
3:3:0 F
- Prerequisite(s): DGM 2130
Designed for students interested in specific video tools and concepts currently used in digital audio production. Includes relevant and changing topics and tools. Emphasizes hands-on experience with lectures and demonstrations. Curriculum may vary from one semester to another. May be repeated for a maximum of nine credits.

DGM 2440
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 with lectures and demonstrations. Curriculum may vary from one semester to another. May be repeated for a maximum of nine credits.

DGM 2450
Radio Production
3:3:0 F
- Prerequisite(s): DGM 2130
Teaches the basics of gathering sound for use in film and video productions. Covers proper boom miking and wireless mic techniques, and acoustics preparation to record dialogue and sound effects on location and on sound stages. Examines the processes utilized in editing audio of multimedia productions, including the balancing of artistic relationships, mixing and mastering of music, sound effects tracks and Foley. Offers practical experience in audio-only productions as well as audio-video relationships. Culminates in a digital cinema mixing session. Primarily a lab class, may couple with another video class to gather the sound for a cohesive project.

DGM 2460
Spreadsheet Applications
3:3:0 F
- Prerequisite(s): DGM 2130
Provides an extensive study and hands-on practice good integration with industry development 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 2350
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 2360
Digital Output
3:3:0 Sp
- Prerequisite(s): DGM 2320
Focuses on the color calibration of the digital camera, software, moni
Course Descriptions

DGM 2520
Film Production Analysis
3:2:3 On Sufficient Demand
- Prerequisite(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 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
3:2:3
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
Exploring 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 F
- 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 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 “Cool Factor” by ensuring that participant’s research, experiment and implement good design practices to reach approved design goals while utilizing approved international and Web standards. Topics include page layout, communicating with color and fonts, navigation logic, information design, and CSS development.

DGM 2760
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 web-page 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 4:0:5 to 20 Su, F, Sp
- Prerequisite(s): Departmental Approval
For Digital Media students to receive actual on-the-job work experience. Provides a transition from school-to-work where learned theory is applied to actual practice through a meaningful on-the-job paid experience. Includes student, employer and coordinator evaluations, on-site work visits, written assignments, and oral presentations. May be repeated for a maximum of 4 credits toward graduation.

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 310R
Advanced Topics in Digital Media
1 to 4:0 to 4:0 to 12 On Sufficient Demand
Includes relevant and changing topics and tools used in digital media. Emphasizes hands-on experience. Students will use digital tools to create a typical multimedia title. 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 3240
Interaction Design Colloquium
3:3:0 Sp
- Prerequisite(s): DGM 2240 or instructor approval
Provides students with unique and current industry perspectives on interaction design through seminar discussions.

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
Course Descriptions

DGM 3265
Authoring for Virtual Reality Environments
3:3:0 On Sufficient Demand
- 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 3270
DVD Authoring II
3:3:0 Sp
- Prerequisite(s): DGM 2270
Focuses on advanced development techniques of DVD-Video media technologies. Covers advanced characteristics of visual design, motion menus, unique programming aspects of DVD functionality, and ROM capabilities. Laptop Required

DGM 3280
Authoring for Digital Devices
3:3:0 Sp
- Prerequisite(s): DGM 1110 or Instructor Approval
Focuses on the application of media technologies that possess the ability to create rich immersive experiences for distribution on digital devices beyond the computer that can include iPods, personal information managers, mobile phones, home appliances or home entertainment systems. Laptop Required

DGM 3290
Developing Digital Media for Instruction and Training
3:3:0 F
- Prerequisite(s): DGM 3265
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 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 Sp
- 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 several key instruments, including piano and drums. Teaches the art of mastering for CD and DVD audio. Continues further in-depth topics on impedance matching, power requirements, and use of the decibel. Provides students with the opportunity to interface with several on-campus musical groups and to record several live concerts, and will require students to complete a mixdown of the shows.

DGM 3460
Live Sound Reinforcement
3:3:0 Sp
- 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. Sound indoors vs. outdoor will also be investigated. Teaches proper cabling and connections, speaker crossovers, and theory of bi-amplification. Mixer diagrams and basic electronics will also be covered. Practical experience acquired in giving technical support to UVU theater, music department, and public relations functions.

DGM 3480
Digital Audio Restoration
3:3:0 F
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 (hum 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. 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 3510
Digital Broadcasting
3:2:3 F
- Prerequisite(s): DGM 2110
Teaches planning, management, and execution of live video productions integrating multiple Teaches planning, management and execution of live video productions integrating multiple camera. 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
3:3:0 Sp
- Prerequisite(s): DGM 2110
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. Stresses narrative film based on structurally sound three act eight sequence scripts. Involves dividing the class into production teams and producing short three act narrative films that include dialogue, sound effects and music.

DGM 3540
Cinematography II
3:2:3 F, Sp
- Prerequisite(s): DGM 2540 and DGM 2320
A "hands-on" class that covers the role of the Director of Photography (DP) and Gaffer in drama-based broadcast television and digital cinematography. Teaches continuity of lighting, visual storytelling, implied script subtext through light quality and color, continuity in direction, use of lenses and shot blocking for the fixed and moving camera. Covers advanced grip and lighting equipment use and setups. Covers working with a producer, director, production designer, set decorator, boom operator and editor and on-set protocol.

DGM 3550
Post Production
3:3:0 Sp
- Prerequisite(s): DGM 2110
Teaches the professional post production process used to complete video tape, digital cinema, and multimedia productions. Covers workflow, dialogue editing, montage cutting, music cutting, multi-camera editing, multi-layer compositing, audio mixing, special effects editing, animation editing, fine
Course Descriptions

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
3:3:0 On Sufficient Demand
- Prerequisite(s): DGM 2110 and DGM 2520
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
- 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 3604 Visual Effects and Compositing I
4:4:0 F
- Prerequisite(s): DGM 2110, DGM 2210
Focuses 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
- Prerequisite(s): DGM 2210
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
- Prerequisite(s): DGM 3630
Studies 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 3668 Animation Project
3:3:0 Sp
- Prerequisite(s): DGM 3620
Devoted to the pre-production of a multi-quarter team project for students focusing on 2D/3D animation. Includes a research phase, writing, scripting, designing, storyboarding 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): DGM 2780
Intends for advanced students interested in learning 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 in various Rich Internet Application development technologies. Investigates RIA development and delivery technologies such as Flash, Flex, and ActionScript, with a special emphasis on the integration of Digital Media into Internet applications. Teaches the design and development workflow for interactive, media-rich applications delivered via networked browser, computer desktops, and mobile devices.

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 Graphics Applications
3:3:8 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.
Course Descriptions

DGM 4000
Writing for Digital Media
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
- 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 1110 and DGM 312G
- For senior Digital Media students. Provides a capstone experience working in digital media. Develops individual real world projects in consultation with a faculty advisor. Encourages team work.

DGM 4330
Corporate Issues in Digital Media
3:3:0
F
- Prerequisite(s): DGM 2220
- 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
- Conclusion of DGM 4310. Concludes the capstone experience for digital media students. Addresses post production issues such as testing, packaging, and documentation. Offers the opportunity to present projects to students, faculty, sponsors, and potential employers or clients.

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 3390 and DGM 4610. Generates story boards 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 4:0:5 to 20
- Prerequisite(s): Departmental Approval
- For Multimedia Communication Technology students to receive actual on-the-job work experience. Provides a transition from school-to-work where learned theory is applied to actual practice through a meaningful on-the-job paid experience. Includes student, employer and coordinator evaluations, on-site work visits, written assignments, and oral presentations. Completers should obtain experience in establishing and accomplishing individualized work objectives that improve work performance. May be repeated for a maximum of 8 credits toward graduation.

DGM 496R
Information Management Seminar
1 to 3:1 to 3:0 to 9
- Prerequisite(s): Departmental 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
- 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.
Course Descriptions

DMT—Diesel Mechanics Technology

DMT 1010 Diesel Apprentice Electrical 1A
5:5:0 On Sufficient Demand
Studys 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
3:5:3:5:0 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
3.5:3.5:0 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 HUE1 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 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 adjustments, and preparing to run an engine under load in a dynamometer test cell. Emphasis on basic engine operating factors, and troubleshooting complaints such as low power, smoke conditions, engine faults, etc.

DMT 112L Diesel Engine Operation/Tune-up Lab
2:0:6
Continues the 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 power transmission safety, OSHA guidelines, gearing and gear boxes.

DMT 1430 Industrial Maintenance 2B
5:5:0 On Sufficient Demand
Prerequisite(s): Departmental written approval
A hydraulics course for Industrial Maintenance apprentices. Teaches hydraulics principles and power, fluids and conductors, cylinders, reservoirs, basic industrial systems. Covers hydraulic safety and OSHA guidelines, troubleshooting and repair of hydraulic valves.

DMT 1440 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 hydrostatic drives, basic pneumatics, circuits and components, and pressure vessel code. Covers troubleshooting of compressors, aftercoolers, dryers, oilers, valves, filters, separators, pneumatic or nitrogen operated system controls, machinery.
lube systems and steam systems.

DMT 1510
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 151L Recommended
Studies theory of operation, troubleshooting and adjustment of heavy duty mobile electrical systems. Uses state-of-the-art testing equipment. Includes safety and environmental awareness. Offered on the block.

DMT 151L
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 1520
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 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 152L
Engine Electronics and Diagnostics 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 1520

DMT 2230
(Also listed with: AUT 2240)
Heating Ventilation Air Conditioning and Refrigeration Theory
2:0:0
- 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. Stress 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 troubleshooting 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 0:0:5 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. Students register for this class with approval of the Cooperative Coordinator. Includes lecture, guest speakers, video tapes, role playing, case analysis, oral presentations, and written assignments. Completers should be better able to perform in their field of work or study.

DMT 291R
Special Projects
1 to 5:0:3 to 15 F, Sp
- Prerequisite(s): Advisor and Instructor Approval
For students majoring in diesel technology. Involves special projects. Allows independent projects that are designed to enhance beginning or advanced abilities. Repeatable for as many times as desired.
Course Descriptions

DMT 298R
Technical Workshop
1 to 4:0 to 4:0 to 12
F, Sp
For Diesel Technology students and other interested community members. Taught to a specific topic, product, component, or vehicle related to the diesel service industry. Its purpose is to update technician training by addressing changes in products or equipment. Topics will vary. May be presented by an OEM, a dealer representative, or faculty member. Repeatable.

DMT 299R
VICA
1:0
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—Electrical Automation and Robotics Technology

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 speed drives.

EART 1050
Applied Electrical Math
5:5:0
- 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
- Prerequisite(s): EART 1050 or departmental written approval
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
- Prerequisite(s): EART 1110 or departmental written approval
For electrical apprentices. Teaches measuring instruments, magnetism, circuits, devices, National Electrical Code, blueprint reading, DC motors, low voltage circuits, DC motor control, DC generators, 3 and 4 way switches, and conduit bending.

EART 1130
Basic Electrical
4:4:0
- Corequisite(s): EART 1050 and EART 1180
Covers basic DC and AC theory involving voltage, current, resistance, batteries, magnetism, reactance, power and the use of digital meters. Includes the study of series, parallel, and complex circuits, and troubleshooting techniques. Studies both DC/AC motors and AC transformers. Explains the Reaction Theory of inductance, capacitance, and resistance dealing with L.C.R. circuits.

EART 1180
Basic Electrical Lab
5:0:15
- 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, Ohm’s Law, series/parallel circuits, combination circuits, capacitors, inductors, resistors, and L.C.R. circuits. Includes safety procedure, basic electrical tools, and electrical symbols.

EART 1210
Electrical Apprentice 2A
5:5:0
- 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
- Prerequisite(s): EART 1120 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
- 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
- Prerequisite(s): EART 1130, EART 1050, and EART 1180; or departmental approval
For students who desire a basic understanding of Digital Logic systems. Covers the basic logic levels, the 1’s and 2’s complement. Studies binary, decimal, octal, and hexadecimal numbers. Includes problems using Boolean Algebra, and DeMorgan’s theorems. Teaches how to minimize combinational gates and troubleshoot logic circuits. Includes lecture, demonstrations, and lab work emphasizing hands-on lab experiments using logic gate circuits.

EART 1280
DC and AC Machines
5:5:0
- Prerequisite(s): EART 1130, EART 1180, or departmental approval
- Corequisite(s): EART 1285
Covers installation, controls, troubleshooting, preventive maintenance, and repairs on DC/AC motors, generators, and control systems. Introduces the students to ladder logic, controls, sensors, overloads, and electronic devices used to control DC/AC Machines. Supports hands-on labs and projects in EART 1285.

EART 1285
DC and AC Machines Lab
4:0:12
- Prerequisite(s): EART 1130, EART 1050, EART 1180
- Corequisite(s): EART 1280
Trains students in the proper use of tools and test equipment needed to maintain motors and their controllers. Emphasizes the use of schematics, line diagrams, ladder logic, pictorial diagrams to wire, design, and repair electrical systems, and DC/AC Machines. Covers how DC, AC, single phase, and three phase motors work and the workings of single phase and three phase transformers used in wye and delta configurations.
Course Descriptions

EART 1300 Electrical Union Apprentice 1A
5:5:0 Not 10-11
- 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 10-11
- 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 10-11
- 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 10-11
- 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 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 F
- Prerequisite(s): EART 2110 or departmental approval
  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 2160 F
- Prerequisite(s): EART 2110, EART 2150, and EART 2160; or departmental approval
  Covers the theory, programming and industrial control system applications of small and medium sized programmable logic controllers (PLCs). Studies basic maintenance and troubleshooting techniques for programmable logic controllers. Includes lecture, demonstration, print reading, and lab projects with hands-on experience. Completers should be able to work in industry in related work at entry-level positions with safety and environmental awareness.

EART 2160 Sp
- 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 in related work at entry-level positions with safety and environmental awareness.

EART 2250 Programmable Logic Controllers 1
5:3:6 Sp
- Prerequisite(s): EART 2110, EART 2150, and EART 2160; or departmental approval
  Covers the 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 2260 Advanced Logic
3:2:3 Sp
- 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 in related work at entry-level positions with safety and environmental awareness.

EART 2270 Programmable Logic Controllers 2
6:4:6 Sp
- 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 F
- Prerequisite(s): Departmental written approval
  For electrical apprentices. Teaches installation, 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 Sp
- 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 Not 10-11
- 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, unijunction transistor, amplifiers, field effect transistors, ICS and OP AMPS, IC timers, electronic applications, and industrial prints. Reviews DC/AC theory.

EART 2340 Electrical Union Apprentice 3B
5:5:0 Not 10-11
- 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 Not 10-11
- 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 2360 Electrical Union Apprentice 4B
5:5:0 Not 10-11
- Prerequisite(s): Departmental Written Approval
  For electrical union apprentices. Teaches characteristics of logic circuits, AND logic, OR logic, amplifiers, NAND and NOR logic, XOR and XNOR logic, fiber optic theory and installation, optoelectronic devices. Covers motor speed control, series resonance, parallel resonance, filters, power factor, power quality, power harmonics, cable trays, motor branch circuits. Introduces Boolean algebra, hazardous locations, methods and equipment.

EART 2370 Electrical Union Apprentice 5A
5:5:0 Not 10-11
- Prerequisite(s): Departmental Written Approval
  Designed for fifth year electrical union apprentices. Teaches installation, troubleshooting, and repair of electronic control circuits. Introduces basic theory and operation of instrumentation and process control equipment.
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 Not 10-11
- 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 F
- 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 Sp
- 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 blueprint reading.

EART 281R
Cooperative Work Experience
1 to 8:0:5 to 40
- 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.

EART 285R
Cooperative Correlated Class
1:1:0
- 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.

ECON—ECONOMICS

ECON 1010  SS
Economics as a Social Science
3:3:0 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 2020  SS
Macroeconomics
3:3:0 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 2360 Money and Banking 3:3:0 On Sufficient Demand**

Designed for finance and banking majors and as elective credit for other business majors. Studies a banker’s stock-in-trade “money” and how it functions in the US and world economies. Explores money as a medium of exchange, introduces the concept of money supply, and discusses the role of banks as money creators and as participants in the nation’s payment mechanism. Explains the operations of financial institutions, including cross-selling, collections, and lending practices; the working of monetary and fiscal policies and the functions and powers of the Federal Reserve. Methods include lectures, class discussions, and case studies.

**ECON 3020 Intermediate Microeconomics 3:3:0 On Sufficient Demand**
- Prerequisite(s): ECON 2010, ECON 2020, and MGMT 2340

Extends the discussion of economic theory of markets, demand and supply, elasticity, and marginal analysis process to make more effective decisions. Discusses the concepts of production theory and cost analysis in both the short and long run. Describes how to apply economic decision making in a variety of competitive markets including perfect competition, monopoly, monopolistic competition and oligopoly.

**ECON 3040 Environmental Economics 3:3:0**
- 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. Covers public finance, financial management and other related issues. 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 management, 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 those capabilities in real-world applications of the science of econometrics. Examines some of the well-known examples of econometric analysis that formed the foundation of econometrics science. Develops analytical skill by defining data inputs and working through a series of projects of the type students might encounter in future professional experience.

**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 American independence.
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.

ECT 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.

ECT 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, pricing, market structures, and forecasting.

ECT 6330
Econometrics
3:3:0
- Prerequisite(s): Acceptance in the MBA program
Provides graduate level introduction to applied regression tools, including simple and multiple 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 1000
Survey of Electronics
2:2:0 F, Sp
An overview course for those unfamiliar with the field of electronics. Covers basic electrical theory, electronic devices, applications, and history. Emphasizes recent trends in the electronic industry and effects on everyday life. Includes lecture, demonstration, video presentation, and field trip.

ECT 1010
Basic Electronic Math
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.

ECT 1020
Basic Electronic Math
2:2:0 On Sufficient Demand
- Prerequisite(s): High School Algebra II
- Corequisite(s): ECT 1010
Provides a basic mathematical base for solving problems associated with Basic Electronics: DC/AC. Provides mathematical applications to the physical world, teaches students to work in teams, learn to estimate answers, use computer algebra systems, and graphic calculators. Presents new ideas graphically, numerically, and analytically. Applies deductive reasoning to problem solving and troubleshooting.

ECT 1030
Electronics Safety
1:1:0 On Sufficient Demand
Teaches safety to those desiring to work with electricity and electronic equipment. Covers topics relating to safety on the job in a high technology, electronics environment. Studies ESD, ergonomics, FCC radiation rules, and hazardous materials disposal. Includes lecture, demonstration, and hands-on activities. Completers should be able to work safely around a variety of electrical and electronics equipment and know what to do in case of an emergency.

ECT 1050
Mathematics for Electronics
5:5:0 F
- Prerequisite(s): High School Algebra II, or MAT 0990 or MAT 0950
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 1060
Electrical Science I
2:2:0 Su, F, Sp
Foundation course in Electronic and Computer Technology. Covers typical topics in DC circuit theory beginning with electrical quantities and measurements then progressing through electromagnetism and inductance. Course available via the internet.

ECT 106L
Electrical Science I Laboratory
0.5:0:1.5 Su,F,Sp
Foundation course in Electronic and Computer Technology. Designed for those who need a short intense laboratory course in electronics. May be used by those who need to validate their proficiencies in electronics which may have been developed during independent study or in nontraditional course work such as the internet. Focus is on DC principles and circuits.

ECT 1070
Electrical Science II
2:2:0 Su, F, Sp
- Prerequisite(s): ECT 1060 or equivalent
Foundation course in Electronic and Computer Technology. Covers typical topics in AC circuit theory beginning with sinusoidal alternating current waveforms and progressing through passive filters and pulse waveform response. Course available via the internet.

ECT 107L
Electrical Science II Laboratory
0.5:0:1.5 Su, F, Sp
- Prerequisite(s): ECT 1070, ECT 1060 or equivalent
Foundation course in Electronic and Computer Technology. Designed for those who need a short intense laboratory course in electronics. May be used by those who need to validate their proficiencies in electronics which may have been developed during independent study or in nontraditional course work such as the internet. Subject focus is on AC principles and circuits.

ECT 1100
Electronics Fundamentals
4:3:3 On Sufficient Demand
An introductory and foundation course in electronics for non-majors. Covers fundamental electronic circuit concepts. Studies basic electrical physics, DC/AC sources, resistance, capacitance, inductance, transistors, circuit configurations, basic laws and network theorems, the sine wave, reactance, impedance, resonance, frequency response, semiconductor and IC basics. Includes lecture, lab, demonstration, video presentations, and computer simulation.

ECT 1110
Active Devices and Circuits
5:5:0 Sp
- 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
2:0:8 Sp
- Prerequisite(s): ECT 101L
- Corequisite(s): ECT 1110
Provides laboratory experience for ECT 1110 students. Studies the design, analysis and building of circuits using semiconductor devices. Emphasizes applying theory to practical situations in design and construction of basic diode circuits, transistor biasing and amplifier circuits, and other related circuits. Includes hands-on experience with common test equipment, demonstration, and observation.

ECT 1150
Digital Devices and Circuits
3:3:0 F
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,
Course Descriptions

ECT 1160 Digital Devices and Circuits Laboratory 2:0:6 F
- 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 F
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 Sp
- 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 Sp
- 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 1220 Analog Circuits Laboratory 3:0:9 On Sufficient Demand
- Prerequisite(s): ECT 1110, ECT 1120
- Corequisite(s): ECT 1210
Designed to provide the laboratory experience to complement ECT 1210. Enrollment should be concurrent. Studies designing, building, and performing measurements with a variety of electronic application circuits. Covers the building and testing of circuits utilizing semiconductor devices and linear integrated circuits. Emphasizes getting agreement between analytical and experimental results as the theory learned in ECT 1210 is applied in the lab. Includes hands-on experience with common test equipment, demonstration, and observation.

ECT 1250 Introduction to Calculus for Electronics 5:5:0 Sp
- 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 1270 Assembly Language for Electronics 2:1:3 F
A core class for Electronic and Computer Technology majors. Includes practical applications of assembly language in real world situations. Studies programming in assembly language to the extent of exercising hardware and performing common routines. Covers debuggers, microprocessor architecture, assembly language procedures, memory segments, I/O, modular design, firmware, and OS routines. Emphasizes hands-on experiences with a computer system.

ECT 1300 Interconnection Technology 3:2:3 On Sufficient Demand
- Prerequisite(s): ECT 1000 or ECT 1100 or ECT 1110
Studies wiring, cabling, and connectors, transmission lines, hardware interconnect standards, fiber optics connections, sensors, and transducers, network connections, telephone and modem connections, Internet connections, etc. Includes lecture, lab, demonstration, video presentation, and computer simulation.

ECT 1430 Customer Communications 1:1:0 On Sufficient Demand
For students studying Computer Systems Maintenance. Includes customer relations, business communications, telephone etiquette, and documentation. Covers cost of repairs and service. Includes how to explain to customers costs associated with their bills.

ECT 1570 Programming Tools for Repair 3:1:6 On Sufficient Demand
- Corequisite(s): ECT 1270
For the Computer Systems Maintenance Certificate. Presents fundamentals in batch file programming, HTML, and Java programming. Studies debugging and fault isolation techniques using software including assembly language. Covers system diagnostic software and virus protection utilities.

ECT 1610 Foundations of Nanoscale Materials Chemistry 3:3:0 On Sufficient Demand
Surveys the field of nanoscale materials chemistry with emphasis on properties of matter and the techniques by which matter can be altered to create materials required for the future. Introduces processes, materials and equipment used in integrated circuit and micro mechanical manufacturing. Focuses on ceramics, solids, polymers and composite materials. Considers processes such as thermal oxidation, lithography, thin film deposition, metrology and packaging.

ECT 1620 Introduction to Integrated Circuit Layout 3:3:0 On Sufficient Demand
- Corequisite(s): ECT 1610
Integrates electronic design schematics with silicon semiconductor process constraints. Addresses design rules and constraints imposed by MOS manufacturing processes.

ECT 1650 Network Maintenance 4:3:3 On Sufficient Demand
For the Computer Systems Maintenance Certificate. Presents fundamentals of networks and networking. Studies LAN, WAN, peer to peer, Internet, and intranet configurations. Emphasizes installation, maintenance, and troubleshooting. Studies cabling and connectors, transmission lines, hardware interconnect standards, network connections, telephone and modern connections, and Internet connections.

ECT 1710 Computer Maintenance 3:2:3 F, Sp
For students studying Computer Systems Maintenance. Presents concepts of computer architecture. Teaches troubleshooting techniques and BUS conflict resolution. Studies component failure, floppy disk drives, keyboards, video graphics hardware, and power supplies. Additional topics may be included according to current technology. Includes hardware troubleshooting to board level.

ECT 1720 System Configurations 3:2:3 On Sufficient Demand
For the Computer Systems Maintenance Certificate. Presents installation and configuration of the major systems. Studies basic operating systems requirements, plug and play, configuration of peripherals, resolution of I/O, IRQ, and DMA channel conflicts.

ECT 2110 DC/AC Circuits 5:5:0 On Sufficient Demand
- Prerequisite(s): High School Algebra II
- Corequisite(s): ECT 1050 or MATH 1060
Covers fundamental DC/AC concepts. Studies basic electrical physics, DC/AC sources, resistance, capacitance, inductance, transducers, circuit configurations, basic laws and network theorems, the sine wave, reactance, impedance, resonance, and frequency response. Includes lecture, demonstration, computer simulation, and video presentation.

ECT 2210 Active Devices and Circuits for Engineering 5:4:3 On Sufficient Demand
- Prerequisite(s): ECT 2110 and MATH 1060 or equivalent
For students with DC/AC background. Covers semiconductor theory beginning with the pn junction diode. Presents 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,
Course Descriptions

demonstrations, and computer simulation.

ECT 2310 Microprocessor and Computer Systems
4:4:0 F
• 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 F
• 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 2350 Calculus for Electronics
3:3:0 F
• Prerequisite(s): ECT 1250 or MATH 1210 or higher
Designed as a continuation of ECT 1250. Includes differential calculus and integral calculus concepts, Fourier series, and introduction to differential equations. Applications are made to electronics.

ECT 2380 Electro-Mechanics for Electronics
2:2:0 F
• 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 2400 Communications for Multimedia
3:3:0 On Sufficient Demand
• Prerequisite(s): ECT 1100, ECT 1300
For non-electronics majors. Provides training in theory relating to electronic communications systems. Emphasizes TV, video equipment, radio communications, digital transmission, multiplexing, stereo systems, transmission lines, antennas, microwave, radar, other communications systems and up-to-date circuits and devices as they are related to these systems and to the operation and automatic controls of remote communication systems. Includes lecture demonstration and computer simulation. Completers should be able to work with a variety of communications equipment.

ECT 2410 Communications Systems
4:4:0 Sp
• Prerequisite(s): ECT 2350
• Corequisite(s): ECT 1210
Designed for Electronic and Computer Technology majors in their last semester. Provides training in theory and circuit analysis relating to electronic communications systems. Studies TV broadcast receivers and transmitters, video equipment, radio communications, digital transmission, multiplexing, stereo systems, transmission lines, antennas, microwave, radar, other communication systems, up-to-date circuits and devices as they are related to these systems, and the operation and automatic control of remote communication systems. Includes lecture, demonstration, and computer simulation. Completers should be able to work with a variety of communications equipment.

ECT 2420 Communications Systems Laboratory
4:0:12 Sp
• Prerequisite(s): ECT 2350
• Corequisite(s): ECT 2410 and ECT 1210
Designed as a laboratory course associated with ECT 2410. Includes testing and evaluating the operation of subsystems of more advanced electronic systems. Provides laboratory experience with communication circuits, sophisticated specialized test equipment and modern measurement techniques. Includes hands-on experience with common test equipment, demonstration, and observation. Completers should have working experience with communications circuits and equipment.

ECT 2460 Graduation Seminar
2:2:0 Sp
• Prerequisite(s): ECT 2310, ECT 2320 (Normally taken during the last semester of program)
Designed as a training course for professional development and a general review of fundamental principles of electronics. Professional development includes job interview, skill development, resume writing, and job search techniques. A special project, chosen in consultation with the instructor, will be completed and demonstrated by each student. Completers should be ready for job interviews.

ECT 251R Special Topics in Electronics
1 to 5:0 to 5:0 to 15 F, Sp
• Prerequisite(s): Consent of instructor
Designed for students interested in specific topics in electronics. Can be used as an elective. Will vary in its content to include relevant and changing topics in the electronics 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.

ECT 257R Special Topics in Computer Technology
1 to 5:0 to 5:0 to 15 Sp
• 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.

ECT 2610 Semiconductor Device Physics
2:2:0 On Sufficient Demand
• Prerequisite(s): ECT 1610 or equivalent, ECT 1620, ECT 2640
An introductory course, primarily for students in electronic technologies, which treats the physics of semiconductor materials and devices. Components of the course covers subjects on fundamental solid state and semiconductor physics which are essential for device applications. Additionally, covers basic device physics and structure, operation principles, general characteristics, and applications of various semiconductor devices.

ECT 2620 Digital Integrated Circuit Layout
3:3:0 On Sufficient Demand
• Prerequisite(s): ECT 1620 or equivalent

ECT 2630 Analog Integrated Circuit Layout
3:3:0 On Sufficient Demand
• Prerequisite(s): ECT 1620 or equivalent; ECT 2620 or equivalent
An advanced course into the practice of Analog Integrated Circuit Layout and design. Integrates electronic engineering design schematics with silicon semiconductor process constraints. Addresses critical process design rules and constraints imposed by representative analog circuit manufacturing processes.

ECT 2640 Full Chip Layout
3:3:0 On Sufficient Demand
• Prerequisite(s): ECT 2630 or equivalent
An advanced course into the practice of integrating both Analog and Digital Circuit layout and design. Focus is toward mixed signals as they are integrated into entire chip. Integrates electronic engineering design schematics with silicon semiconductor process constraints. Addresses critical process design rules and constraints imposed by representative manufacturing processes.

ECT 2650 Integrated Circuit Systems Layout
3:3:0 On Sufficient Demand
• Prerequisite(s): ECT 2630 or equivalent
An advanced course into the techniques associated with full systems layout and design which may include micro electro-mechanical systems. This course integrates electronic engineering design schematics with electromechanical systems as well as silicon semiconductor process constraints. Addresses critical process design rules and constraints imposed by the overall organization on silicon in systems manufacturing.
### ECT 2670 Microfabrication Chemistry
3:0 On Sufficient Demand
- Prerequisite(s): ECT 1610 or equivalent, ECT 1620, ECT 2640

An advanced course into chemical processes used in the design and implementation of material properties derived from nanoscale structure. Included will be how processing can change structure and therefore properties and use of the material. Course will address how materials selection can be used to optimize performance. Systems will be developed which will incorporate and integrate microelectronic and micromachining.

### ECT 2680 Silicon Processes
3:0 On Sufficient Demand
- Prerequisite(s): Instructor Approval

This course is designed for students who are interested in nanoscale manufacturing processes. The focus will be on the chemistry of silicon, not only as a substrate but also as a reactive dielectric.

### ECT 2690 Thin Film Processes
3:0 On Sufficient Demand
- Prerequisite(s): Instructor Approval

An advanced course designed for students who are interested in nanoscale manufacturing processes. The focus will be on the chemistry of Thin Film deposition process not only as a technique but also as a mechanism by which unique materials may be developed.

### ECT 2710 Computer Maintenance II
5:4 On Sufficient Demand
- Prerequisite(s): ECT 1710
- Corequisite(s): ECT 281R

For the Computer Systems Maintenance Certificate. Presents advanced concepts of computer architecture and operating systems integration. Studies advanced trouble-shooting techniques, BUS conflict resolution, and component failure. Includes hardware troubleshooting at the component level. Preparation for the A+ certification exam.

### ECT 2730 Multimedia Communications Laboratory
1:0 On Sufficient Demand

A capstone laboratory course for MCT. Includes hands-on installation and troubleshooting experiences with computer and other multimedia equipment. Completers should be familiar with current equipment and techniques used to maintain multimedia equipment.

### ECT 2740 Introduction to Microlithography
3:0 On Sufficient Demand
- Prerequisite(s): Instructor Approval

This course is designed for students who are interested in nanoscale manufacturing processes. The focus will be on the challenges associated with lithographic processes.

### ECT 281R Cooperative Work Experience
1 to 8:0:0 to 40
- Corequisite(s): ECT 280R

Provides paid, on-the-job work experience in electronics and computer technology. Work experience and course enrollment are coordinated by the Cooperative Coordinator. Includes student, employer, and coordination evaluations, on-site work visits, written assignments, and oral presentations. Gives experience in writing and completing individualized work objectives that improve present work performance.

### ECT 285R Cooperative Correlated Class
1:0
- Corequisite(s): ECT 281R

Designed to identify on-the-job problems and to remedy those problems through in-class discussion and study. Studies identifying and maximizing service opportunities. Students register for this class with approval of the Cooperative Coordinator. Cooperative credits may be used as technical electives or in place of some of the laboratory classes if approved in advance by the department chairperson. 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.

### ECT 299R VICA
1:1:0

For Electronics and Computer 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 responsibility, vocational and leadership skills through participation in educational, vocational, civic, recreational, and social activities. Students may participate in local, state, and national contests.

### ECT 3150 Digital Devices/Circuits and Introduction to Microprocessors
4:3 On Sufficient Demand
- Prerequisite(s): ECT 2110

For engineering majors. 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 introduction to microprocessors.

### ECT 4310 Microprocessor and Computer Systems with Analog/Digital Interface
4:4 On Sufficient Demand
- Prerequisite(s): ECT 3150

For engineering majors. Studies programming in assembly language, building computer interfaces, and operating digitized test equipment. Includes microprocessor hardware organization, microprocessor machine instructions, input-output peripheral equipment, memory elements, control elements, data transmittal systems, interfacing, digitized test equipment, diagnostic programming, computer control of processes, and interfacing with analog and digital systems.

### EDEC—Early Childhood Education

#### EDEC 1640 Childrens Music and Movement
2:2:0
- Prerequisite(s): ECT 1100

For Early Childhood majors and those interested in teaching music to children in early childhood education settings. Covers children 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): ECT 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
3:2.5:1.5
- 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
2:1.5:1.5
- Prerequisite(s): ECT 1100

For 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
- Prerequisite(s): PSY 1100

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
- Prerequisite(s): EDEC 2600

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 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
3:3:0 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 1010
Introduction to Education
2:1:5:1 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. Examine selected books, picture books, easy reading and intermediate novels. Studies illustrators and their styles. Includes lecture, demonstration, guest lecturers, and audiovisuals. Completors 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.

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  
- Prerequisite(s): EDEL 4200  
- Corequisite(s): Admission to Professional Education Program or permission of department chair.

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  
- 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  
- 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  
- Prerequisite(s): Admission to Professional Education Program or permission of department chair.

Presents practical and theoretical foundations for fostering reading competence in children, kindergarten through grade 3. Includes classroom instruction and field experience with children.

EDEL 4410  
*Literacy Methods II*
  
3:3:0  
- 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  
- 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  
- Prerequisite(s): Admission to Professional Education Program or permission of department chair.

For Elementary Education students. Presents methods for teaching 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*
  
3:3:0  
- 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  
- 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  
- Prerequisite(s): Admission to Professional Education Program or permission of department chair.

For Elementary Education students. Presents methods of teaching social studies concepts to children. Includes classroom instruction and field experience teaching children.

EDEL 4540  
*Elementary Creative Arts Methods*
  
2:2:0  
- 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 4620  
*Differentiation for Special Populations*
  
3:3:0  
- 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  
- Prerequisite(s): Admission to Professional Education Program or permission of department chair.

For Elementary Education Senior Education students. Reviews the theory and practice of educational leadership skills. Includes classroom instruction and the analysis of skills currently being used in schools.

EDEL 4880  
*Student Teaching--Grades K-3*
  
4 to 8:0:12 to 24  
- Prerequisite(s): Admission to Professional Education Program. Successful completion of all professional education courses.
- Corequisite(s): EDEL 4890

For Elementary Education students. A culminating ten-week teaching experience in an elementary classroom, grades 1-3. Includes application of knowledge, skills, and attitudes derived in previous course work and program experience. Must complete a combined ten-week experience in EDEL 4880 and EDEL 4890.

EDEL 4890  
*Student Teaching--Grades 4-6*
  
4 to 8:0:12 to 24  
- Prerequisite(s): Admission to Professional Education Program. Successful completion of all professional education courses.
- Corequisite(s): EDEL 4890

For Elementary Education students. A culminating ten-week teaching experience in an elementary classroom, grades 4-6. Includes application of knowledge, skills, and attitudes derived in previous course work and program experience. Must complete a combined ten-week experience in EDEL 4880 and EDEL 4890.

EDEL 491R  
*Independent Study*
  
2 to 4:0 to 4:0  
On Sufficient Demand  
- Prerequisite(s): Department Chair Approval
For Bachelor Degree seeking students and other interested persons. Offers independent study as directed at the discretion and approval of the department chairperson. May be repeated for up to three credits toward graduation.

EDEL 4890  
*Elementary Education Capstone Seminar*
  
2:2:0  
- Prerequisite(s): Admission to Professional Education Program. Successful completion of all professional education courses.
- Corequisite(s): EDEL 4880 or EDEL 4890

Integrates previous course work and current student teaching field experiences and student teaching field experiences and document emerging competencies in the student portfolio. Also includes involvement.
### Course Descriptions

**EDSC—Secondary Education**

**EDSC 2010**  
Content Area Tutoring  
2 to 6:1.5 to 25  
F, Sp, Su  
- Prerequisite(s): Instructor Approval  
For those interested in working for tutorial programs on campus. Includes methodology, theory and practice of tutoring and completers will have met the requirements for CRLA tutor certification. Features experience tutoring students who have a variety of learning styles. Prepares teachers to appropriately train and use tutors for all students under their direction.

**EDSC 2540**  
Development of the Adolescent Student  
2:2:0  
F, Sp, Su  
A prerequisite course for Secondary Education students. Examines development of the adolescent in areas of physical, cognitive, psychological, social, and moral development and the relationship of development in these areas with success in school. Explores common problems of adolescence and methods of dealing with these problems in the school setting.

**EDSC 3000**  
Educational Psychology  
3:3:0  
F, Sp, Su  
- Prerequisite(s): Admission to Professional Education Program or permission from department chair.  
Professional level course for secondary education majors. Stresses research-based teaching/learning principles used in classroom settings to enhance learning. Emphasizes the application of theory to practice. Designed to help the students prepare for state teacher licensing requirements.

**EDSC 3050**  
Foundations of American Education  
2:2:0  
F, Sp, Su  
- Prerequisite(s): Admission to Professional Education Program or permission of instructor  
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.

**EDSC 3250**  
Instructional Media  
2:2:0  
F, Sp, Su  
- Prerequisite(s): Admission to Professional Education Program or permission of instructor  
For Secondary Education students. Covers applications of desktop computers and other instructional technologies in classroom settings.

**EDSC 4200**  
Classroom Management I  
2:2:0  
F, Sp  
- Prerequisite(s): Admission to Professional Education Program or permission of instructor  
For Secondary Education students. Teaches effective classroom management procedures (including classroom setup). Develops strategies to build strong student-teacher relationships and classroom management philosophy, rules, and consequences. Teaches strategies for 1st day success as well as strategies to handle behavior problems encountered in the classroom.

**EDSC 4250**  
Classroom Management II  
2:2:0  
F, Sp  
- Prerequisite(s): EDSC 4200, Admission to Professional Education Program or permission of instructor.  
Develops strategies for planning and conducting instruction, dealing with parents, group work, and presents strategies for handling chronic misbehavior and students with behavioral or emotional disorders. Explores practical, appropriate responses, including internal control and behavior modification strategies with an emphasis on self-monitoring.

**EDSC 4440**  
Content Area Reading and Writing  
3:3:0  
F, Sp, Su  
- Prerequisite(s): Admission to the Professional Education Program or permission of instructor.  
For Secondary Education Students. Prepares preservice secondary students to facilitate reading, writing and study skills achievement in the content areas at the middle school and secondary school level; for content area teachers with little or no background in reading and writing development. Includes field experience in public schools.

**EDSC 4450**  
Multicultural Instruction ESL  
2:2:0  
F, Sp, Su  
- Prerequisite(s): Admission to the Professional Education Program or permission of instructor.  
Prepares pre-service secondary students to understand and facilitate achievement in the content areas for ethnically and language diverse students at the middle school and secondary school level. Covers foundations of multicultural education and instructional methodology for adaptation for ESL and ethnically diverse students.

**EDSC 4500**  
Secondary Teaching Methods  
3:3:0  
F, Sp  
- Prerequisite(s): Acceptance to Professional Secondary Education, EDSC 3000, and EDSC 4550  
For students majoring in Secondary Education. Examines teaching methodology as related to teaching and learning. Teaches strategies to prepare teacher candidates for secondary education licensure in relation to a student’s major. Utilizes group projects, classroom exercises and teaching projects. Evaluated by participation, teacher evaluation, exams, portfolio, reflective journal and final teaching project.

**EDSC 4550**  
Secondary Curriculum Instruction and Assessment  
4:3:3  
F, Sp, Su  
- Prerequisite(s): Admission to Professional Education Program or permission of instructor.  
For Secondary Education students. Examines state standards; and prepares preservice secondary students to write objectives, lesson plans, and units using appropriate models of instruction and assessment. Includes a field experience component.

**EDSC 4550**  
Student Teaching—Secondary  
4 to 8:0:12 to 24  
F, Sp  
- Prerequisite(s): Admission to Professional Education Program. Successful completion of all professional education and content courses.  
Culminating ten-week teaching experience in a secondary classroom, grades 7-12. Includes application of knowledge, skills, and attitudes derived in previous course work and program experience. It is the culminating requirement for students to be recommended for a secondary education license from the Utah State Office of Education.

**EDSC 491R**  
Independent Study  
2 to 4:0 to 4:0 to 12  
On Sufficient Demand  
- Prerequisite(s): Department Chair Approval  
For Bachelor Degree seeking students and other interested persons. Offers independent study as directed at the discretion and approval of the department chairperson. May be repeated for up to four credits toward graduation.

**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  
Sp  
- 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 6200
Masters Project
3:3:0  F, Su
• 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 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  Sp, 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  F
• Prerequisite(s): Admission to Graduate Status Admission to the School of Education Masters Degree Program Or permission of the Dean
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  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 the role of the teacher in the classroom and community with the intention of developing insight and understanding of how the teacher’s role in these areas impacts the adjustment of adolescents during grades 7-12. Considers models and methods for facilitating positive relationships. Studies the techniques of family-school collaboration as well as constructive methods of evaluation. Practicum required.

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
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  Su
• 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 /mullilingual curricula with a special focus on culturally/ linguistically-responsive instruction and assessment techniques.

EDUC 6370
Assessment in English as a Second Language Learners
3:2:3  Su
• 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  Sp, Su
• Prerequisite(s): Admission to Graduate Status Admission to the School of Education Masters Degree Program Or permission of the Dean or the instructor
Examines the role of the teacher in the classroom and community with the intention of developing insight and understanding of how the teacher’s role in these areas impacts the adjustment of adolescents during grades 7-12. Considers models and methods for facilitating positive relationships. Studies the techniques of family-school collaboration as well as constructive methods of evaluation. Practicum required.

EDUC 6390
Family and Community Involvement
3:2:3  Su
• Prerequisite(s): Admission to Graduate Status Admission to the School of Education Masters Degree Program Or permission of the Dean or the instructor
Examines the role of the teacher in the classroom and community with the intention of developing insight and understanding of how the teacher’s role in these areas impacts the adjustment of adolescents during grades 7-12. Considers models and methods for facilitating positive relationships. Studies the techniques of family-school collaboration as well as constructive methods of evaluation. Practicum required.

EDUC 6400
Transformational Leadership
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 students to critical concepts about transformational leadership. Provides awareness of how leadership skills and task importance motivates people; focuses on the team or organization strategies that produce increased productivity and better work for colleagues and students. Introduces knowledge about and the application of learning and cognition theories, motivation theories, leadership for diverse learners, and better practices in literacy and numeracy.

EDUC 6410
Contemporary Issues
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 students to critical concepts about transformational leadership. Provides awareness of how leadership skills and task importance motivates people; focuses on the team or organization strategies that produce increased productivity and better work for colleagues and students. Introduces knowledge about and the application of learning and cognition theories, motivation theories, leadership for diverse learners, and better practices in literacy and numeracy.
practice in classrooms and schools. Provides a study of the philosophical foundations of curriculum and instruction in American schools, the social and cultural conditions that influence education, and new concepts in education curriculum materials and methods of instruction.

EDUC 6910
Project I
1:0:3 F, Su
- Prerequisite(s): Admission to Graduate Status
- Admission to the School of Education Masters Degree Program or permission of the Dean and completion of EDUC 6200
Provides instruction regarding writing a formal classroom-based research project proposal to present to the School of Education Graduate Board. Obtain human subject clearance. Course will be graded credit/no credit.

EDUC 6920
Project II
1:0:3 Sp
- Prerequisite(s): Admission to Graduate Status
- Admission to the School of Education Masters Degree Program or permission of the Dean and completion of EDUC 6910
Provides support regarding Implementation of the classroom-based applied research project. Course will be graded credit/no credit.

EDUC 693R
Project III
1:0:3 Su
- Prerequisite(s): Admission to Graduate Status
- Admission to the School of Education Masters Degree Program or permission of the Dean
Provides support regarding completion of a classroom-based applied research project and acceptance of the classroom-based applied project by the School of Education graduate Board. Course will be graded credit/no credit. Repeatable with department approval.

EDUC 694R
Directed Individual Study
0.5 to 3:0.5 to 3:0 Su
- Prerequisite(s): Admission to Graduate Status
- Admission to the School of Education Masters Degree Program or permission of the Dean
Provides individual instruction for Master of Education students wishing to further their understanding of the field of education. Focuses on individual research regarding instructional methods and/or assessment. May be repeated for a maximum of 6 credits.

EENG—ELECTRICAL ENGINEERING

EENG 1020
Computer Engineering
Problem Solving with Matlab
1:1:0 F, Sp
- Prerequisite(s): MATH 1060 or higher
Introduces the field of Computer Engineering through programming in the Matlab language. 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.

EENG 2210
Fundamentals of Electric Circuit Analysis
3:3:0 On Sufficient Demand
- Prerequisite(s): MATH 1210, PHYS 2210
- Corequisite(s): EENG 2215
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.

EENG 2215
Fundamentals of Electric Circuit Analysis Lab
1:0:3 On Sufficient Demand
- Prerequisite(s): MATH 1210, PHYS 2210
- Corequisite(s): EENG 2210
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.

EENG 2270
Circuit Theory
3:3:0 F, Sp
- Prerequisite(s): MATH 1210, PHYS 2210, EENG 1020
- Corequisite(s): EENG 2275
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.

EENG 2275
Circuit Theory Lab
1:0:2 F, Sp
- Prerequisite(s): MATH 1210, PHYS 2210
- Corequisite(s): EENG 2270
Laboratory for EENG 2270 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.

EENG 2700
Digital Design I
3:3:0 F
- Prerequisite(s): MATH 1050 and (CS 2810 or PHYS 2220 or EENG 2270)
- Corequisite(s): EENG 2705
Introduces the design and application of combinational and sequential logic circuits with discrete and programmable logic devices.

EENG 2705
Digital Design I Lab
1:0:2 F
- Prerequisite(s): MATH 1050 and (CS 2810 or PHYS 2220 or EENG 2270)
- Corequisite(s): EENG 2700
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.

EENG 3720
Interfacing to Microprocessors
3:3:0 On Sufficient Demand
- Prerequisite(s): MATH 1210, EENG 2700
Develops the theory and technology necessary 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 F
- 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): MATH 1220, EENG 2720
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 Sp
- 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 F
- Prerequisite(s): EENG 2700
Introduces 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 On Sufficient Demand
- 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 F
- 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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Terms</th>
</tr>
</thead>
<tbody>
<tr>
<td>EENG 4760</td>
<td>Electronic Systems</td>
<td>3:3</td>
<td>Sp</td>
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<tr>
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<td>- Prerequisite(s): EENG 2270</td>
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<td>- Corequisite(s): EENG 4765</td>
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<tr>
<td></td>
<td>Introduces semiconductor theory and the fundamentals of diode and transistor operation. Covers the use of discrete and integrated active devices in linear amplifier and switching applications.</td>
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<tr>
<td>EENG 4765</td>
<td>Electronics Systems Lab</td>
<td>1:0:2</td>
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<td>- Prerequisite(s): EENG 2270</td>
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<td>- Corequisite(s): EENG 4760</td>
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<td></td>
<td>Designed to accompany EENG 4760. Electronic analog circuit design, simulation, construction, debugging and measurement of circuit performance quantities using advanced instrumentation techniques.</td>
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<tr>
<td>EGDT 4800</td>
<td>Computer Engineering Senior Design Project</td>
<td>3:3</td>
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<td>- Prerequisite(s): EENG 3740</td>
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<td></td>
<td>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.</td>
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<tr>
<td>EGDT 1000</td>
<td>Basic Drafting</td>
<td>2:2:0</td>
<td>Su, F, Sp</td>
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<td>A beginning course for Engineering Graphics and Design Technology students; students in the College of Technology and Computing 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.</td>
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<tr>
<td>EGDT 1010</td>
<td>Electrical-Electronic Drafting</td>
<td>3:3</td>
<td>F, Sp</td>
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<td></td>
<td>- Prerequisite(s): EGDT 1000 or equivalent and EGDT 1040 both with a grade of C- or higher Introduction to several types of electrical-electronic drawings such as Block, Connection, Logic, Schematic, Wiring, and Panel Diagrams. Introduction to basic DC theory, electricity and electrical terms, including Ohm’s law, Watt’s law, Logic Truth Tables, Series and Parallel Circuits, and Printed Circuit Board Design, using lectures, projects, worksheets, labs, and drawing assignments. Prepares students for advancement to EGDT 1020.</td>
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<tr>
<td>EGDT 1020</td>
<td>3D Architectural Modeling</td>
<td>3:3</td>
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<td>For Engineering Graphics and Design Technology and Construction Management majors. Utilizes a Building Information Modeling system (BIM) to design 3D architectural models. Covers model design theory, parametric modeling methods, generation of residential and commercial construction plans and details, building components and systems, and manipulation of model information.</td>
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<tr>
<td>EGDT 1040</td>
<td>Computer Aided Drafting--AutoCAD</td>
<td>3:3</td>
<td>Su, F, Sp</td>
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<td>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.</td>
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</tr>
<tr>
<td>EGDT 1060</td>
<td>MicroStation</td>
<td>2:2:0</td>
<td>F, Sp</td>
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<td></td>
<td>- Pre-or Corequisite(s): EGDT 1000</td>
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<tr>
<td></td>
<td>Teaches the drafting MicroStation software system in Windows. Drawings are produced, plotted, printed, checked, and corrected on the CAD system.</td>
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<tr>
<td>EGDT 1070</td>
<td>3 Dimensional Computer Modeling</td>
<td>3:3</td>
<td>F, Sp</td>
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<tr>
<td></td>
<td>- 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 with 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.</td>
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<tr>
<td>EGDT 1080</td>
<td>AutoLisp</td>
<td>2:2:0</td>
<td>F, Sp</td>
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<td></td>
<td>- Prerequisite(s): EGDT 1040 with a grade of C- or higher 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 drawing tasks.</td>
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</tr>
<tr>
<td>EGDT 1090</td>
<td>Introduction to Architecture Drafting</td>
<td>3:3</td>
<td>F, Sp</td>
</tr>
<tr>
<td></td>
<td>- Prerequisite(s): EGDT 1040</td>
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<tr>
<td></td>
<td>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.</td>
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</tr>
<tr>
<td>EGDT 1100</td>
<td>Architectural Drafting</td>
<td>3:3</td>
<td>Su, F, Sp</td>
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<tr>
<td></td>
<td>- Prerequisite(s): EGDT 1000 or equivalent and EGDT 1040 both with a grade of C- or higher 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.</td>
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<tr>
<td>EGDT 1200</td>
<td>Mechanical Drafting</td>
<td>3:3</td>
<td>F, Sp</td>
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<td></td>
<td>- Prerequisite(s): EGDT 1000 or equivalent and EGDT 1040 both with a grade of C- or higher For Engineering Graphics and Design Technology, Welding Technology, and intended Mechanical Engineering majors. Requires previous knowledge of linework, lettering, geometric construction, and dimensioning. Teaches engineering sketching and detail drawing from design layouts. Uses Machinery’s Handbook, ANSI Standard and manufacturer’s reference materials involving retaining rings, bearings, oil seals, and other hardware. Emphasizes geometric dimensioning and tolerancing. Includes precision dimensioning, surface finish, materials, screw threads, and machining processes and applications.</td>
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<tr>
<td>EGDT 1300</td>
<td>Structural Drafting</td>
<td>3:3</td>
<td>F, Sp</td>
</tr>
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<td></td>
<td>- 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.</td>
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<tr>
<td>EGDT 1400</td>
<td>Surveying</td>
<td>4:3</td>
<td>Su, F, Sp</td>
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<td>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.</td>
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<tr>
<td>EGDT 1600</td>
<td>Technical Math--Algebra</td>
<td>3:3</td>
<td>F, Sp</td>
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<td></td>
<td>- 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,</td>
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</tbody>
</table>
Course Descriptions

proportion, variation, calculator operations, measurements, formula rearrangement, functions and graphs, and solving right and oblique triangles.

EGDT 1610 Technical Math--Geometry/Trig 3:3:0 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 a grade of C- 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 2020 with a grade of C- or higher
A continuation of Descriptive Geometry (EGDT 2020). Patterns are made of rolled or folded surfaces such as bins, hoppers, duct work, 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--CAD 3:3:0 F
- Prerequisite(s): EGDT 1100 and EGDT 1040 both with a grade of C- or higher
Covers the layout, detailing, dimensioning, and room identification of a previously drawn commercial building 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. Completers should have entry-level skills to work in professional architects’ offices.

EGDT 2200 Advanced Mechanical--CAD 3:3:0 Sp
- Prerequisite(s): EGDT 1200 and EGDT 1070 both with a grade of C- or higher
Employed SolidWorks to produce 3D models. Include sketching, parametric modeling, 3D assemblies, and producing 2D working drawings. Included are sheet metal, structural parts, mass properties, 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. Prepares students 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 F
- 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.
Course Descriptions

ENGL—ENGLISH-BASIC COMPOSITION

ENGL 0980
Basic Writing I
5:5:0 Su, F, Sp
- Prerequisite(s): Appropriate placement score
- Requires students to create portfolios to display their essays and to model the stages of writing.
- Teaches students to distinguish formal from informal writing. Emphasizes writing as a reflection of their reading and speaking abilities. Fosters a community of writers by practicing literate activities in the classroom and online.

ENGL 0990
Basic Writing II
5:5:0 Su, F, Sp
- Prerequisite(s): ENGL 0980 or Appropriate placement scores
- Requires students to create portfolios that include informative, persuasive, and multiple-source essays. Helps students to understand peer review and collaborative learning processes both in the classroom and online. Prepares students for ENGL 1010 and other writing intensive courses by asking them to write for various academic audiences.

ENGL 1010**
Introduction to Writing
3:3:0 Su, F, Sp
- Prerequisite(s): Appropriate placement scores or ENGL 0990 with a grade of C- or higher
- Teaches rhetorical knowledge and skills, focusing on critical reading, writing, and thinking. Introduces writing for specific academic audiences and situations. Emphasizes writing as a process through multiple drafts and revisions. In addition to major essay assignments, may include in-class writing and collaboration, research writing, journals, and portfolios.

ENGL 101H
Introduction to Writing
3:3:0 F, Sp
- Prerequisite(s): Appropriate placement scores or ENGL 0990 with a grade of C- or higher
- Teaches rhetorical knowledge and skills, focusing on critical reading, writing, and thinking. Introduces writing for specific academic audiences and situations. Emphasizes writing as a process through multiple drafts and revisions. In addition to major essay assignments, may include in-class writing and collaboration, research writing, journals, and portfolios. Smaller class size to facilitate increased student interaction and inquiry.

ENGL 1010**
Intermediate Writing--Humanities/Social Sciences
3:3:0 Su, F, Sp
- Prerequisite(s): ENGL 1010 or ENGL 101H with a grade of C- or better
- 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.

ENGL 201H Intermediate Writing--Humanities/Social Sciences 3:3:0 F, Sp

- Prerequisite(s): ENGL 1010 or ENGL 101H with a grade of C- or better

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.

ENGL 202** Intermediate Writing--Science and Technology 3:3:0 Su, F, Sp

- Prerequisite(s): ENGL 1010 or ENGL 101H with a grade of C- or better

Emphasizes academic inquiry and research in science and technology fields. 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.

ENGL 2050 Editing 3:3:0 F, Sp

- Prerequisite(s): ENGL 1010

Covers the essentials of editing manuscripts for publication. Provides students with the necessary knowledge of punctuation, grammar and usage as well as the symbols and conventions of editing.

ENGL 2120 Fantasy Literature 3:3:0

- Pre- or Corequisite(s): ENGL 1010

Surveys major fantasy authors from the 19th century to the present. Teaches key elements of the genre, including world creation, character, and significant themes. May include a creative writing component.

ENGL 2130 Science Fiction 3:3:0 Sp

- Prerequisite(s): ENGL 1010

- Corequisite(s): ENGL 1010

Presents a chronological survey of major Science Fiction authors from Mary Shelley (1818) to the present. Emphasizes the importance of character, setting, plot, and scientific ideas in analyzing literature. Uses discussion, lectures, videos, and films to help students increase appreciation for the literary genre and its works. Completers will have a better understanding of science fiction, plus enhanced writing skills.

ENGL 2150 Critical Introduction to Cinema Studies 3:2:3 Sp

- Prerequisite(s): ENGL 2010 or ENGL 2020

Studies film as an aesthetic and cultural medium. Teaches the fundamentals of film, including narrative form, mise en scene, cinematography, editing, sound, and non-narrative forms. Teaches film analysis, including ideological approaches, and considers film as a cultural institution. Includes discussion, lecture, film screenings, papers, and tests.

ENGL 217G Race and Gender in U.S. Cinema 3:2:2 F

- 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.

ENGL 2200 Introduction to Literature 3:3:0 Su, F, Sp

- Prerequisite(s): ENGL 1010

- Corequisite(s): ENGL 1010

Introduces literary appreciation. Teaches criticism and terminology as applied to various types of literature, including fiction, poetry, and drama. Uses discussion, lecture, films, videos, and tests.

ENGL 2210 Introduction to Folklore 3:3:0 F

- Prerequisite(s): ENGL 1010

- Corequisite(s): ENGL 1010

Introduces the study of folklore. Presents the dynamics of the traditional expressions of a variety of folk groups. Emphasizes folklore performance and its cultural context. Provides practical experience in folklore collection.

ENGL 223** Myths and Legends in Literature 3:3:0

- Prerequisite(s): ENGL 1010

- Corequisite(s): ENGL 1010

Introduces students to myths and legends that are the foundation of literature. Uses discussion, storytelling, videos, journals, and portfolios.

ENGL 223H Myths and Legends in Literature 3:3:0 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 225H Creative Process and Imaginative Writing 3:3:0 F, Sp

Studies different literary genres -- fiction, poetry, drama, personal essay, poetry, or combinations of these. Uses readings, workshops, guest speakers, and student written work to enhance the techniques and aesthetics of creative writing. Note: This course does not replace any of UVU’s Writing Program/Composition courses for the AA/AS degree.

ENGL 227G Creative Process and Imaginative Writing 3:3:0

- Prerequisite(s): ENGL 2310

- Corequisite(s): ENGL 2310

Studies different literary genres -- fiction, poetry, drama, personal, and expository essay through lecture, discussion, and presentation of student’s own work. NOTE: This course does not replace any English composition courses for the AS/A and AAS degrees.

ENGL 2300** Shakespeare 3:3:0 Su, F, Sp

- Prerequisite(s): ENGL 1010

- Corequisite(s): ENGL 1010

For General Education students and English majors. Introduces several Shakespeare plays with particular attention to analysis and critical review of Shakespeare’s works. Teaches comprehension of Shakespeare’s works and their continued cultural stature. Explores aspects of dramatic performance and a selection of Shakespeare’s poetry. May include discussion, lectures, films, papers, examinations, and attending or performing in plays or scenes from plays. Completers should be able to interpret Shakespearean literature and explain the relationship of Shakespeare’s works to the world of today.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Notes</th>
<th>Prerequisite(s)</th>
<th>Corequisite(s)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 230H</td>
<td>Shakespeare</td>
<td>HH</td>
<td>On Sufficient Demand</td>
<td></td>
<td>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.</td>
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<tr>
<td>ENGL 2510</td>
<td>Technical Communication</td>
<td>HH</td>
<td>F, Sp</td>
<td>ENGL 1010</td>
<td>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.</td>
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<tr>
<td>ENGL 2520</td>
<td>American Literature before 1865</td>
<td>HH</td>
<td>Su, F, Sp</td>
<td>ENGL 1010</td>
<td>Surveys American essays, letters, biographies, fiction, and poetry up to 1865. Studies literature as a reaction to American and world events and to the general condition of the American people through discussion, lecture, videos, and writing.</td>
</tr>
<tr>
<td>ENGL 2620</td>
<td>British Literature after 1800</td>
<td>HH</td>
<td>Su, F, Sp</td>
<td>ENGL 1010</td>
<td>Introduces British Romanticism, Victorianism, Modernism, and post-Modernism. Emphasizes important works of the best writers from approximately 1800 to the present. May include discussion, lecture, videos, films, tests, and papers.</td>
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<tr>
<td>ENGL 2730</td>
<td>Introduction to Gender Studies</td>
<td>F, Sp</td>
<td>ENGL 1010</td>
<td></td>
<td>Explores 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 sexual bodies and minds. Analyzes questions of gender through the different frameworks of literature, anthropology, sociology, history, biology, psychology, and philosophy.</td>
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<tr>
<td>ENGL 276R</td>
<td>Themes in Literature</td>
<td>F, Sp</td>
<td>ENGL 1010</td>
<td></td>
<td>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.</td>
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<tr>
<td>ENGL 278R</td>
<td>Internship</td>
<td>Su, F, Sp</td>
<td>Approval of Cooperative Coordinator</td>
<td></td>
<td>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 up to 6 credits toward graduation.</td>
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<tr>
<td>ENGL 290R</td>
<td>English Scholarly Forum</td>
<td>F, Sp</td>
<td>ENGL 2010 or ENGL 2020</td>
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<td>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.</td>
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<tr>
<td>ENGL 299R</td>
<td>Independent Study</td>
<td>Su, F, Sp</td>
<td>ENGL 1010 or ENGL 2020</td>
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<td>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.</td>
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<tr>
<td>ENGL 3000</td>
<td>Professional Considerations for the English Major</td>
<td>F</td>
<td>ENGL 1010 or ENGL 2020</td>
<td></td>
<td>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.</td>
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<tr>
<td>ENGL 3010</td>
<td>Rhetorical Theory</td>
<td>F</td>
<td>ENGL 1010 or ENGL 2020</td>
<td></td>
<td>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.</td>
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<tr>
<td>ENGL 3020</td>
<td>Modern English Grammars</td>
<td>F</td>
<td>ENGL 1010 or ENGL 2020</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>ENGL 3030</td>
<td>Writing and Communicating Effectively in/across Contexts</td>
<td>Not 10-11</td>
<td>ENGL 1010 or ENGL 2020</td>
<td></td>
<td>Engages rigorous critical reading, listening, thinking, writing, and speaking. Focused on argumentation, summarizing, paraphrasing, quoting, critical analysis, synthesizing ideas, negotiating positions, interrogating multiple perspectives, and other skills associated with the contemplation of ideas and the generation of sound arguments in written, oral, visual, and other communicative contexts. Includes analysis of situated “real world” texts appropriate to a discipline and “mock” versions of such texts, readings, and portfolio.</td>
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<tr>
<td>ENGL 3040</td>
<td>History of the English Language</td>
<td>F</td>
<td>ENGL 2010 or ENGL 2020</td>
<td></td>
<td>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.</td>
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</table>
ENGL 3050
Advanced Editing and Design for Print Media
3:3:0 F, Sp
- Prerequisite(s): ENGL 2010 or ENGL 2020 or Instructor Approval; ENGL 2505 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 3090
Academic Writing for English Majors
3:3:0 F, Sp
- Prerequisite(s): ENGL 2600
- Corequisite(s): ENGL 3000 Recommended
Centers on scholarly research and writing in fields related to English Studies, drawing on students’ areas of focus. Emphasizes analysis, rhetorical theories of writing, development, style, oral presentations, and primary and secondary research techniques. Prepares students to extend their abilities with researched writing in other upper-division courses and teaches students advanced scholarly attitudes toward researched writing.

ENGL 3110 (Cross-listed with: THEA 3110, COMM 3110)
Non-Fiction Cinema History
3:2:3 Not 10-11
- 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 NANOOK OF THE NORTH to the current trend of reality television and popular documentaries. Some films screened may carry an “R” rating.

ENGL 314G (Cross-listed with: THEA 314G, COMM 314G)
Global Cinema History
3:2:3 Not 10-11
- 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.

ENGL 3150 (Cross-listed with: COMM 3150)
Film Theory
3:3:0 F
- Prerequisite(s): ENGL 2150
Emphasizes film theory as cultural analysis. Relates cultural phenomena to films that reflect recommended 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 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
Designing Electronic Documentation
3:3:1 Not 10-11
- Prerequisite(s): ENGL 2010 or ENGL 2020; Recommended: ENGL 2050, ENGL 2310
For advanced undergraduates. Explores the writer’s role in creating online help and web-based documentation through document management, web-based documentation design, and online helpfile creation. Includes Framemaker, helpfile creation tools, and web design tools. Topics may include methodologies for determining usability, information architecture, and document management.

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 may include Hawthorne, Melville, Poe, Emerson, Thoreau, Douglass, Jacobs, Stowe, Whitman, and Dickinson. Locates the contribution of both canonical and lesser-known authors within cultural and historical contexts. Requires informal and formal writing, presentations, and exams.

ENGL 3525
American Literary Realism and Naturalism
3:3:0 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 2510 or ENGL 2520
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 Not 10-11
- Prerequisite(s): ENGL 2010 or ENGL 2020, and ENGL 2610 or ENGL 2620
Covers major authors, works, and themes from Anglo Saxons, Middle English, up to the Tudor period (750 to 1485 AD). Studies selected authors. May include “Beowulf” poet, Julian of Norwich, Langland, Margery Kempe, Malory, Marie De France, the “Pearl” poet, and the Wakefield Master. Includes brief discussion of Chaucer. Analyzes relevant cultural, philosophical, and historical aspects of the period. Includes lectures, discussions, oral presentations, films, tests, journal writing, and papers.
ENGL 3620
Tudor British Literature 3:0  F
• Prerequisite(s): ENGL 2010 or ENGL 2020, and
  ENGL 2610 or ENGL 2620
Covers major authors, works, and themes from the Tudor period (1485-1603). Studies selected authors. May include Surrey, Wyatt, Skelton, Moore, Marlowe, Sydney, Spenser, Queen Elizabeth I, Raleigh, Mary Herbert, Shakespeare, Drayton, Campion, and Nashe. Briefly discusses Shakespeare. Analyzes relevant cultural, philosophical, and historical aspects of the period. Includes lectures, discussions, oral presentations, films, tests, journal writing, and papers.

ENGL 3630
Stuart British Literature 3:0  Sp
• 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, Philips, Milton, Bahn, and Dryden. Discusses relevant cultural, philosophical, and historical aspects of the period. Includes lectures, discussion, oral presentations, films, journal or response writing, and papers.

ENGL 3640
Restoration and 18th Century British Literature 3:0  F
• Prerequisite(s): ENGL 2010 or ENGL 2020, and
  ENGL 2610 or ENGL 2620
Surveys major authors and works from the Augustan and Johnsonian eras of British literature, including literary, political, historical, religious, and social trends and ideas. Studies selected authors. May include Defoe, Swift, Pope, Johnson, Thompson, Gray, Collins, Goldsmith, Montague, Burney, and others. Includes lectures, discussion, oral presentations, papers, and tests.

ENGL 3650
Romantic British Literature 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. Involves lecture, discussion, small group work, audiovisual presentations, examinations, and writing.

ENGL 3655
Victorian British Literature 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 Brownings and Rossettis, Hardy, and Wilde. Examines historical and philosophical trends that shaped the era's literature and were shaped by it. Involves lecture, discussion, small group work, audiovisual presentations, examinations, and writing.

ENGL 3660
Modern British Literature 3:0  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, modernism, experimental writing, and reactions against modernism. Involves lectures, discussion, audiovisual presentations, written assignments, and exams.

ENGL 3670
Contemporary British Literature 3:0  F
• Prerequisite(s): ENGL 2010 or ENGL 2020, and
  ENGL 2610 or ENGL 2620
Explores contemporary British literature (approx. 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 3671
Literature by Women 3:0  Sp
• Prerequisite(s): ENGL 2010 or ENGL 2020
Provides a substantive framework of important critical issues and questions about women and the reading, teaching, and writing of women's literature. 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 3:0  F, Sp
• 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, tests, and papers.

ENGL 374G
Literature of the Sacred 3:0  F
• 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. Discusses texts from a literary standpoint within the genre of "religious writings." Requires reading, informal and formal writing, and tests.

ENGL 376G
World Literature HH
• 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 or closely related authors.

ENGL 3780
Mormon Literature 3:0  Sp
• Prerequisite(s): ENGL 2010 or ENGL 2020
Surveys the foundations of Mormon literature as expressed through short fiction, novels, personal essays, drama, history and criticism. Includes readings, quizzes, presentations, papers, and exams.

ENGL 3820
History of Literary Criticism 3:0  Not 10-11
• Prerequisite(s): ENGL 2010 or ENGL 2020
Explores rhetorical strategies and philosophical ideas influencing the reading and writing of literary texts from Plato and Aristotle to the present. Includes lectures, discussions, oral presentations, films, tests, journal writing, and papers.

ENGL 3890
Contemporary Critical Approaches to Literature 3:0  Su,F, Sp
• Prerequisite(s): ENGL 2600
• Pre-or Corequisite(s): ENGL 3090
Provides in-depth study of one contemporary theoretical and critical approach to literature using primary texts. Explicates how interpretive techniques function within the discipline of English Studies. May include lectures, screenings, student presentations, assigned readings, written reports, exams and a research essay that employs MLA documentation. Required for English majors. Should be taken beginning of junior year.

ENGL 4010
Studies in Language 3:0  Not 10-11
• Prerequisite(s): ENGL 3010 or instructor/advisor approval
Focuses on three major topics in language studies per semester. Includes language in social construction, workplace functions, science, political arenas, and other more specific areas as determined by the instructor. Specific topics will be listed in the class schedule.

ENGL 412R
Studies in Literary Genres 3:0  F, Sp
• Prerequisite(s): ENGL 2010 or ENGL 2020
Examines various literary genres, with a different focus each semester. May be repeated twice with different designations.

ENGL 414R
Special Topics in Cinema History 3:2 3
• Prerequisite(s): ENGL 2150
Focuses study on a specific U.S. or International period or movement. Representative topics may include German Expressionism, Italian Neorealism, New Hollywood Cinema, and etc. May be repeated for a maximum of nine credits toward graduation. Some films screened may carry an "R" rating.

ENGL 416R (Cross-listed with THEA 416R)
Special Topics in Film Studies 3:3 0
• Prerequisite(s): ENGL 2150 or THEA 2023
Covers cinema directors, genre, theory, and social change on a rotating basis. Explains course focus,
Course Descriptions

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.

ENGL 4210 Methods in Teaching Literacy I
3:3:0 F, Sp
• Prerequisite(s): ENGL 2600, and ENGL 3010 or ENGL 3020 or ENGL 3040
Introduction to prospective secondary language arts teachers. Explores issues related to teaching reading, writing, and inquiry, as specified in the Utah State Secondary Language Arts Core Curriculum Guide. Includes instruction on lesson design, teaching strategies, and assessment. Entails class discussion, field observations, and creation of teaching materials.

ENGL 4220 Methods in Teaching Literacy II
3:3:0 F, Sp
• Prerequisite(s): ENGL 4210
Continues to explore issues and research in language arts and further develops teaching skills through reading and discussion, classroom observation, creating teaching materials, and participation in teaching demonstrations. Preparatory to student teaching for English Secondary Education students.

ENGL 4230 Methods in Teaching Literacy III Teaching the Conventions of Writing
3:3:0 F
• Prerequisite(s): ENGL 4210
Presents strategies for teaching 6-trait writing in the secondary language arts classroom and provides opportunity to practice these strategies. Focuses on the Utah State Office of Education Language Arts Core Curriculum with a strong emphasis on the practical application of how to teach inquiry-based writing to adolescents. Will also incorporate how to teach the trait of Conventions. Includes direct instruction, class discussion, micro-teaching, and assessment of student writing.

ENGL 4250 Adolescent Literature
3:3:0 F, Sp
• Prerequisite(s): ENGL 2010 or ENGL 2020
Engages secondary education majors and other interested students in the study of literature written explicitly for adolescent readers. Explores attitudes towards adolescence as a distinctive psychological, social and moral state using contemporary and time-honored works from various cultures. Particular attention paid to contemporary adolescent issues, history of young adult literature, value instruction, and the role of young adult literature in the literacy development process.

ENGL 4310 Advanced Technical Communication
3:3:0 Su, F, Sp
• Prerequisite(s): ENGL 2010 or ENGL 2020
For upper-division technology management majors, technical writing emphases and minors, and as elective credit for other upper-division students. 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. Emphasizes primary and secondary research and usability.

ENGL 4320 Document Management
3:3:2 Not 10-11
• Prerequisite(s): ENGL 2310
For technical writing emphases and minors. Teaches managing electronic and print documents from inception to publication. Introduces the procedures and techniques of successful document management, including scheduling, budgeting, genre selection, and publication issues.

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 10-11
• 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 4450 Advanced Creative Nonfiction Writing
3:3:0 F, Sp
• Prerequisite(s): ENGL 3450I
Provides experience in producing nonfiction prose. Focuses on the stylistic/aesthetic development of raw content.

ENGL 445R Studies in the American Novel
3:3:0 F, Sp
• 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 include 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 10-11
• 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 471R 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 on 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  3:0  Not 10-11  • 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  3:0  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 task 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 8 credits toward graduation.

ENGL 486R  Topics in Literature  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 movement, etc. Subject matter will vary each semester. May be repeated twice for different topics.

ENGR 2010  Engineering Statics  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  3:0  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  3:0  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  3:0  Sp  • Prerequisite(s): MATH 1220, PHYS 2210  

ENGR 2450  Computational Methods for Engineering Analysis  3:3  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.

ENST 3000  Introduction to Environmental Studies  3:0  F  
Explores the complex relationships of culture, technology, and nature within an interdisciplinary framework of the natural sciences, social sciences, business, and humanities. Addresses the integration of humanity and nature in the age of globalization.

ENST 3520  Environmental Psychology  3:0  
• Prerequisite(s): (ENGL 2010 or ENGL 2020)  
Studies relationships between behavior and experience, and the built and natural environments. Studies perspectives and problems unique to the field. Analyzes psychological research as it applies to humans and the environment. This is a service learning course with community-based research.

ENVT 1110  Introduction to Environmental Management  3:3  F, Sp  • Prerequisite(s): MATH 1210, CS 1400  
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  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  F  
Covers the basic processes used to treat wastewater including primary treatment, biological treatment, and chemical treatment processes. Offers excellent
Course Descriptions

ENVT 1270
Environmental Microbiology
3:3:0
- Prerequisite(s): MICR 2050 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
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
Covers coagulation, sedimentation, filtration, water sources, sampling, disinfection, and regulations. Introduces the equipment used to treat water. Discusses the prevention of disease through effective treatment.

ENVT 1510
Hazardous Materials Emergency Response
3:3:0
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
- 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
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
- Prerequisite(s): BIOL 1010 recommended
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
3:3:0
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 to 25
- 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
- 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
- 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
- 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
- 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
- Prerequisite(s): ENGL 1010 and ENGL 2020 recommended
For those interested in the interaction between industry and the environment. Covers the systems and organization necessary to effectively manage environmental issues. Discusses the ISO 14000 standard and its effect upon management practices.

ENVT 3550
Site Investigation
3:3:0
- 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 3630
Introduction to Geographic Information Systems
4:3:2
- Prerequisite(s): MAT 1010
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
- 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
- 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
- Prerequisite(s): MICR 2050 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
3:3:0
- Prerequisite(s): MAT 1010 and DGM 201D recommended
Presents a comprehensive review of the role of water in the environment. Discusses precipitation, runoff, surface flow, groundwater movement, effects of vegetation on water cycles, and human impacts.
Course Descriptions

ESEC 1140 Emergency Medical Technician--Basic
3:7:6 Su, F, Sp
For first semester Fire Science students. Prepares students for certification as an Emergency Medical Technician-Basic through the Utah Bureau of EMS. Includes CPR, automatic defibrillation, patient assessment and treatment, legal issues, airway support, medical and trauma emergencies, emergency childbirth, pediatric emergencies and patient movement/transport.

ESEC 1150 EMT Refresher Level I
2:1:2 On Sufficient Demand
Prerequisite(s): ESEC 1140
Provides in-service refresher information to maintain EMT Level I certification based on the D.O.T. requirements for emergency medical technicians. Focuses on required EMT skill mastery.

ESEC 1160 Emergency Medical Technician--Intermediate
6:4:6 F, Sp
Prerequisite(s): ESEC 1140 or equivalent or EMT-Basic Certification for one year or six months experience as a Utah EMT-Basic with prior Utah Bureau of Emergency Medical Services approval. Prepares students for certification as an Emergency Medical Technician-Intermediate through the Utah Bureau of EMS. Includes advanced airway management, intravenous access, medication administration, cardiac rhythm interpretation and other advanced medical skills.

ESEC 3110 Paramedic I
5:5:0 Su, F, Sp
Prerequisite(s): ESEC 3110, ESEC 3120, and ESEC 3140
Introduces the Emergency Medical Services system and the role of the paramedic. Covers pre-hospital instruction for the care of the sick and injured including lectures in 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 3120 Paramedic I Lab
3:0:9 F, Sp
Corequisite(s): ESEC 3110, ESEC 3130, and ESEC 3140
Designed to allow hands-on practice and evaluation of the following skills: IV therapy, IO infusions, IM injections, SQ injections, oral and nasal intubation, thoracotomy, cricothyrotomy, defibrillation, transecturable 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
Corequisite(s): ESEC 3110, ESEC 3120, and ESEC 3140
Discusses the Emergency Medical Services system and the role of the paramedic. Covers pre-hospital instruction for the care of the sick and injured including lectures in pharmacology, cardiac rhythm and monitoring, ACLS, patient assessment and emergency treatment for the cardiac system, central nervous system and 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.

ESEC 3140 Paramedic III
4:4:0 F, Sp
Prerequisite(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
Corequisite(s): ESEC 4120
Discusses the Emergency Medical Services (EMS) system and the role of the paramedic within this system. Teaches the terms, definitions, concepts, pre-hospital care life, trauma life support, and skills of a Paramedic through lecture and hands-on experience. Includes landing zones and safety, high angle rescue, Life-Pack 10, street smarts, death, dying and grieving, handling rape and domestic violence, substance abuse, EVO training, auto extrication, and forensic medicine. Requires individual written reports reflecting current trends in EMS and demonstration of proficiency in professional patient care reports. Successful completers should be able to meet the requirements listed in the National Standard D.O.T. Paramedic curriculum and the qualifications defined in the Utah Paramedic Training Program Accreditation Standards. Additionally, students completing the required coursework will be recommended for testing with the National Registry of Emergency Medical Technicians Paramedic (NREMT-P) for certification.

ESEC 4120 Paramedic Clinical Concepts
6:0:18 Su, Sp
Corequisite(s): ESEC 4110
Includes field-based experiences with Paramedic rescue, hospital emergency department, pediatric emergency department, intensive care units, aeromedical service, labor and delivery, and operating room to provide field experience. Requires individual written reports reflecting current trends in EMS and demonstration of proficiency in professional patient care reports. Successful completers should be able to meet the requirements listed in the National Standard D.O.T. Paramedic curriculum and the qualifications defined in the Utah Paramedic Training Program Accreditation Standards. Additionally, students completing the required coursework will be recommended for testing with the National Registry of Emergency Medical Technicians Paramedic (NREMT-P) for certification.
Course Descriptions

ESFF 1000 Introduction to Emergency Services and Ability Testing
4:0:0 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
Explores career opportunities and job requirements of fire and rescue emergencies. Discusses the various duties within emergency services, including structural fire fighting, wildland firefighting, technical rescue, hazardous materials control, fire protection, fire investigations, and incident command. Explains the employment testing and selection processes of federal, state, municipal, and industrial emergency service organizations. Develops basic emergency skills in hazard recognition, response organization, and fire extinguisher use.

ESFF 100B Firefighter Physical Ability Testing
1:1:0
Provides aspiring firefighters with information needed to pass various physical ability tests. Explores the background and development of tests, including the role the Candidate Physical Ability Test plays in the Wellness Fitness Initiative. Outlines principles of designing and implementing an effective training program.

ESFF 1010 Firefighting Fundamentals I
3:3:0 On Sufficient Demand
- Corequisite(s): ESFF 1210
Discusses the history and background of the fire service. Teaches terms, definitions, and concepts of NFPA 1001 Professional Qualifications for Firefighters Level I. Includes fire behavior, ventilation rescue, forcible entry, ladders, ropes and knots, self-contained breathing apparatus, firefighting, technical rescue, hazardous materials control, fire protection, fire investigations, and incident command. Explains the employment testing and selection processes of federal, state, municipal, and industrial emergency service organizations. Develops basic emergency skills in hazard recognition, response organization, and fire extinguisher use.

ESFF 1210 Firefighting Skills I
4:0:12 On Sufficient Demand
- Corequisite(s): ESFF 1010
Teaches basic manipulative skills according to NFPA 1001 Firefighter Professional Standards, Level 1. Includes using forcible entry tools, using self-contained breathing apparatus, tying knots and using ropes, handling salvage covers, utilizing hose nozzles and appliances, manipulating ladders, ventilation practices, search for and removal of victims, sprinkler operations, initiating emergency response, and safety procedures. Students are required to furnish their own approved firefighter safety clothing as follows: gloves, boots, helmet, and hood.

ESFF 1220 Firefighting Fundamentals and Skills II
3:1:6 On Sufficient Demand
- Prerequisite(s): ESFF 1010 or Departmental approval
Teaches intermediate skills as described in NFPA 1001 Level II. Builds upon the basic skills taught in ESFF 1010 and introduces new skills and knowledge in water supplies, portable extinguisher practices, inspection techniques, and rescue operations.

ESFF 131A Recruit Candidate Academy I
3:3:0
- Prerequisite(s): Department approval or completion of the following with a grade of “C-” or higher:
  - ESFF 1000 or (ESFF 100A and ESFF 100B),
  - ESEC 1140, ENGH 0990 or higher, and MAT 0990 or higher.
For students with no previous fire fighting experience. Addresses the cognitive requirements of Firefighter I and II certification for NFPA 1001. Professional Qualifications for Firefighters. Includes orientation and safety behavior, building construction, protective equipment, portable extinguishers, ropes and knots, rescue and extrication, forcible entry, ladders, and ventilation.

ESFF 131B Recruit Candidate Academy II
3:3:0
- Pre- or Corequisite(s): ESFF 131A
For students with no previous fire fighting experience. Addresses the cognitive requirements of Firefighter I and II certification for NFPA 1001, Professional Qualifications for Firefighters. Includes water supply, fire hose, fire streams, fire control, detection and suppression systems, loss control, fire cause determination, communications, fire prevention, and public fire safety education.

ESFF 131C Recruit Candidate Academy III
3:1:6 F, Sp
- Corequisite(s): ESFF 131A or department approval
For students with no previous fire fighting experience. Addresses the manipulative skill requirements of Firefighter I and II certification per NFPA 1001, Professional Qualifications for Firefighters. Includes use of personal protective equipment and self-contained breathing apparatus, use of ropes and knots, use of hose lines and nozzles, performing ventilation, performing search and rescue, overhauling a fire scene, and identification of possible causes of a fire.

ESFF 131D Recruit Candidate Academy IV
3:2:3 F, Sp
- 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
- Prerequisite(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, 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
- Prerequisite(s): ESFF 1340
  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
- Prerequisite(s): ESFF 1220
  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
- Corequisite(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
Explores the theories and fundamentals of how and why fires start, spread and how they are controlled. Discusses 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
Provides fundamental information regarding the history and philosophy of fire prevention. Presents 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 F, Sp
- 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 ICS principles. Meets the incident command requirements for Fire Officer I, Fire Officer II, NFPA 1021, Presidential Directive #5, and NFMS compliance.

ESFO 2030
Fire Inspector I
3:3:0 F, Sp
- Prerequisite(s): ESFF 1000 or sufficient emergency services work experiences.
  For Fire Science and Building Inspection Technology students. Discusses 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, Sp
- Prerequisite(s): ESFF 1000 or sufficient emergency services work experiences.
  For second year Fire Science students and experienced firefighters. Addresses the NFPA requirements for Fire Officer I. Discusses human resource management, community and government relations, application of fire department policies, fire investigation procedures, emergency service delivery and safety considerations. Completers should be prepared to certify as Fire Officer I.

ESFO 2110
Fire Inspector I and II
3:3:0 F, Sp
- 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 F, Sp
- 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  
F, Sp  
- 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  
F, Sp  
- 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 2400  
Fire Officer Work Experience  
3:1:6  
Su, F, Sp  
- 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.

ESFO 2310  
Fire Investigator I  
3:3:0  
F, Sp  
- Prerequisite(s): ESFF 1000 or sufficient emergency services work experiences.
Provides basic requirements for fire investigators as found in NFPA 1033. Includes scene examination, documenting the scene, evidence collection and preservation, interviewing techniques, post incident investigation and presenting investigation findings.

ESFO 2320  
Fire Investigator II  
3:3:0  
On Sufficient Demand  
- Prerequisite(s): ESFO 2310 or Departmental Approval
Presents advanced skills for fire investigators. Explores all aspects of the investigative process, scene documentation, advance collection tools and evidence preservation, advanced investigative techniques, case preparation, presenting findings in a legal/court proceeding.

ESFO 2330  
Public Fire Education I  
2:2:0  
On Sufficient Demand  
- Prerequisite(s): ESFO 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.

ESL—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 needs. Explores vocabulary in context around relevant themes. Includes communicative practice and authentic language practice with native English speakers. Completers should advance to high-beginning English level.

ESL 0910  
Listening/Speaking Level I  
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 students to English usage, correct speech and writing forms and patterns, basic verb tenses and their related structures, and simple use of nouns, pronouns, adverbs, sentence connectives, descriptives, and related forms.

ESL 1210  
Listening/Speaking Level II  
5:5:0  
Su, F, Sp  
- Prerequisite(s): Department Approval
For students whose native language is other than English. Studies low-intermediate concepts of pronunciation intonation, stress, and English phonics. Expands use of simple statements, questions, and commands on familiar topics as well as academic lectures and conversations. Includes weekly use of the UVU Language Lab where low-intermediate conversation skills are emphasized and practiced.

ESL 1220  
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 vocabulary, word attack skills, English dictionary usage, and comprehension skills. Encourages reading for pleasure and for information. Practices academic and job-related reading skills.
ESL 1230
Writing Level II
5:5:0 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, descriptive, and related forms. Introduces modal auxiliaries, conditional sentence usage, phrases, and adjective clauses.

ESL 1310
Listening/Speaking Level III
5:5:0 Su, F, Sp
- Prerequisite(s): Department Approval
For students whose native language is other than English. Studies high-intermediate concepts of pronunciation, intonation, stress, and English phonics. Expands use of simple statements, questions, and commands on familiar topics as well as academic lectures. Emphasizes active participation in academic and social conversations. Includes weekly use of the UVU Language Lab where high-intermediate conversation skills are emphasized and practiced.

ESL 1320
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 vocabulary, word attack skills, English dictionary usage, and comprehension skills. Encourages reading for pleasure and for information. Practices academic and job-related reading skills. Emphasizes extensive reading.

ESL 1330
Writing Level III
5:5:0 Su, F, Sp
- Prerequisite(s): Department Approval
For students whose native language is other than English. Studies high-intermediate English writing conventions including applied grammar and usage, word choice, style, organization, idea development, and technical accuracy. Explores longer academic writing tasks. Includes weekly use of the LEC Computer Classroom where high-intermediate writing skills are emphasized and practiced.

ESL 1340
Grammar Level III
5:5:0 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, descriptive, and related forms. Expands use of modal auxiliaries, conditional sentence usage, phrases and adjective clauses. Introduces noun and adverbial clauses.

ESL 2110
Advanced Listening/Speaking
5:5:0 LH 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.

ESL 2120
Advanced Reading/Vocabulary
5:5:0 LH 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, skimming, scanning, recognizing patterns of organization and author’s purpose, interpreting literature, and using advanced level vocabulary. Includes lectures, group discussions, lab activities, and multimedia. Satisfies AAS Humanities requirements.

ESL 2130
Advanced Composition
5:5:0 LH 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 related to tense, time, parts of speech, modifiers, clauses, phrases, conditionals, active/passive voice, and modals. Emphasizes grammatical fluency in English speech and writing. Satisfies AAS Humanities requirements.

ESL 2140
Advanced Grammar
5:5:0 LH 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 related to tense, time, parts of speech, modifiers, clauses, phrases, conditionals, active/passive voice, and modals. Emphasizes grammatical fluency in English speech and writing. Satisfies AAS Humanities requirements.

ESL 310G
Introduction to Homeland Security
3:3:0 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 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 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 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 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 Prerequisite(s): ESMG 3200 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
- 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
Customer Service and Marketing for the Emergency Services
3:3:0
- 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
- Prerequisite(s): ESMG 4500 or sufficient emergency services experience
Introduces the student to the need for and creation of comprehensive emergency planning operations. Explores risk assessment techniques and critical analysis strategies for communities and governmental agencies. Teaches the components of a comprehensive emergency plan and presents the National Incident Management System (NIMS), mandated by presidential directive.

ESMG 4600
Public Administration and Emergency Management
3:3:0
- 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
- Prerequisite(s): ESMG 4550 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 6:0.5 to 40
- 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
- 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 of the Emergency Management discipline and worthy of communication to a broader audience. May be repeated for a maximum of 6 credits toward graduation.

ESMG 491R
Topics in Cardiology and Medical Trends
1 to 3:1 to 3:0
- Prerequisite(s): ENGL 2010, ESFF 1000 or departmental approval
Surveys a specific topic in cardiology and medical trends related to Emergency Medicine. Topic varies each semester. May be repeated for a maximum of 6 credits toward graduation.

ESMG 492R
Topics in Trauma and Pharmacology
1 to 3:1 to 3:0
- Prerequisite(s): ENGL 2010, ESFF 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.

ESMG 493R
Topics in Medical Litigation
1 to 4:1 to 4:0
- Prerequisite(s): ENGL 2010, ESFF 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.

EWSF—EMERGENCY SERVICES - WILDLAND FIREFIGHTER

EWSF 1310
S131 Firefighter Type 1
0.5:0.5:0
- 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.

EWSF 1330
S133 Look Up Look Down Look Around
0.5:0.5:0
- Prerequisite(s): Meet NWCG prequalifications or departmental approval.
Examines the wildland fire environment and the indicators firefighters should observe on the fire line in order to anticipate fire behavior.

EWSF 1400
Wildland Firefighting Fundamentals
4:3:3
- Prerequisite(s): EWSF 1400 or departmental approval
Designed to meet the Wildland Firefighter I knowledge and skill requirements of NFPA 1051, Wildland Fire Fighter Professional Qualifications. Teaches students to recognize the “Situations That Should Watchout,” apply the appropriate Standard Fire Orders and how to deploy a fire shelter. Includes orientation to the Incident Command System. Teaches basic fireline construction, fire weather, and fire behavior. Each subject covered in this course meets and/or exceeds NWCG standards for the following classes: S-130, S-190, I-100, and L-180.

EWSF 1410
Wildland Firefighter Internship I
5:2:9
- Prerequisite(s): EWSF 1400 or departmental approval
Provides experience in fighting fires at wildfire and urban interface incidents. Studies wildland fire behavior, fire weather, and fire mitigation. Teaches size-up, chain of command, communications, strategy, and tactics. Includes developing water sources, learning engine tactics, understanding procedures for aircraft, firing and felling operations. Completers should develop skills beyond the entry level firefighter.

EWSF 1420
Wildland Firefighter Internship II
5:2:9
- Prerequisite(s): EWSF 1410
Provides students with the training and experience that will assist them in gaining a job in wildland fire management and suppression. Features participation in a 20-person wildland fire suppression crew sponsored by the Utah Division of Forestry, Fire and State Lands. Also teaches about wildland fire behavior as well as fire suppression strategies and tactics. Requires students to participate in physically demanding assignments with long periods of time away from home. Exposes students to wildland fire and the various organizational and mechanical tools used to manage and suppress them, such as; aircraft, bulldozers, large engines and other fire management and suppression equipment.

EWSF 2000
S200 Initial Attack Incident Commander Type 4
1:1:0
- Prerequisite(s): Meet NWCG prequalifications or departmental approval.
Designed to meet the 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.
Course Descriptions

**ESWF 2010 Basic Incident Command System**
1:1:0
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. Based on the same lesson objectives and content as the NWCG I-200 course.

**ESWF 2110 Portable Pumps and Water Use**
1:5:1.5:0
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 Fire Operations in the Wildland Urban Interface**
2:2:0
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 Crew Boss Single Resource**
2:2:0
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 Ignition Operations**
2:2:0
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
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 Interagency Incident Business Management**
1:1:0
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.

**ESWF 2700 Basic Air Operations**
1:1:0
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 Followship to Leadership**
1:1:0
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 Intermediate Wildland Fire Behavior**
2:2:0
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 Incident Commander Extended Attack**
1:1:0
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 3300 Task Force Strike Team Leader**
1.5:1.5:0
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 3390 Division or Group Supervisor**
1:1:0
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.

**FAC—Facilities Management**

**FAC 1010 Survey of Facilities Management**
3:3:0
Prerequisite(s): Meet NWCG prequalifications or departmental approval.
Orients Facilities Management (FAC) majors with core responsibilities in the industry. Uses case studies and theory to gain experience with problem solving and resource management.

**FAC 281R Cooperative Work Experience**
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.

**FAC 285R Cooperative Correlated Class**
1:1:0
Corequisite(s): FAC 281R.
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.
### Course Descriptions

#### FAMT—Fine Arts, Music, and Theater

**FAMT 281R**  
Cooperative Work Experience  
2 to 3:1:5 to 40  
Not 10-11  
- Prerequisite(s): Approval of Cooperative Coordinator  
- Designed for Fine Arts majors. Provides paid work experiences in the student’s major. Course content is individualized, with students setting objectives in consultation with their faculty coordinator and their on-the-job supervisor. Credit is determined by the number of hours a student works during the semester. May be repeated four times for credit.

### FIN—Finance and Economics

**FIN 1060**  
Personal Finance  
3:3:0  
F, Sp  
- 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 3100**  
Principles of Finance  
3:3:0  
Su, F, Sp  
- 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  
F  
- 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 3400**  
Investment Management  
3:3:0  
F  
- Prerequisite(s): FIN100  
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  
Sp  
- 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  
Sp  
- Prerequisite(s): FIN 3100 and MGMT 330G and (FIN 3150 or FIN 3400 or FIN 4100)  
- Corequisite(s): FIN 3150 or FIN 3400 or FIN 4100  
Examines financial aspects of firms operating in an international business environment. Includes currency valuation and forecasting; international flow of funds; foreign and international capital markets; valuation of multinational enterprises; and the effect of decisions about structure of the business and its transactions on firm value, and management of currency, political, and other risks arising from multinational operations.

**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.

### FREN—French

**FREN 1010**  
Beginning French I  
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  
F, Sp  
- Prerequisite(s): Students need equivalent knowledge of FREN 1010  
Completes the first year of study. Includes the remaining grammar, language concepts, and culture, and introduces students to literature in French.

**FREN 1500**  
French Travel Study  
3:1:6  
On Sufficient Demand  
Introduces students to a French-speaking foreign country for a minimum of 10 days of intensive language and culture study. Course entails several meetings prior to departure and at least one after the return home to facilitate observation and analysis of data to be gathered on the tour. An organized presentation of that data will be contained in a multi-media project due no later than one month after tour.

**FREN 2010**  
Intermediate French I  
4:4:1  
F, Sp  
- Prerequisite(s): Students need equivalent knowledge of FREN 1010  
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 2020**  
Intermediate French II  
4:4:1  
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
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 3040 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.
Course Descriptions

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
3:3:3 Sp
- Prerequisite(s): CJ 1350 or FSCI 3400 both with a C+ or higher
Presents the history of fingerprint examination. Teaches recent technical advances in fingerprint development and examination. Describes the theory and make-up of fingerprints, palm prints, and foot prints. Teaches “Superglue Enhancement” techniques. Explores different photographic techniques for preserving fingerprints. Explores different charting and comparison techniques.

FSCI 3740 Fingerprint Examination III
3:3:0 On Sufficient Demand
- Prerequisite(s): Instructor’s Consent

FSCI 3760 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 blood-borne pathogens. Reviews weights, measures, trigonometry, and stroboscopic photo techniques. Presents bloodstain analysis from functional and historical perspectives. Teaches specialized bloodstain terminology and the techniques of bloodstain documentation. Presents the physical properties of blood as they apply to forensic investigation. Uses characteristic patterns and computer applications to interpret the impact patterns of spattered blood. Determine the motion, directionality, point of convergence, and the point of origin of bloodstains. Teaches traditional and modern techniques in crime scene reconstruction for documenting and 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. Explains 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 F, Sp
- 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 documentation skills automatic, thus allowing the investigator to concentrate on the evidence and not on the process. Uses an alternative light source to find evidence at the crime scene. Provides experience in fingerprint development, photography and lifting. Provides experience in making three dimensional casts and two dimensional impressions of physical evidence.

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
3:2:3 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 anistropic,
Courses Offered

In the Laboratory

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 microcrystals 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 4400 Forensic Chemistry**

*3:1:1 Sp*
- **Prerequisite(s):** CHEM 3230 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 confirmation and quantization. Teaches guidelines for data analysis, interpreting results, and writing analytical reports. Provides guidelines for case review and quality assurance. Teaches botanical identification and marijuana analysis. Presents methods for fiber and polymer analysis, paint sample preparation, and microscopic color analysis. Intends to replace the initial on-the-job training and professional seminars required of beginning forensic chemists after being hired in a crime laboratory.

**FSCI 440L Forensic Chemistry Laboratory**

*1:0:3 Sp*
- 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 confirmation and quantization. Teaches guidelines for data analysis, interpreting results, and writing analytical reports. Provides guidelines for case review and quality assurance. Teaches botanical identification and marijuana analysis. Presents methods for fiber and polymer analysis, paint sample preparation, and microscopic color analysis. Intends to replace the initial on-the-job training and professional seminars required of beginning forensic chemists after being hired in a crime laboratory.

**FSCI 443R Directed Research in Forensic Science**

*2 to 7:1:3 to 15 On Sufficient Demand*
- **Prerequisite(s):** Instructor Approval
Provides undergraduate research. Guidance by a faculty member directs literature data, experimental design, data acquisition, interpretation of results, and conclusion. Written report, suitable in formal publication, necessary for completion. May be repeated for a maximum of 7 credits toward graduation.

**FSCI 481R Forensic Science Internship**

*1 to 8:5 to 40 Su, F, Sp*
- **Prerequisite(s):** Department application approval
Provides actual, on-the-job work experience on a paying or non-paying (volunteer) basis in a Forensic Science profession or other approved related situation. Emphasizes successful work experience, with emphasis on identifying and solving problems. May be repeated for a maximum of 8 credits toward graduation.

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**GEO—GEOLGY**

**GEO 1010**

*Introduction to Geology*

*3:3:0 Su, F, Sp*
- Studies planet earth: its materials, structure, dynamics, and surface features. Taken alone it is designed for non-science students who want a broad introduction to earth science and a greater appreciation of their physical surroundings. Taken in conjunction with laboratory exercises in GEOL 1015, the class is sufficiently rigorous to articulate as an introductory geology class.

**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*
- Studies the structural and dynamic systems of the earth that create our environment. Stress geology and related topics chosen for astronomy and meteorology.

**GEO 1020 Prehistoric Life**

*3:3:0 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.

**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, mountainous, 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 Science Excursion**

*1:0:2 F, Sp*
- For students interested in the natural world. 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 the natural world.
Course Descriptions

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) PP Natural History Excursion 3:1:6 Su, F 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, S 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. Includes 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 3210 Environmental Geology 4:3:2 Sp Prerequisite(s): GEO 1010, GEO 1015 Investigates several of the geologic resources that are important for our society including water, soil, mineral, and fossil fuel resources. Studies the known reserves and trends in usage of each of these resources. Covers issues associated with soil and water pollution. Includes field-based exercises.

GEO 3400 Forensic Geology 4:3:3 F, S 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 F Prerequisite(s): GEO 1010, GEO 1015; MATH 1060 (or other course dealing with trigonometry) recommended. Investigates the fundamentals of plate tectonics and rock deformation. Includes applications to petroleum geology, environmental geology, and engineering geology. Explores geometric techniques of structural analysis in the laboratory. Includes field trips, possibly including weekend trips.

GEO 4080 Petrology 4:3:3 F 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 equilibria in igneous, sedimentary, and metamorphic rocks as it pertains to the genesis of these rocks. Introduces students to techniques of petrographic microscopy. Surveys the use of analytical tools in researching igneous and metamorphic rocks, including the use of isotopes for dating and for tracing the origin of magma and the use of the electron microscope for determining temperatures of metamorphism. Examines the diagenesis of sandstones.

GEO 4200 (Cross-listed with: BIOL 4200, CHEM 4200) 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 4:0:3 to 12 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.

GEO 4510 Paleontology 4:3:2 F Prerequisite(s): GEO 1010; BIOL 1010 or BIOL 1610; GEO 4500 recommended. Focuses on systematics of the major groups of past life represented in the fossil record, including taxonomy, biogeography, and phylogeny. Explores the utility of fossils in paleoecology, paleoclimatology, and biostratigraphy. Emphasizes the application of fundamental evolutionary principles for understanding diversification, extinction, and morphological trends in the 4 billion year history of evolution of life on Earth. Includes lab exercises and field trips.

GEO 4600 Field Experience 4:0:12 Su, F, Sp 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.

GEO 482R (Cross-listed with: ENVT 442R) Geologic/Environmental Internship 1 to 3:0:5 to 15 F, S, 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.

GEO 495R Independent Study 1 to 4:3:2 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 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 F, S, 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 location, physical environment, culture, resources, and current events.

GEOG 1400 Introduction to Human Geography 3:3:0 Not 10-11 Examines the theoretical aspects of human activity across the Earth's surface. Discusses the analytical frameworks for understanding the interactions of social, cultural, economic and political systems.
Topics include population dynamics, international development, human conflicts, and urbanization.

**GEOG 2100** Geography of the United States 3:3:0 On Sufficient Demand
Surveys primarily the regional geography of the United States and, secondarily, of Canada. Explores subregions of each country in detail. Includes topics such as culture, environment, economy, urbanization, transportation systems, territory and political borders.

**GEOG 2200** Geography of Europe 3:3:0 On Sufficient Demand
Provides a regional survey of Europe including topics such as economic development, environment, politics, society and culture. Explores the place of Europe in geopolitical and global economic systems. Discusses internal relationships within the European Union, Eastern Europe and Russia.

**GEOG 2500** Geography of Latin America and the Caribbean 3:3:0 On Sufficient Demand
Surveys the Americas south of the United States. Explores each subregion of Latin America and the Caribbean in detail. Includes topics such as development, environment, indigenous peoples, history, and national political and financial crises.

**GEOG 3010** Economic Geography 3:3:0 On Sufficient Demand
A course encompassing the study of humankind’s economic activities on the earth, including hunting, gathering, agriculture, mining, manufacturing, forestry, fishing, high technology, and world trade. Studies population, environmental issues, urban patterns, and travel and tourism. Uses lectures, oral response, field trips, and audiovisual aids.

**GEOG 3110** Urban Geography 3:3:0 On Sufficient Demand
- Prerequisite(s): GEOG 1300 preferred
Focuses on the origins, growth, structure and function of cities. Examines social and political dimensions of urban life and the emergence of new urban spaces around the world. Includes case studies in the decline of urban industrial America and the rise of Sunbelt and Edge Cities.

**GEOG 3150** Social Geography 3:3:0 On Sufficient Demand
- Prerequisite(s): (ENGL 2010 or ENGL 2020) or permission of instructor
 Takes a spatial approach to understanding society, premised upon the notion that geographic space and social relationships are inescapably linked. Examines networks and relationships between individuals and groups at a number of scales, from interpersonal to global. Explores topics such as discrimination, segregation, poverty and homelessness.

**GEOG 3250** Cultural Geography 3:3:0 On Sufficient Demand
- Prerequisite(s): (ENGL 2010 or ENGL 2020) or permission of instructor
Explores the cultural landscape of the world’s peoples. Describes the geographic complex of cultural forms including language, religion, music, art, architecture, folklore, food, clothing and land use. Topics include cultural conflicts, globalization, and the international entertainment industry.

**GEOG 3430** Political Geography 3:3:0 Sp
Surveys the geographic dimensions of political action and theory at local, national and global scales. Covers topics such as geopolitics, nationalism, territoriality, and political conflicts. Examines subjects such as American electoral patterns, Cold War geographies, and 21st century global security.

**GEOG 3630** Introduction to Geographic Information Systems 4:3:2 F
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.

**GEOG 3800** Environmental History of the United States 3:3:0 Not 10-11
- 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. Topics include land ethics, processes of environmental degradation, technological remedies, history of federal laws and protection agencies. May include field experiences.

**GER—GERMAN**

**GER 1110** German Conversation I 4:4:0 Sp
On Sufficient Demand
A total immersion course taught in a classroom in a German speaking country. Students live in native, German-speaking homes or other total immersion environments. Practices creative language in conversation to develop proficiency in the German language at the novice level. Includes intensive listening and speaking experience to improve aural-oral proficiency. Students will attend cultural and sporting events. Offered only with the Summer Study Abroad program. May be taken concurrently with GER 2700.

**GER 2100** Intermediate German I 4:4:1 F, Sp
- Prerequisite(s): Students should have equivalent knowledge of GER 1020
Reviews and builds upon the grammar, reading, writing and conversational skills learned in the first year courses. Introduces readings and discussions on the history, culture, and literature of the German speaking world, maintaining a focus on oral proficiency.

**GER 202G** Intermediate German II 4:4:0 Sp
- Prerequisite(s): Students need equivalent knowledge of GER 2010
Studies fourth-semester conversational German that is used in daily settings. Includes culture study, pronunciation, reading, and grammar. Emphasizes conversation in real life situations. Uses field trips and guest lecturers. Prepares students to enter the advanced level of German. Completers should be able to converse enough to visit or work in a German speaking country.

**GER 2700** Immersion German Civilization and Culture 4:4:0 On Sufficient Demand
A total immersion course of classroom study and experience in a German speaking country. Students will live in native, German-speaking homes or other total immersion environments. Includes classroom study, supervised travel of cultural interest, and attendance at various cultural and sporting events. Includes written response, journals, and examinations. Offered only with the Summer Study Abroad program. May be taken concurrently with GER 1110.

**GER 3030** German Composition and Conversation 3:3:0 On Sufficient Demand
- Prerequisite(s): GER 202G or equivalent experience
Expands knowledge and skill base developed in lower-division courses with an emphasis in idiomatic expression in spoken and written German. Using authentic texts, students will learn to read, speak, and write with more precision and accuracy. Successful completion of this course will prepare students to participate fully in subsequent advanced courses.
GER 3050  Advanced German
3:3:0  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 2 years 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  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 the German corporate culture, or plan to major or minor in German. Teaches German business terminology and prepares students to take the International German Business Certificate examination. Presents Germany’s role in a global economy. Explores how students can effectively do business with German companies within the framework of German culture. Includes current materials dealing with today’s issues. Will be taught entirely in the German language.

GER 3550  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  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.

GER 4200  Advanced Business German
3:3:0  On Sufficient Demand
- Prerequisite(s): Students need equivalent knowledge of GER 3050
  For those planning to pursue the Bachelor of Science with an emphasis in International Business or related field. Traces in depth German business terminology, documentation, case studies and transactions. Reviews and builds upon the business terminology learned in German 3200. Prepares students to take the examination for the International Certificate of Business German (Prufung Wirtschaftssprachkunde). Explores how students can effectively do business with German companies within the framework of German culture. Includes current materials dealing with today’s issues. Taught entirely in German.

HIST 1500  World History to 1500
3:3:0  SS  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 151G  World History from 1500 to the Present
3:3:0  SS  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**  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  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 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 “doing” history.

HIST 1740  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**  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 “doing” history.

HIST 270H  US History to 1877
3:3:0  On Sufficient Demand
  Examines the first half of the American experience, beginning with the Paleo-Indian cultures through Post-Civil War Reconstruction. Surveys social, political, cultural, and diplomatic developments throughout this period. 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 “doing” history.

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 “doing” history.

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 “doing” history.

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 or 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 and 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 or consent of instructor
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 Sp
- 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 Women in American History to 1870
3:3:0 F
- Prerequisite(s): HIST 2700 and HIST 2710 or Instructor approval
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 3260 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...
Course Descriptions

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>HIST 3320</td>
<td>Modern Britain</td>
<td>3:3:0</td>
<td>Not 10-11</td>
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<td>Prerequisite(s): (ENGL 2010 or ENGL 2020) or consent of instructor</td>
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<td></td>
<td>Surveys major themes in British history from the Glorious Revolution to the end of the 20th century.</td>
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<tr>
<td>HIST 3430</td>
<td>Middle East History--1914-Present</td>
<td>3:3:0</td>
<td>Not 10-11</td>
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<td>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.</td>
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<tr>
<td>HIST 3450</td>
<td>The History of World War II</td>
<td>3:3:0</td>
<td>F, Su</td>
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<td>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.</td>
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<tr>
<td>HIST 3460</td>
<td>US Military History</td>
<td>3:3:0</td>
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<td></td>
<td>Prerequisite(s): ENGL 2010 or ENGL 2020 or permission of instructor</td>
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<td>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.</td>
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<tr>
<td>HIST 3520</td>
<td>The United States and Vietnam--1945 to Present</td>
<td>3:3:0</td>
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<td>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.</td>
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<tr>
<td>HIST 3530</td>
<td>History of Vietnam</td>
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<td>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.</td>
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<td>HIST 3540</td>
<td>History of South Africa</td>
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<td>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.</td>
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<tr>
<td>HIST 3550</td>
<td>Memory and History</td>
<td>3:3:0</td>
<td>On Sufficient Demand</td>
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<td>Prerequisite(s): (ENGL 2010 or ENGL 2020) and (HIST 3010 or HIST 320)</td>
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<td>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.</td>
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<tr>
<td>HIST 3610</td>
<td>The Modern History of East Asia</td>
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<td>On Sufficient Demand</td>
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<td>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.</td>
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<tr>
<td>HIST 3660</td>
<td>The History of Modern Russia--1864 to Present</td>
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<td>Not 10-11</td>
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<td>Surveys the history of Russia and the Soviet Union from 1864 to the present, with special attention to Russia's politics, economics, and society.</td>
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<td>HIST 3730</td>
<td>American Origins to 1790</td>
<td>3:3:0</td>
<td>Not 10-11</td>
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<td></td>
<td>Prerequisite(s): HIST 2700 and HIST 2710, or Instructor approval</td>
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<td>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.</td>
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<tr>
<td>HIST 3731</td>
<td>United States History 1790-1890</td>
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<td>Prerequisite(s): HIST 2700 and HIST 2710, or Instructor approval</td>
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<td>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.</td>
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<td>HIST 3732</td>
<td>United States History 1890-1945</td>
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<td>Prerequisite(s): (HIST 2700 and HIST 2710) or Instructor approval</td>
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<td>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.</td>
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<td>HIST 3733</td>
<td>United States since 1945</td>
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<td>Prerequisite(s): HIST 2700 and HIST 2710 or Instructor approval</td>
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<td>Provides an overview of major themes in U.S. history from the end of World War II to the present.</td>
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<tr>
<td>HIST 3800</td>
<td>Environmental History of the United States</td>
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<td>Not 10-11</td>
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<td>Prerequisite(s): HIST 1700 or (HIST 2700 and HIST 2710)</td>
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<td>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.</td>
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<tr>
<td>HIST 381G</td>
<td>Pre-Columbian America</td>
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<td>On Sufficient Demand</td>
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<td>Prerequisite(s): HIST 1700 or HIST 2700 or HIST 2710 or ENGL 1010 or HIST 180G or ANTH 180G</td>
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<td>Examines the development of indigenous communities in North America, emphasizing the area that would become the United States, from the first human presence on the continent to the end of the War of 1812.</td>
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<td>HIST 383G</td>
<td>Indians of the Great Plains</td>
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<td>Prerequisite(s): HIST 1700 or HIST 2700 or HIST 2710 or ENGL 1010 or HIST 180G or ANTH 180G</td>
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<td>Emphasizes American Indian resistance to territorial, political, and cultural dispossession by the United States from the end of the War of 1812 to the aftermath of the Wounded Knee Massacre.</td>
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<tr>
<td>HIST 384G</td>
<td>Indians of the Southwest</td>
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<td>On Sufficient Demand</td>
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<td>Prerequisite(s): HIST 1700 or HIST 2700 or HIST 2710 or ENGL 1010 or HIST 180G or ANTH 180G</td>
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<td>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.</td>
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<td>HIST 385G</td>
<td>The Struggle for Self-determination--American Indians 1891 to present</td>
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<td>On Sufficient Demand</td>
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<td></td>
<td>Prerequisite(s): HIST 1700 or HIST 2700 or HIST 2710 or HIST/ANTH 1800 or ENGL 1010</td>
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<td>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</td>
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achieve 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 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 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 10-11 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, Sp 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 Sp 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 than previous class.

HIST 4430 History of Iran--1900 to Present 3:3:0 Not 10-11 Prerequisite(s): (HIST 2700 and HIST 2710) or Instructor approval. 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 Provides opportunities for internship experience in different than previous class. for credit as long as course topic is substantially different than previous class. Surveys a specific topic in Global History. Topic varies each semester. A maximum of 6 credits may be applied toward graduation.

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. Examines military, political, social, economic, and racial issues before, during, and after the war. Examines 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...
Course Descriptions

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 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 upper-division level. A maximum of six credits may be applied toward graduation.

HIST 4980 Senior Research Thesis Research Component
3:3:0
- 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
- 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—COMMUNITY HEALTH**

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, 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
3:3:0
Su, F, Sp


HLTH 2800 (Cross-listed with: PSY 2800)
3:3:0
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
Su, F, Sp

- Prerequisite(s): Instructor/departmental permission

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 (Cross-listed with: MATH 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 3240
Womens Health Issues
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. Focuses on helping students become discriminating consumers of health information, products, and services. Explores consumer health issues including types, cost, availability, efficacy, and safety of health care products and services. Examines health quackery, faddism, and consumer protection.

HLTH 3260
Modifying Health Behavior
3:3:0 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
3:3:0 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
3:3:0 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
3:3:0 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
3:3:0 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
3:3:0 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 4050
Foundations of Health Education
3:3:0 F, Sp
- 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 4100
Health Education Curriculum for Secondary Teachers
3:3:0 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. Examines comprehensive school health education and studies the basic Utah health core curriculum for secondary education. Develops learning activities applicable to the health needs of secondary education students.

HLTH 4150
Community Health Program Development and Evaluation
3:3:0 F, Sp
- Prerequisite(s): HLTH 3200 or instructor permission, HLTH 4050 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
3:3:0 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
3:3:0 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
3:3:0 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 care studies as an arena for discussion.

HLTH 440G
Health and Diversity
3:3:0 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
3:3:0 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
3:3:0 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
3:3:0 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.

HLTH 483R
International Health Education Internship
2 to 6:1:5 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 3:0: 5 to 15 F, Sp
- Prerequisite(s): HLTH 3200 or Instructor 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 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 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 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
1 to 8:0:5 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 289R
Industrial Work Experience
1 to 8:0:5 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 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 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
Presents managerial accounting concepts 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 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 developing a physical plant and work effectively with engineering and maintenance. Includes lecture, role play, site visits, films, and tapes. Completers should have a basic understanding of housekeeping and facility management.

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 3710R Marketing of Hospitality Services
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 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 486R 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 100A
Fall Honors Colloquium
0.5 to 3:0.5 to 3:1 F
- 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 100B
Spring Honors Colloquium
0.5 to 3:0.5 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
- 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.

HONR 498R
Honors Thesis
3:0:6
- Prerequisite(s): Senior status or permission of Honors Director.
Corequisites(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.
Corequisites(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 101G
Humanities Through the Arts
3:3:0
- Prerequisite(s): Current enrollment in Utah Valley University Honors Program or instructor approval.
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 101H
Humanities Through the Arts
3:3:0
- Prerequisite(s): Current enrollment in Utah Valley University Honors Program or instructor approval.
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 101 **
Humanities Through the Arts
3:3:0
- Prerequisite(s): Current enrollment in Utah Valley University Honors Program or instructor approval.
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 2010
Humanities Through the Arts
3:3:0
- Prerequisite(s): Current enrollment in Utah Valley University Honors Program or instructor approval.
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 201H
Humanities Through the Arts
3:3:0
- Prerequisite(s): Current enrollment in Utah Valley University Honors Program or instructor approval.
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 108
Humanities Through the Arts
3:3:0
- Prerequisite(s): Current enrollment in Utah Valley University Honors Program or instructor approval.
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 201G
Humanities Through the Arts
3:3:0
- Prerequisite(s): Current enrollment in Utah Valley University Honors Program or instructor approval.
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 201H
Humanities Through the Arts
3:3:0
- Prerequisite(s): Current enrollment in Utah Valley University Honors Program or instructor approval.
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 201 **
Humanities Through the Arts
3:3:0
- Prerequisite(s): Current enrollment in Utah Valley University Honors Program or instructor approval.
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 300R
Honors Interdisciplinary Seminar
1 to 4:1 to 4:0 to 3
- 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.

HUM 498R
Honors Thesis
3:0:6
- Prerequisite(s): Senior status or permission of Honors Director.
Corequisites(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.

HUM 499R
Honors Project
3:0:6
- Prerequisite(s): Senior status or permission of Honors Director.
Corequisites(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.
solving that might aid students today.

HUM 202G
Arts in Humanistic Traditions II
3:3:0 Su, F, Sp
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 202H
Arts in Humanistic Traditions II
3:3:0 Su, F, Sp
The second of a two-part series which examines world civilizations through the arts. Studies societies from the 1600's. 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 2500
Introduction to Ancient Greek I
6:6:0 Su, F, Sp
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 Su, F, Sp
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 251R
Cooperative Work Experience
2:1:5 to 40 Su, F, Sp
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 250R
Independent Study
1 to 3:0 to 3:0 to 12 Su, F, Sp
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 259R
Directed Readings
1 to 3:0 to 3:0 to 12 F, Sp
Provides an opportunity for second year students to do in-depth research within the Humanities. Study is limited to advanced work beyond that which can be completed in existing, available classes. A proposal must be submitted and approved by the department prior to enrollment.

HUM 320R
Topics in Humanities
1 to 3:1 to 3:0 F, Sp
Prerequisite(s): ENGL 1010
Studies themes, genre, forms, and movements in humanities. Explores individual persons, subjects or genres with relevance to the Humanities. May include: The Beat Generation, Film, Jazz, The Trojan War, John Cage, Depictions of Death. Topics vary. Repeatable up to 6 hours toward graduation.

HUM 325R
Area Studies in Humanities
3:3:0 Su, F, Sp
Prerequisite(s): ENGL 1010 and one of the following: HUM 1010, 101H, 101G, HUM 2010, HUM 201H, HUM 201G, HUM 2020, HUM 202H, HUM 202G.
Studies the literature, philosophy, and arts of a particular geographical area. Topics vary and may include American, European, Latin American, Asian, Arabian, or African cultural regions. Repeatable up to 6 hours toward graduation.

HUM 330R
Period Studies in Humanities
3:3:0 Su, F, Sp
Prerequisite(s): ENGL 1010 and one of the following: HUM 1010, HUM 101H, HUM 101G, HUM 2010, HUM 201H, HUM 201G, HUM 2020, HUM 202H, HUM 202G.
Interdisciplinary study of humanities of a particular period. Topics vary and may include: Ancient Greece, Italian Renaissance, Pre-Columbian Mesoamerica, German Expressionism, The Beat Generation. May be repeated for a maximum of 6 credits toward graduation.

HUM 3500
Approaches to Humanities
3:3:0 Su, F, Sp
Prerequisite(s): HUM 2010 or HUM 201G or HUM 201H or HUM 2020 or HUM 202G or HUM 202H) and (ENGL 2010 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, academics 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
Introduction to Aesthetics
3:3:0 Sp
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.

HUM 4000
Humanism and Posthumanism
3:3:0 Su, F, Sp
Prerequisite(s): (HUM 2010 or HUM 201G or HUM 2020 or HUM 202G) and (ENGL 2010 or ENGL 2020) and (PHIL 2050 or PHIL 205G 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 humanistic or posthumanistic 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 4010
Forms and Genres Across the Arts
3:3:0 Su, F, Sp
Prerequisite(s): HUM 2010 or HUM 210G, HUM 2020 or HUM 202G, ENGL 2010 or ENGL 2020
Pre-or Corequisite(s): One HUM 3000-level or
higher course.

Explores forms and genres of imagery, narrative, drama, composition, or performance, across all art forms. Fosters analytical and interpretative skills in reading all kinds of texts. Highlights the inextricable interrelations among all realms of sensual, intellectual, aesthetic, and cultural experience. Illuminates the polar dynamics of tradition and innovation, continuity and change, and departure and return throughout the history of human creativity.

**HVAC—Heating, Ventilation, Air Conditioning**

**HVAC 1110**
Indoor Maintenance 4D
5:5:0  On Sufficient Demand
- 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 1130**
HVAC 1B
5:5:0  Sp
- 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 1150**
HVAC 2B
5:5:0  Sp
- Prerequisite(s): HVAC 1200
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 1170**
HVAC 3B
5:5:0  Sp
- 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  Sp
- Prerequisite(s): HVAC 2200
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  F
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 1220**
HVAC 2A
5:5:0  F
- 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 inductance.

**HVAC 2200**
HVAC 3A
5:5:0  F
- Prerequisite(s): Departmental written approval
For heating, ventilation, and air conditioning apprentices. Teaches electrical safety, fundamental concepts of magnetism, power supplies, fundamentals of direct current. Covers resistors and resistance, inductors and inductance, capacitors and capacitance. Teaches transformers, voltage=EMF=potential difference, relays, circuit protection devices and supply regulation and filtration.

**HVAC 2220**
HVAC 4A
5:5:0  F
- Prerequisite(s): Departmental written approval
For heating, ventilation, and air conditioning apprentices. Teaches principles of heat flow, airflow filtration, humidification, moisture, psychrometrics. Covers air conditioning systems, duct heaters and furnaces, modulating control, valves, dampers and troubleshooting.

**IDST—Interdisciplinary Studies Program**

**IDST 4900**
Interdisciplinary Studies Capstone
3:3:0  F
- Prerequisite(s): Senior status
For students nearing completion of an Interdisciplinary Studies minor. Provides an opportunity for students to synthesize their interdisciplinary coursework. Requires and facilitates a major research project. Addresses the theoretical and practical problems of interdisciplinary research and writing. Requires participation in peer review groups and in-class presentations.

**INFO—Information Systems and Technology**

**INFO 1000**
Computer Programming Concepts
3:3:0  Su, F, Sp
- 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 to 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  Su, F, Sp
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  Su, F, Sp
- Prerequisite(s): (INFO 1100 with a grade of C- or better) or (Computer Literacy Exam with a score of 70% or higher)
Explores the fundamental concepts of information technology and the role played by enterprise systems in business and organizational strategy. Introduces types of systems, computer organization and hardware, operating systems and networking, project planning, software development, computer ethics, and career paths for enterprise developers and it professionals.

**INFO 1200**
Computer Programming I for IS/IT
3:3:0  Su, F, Sp
- Prerequisite(s): INFO 1120, MAT 1010 or higher, programming aptitude test or INFO 1000
Presents 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 1420**
Computer Architecture and Systems Software
3:3:0  F, Sp
- Prerequisite(s): INFO 1120
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.
INFO 1510
Introduction to System Administration--
Linux/UNIX
3:3:0 Su, F, Sp
- Prerequisite(s): INFO 1420 or CS 1030 or CS 1400
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 demandpaged virtual memory. Includes OS installation, user creation, rights management, loading daemons, and server best practices.

INFO 2030
Data Communication Fundamentals
3:3:0 F, Sp
- Prerequisite(s): INFO 1510 or other introductory operating system course (see Department for approval)
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 On Sufficient Demand
- 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
- 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 Sp
- 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 Su, F, Sp
- Prerequisite(s): Computer Literacy or INFO 2100 or Departmental Approval
Focuses on the design and construction of World Wide Web pages and maintenance of web sites in a multi-platform environment. Teaches current HTML and XHTML standards and exposes students to the latest enhancements. Covers current generation design concepts, page layout, accessibility issues, site management, and WYSIWYG Web authoring tools.

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 2640
Router Management
3:3:0 Su, F, Sp
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.

INFO 2650
Voice and Data Cabling Fundamentals
3:3:0 Sp
- 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.

INFO 2660
Information Security--Fundamentals
3:3:0 F, Sp
- 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.

INFO 281R
Internship
1 to 8:0:5 to 40 Su, F, Sp
- 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 institution. 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 3:0:3 to 9 Su, F, Sp
- 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 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.

INFO 3030
Networks and Internetworking
3:3:0 F, Sp
Prerequisite(s): INFO 2030
A continuation of INFO 2030. 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 students 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.

INFO 310R
Principles of Information Systems--
A Managerial Approach
3:3:0 Su, F, Sp
- Prerequisite(s): (MGMT 2200 or ENGL 2010 or ENGL 2020) and (Computer Proficiency or INFO 2100 or DGM 2010) 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 Extrane for electronic commerce and enterprise collaboration. Examines business cases demonstrating IT contributions to competitive advantage, reengineering business processes, and decision making.
INFO 3400 Project Management
3:3:0
Su, F, Sp
- 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.

INFO 3410 Database Systems
3:3:0
F, Sp
- Prerequisite(s): (INFO 1420 or CS 2810) and (INFO 2050 or CS 3520) and (INFO 2200 or CS 1410)
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 3430 Systems Analysis and Integration
3:3:0
F, Sp
- Prerequisite(s): INFO 2030, INFO 2050, INFO 2200, INFO 2450, MGMT 2200 or ENGL 2010 or ENGL 2020
Introduces the student to the systems development process including project management and the systems development life cycle consisting of planning, analysis, design and implementation phases. Covers the use of appropriate methodologies, tools, and techniques including object-oriented modeling and the use of a CASE tool. Both client/server and Web applications will be addressed. Cases are used as the vehicle for student assignments.

INFO 3440 Enterprise Database Development
3:3:0
F
- 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 3510 Advanced System Administration--Linux/UNIX
3:3:0
F, Sp
- Prerequisite(s): INFO 2030 or (INFO 1510 and CS 2600)
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.

INFO 3620 System Administration--Windows
3:3:0
F, Sp
- 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.

INFO 3630 Advanced System Administration--Windows Server
3:3:0
F, Sp
- Prerequisite(s): INFO 3620
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.

INFO 3660 Information Security--Network Defense and Countermeasures
3:3:0
Sp
- Prerequisite(s): INFO 3030 or CS 3690. INFO 2660 strongly recommended.
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.

INFO 3800 Computer Forensics and Cybercrime
3:3:0
F
- Prerequisite(s): INFO 3660 or INFO 3680, CJ 1340 and CJ 1350 highly recommended.
Explores procedures for identification, preservation, and extraction of electronic evidence. Emphasizes auditing and investigation of network and host system intrusions, analysis and documentation of information gathered, and preparation of expert testimonial evidence. Examines forensic tools and resources for system administrators and information system security officers. Includes ethics, law, policy, and standards concerning digital evidence. Requires lab experience and a research paper or project.

INFO 4030 Enterprise Network Architectures and Administration
3:3:0
F
- Prerequisite(s): INFO 3030 and (INFO 3510 or INFO 3630)
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.

INFO 4050 Global Ethical and Professional Issues in Technology
3:3:0
Sp
- Prerequisite(s): TECH 3000 or INFO 3430 or CS 2420 or DGM 3220
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. Include lecture, readings, case studies, and other media.

INFO 4410 Database Administration
3:3:0
Sp
- 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
Sp
- 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 4440
Enterprise Computing Environments
3:0
• Prerequisite(s): (INFO 3430 or MGMT 3450) 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
3:0
• Prerequisite(s):INFO 3400 or TECH 3400
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
3:0
• Prerequisite(s): Department Approval
Involves the exposure to emerging technologies and topics of current interest in information systems and technology. Varies each semester depending upon the state of technology. May apply a maximum of six hours toward graduation.

INFO 481R
Internship
1 to 8:0:5 to 40
• Prerequisite(s): INFO 3430 or INFO 3510 or INFO 3630 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 three credits may be applied toward graduation without prior written IS and T Department approval. Graded credit or 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 300R
Introductory Topics in Integrated Studies
3:0
• Prerequisite(s): PHIL 2050
A first course in interdisciplinary approaches and research methods. Introduces a variety of topics covering 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
3:0
• 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 10-11
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.

Course Descriptions

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### JPNS—Japanese

**JPNS 1010**
Beginning Japanese I
4:4:1
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
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
Introduces the origin of the art of calligraphy, the reasons why calligraphy developed and became so popular in Japan, works done by famous calligraphers, how to handle a brush and India ink, and how to write letters with a brush. Demonstrates the proper usage of the brush, correct stroke orders, and develops the skills of writing letters (start from level 1- easy to level 8- difficult) with a brush.

**JPNS 2010**
Intermediate Japanese I
4:4:1
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
Reviews and builds further language skills upon the grammar, reading, writing, 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 1010
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.
### Course Descriptions

**LANG—LANGUAGES**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
<th>Corequisites</th>
<th>Prerequisite(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>JPNS 3050</td>
<td>Advanced Japanese</td>
<td>3:3:0</td>
<td>F</td>
<td>- Prerequisite(s): JPNS 202G, one year residency in Japan, or instructor approval</td>
</tr>
<tr>
<td>JPNS 3200</td>
<td>Business Japanese</td>
<td>3:3:0</td>
<td>On Sufficient Demand</td>
<td>- Prerequisite(s): JPNS 3050</td>
</tr>
<tr>
<td>JPNS 3520</td>
<td>Society and Business in Japan</td>
<td>3:3:0</td>
<td>On Sufficient Demand</td>
<td>- Prerequisite(s): JPNS 3050</td>
</tr>
<tr>
<td>LANG 1000</td>
<td>English Literacy for Deaf Students</td>
<td>5:5:0</td>
<td>On Sufficient Demand</td>
<td>- Prerequisite(s): Deaf students fluent in American Sign Language</td>
</tr>
<tr>
<td>LANG 291R</td>
<td>Independent Study</td>
<td>1 to 3:0 to 12</td>
<td>On Sufficient Demand</td>
<td>- Prerequisite(s): Departmental approval</td>
</tr>
<tr>
<td>LANG 3010</td>
<td>Introduction to Linguistics</td>
<td>3:3:0</td>
<td>Su, F, Sp</td>
<td>- Prerequisite(s): ENGL 1010 and (ANTH 101G or any foreign language 2010 course).</td>
</tr>
<tr>
<td>LANG 3020</td>
<td>Methods of Teaching a Foreign Language</td>
<td>3:3:0</td>
<td>F</td>
<td>- Prerequisite(s): Matriculation into any secondary education bachelor degree program or departmental approval</td>
</tr>
<tr>
<td>LANG 4200</td>
<td>Methods of Teaching a Foreign Language</td>
<td>3:3:0</td>
<td>F</td>
<td>- Prerequisite(s): Departmental Approval</td>
</tr>
<tr>
<td>LANG 481R</td>
<td>Language Internship</td>
<td>1 to 8:0:5 to 40</td>
<td>On Sufficient Demand</td>
<td>- Prerequisite(s): Departmental Approval</td>
</tr>
<tr>
<td>LANG 4910</td>
<td>Language Internship</td>
<td>1 to 8:0:5 to 40</td>
<td>On Sufficient Demand</td>
<td>- Prerequisite(s): Departmental Approval</td>
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</tbody>
</table>

**LEGL—LEGAL STUDIES**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
<th>Corequisites</th>
<th>Prerequisite(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LEGL 1000</td>
<td>Law and the Paralegal</td>
<td>3:3:0</td>
<td>F, Sp</td>
<td>- Corequisite(s): DGM 2010</td>
</tr>
<tr>
<td>LEGL 1110</td>
<td>Civil Litigation and Preparation</td>
<td>4:4:0</td>
<td>F, Sp</td>
<td>- Prerequisite(s): LEGL 1000, ENGL 1010</td>
</tr>
<tr>
<td>LEGL 1220</td>
<td>Legal Research in the Library</td>
<td>3:3:0</td>
<td>F, Sp</td>
<td>- Prerequisite(s): ENGL 1010, LEGL 1000</td>
</tr>
<tr>
<td>LEGL 1000</td>
<td>Culture of Law</td>
<td>2:2:0</td>
<td></td>
<td>- Prerequisite(s): LEGL 1000 and LEGL 1110</td>
</tr>
<tr>
<td>LEGL 2180</td>
<td>Administrative Law and Advocacy</td>
<td>3:3:0</td>
<td></td>
<td>- Prerequisite(s): LEGL 1000 and LEGL 1110</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Term(s)</td>
<td>Prerequisites</td>
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<tr>
<td>LEGL 2190</td>
<td>Legal Ethics</td>
<td>2:2:0</td>
<td>F, Sp</td>
<td>Prerequisite(s): LEGL 1000. Explores common historical theories of law and ethical standards for legal assistants and attorneys. Examines unauthorized practice of law, confidentiality, and other standards of conduct. Emphasizes the American Bar Association and the Utah Rules of Professional Conduct. Includes film presentations, guest speakers and group projects. Completers should be able to recognize and observe ethical standards of conduct for legal assistants with employers, clients, co-workers and the general public.</td>
</tr>
<tr>
<td>LEGL 2300</td>
<td>Computerized Legal Research</td>
<td>3:3:0</td>
<td>F, Sp</td>
<td>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 legal memoranda. Minimum of C+ grade required for graduation. Prepares students for WEST LA W and LEXIS certification.</td>
</tr>
<tr>
<td>LEGL 2330</td>
<td>Computer Applications in Law</td>
<td>3:3:0</td>
<td>F, Sp</td>
<td>Prerequisite(s): LEGL 1110. Introduces computer technology and its application within the law firm. Teaches the use of computers in paralegal functions in litigation support, case management applications and production of settlement brochures. Includes lab experience using computers and simulated case problems. Completers should qualify to work in jobs requiring case management and automated litigation support.</td>
</tr>
<tr>
<td>LEGL 2410</td>
<td>Law and Banking</td>
<td>2:2:0</td>
<td>On Sufficient Demand</td>
<td>Provides an understanding of banking law including sources of law, bank regulators, court systems, torts and crimes, legal entities of business organizations, contracts, real and personal properties, bankruptcies, and the legal implications of consumer lending. Includes lectures, discussions, and case studies.</td>
</tr>
<tr>
<td>LEGL 281R</td>
<td>Internship</td>
<td>1 to 8:0:5 to 40</td>
<td>Su, F, Sp</td>
<td>Prerequisite(s): Approval from Woodbury 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.</td>
</tr>
<tr>
<td>LEGL 290R</td>
<td>Law Society</td>
<td>1:1:0</td>
<td>F, Sp</td>
<td>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.</td>
</tr>
<tr>
<td>LEGL 3000</td>
<td>Business Law</td>
<td>3:3:0</td>
<td>Su, F, Sp</td>
<td>Prerequisite(s): ENGL 1010. For Woodbury 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.</td>
</tr>
<tr>
<td>LEGL 3020</td>
<td>Cyber Law</td>
<td>3:3:0</td>
<td>On Sufficient Demand</td>
<td>Prerequisite(s): (ENGL 2010 or ENGL 2020) and (LEGL 1000 or CS 1030). Teaches legislation and case law concerning computers, professional responsibilities, risks, and liabilities. Discusses intellectual property rights and responsibilities pertaining to computers. Uses lectures; group, oral, and written presentations; and off-class assignments.</td>
</tr>
<tr>
<td>LEGL 3050</td>
<td>Business Associations</td>
<td>3:3:0</td>
<td>F</td>
<td>Prerequisite(s): LEGL 1000. Provides legal students with an overview of the formation and operation of business enterprises for. Focuses on the legal issues with regards to sole proprietorship, general and limited partnership, limited liability company, and the business corporation. Introduces legal students to the advantages and disadvantages of each form of business enterprise, and teaches how to draft various business-related documents.</td>
</tr>
<tr>
<td>LEGL 3090</td>
<td>Intellectual Property Law</td>
<td>3:3:0</td>
<td>Sp</td>
<td>Prerequisite(s): ENGL 2010 or ENGL 2020, LEGL 1000. Focuses on intellectual property law for legal assistants and paralegals by focusing on trademarks, copyrights, patents and unfair competition, and by examining the legal requirements to create, register or protect private property rights, to understand the scope of those rights and specify the legal remedies available to enforce a client’s rights. Emphasizes practical application of the law for legal assistants through the use of sample forms, contracts and checklists commonly used in the legal profession, assuring that students are familiar with state and federal statutes, legal cases, and important legal precedents necessary for paralegals, and by examining domestic and international trends and tendencies developing in related legal areas.</td>
</tr>
<tr>
<td>LEGL 3100</td>
<td>Hospitality Law</td>
<td>3:3:0</td>
<td>F</td>
<td>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.</td>
</tr>
<tr>
<td>LEGL 3130</td>
<td>Real Estate Principles and Finance</td>
<td>3:3:0</td>
<td>On Sufficient Demand</td>
<td>Fulfills the 45-hour requirement for the multi-state portion of 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 agency, ethics, brokerage functions, property management, economics, real estate finance, appraisal and construction, federal regulations, math and escrow/closing statements. Includes lectures, class, class discussions and videos. This course and LEGL 3140 are needed to take the entire exam.</td>
</tr>
<tr>
<td>LEGL 3140</td>
<td>Utah Real Estate Law</td>
<td>3:3:0</td>
<td>On Sufficient Demand</td>
<td>Fulfills the 30-hour requirement for the Utah portion of the Utah State Real Estate Sales Examination. Includes real estate purchase agreements, Utah licensing laws, disciplinary proceedings, penalties, property taxes, and land use. Covers instruments of finance, lien laws, and landlord-tenant laws. Includes lectures, class discussions, and videos. This course and LEGL 3130 are needed to take the entire exam.</td>
</tr>
<tr>
<td>LEGL 3150</td>
<td>Survey of Dispute Resolution</td>
<td>3:3:0</td>
<td>F</td>
<td>Prerequisite(s): LEGL 1000 or (PSY 1010 or SOC 1010 or SW 1010). 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.</td>
</tr>
<tr>
<td>LEGL 3160</td>
<td>Health Care Law</td>
<td>3:3:0</td>
<td>Sp</td>
<td>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.</td>
</tr>
<tr>
<td>LEGL 3210</td>
<td>Interviewing Techniques and Methods</td>
<td>3:3:0</td>
<td>Sp</td>
<td>Assists students in researching future employment opportunities associated with their current undergraduate studies. Requires research and identification of potential opportunities for current employment, employment upon graduation.</td>
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</tbody>
</table>
Course Descriptions

LEGL 3250 (Cross-listed with: POLS 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.

LEGL 3320  
Family Law  
3:3:0  
• Prerequisite(s): LEGL 1000, ENGL 2010 or ENGL 2020  
Covers family issues and drafting of legal documents relating to domestic litigation. Explores case law related to the marriage contract, divorce, adoption, guardianships, paternity, illegitimacy, and prenuptial agreements. Emphasizes family law document production in domestic cases.

LEGL 3410 (Cross-listed with: SW 3410, PSY 3410, COMM 3410)  
Fundamentals of Mediation and Negotiation  
3:3:0  
• Prerequisite(s): LEGL 1000 or COMM 1050 or (PSY 1010 or SOC 1010 or SW 1010)  
Prepares students to understand and participate knowledgeably on a basic level in the processes of mediation and negotiation. Improves 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.

LEGL 3530 (Cross-listed with: MGMT 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 statues exploring the link between employment discrimination and traditional labor relations law. Presents tools necessary to formulate and write policy for profit and non-profit organizations. Includes lecture, class discussions, case studies, a service learning project, and guest speakers.

LEGL 3650  
Torts and Personal Injury Law  
3:3:0  
• Prerequisite(s): LEGL 1000, ENGL 2010 or ENGL 2020  
Provides instruction in theory and practice of Tort and Personal Injury Law. Successful completers should know and use legal vocabulary and demonstrate an understanding of Tort and Personal Injury Law.

LEGL 3760  
Law Practice Management  
3:3:0  
• Prerequisite(s): LEGL 1010, LEGL 2330  
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 and seek high profit. Promotes high client satisfaction with legal services by using paralegals, legal software applications and current technology.

LEGL 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.

LEGL 4100 (Cross-listed with: SW 4100, PSY 4100, COMM 4100)  
Advanced Mediation and Negotiation  
3:3:0  
• Prerequisite(s): LEGL 3410 or PSY 3410 or COMM 3410 or SW 3410  
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.

LEGL 4130  
Bankruptcy and Collections  
3:3:0  
• Prerequisite(s): LEGL 1000, ENGL 2010 or ENGL 2020  
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  
Probates and Estates  
3:3:0  
• Prerequisite(s): LEGL 1000, ENGL 2010 or ENGL 2020  
Examines purpose and methods of estate planning and the function of the legal assistant in the probate of an estate. Includes lectures and out-of-class projects. Completers should be able to draft simple wills, prepare court documents and correspondence necessary for an estate administration, and prepare basic tax forms.

LEGL 4160  
Contract Law  
3:3:0  
• Prerequisite(s): LEGL 3000 and ENGL 2010 or ENGL 2020 and Matriculation into the Bachelor’s Degree Program  
Provides a functional approach to the Law of Contracts. Teaches analyzing contract problems through a five-step paradigm.

LEGL 4200 (Cross-listed with: PSY 4200, SW 4200)  
Domestic Mediation  
3:3:0  
• Prerequisite(s): LEGL 3410 or PSY 3410 or SW 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 in simulated class role plays.

LEGL 4800 (Cross-listed with: ACC 4800)  
Fraud Examination  
3:3:0  
On Sufficient Demand  
• 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.

LEGL 481R  
Internship  
1 to 8:0.5 to 40  
F, Sp, Su  
• Prerequisite(s): Approval from Woodbury 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 Capstone Course  
3:3:0  
• Prerequisite(s): Matriculation into the Legal Studies Program  
A capstone course for the Bachelor’s Degree in Paralegal 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.

LINE—LINEMAN TECHNOLOGY

LINE 1000  
Survey of Lineman Technology  
2:2:0  
Not 10-11  
An introductory course for those interested in the electrical field with an emphasis on the electrical utility trades. Gives a general overview of the lineman trade and its general course of study. Provides some hands-on experience in wiring procedures, pole framing, circuit testing procedures, and transformer connections.

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 metering, rigging, pole work, care and testing of equipment and distribution. Teaches safety, overhead maintenance, pole framing and guying.

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, guy wires, 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 journeyman 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 1300
Line Clearance Apprentice 1A
5:5:0 On Sufficient Demand
- Prerequisite(s): Departmental written approval
Teaches tree identification and biology, soil relations, water management, nutrition and fertilization, tree problem diagnosis, tree planting and establishment. Covers climbing safety and techniques, public relations, aerial bucket and tree rescue, electrical hazards, chipper and stump grinder safety, operations and maintenance. Includes ISA certification, flagging and traffic control certification and CDL training.

LINE 1310
Line Clearance Apprentice 1B
5:5:0 On Sufficient Demand
- Prerequisite(s): Departmental written approval
Teaches tree identification and biology, soil relations, water management, nutrition and fertilization, tree problem diagnosis, tree planting and establishment. Covers climbing safety and techniques, public relations, aerial bucket and tree rescue, electrical hazards, chipper and stump grinder safety, operations and maintenance. Includes ISA certification, flagging and traffic control certification and CDL training.

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 switchyards, 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 2, 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 ration 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**
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<td>Prerequisite(s): Departmental written approval</td>
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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**
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<td>Prerequisite(s): LINE 1620 or departmental written approval</td>
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</table>

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 2010**
**Lineman 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 2020**
**Lineman 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 2030**
**Lineman 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 2040**
**Lineman 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  
| 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  
| 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  
| 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  
| 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**
4:1:5  
| Prerequisite(s): LINE 1210 and LINE 2310 or departmental approval |

For Lineman Technology majors and apprentice linemen currently working in the lineman 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 2420**
**Powerline Technician and Safety Code III**
4:1:5  
| Prerequisite(s): LINE 1210 and LINE 2310 or departmental approval |

For Lineman Technology majors and apprentice linemen currently working in the lineman 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**
4:2:6  
| Prerequisite(s): LINE 1110, LINE 1210, and LINE 2310 or departmental approval |

For Lineman Technology majors or apprentice linemen working in the lineman 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**
4:0:12  
| 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 by 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**
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<td>Prerequisite(s): Departmental written approval</td>
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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  
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<td>Prerequisite(s): Departmental written approval</td>
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</tbody>
</table>

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  
<table>
<thead>
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Teaches SF6 gas properties and handling, current transformers testing and discharge testing. Covers multimeter operation and testing, infrared conditioning monitoring, corona monitoring, and tests. 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 2530**
**Lineman Substation Apprentice 4B**
6:6:0  
<table>
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<td>Prerequisite(s): Departmental written approval</td>
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Teaches SF6 gas properties and handling, current transformer testing and discharge testing. Covers multimeter operation and testing, infrared conditioning monitoring, corona testing, and tests. 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 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.

LINE 281R
Cooperative Work Experience
1 to 8:0:0 to 40 Su, F, Sp
- Corequisite(s): LINE 285R
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.

LINE 285R
Cooperative Correlated Class
1:1:0 Su, F, Sp
- Corequisite(s): LINE 281R
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 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.

MAT—Mathematics - Developmental

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 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.

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
An accelerated preparatory class for MAT 1010, Intermediate Algebra, covering Pre-Algebra and Beginning Algebra in one semester. Topics of study include real numbers, algebraic expressions, polynomials, solving and graphing linear equations and inequalities, factoring, quadratic equations, rational expressions and equations, ratios, percents, systems of linear equations, roots and radicals, and an introduction to complex numbers.

MAT 1000
Integrated Beginning and Intermediate Algebra
5:5:0 GM 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
Teaches Beginning and Intermediate Algebra in one semester. Includes linear, quadratic, and rational expressions, equations, and functions; systems of equations; logarithms; exponents; graphing; and problem solving. Prepares students for MAT 1030, 1040, and 1050.

MAT 1010
Intermediate Algebra
4:4:0 GM 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
Expands and covers in more depth basic algebra concepts introduced in Beginning Algebra. Topics of study include linear and quadratic equations and inequalities, polynomials and rational expressions, radical and exponential expressions and equations, complex numbers, systems of linear and nonlinear equations, functions, conic sections, and real world applications of algebra.

MATH—Mathematics

MATH 1030
Quantitative Reasoning
3:3:0 QL 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
Introduces major topics in the field of mathematics. Includes sets, algebra, geometry, and statistics. Emphasizes problem solving and critical thinking.

MATH 1040
Introduction to Statistics
3:3:0 QL 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
An elementary statistics course. Includes descriptive statistics, sampling, and inferential methods. Emphasizes problem solving and critical thinking.

MATH 1050
College Algebra
4:4:0 QL 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
Course Descriptions

Accuclacer test
Includes inequalities, functions and their graphs, polynomial and rational functions, exponential and logarithmic functions, conic sections, systems of linear and nonlinear equations, matrices and determinants, arithmetic and geometric sequences, mathematical induction, the Binomial Theorem, permutations and combinations, and an introduction to probability.

MATH 1060 Trigonometry
3:3:0 GM
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 the unit circle and right triangle definitions of the trigonometric functions, graphing trigonometric functions, trigonometric identities, trigonometric equations, inverse trigonometric functions, the Law of Sines and the Law of Cosines, vectors, complex numbers, polar coordinates, and rotation of axes.

MATH 1065 Precalculus
5:5:0 On Sufficient Demand
Prerequisite(s): MATH 1050 and MATH 1060
Provides a review of algebra and trigonometry for students who have been out of school for some time. Reviews the mathematical concepts taught in MATH 1050 and MATH 1060. Students who choose to apply MATH 1065 toward graduation cannot also count MATH 1050 and MATH 1060.

MATH 1100 Introduction to Calculus
4:4:0
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 limits and continuity, differentiation techniques, applications of differentiation, exponential and logarithmic functions, integration techniques, applications of integration, functions of several variables, and Lagrange multipliers.

MATH 1210 Calculus I
5:5:0
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)
Includes limits and continuity, differentiation, applications of differentiation, integration, applications of integration, derivatives of the exponential functions, logarithmic functions, inverse trigonometric functions, and hyperbolic functions, and related integrals. Prerequisite for calculus-based sciences.

MATH 121H Calculus I
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; 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)
Includes limits and continuity, differentiation, applications of differentiation, integration, applications of integration, derivatives of the exponential functions, logarithmic functions, inverse trigonometric functions, hyperbolic functions, and related integrals. Prerequisite for calculus-based sciences.

MATH 1220 Calculus II
5:5:0
Prerequisite(s): MATH 1210 with a grade of C or better within the past two years
Includes arc length, area of a surface of revolution, moments and centers of mass, integration techniques, sequences and series, parametrization of curves, polar coordinates, vectors in 3-space, quadric surfaces, and cylindrical and spherical coordinates. Prerequisite for calculus-based sciences.

MATH 122H Calculus II
5:5:0 F, Sp
Prerequisite(s): MATH 1210 with a grade of C or better within the past two years
Includes arc length, area of a surface of revolution, moments and centers of mass, integration techniques, sequences and series, parametrization of curves, polar coordinates, vectors in 3-space, quadric surfaces, and cylindrical and spherical coordinates. Prerequisite for calculus-based sciences.

MATH 1220H Calculus II
5:5:0
Prerequisite(s): MATH 1220 with a grade of C or better
Includes arc length, area of a surface of revolution, moments and centers of mass, integration techniques, sequences and series, parametrization 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
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
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
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 2220 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 221H Calculus III
3:3:0
Prerequisite(s): MATH 2220 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 2220 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 9:1:5 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 2220 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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Offered</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 3020</td>
<td>Computer-Based Mathematics for Secondary School Mathematics Teachers</td>
<td>3:0</td>
<td>F</td>
<td>• 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</td>
</tr>
<tr>
<td>MATH 3100</td>
<td>Foundations of Geometry</td>
<td>3:0</td>
<td>F</td>
<td>• Prerequisite(s): MATH 1220 with a grade of C or better</td>
</tr>
<tr>
<td>MATH 3140</td>
<td>Probability and Statistics for Engineering and the Sciences</td>
<td>3:0</td>
<td>F</td>
<td>• Prerequisite(s): MATH 2040 and MATH 2210, both with a grade of C or better</td>
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<tr>
<td>MATH 3200</td>
<td>Foundations of Analysis</td>
<td>3:0</td>
<td>Su</td>
<td>• Prerequisite(s): MATH 2210, MATH 2270, and MATH 2280, each with a grade of C or better</td>
</tr>
<tr>
<td>MATH 3210</td>
<td>Complex Variables</td>
<td>3:0</td>
<td>On Sufficient Demand</td>
<td>• Prerequisite(s): MATH 2210 with a grade of C or better</td>
</tr>
<tr>
<td>MATH 3300</td>
<td>Foundations of Abstract Algebra</td>
<td>3:0</td>
<td>Sp</td>
<td>• Prerequisite(s): MATH 2210 and MATH 2270, each with a grade of C or better</td>
</tr>
<tr>
<td>MATH 3400</td>
<td>Partial Differential Equations</td>
<td>3:0</td>
<td>Sp</td>
<td>• Prerequisite(s): MATH 2280 with a grade of C or better</td>
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<tr>
<td>MATH 3450</td>
<td>Foundations of Topology</td>
<td>3:0</td>
<td>On Sufficient Demand</td>
<td>• Prerequisite(s): MATH 1220 with a grade of C or better</td>
</tr>
<tr>
<td>MATH 3500</td>
<td>Applied Regression and Time Series</td>
<td>4:0</td>
<td>On Sufficient Demand</td>
<td>• Prerequisite(s): MATH 2040 minimum grade C, Provides students in non-mathematical disciplines</td>
</tr>
<tr>
<td>MATH 3570</td>
<td>Mathematical Statistics I</td>
<td>3:0</td>
<td>On Sufficient Demand</td>
<td>• Prerequisite(s): MATH 1220 or FIN 3100 both with a grade of C or better</td>
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<tr>
<td>MATH 3600</td>
<td>Introduction to Probability</td>
<td>3:0</td>
<td>On Sufficient Demand</td>
<td>• Prerequisite(s): MATH 2210 with a grade of C or better</td>
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<tr>
<td>MATH 3610</td>
<td>Actuarial Problems Laboratory</td>
<td>3:0</td>
<td>On Sufficient Demand</td>
<td>• Prerequisite(s): MATH 2210 and MATH 2270, each with a grade of C or better</td>
</tr>
<tr>
<td>MATH 3800</td>
<td>Advanced Calculus I</td>
<td>3:0</td>
<td>On Sufficient Demand</td>
<td>• Prerequisite(s): MATH 3200 with a grade of C or better</td>
</tr>
<tr>
<td>MATH 3820</td>
<td>Advanced Calculus II</td>
<td>3:0</td>
<td>On Sufficient Demand</td>
<td>• Prerequisite(s): MATH 4210 with a grade of C or better</td>
</tr>
<tr>
<td>MATH 4370</td>
<td>Theory of Linear Algebra</td>
<td>3:0</td>
<td>On Sufficient Demand</td>
<td>• Prerequisite(s): MATH 3300 with a grade of C or better</td>
</tr>
<tr>
<td>MATH 4380</td>
<td>Introduction to Number Theory</td>
<td>3:0</td>
<td>On Sufficient Demand</td>
<td>• Prerequisite(s): MATH 1220 with a grade of C or better</td>
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<tr>
<td>MATH 4390</td>
<td>Introduction to Topology</td>
<td>3:0</td>
<td>On Sufficient Demand</td>
<td>• Prerequisite(s): MATH 2210, MATH 2270, and MATH 2280, each with a grade of C or better, and an approved programming language</td>
</tr>
<tr>
<td>MATH 4400</td>
<td>Introduction to Numerical Analysis</td>
<td>3:0</td>
<td>On Sufficient Demand</td>
<td>• Prerequisite(s): MATH 2210, MATH 2270, and MATH 2280, each with a grade of C or better</td>
</tr>
<tr>
<td>MATH 4410</td>
<td>Introduction to Numerical Analysis II</td>
<td>3:0</td>
<td>On Sufficient Demand</td>
<td>• Prerequisite(s): MATH 4610 with a grade of C or better</td>
</tr>
<tr>
<td>MATH 4420</td>
<td>Mathematical Statistics I</td>
<td>3:0</td>
<td>On Sufficient Demand</td>
<td>• Prerequisite(s): MATH 2210 with a grade of C or better</td>
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</tbody>
</table>
functions, and order statistics.

MATH 4720
Mathematical Statistics II
3:3:0 Su, F, Sp
• Prerequisite(s): MATH 4710 with a grade of C or better
Continuation of MATH 4710. Includes estimation, sufficiency, completeness, hypothesis testing, statistical inference with the normal distribution, and Bayesian statistics.

MATH 4750
Life Contingencies
3:3:0 On Sufficient Demand
• Prerequisite(s): MATH 4710 with a grade of C or better
Includes survival models, Markov Chains, life insurance and annuities, and Poisson processes. Prepares students for the life contingencies portion of Exam M of the Society of Actuaries.

MATH 481R
Internship in Mathematics
1 to 4:0 to 20 Su, F, Sp
• Prerequisite(s): Instructor Approval
For mathematics majors. Provides mathematics-related work experience in an industrial, commercial, or research environment. Internship credit may not be used in fulfilling the mathematics major course requirements. May be taken two times for a maximum of 6 credits, and is graded credit or no credit.

MATH 490R
Topics in Mathematics
2 to 3:2 to 3:0 On Sufficient Demand
• Prerequisite(s): Departmental approval
Studies a chosen topic in mathematics. The topic will vary depending upon student demand. Course may be taken more than once for different topics and for a maximum of 6 credit hours counted toward graduation.

MECH 1010
Introduction to Mechatronics
3:2:2
• Pre- or Corequisite(s): Math 1050
Introduces students to the field of Mechatronics. Uses electronic and mechanical design, prototyping, and construction of mechatronic systems. Uses LEGO Mindstorms kits and Erector set parts to construct mechatronic robots and machines.

MECH 1020
Mechanical Systems
3:2:2
• Prerequisite(s): MECH 1010
Provides an introduction to a variety of mechanical devices utilized in mechanical, electro mechanical, and mechatronic systems.

MECH 1510
Software Tools for Mechatronics
3:3:0
• Prerequisite(s): CS 1400 or equivalent
Covers graphical programming tools for mechatronics systems. Focuses on data flow programming where data determine execution.

Develops applications to communicate with remote data-generating sites.

MECH 1800
Basic Electronics AC and DC
4:3:2
• Prerequisite(s): MECH 1010
Covers fundamental AC/DC concepts. Studies basic electrical physics, AC/DC sources, resistance, basic circuits and laws, capacitance, inductance, transformers, impedance, resonance, and filters.

MECH 2030
Sensor Technology
3:2:2
• Prerequisite(s): MECH 1800
Covers electromagnetic sensors and electromechanical actuators, magnetic sensors, transducers, encoders, inductive sensors, and other sensor devices used in mechatronic systems.

MECH 2040
Control Technology
3:2:2
• Prerequisite(s): MECH 1020, MECH 2030, MECH 2520
Covers stepping motors, DC motors, induction motors, linear actuators, fuzzy logic, control schemas, control tuning, digital control, and intelligent control systems.

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, actuation systems, controllers, input/output systems, and communications systems.

MET 1100
Introduction to Manufacturing Engineering Technology
2:1:3 F, Sp
Introduces technological directions of manufacturing, wage scales, advancement opportunities, and job-hunting skills in student’s preferred manufacturing field. May include guest speakers, field trips, and labs.

MET 1300
Drafting/Blueprint Reading/Geometric Dimensioning and Tolerancing
2:1:3
• Prerequisite(s): MECH 2530, EENG 2700
Studies mechanical and structural blueprint reading as it applies to the manufacturing environment. Teaches dimensioning and tolerancing, including the symbols and terms, datums, materials condition symbols, form and profile, orientation and run-out and location. Includes lab.

MET 1350
Related Machine Shop Practice
2:1:3
• Prerequisite(s): MECH 1020, MECH 2250
For students of majors other than Machine Tool Technology. Covers basic machine tool operation principally on the engine lathe. Includes turning, boring, drill sharpening, tool bit grinding, taper cutting, facing, hole formation, threading both internal and external, and simple tool design.

MET 1400
Industrial Maintenance 3A
5:5:0 On Sufficient Demand
• 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 run-out, and location.
MET 1500
Hydraulics and Pneumatics
3:2:3
Sp
Teaches 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, troubleshooting techniques and blue-print reading. Successful completers should be able to work with hydraulic and pneumatic systems in correlation with related industrial electrical applications. Includes lecture, demonstrations and lab work.

MET 1800
Engineering Materials
4:2:6
F
- Prerequisite(s): PHYS 2010
Teaches properties and principles of material cycle, solid materials, metallic materials, polymeric materials, plastics, elastomers, adhesives, ceramics, composites and electronic materials. Studies principles of tensile, compression, flexure, shear, hardness, impact, fatigue and non-destructive testing. Includes proper selection of materials through analysis, testing and pricing. Includes lab.

MET 2400
Manufacturing Processes
5:2:9
F
Teaches principles of production equipment and concurrent processes. Includes machining, metal casting, powder metallurgy, joining of metals, sheet metal, plastics, machine shop practices and principles and cutting. Involves cost estimating, design for assembly, CAM, lean manufacturing, automation and environmentally-conscious manufacturing. Includes the technological limitations. Includes lab.

MET 281R
Cooperative Work Experience
1 to 8:9:5 to 40
Sp
- Prerequisite(s): EGD 2600, ENGL 1010, ENGL 2020, MET 1300, MET 2400
- Corequisite(s): MET 285R
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.

MET 285R
Cooperative Correlated Class
1:1:0
F, Sp
- Prerequisite(s): EGD 2600, ENGL 1010, ENGL 2020, MET 1300, MET 2400
- Corequisite(s): MET 281R
Identifies on-the-job problems and provides remediation of those problems through in-class discussion and study. Includes the study of identifying and maximizing service opportunities. Students register for this class with approval of the Cooperative Coordinator. Includes lecture, guest speakers, video tapes, role playing, case analysis, oral presentations and written assignments. Completers should be better able to perform in their field of work or study.

MET 295R
Current Topics in Manufacturing Engineering Technology
1 to 4:1 to 4:0 to 6 F
- Prerequisite(s): EGD 2600, ENGL 1010, ENGL 2020, MET 1300, MET 2400
Prerequisite(s): EGDT 2600, ENGL 1010, ENGL 2020, MET 1300, MET 2400
Corequisite(s): MET 281R
Identifies on-the-job problems and provides remediation of those problems through in-class discussion and study. Includes the study of identifying and maximizing service opportunities. Students register for this class with approval of the Cooperative Coordinator. Includes lecture, guest speakers, video tapes, role playing, case analysis, oral presentations and written assignments. Completers should be better able to perform in their field of work or study.

MGMT—BUSINESS MANAGEMENT

MGMT 1010
Introduction to Business
3:3:0
SS
Su, F, Sp
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
On Sufficient Demand
For students desiring an advanced course in the organization and operation of the modern manufacturing company. Focuses on quality in manufacturing.

METO—METEOROLOGY

METO 1010
Introduction to Meteorology
3:3:0
PP
Su, F, Sp
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
F
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.
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  
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  
Phi 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.  
Incorporates 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  
one time for a maximum of two credits.

MGMT 2020  
**Microeconomics**  
3:3:0  
F, Sp  
- Prerequisite(s): MGMT 2020  
  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.

MGMT 2030  
**Women in Business**  
3:3:0  
Su, F, Sp  
- 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 Communications**  
3:3:0  
Su, F, Sp  
- Prerequisite(s): Recommended: ENGL 1010 with  
a grade of  
  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 220A  
**Business Communications**  
1:1:0  
On Sufficient Demand  
- Prerequisite(s): ENGL 1010 with a grade of  
  Teaches 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 220B  
**Business Communications**  
2:2:0  
On Sufficient Demand  
- Prerequisite(s): ENGL 1010 with a grade of  
  Teaches written correspondence using direct and  
  indirect approaches. Emphasizes basic language  
  utilization. Includes application of communication  
  principles to business writing situations. Does not  
satisfy English requirement for School of Business  
  Majors.

MGMT 220H  
**Business Communications**  
3:3:0  
On Sufficient Demand  
- Prerequisite(s): ENGL 1010 with a grade of C- or  
  higher  
  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 2240  
**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  
OSD  
- 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  
- 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 295R 
Current Issues 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 8:10 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.

MGMT 294R 
Current Issues in Utah Business 
1:1:0 
On Sufficient Demand
Focuses on current issues in Utah business. Covers a single issue in each weekly television broadcast; uses supporting internet materials to expose students to timely issues facing the Utah business community. May be repeated for a maximum of three credits toward graduation.

Course Descriptions

MGMT 295R 
Executive Lecture Series 
0.5:0.5:0 
F, Sp
Consists of lectures presented by guest speakers on current business topics concerning the student, community, nation, business world, etc. May be required; see program listings for details. Can be taken as many times as desired for interest.

MGMT 297H 
Honors Seminar in Leadership Development 
3:3:0 
On Sufficient Demand
Focuses on leadership effectiveness and skill development in organizations. Features lectures on topics such as leadership, participative management, negotiations, team building, and women's issues by local experts in a seminar setting. Includes group interaction and discussions, written summaries and instructor critique of student performance.

MGMT 3000 
Organizational Behavior 
3:3:0 
F, Sp
Prerequisite(s): ENGL 1010
Studies behavioral theories and concepts for creating effective organizations. Deals with knowledge of individual, group, and organizational processes and variables focusing on people's attitudes and behaviors in organizational settings. Presents topics on communication, leadership, motivation, conflict management, socialization, team building, decision making, diversity, ethics, and culture. Includes lectures, case studies, oral presentations, written assignments, and group projects.

MGMT 3010 
Principles of Management 
3:3:0 
Su, F, Sp
Prerequisite(s): MGMT 2200
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 impact of globalization on the management process. Develops student's knowledge of team dynamics and student's individual team skills.

MGMT 3070 
Total Quality Management 
3:3:0 
On Sufficient Demand
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 
3:3:0 
F, Sp
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 
3:3:0 
F, Sp
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 business as well as the interaction between these elements. Covers legal aspects of operating a business.

MGMT 3190 
Entrepreneurship Financing Ventures 
3:3:0 
Su, F, Sp
Provides non-business students an overview of financial modeling for entrepreneurship and small business, as well as the sources and processes involved in financing new ventures. Course teaches financial management, proforma financial statements, cash flow, bootstrapping, and debt and equity financing in an entrepreneurial environment.

MGMT 3200 
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 economics.

MGMT 3210 
Convention and Events Management 
3:3:0 
F
Prerequisite(s): ENGL 2010 or ENGL 2020
(Cross-listed with: HM 3210)
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 3220 
Retail Management 
3:3:0 
On Sufficient Demand
Prerequisite(s): MGMT 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.
Course Descriptions

MGMT 330G
Survey of International Business
3:3:0  Su, F, Sp
- Prerequisite(s): ENGL 2010 or ENGL 2020 or MGMT 2200 and ECON 2010

Teaches international business, trade and foreign investment, and theories of international trade. Studies economic development, international investment and international agencies (government and private) that affect international business by informing, regulating or financing. Develops an appreciation of the unpredictable forces of foreign environments. Explores how international businessmen respond to these influences.

MGMT 332G  (Cross-listed with: COMM 332G)
Cross-Cultural Communications for International Business
3:3:0  F, Sp
- 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 335G
International Marketing
3:3:0  F
- Prerequisite(s): MGMT 3600 and MGMT 330G

Presents the problems of marketing in the international marketplace and how marketers approach and solve them. Focuses on concepts and principles by teaching the theory and practice of international marketing through the use of practical examples and actual case studies of international (both US and foreign) marketing organizations. Includes international marketing position of the US, market entry strategies, analysis of foreign markets, culture and marketing, product design, pricing, distribution, promotion and sales.

MGMT 3390
Business and Professional Presentations
3:3:0  On Sufficient Demand
- Prerequisite(s): MGMT 2200 and complete one of the following: DGM 3820, DGM 2010, DGM 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
3:3:0  Su, F, Sp
- Prerequisite(s): ENGL 2010 or ENGL 2020

Covers labor and management relations, legal issues, job analysis and design, recruiting and selecting, job placement and orientation, training, career planning, EEO, performance appraisal, and employee benefits. Presents tools for the implementation of a human resource management program. Includes class discussions, case studies, videos, oral presentations, written assignments, group projects, and guest speakers.

MGMT 3440
Managing Organizations
3:3:0  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 3450
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 Process
3:3:0  Sp
- Prerequisite(s): MGMT 1250

Required course for Integrated Studies Degree students with an emphasis in Leadership. Examines leadership theory by practice and application. Includes cases and group activities.

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 3600  (Cross-listed with: MGMT 3601)
Principles of Marketing
3:3:0  Su, F, Sp
- 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 analysis, lectures, class discussions, videos, oral presentations, written assignments, and guest speakers.

MGMT 3620
Consumer Behavior
3:3:0  F
- Prerequisite(s): MGMT 3600, MGMT 2340, and Matriculation into the Business Management Bachelor’s Degree Program

For bachelor’s degree business management majors; elective credit for other School of Business majors. 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.

MGMT 3630
Services Marketing
3:3:0  Sp
- Prerequisite(s): MGMT 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.

MGMT 3650
Selling and Sales Management
3:3:0  F, Sp
- Prerequisite(s): Matriculation into the Business Management Bachelor’s Degree Program

For the bachelor’s degree business management majors; elective credit for other School of Business majors. 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.

MGMT 3660 Internet Marketing 3:3:0 F, Sp
• Prerequisite(s): MGMT 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.

MGMT 3670 Advertising and Promotion 3:3:0 Sp
• Prerequisite(s): MGMT 3600 and Matriculation into the Business Management Bachelor’s Degree Program
For Bachelor’s Degree Business Management majors; elective credit for other School of Business majors. 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.

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 4230 Entrepreneurship Business Planning 3:3:0 F, 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 4240 Entrepreneurship Enterprise Formation 3:3:0 Sp
• Prerequisite(s): MGMT 4200 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 4300 Entrepreneurship Business Planning 3:3:0 On Sufficient Demand
• 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 459R 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 4600 Marketing Research 3:3:0 F
• Prerequisite(s): MGMT 3600, MGMT 2340
Covers managerial uses of marketing research in formulating marketing strategy. Includes determination of situations requiring research,
Course Descriptions

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.

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 3530 recommended
Addresses the key HR functions of planning, staffing, and maintaining a quality workforce. Includes identifying critical specifications for filling positions, recruiting a pool of talent, developing selection methods, and creating desirable person/job matches.

MGMT 4650 Strategic Marketing
3:3:0 Su, F, Sp
- Prerequisite(s): Matriculation into any Woodbury School of Business Bachelor program
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.

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
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 5:0.5 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, MGMT 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 490R 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, 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
course text
tunities 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 F
- 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 Sp
- 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 F, Sp
- 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 departmental approval.

MILS 4200
The Profession of Arms I
3:3:0 F
- 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 Sp
- Prerequisite(s): MILS 4200 or Departmental Approval
- Corequisite(s): MILS 445R
Prepares the prospective officer for successful completion of Army assignments. Includes advanced U.S. Army leadership training, training management, military justice and law, pre-commissioning orientation, military briefing skills, and junior officer leadership.

MILS 445R
Transition to Officership
1:0:3 F, Sp
- 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.

### MTT — MACHINE TOOL TECHNOLOGY

**MTT 1110 Machine Tool I**
5:5:0 F
For first semester students. Teaches the manufacture of metal parts using machine tool operations. Studies theorectical operations of the engine lathe, drill press, pedestal grinder, and vertical milling machine. Includes lecture, discussion and demonstrations.

**MTT 1120 Machine Tool Shop I**
5:0:15 Sp
Teaches the manufacture of metal parts using machine tool operations. Covers "hands-on" operations of the engine lathe, drill press, pedestal grinder, and vertical milling machine. Studies all common operations done on a metal cutting lathe, and a basic introduction of the vertical milling machine. Includes demonstrations, practical applications and labs. Completers should have entry skills for the machine tool industry. Also offered over two semesters as MTT 112A and MTT 112B. See advisor for details.

**MTT 1150 Machine Tool Mathematics/Measurement**
4:4:0 On Sufficient Demand
- Prerequisite(s): Department Approval based upon assessment math score
For first semester students. Reviews fractions, decimals, percentages, ratio and proportion, transposing formulas, and areas and volumes. Covers right angle trigonometry, plane geometry, and oblique trigonometry.

**MTT 1210 Machine Tool II**
5:5:0 F
- Prerequisite(s): MTT 1110, MTT 1120, MTT 1150; EGDT 1000
For second semester students. Covers advanced machining principles dealing with threads, gear cutting, CNC, basic metallurgy tool building, and design. Includes operation theory of band saw machinery, shapers, grinders, turret lathes. Improves skills on engine lathes and vertical milling machines. Uses lectures, discussions and demonstrations. Also offered over two semesters as MTT 112A and MTT 112B. See advisor for details.

**MTT 1220 Machine Tool Shop II**
5:0:15 Sp
- Prerequisite(s): MTT 1110, MTT 1120, and MTT 1150
Teaches advanced operation of vertical milling machines. Introduces operation of horizontal milling machines, grinders, shapers, and turret lathes. Includes the combining of machine operations for the manufacturing of products. Teaches on-call response to customer job demand. Includes "hands-on" experience and demonstrations. Also offered over two semesters as MTT 122A and MTT 122B. See advisor for details.

**MTT 2310 Precision Manufacturing**
2:0:6 F, Sp
- Prerequisite(s): First-year MTT program or equivalent
For second year students who have finished the courses covering basic machining operations. Improves skills through production of marketable items. Studies cost effectiveness through time and cost figure exercises.

**MTT 2430 CNC Operations**
5:2:9 F, Sp
- Prerequisite(s): MTT 2330
For students seeking careers in CNC programming and operation. Introduces programming techniques such as conversational, G and M code, and APT. Studies CAM software and how to generate code for CAM machines. Successful completers should be able to generate a process plan, tool list, and a working program to produce the part from a print. Also offered over two semesters as MTT 112A and MTT 112B. See advisor for details.

**MTT 2440 Die and Mold Making**
6:3:9 On Sufficient Demand
- Prerequisite(s): MTT 1110, MTT 1120, MTT 1150, MTT 2330
- Corequisite(s): MTT 1210, MTT 1220
Covers the design and construction of plastic and sheet metal production tools. Identifies types of plastics and their applications as used in design and manufacturing. Includes set up and operation of injection mold machines. Covers theory of sheet metal punch and die work. Includes hands-on application of die design with components necessary to produce and form sheet metal parts. Students design and build plastic injection molds, using EDM, CNC and conventional machine tools. Completers should be able to enter the field as a trainee mold maker.
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 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
Studies the fundamentals of music theory including elementary harmony, primary and secondary triads with inversions, non-harmonic tones and modulation.

MUSC 1110 Music Theory II 3:3:0 Sp
- Prerequisite(s): MUSC 1110
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
Provided training in the aural identification of intervals and triads. Practices rhythm dictation in simple meters, and melodic dictation of simple melodies. Studies the solfège movable “Do” system in major keys with coordinating Kodaly hand signs.

MUSC 1140 Aural Skills II 1:1:1 Sp
- Prerequisite(s): MUSC 1130
- Corequisite(s): MUSC 1120
Provides further training in the aural identification of intervals and triads. Practices rhythm dictation in simple and compound meters, and melodic dictation in major and minor keys. Studies the solfège movable “Do” system in major and minor keys with coordinating Kodaly hand signs.

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 1:2:0 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 160R Private Lessons for Nonmusic Majors 1:1:0 F, Sp, Su
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, saxophone including tone production, articulation, registers and fingerings. Studies pedagogical processes, methods and literature. Covers strategies for the recruitment and organization of a band program. Discusses instrument selection and maintenance, reeds and accessories.
Course Descriptions

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, Sp
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 solfegio movable “Do” system in 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 baton technique, score reading, interpretation and rehearsal.

MUSC 2400
Recording Studio I
2:1:2 F, Sp
• Prerequisite(s): MUSC 1120, MUSC 1140
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
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.
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 281R
Internship in Music I
1 to 8:0:5 to 4 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 approval of final evaluation. May be repeated for a total of 8 credits towards graduation.

MUSC 289R
Internship in Music II
1 to 8:0:5 to 4 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 approval of final evaluation. May be repeated for a total of 8 credits towards graduation.

MUSC 3050
Film Scoring
3:3:0 F, Sp
• Prerequisite(s): MUSC 1200, 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, temp tracks, digital mockups and production demos, recording and mixing film music, copyright and contractual concerns, developing a portfolio of musical scoring work. Activities include lecture/discussion of theoretical principles, analysis of masterworks in the film music genre, and production of a student-scored film/video clip.

MUSC 3060
Advanced Keyboard Skills
2:2:0 F, Sp
• Prerequisite(s): MUSC 1160 or MUSC 450R
Provides advanced study in piano technique, sight-reading, and ensemble skills. Develops pedagogical skills through masterclasses and teaching beginners.

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 Instrumental 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 to 4 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 323R
Womens Chorus Treble Singers
1:0:2 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
Symphony Band
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, tours and acquisition of performance attire. May be repeated as desired.

MUSC 331R
Percussion Ensemble
1:0:3 F, Sp
• Prerequisite(s): Audition
Provides percussion ensemble experience.
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 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
- 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)
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. Discusses 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
1:0:0 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 3451
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 4150 Advanced Choral Conducting
2:2:0 Sp
- Prerequisite(s): MUSC 2350, MUSC 3451
Studies the knowledge and skills learned in the tonal music theory classes.

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 to 3:0:3 to 9 F, Sp
- Corequisite(s): MUSC 450R
Provides experience performing scenes from opera. Explores the techniques of dramatic characterization and stage craft. Teaches proficiency in the International Phonetic Alphabet as it applies to English diction. Practices the diction of one or more additional languages (Italian, French, or German). Discusses the control of performance anxiety. May be repeated as desired.

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 4360**
**Wind Band Literature and Methods**
2:2:1 F

- Prerequisite(s): MUSC 2350, MUSC 3451
- Studies literature, methodology, and administration of school band program. Includes field work in the public schools.

**MUSC 4370**
**Orchestra Literature and Methods**
2:2:1 Sp

- Prerequisite(s): MUSC 2350, MUSC 3451 or instructor's permission
- Studies literature, methodology, and administration of a school orchestra program. Includes field work in the public schools.

**MUSC 450R**
**Private Lessons for Music Majors**
1:1:1 F, Sp, Su

- Prerequisite(s): Four semesters of 250R on major instrument. Passing fourth semester sophomore review.
- 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 twelve hours of practice each week. For music majors only. May be repeated as desired.

**MUSC 4600**
**Jazz Improvisation**
1:1:1 F

- Prerequisite(s): MUSC 1120
- Develops jazz improvisational skills for instrumental and vocal jazz performance. Emphasizes chords related to 12-bar blues and simple song using II-V-I chord progressions. Develops skills through a program of systematic exposition and utilization of fundamental musical structures.

**MUSC 4800**
**Senior Recital**
2:0:0 F, Sp, Su

- Corequisite(s): MUSC 450R
- Provides a solo recital experience for students during their senior year.

**MUSC 481R**
**Internship in Music II**
1 to 8:0:5 to 40 F, Sp, Su

- Prerequisite(s): Departmental Approval
- Provides an opportunity for upper-division students to receive college credit and work in a music-related field. Offers students the opportunity to focus on a specific career path and prepare themselves to enter the profession. Applies academic concepts to actual work experiences. Requires approval of faculty sponsor and completion and acceptance of application. Also requires completion of an orientation, completion of Master Agreement between UVU and employer, completion of goals and tasks as required by academic department, and completion of final evaluation. May be repeated for a total of 8 credits toward graduation.

**MUSC 490R**
**Advanced Independent Study**
1 to 3:0:3 to 9 F, Sp, Su

- Prerequisite(s): MUSC 3120
- Individual projects to be negotiated by student and instructor on a case-by-case basis. May be repeated for a maximum of 12 credits toward graduation.

**MUSC 492R**
**Advanced Topics in Music**
1 to 3:1 to 3:0 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**
2:0:2 F

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 2110**
**Concepts of Nursing IV**
7:3:12 F, Sp

- Prerequisite(s): Departmental approval
- Integrates planning and management of holistic patient care. Identifies, implements, and evaluates interventions designed to address patients’ needs in a variety of settings. Examines cultural diversity and ethnicity when planning appropriate nursing care. Incorporates promotion, maintenance, and restoration of health. Includes supervision, delegation, and evaluation of the nursing care team.

**NURS 2120**
**Issues in Nursing**
1:1:0 F, Sp

- Prerequisite(s): Department approval
- Corequisite(s): NURS 2110
- Discusses scope of practice, management skills, and roles of the Registered Nurse as a member of the interdisciplinary health care team. Explores contemporary issues in nursing practice.

**NURS 2300**
**Nursing Health Assessment**
3:2:3 Su, F, Sp

- Prerequisite(s): Acceptance into ASN/BS Nursing program
- Corequisite(s): NURS 2320
- Applies nursing assessment, diagnosis and interprofessional needs in the context of the nursing process.

**NURS 2301**
**Nursing Pharmacology**
3:3:0 Su, 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 2320**
**Nursing Interventions**
4:2:6 Su, F, Sp

- Prerequisite(s): Acceptance into ASN/BS Nursing program
- 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 2400**
**Clinical Reasoning in Nursing**
2:2:0 F, Sp

- Prerequisite(s): NURS 2300, NURS 2310
- Corequisite(s): NURS 2420
- Focuses on implementation of nursing process with adults experiencing common physiological problems. Integrates concepts of health assessment, health promotion, pharmacology, and clinical reasoning in providing a holistic, collaborative approach to client care in a variety of clinical settings, including laboratory simulation, inpatient medical-surgical and peri-operative units.

**NURS 2410**
**Nursing Care of Adults with Common Disorders**
4:2:6 Su, F, Sp

- Prerequisite(s): NURS 2300, NURS 2310
- Corequisite(s): NURS 2420
- Focuses on implementation of nursing process with adults experiencing common physiological problems. Integrates concepts of health assessment, health promotion, pharmacology, and clinical reasoning in providing a holistic, collaborative approach to client care in a variety of clinical settings, including laboratory simulation, inpatient medical-surgical and peri-operative units.

**NURS 2420**
**Nursing Care of Older Adults**
2:2:0 Su, F, Sp

- Prerequisite(s): NURS 2300, NURS 2310
- Corequisite(s): NURS 2410
- Introduces the aging process and normal changes with aging. Identifies special needs of older adults and nursing interventions to meet those needs. Includes care of older adults with chronic illnesses and end-of-life care. Prepares nurses who are competent to meet needs of the growing elderly population, using concepts and nursing roles established in ANA’s.

**NURS 2430**
**Nursing Care of Persons with Psychiatric Disorders**
3:2:3 Su, F, Sp

- Prerequisite(s): NURS 2300, NURS 2310
- Examines neurobiological basis of psychiatric disorders of cognition, mood and behavior. Explores trends in care of persons with psychiatric disorders. Applies nursing assessment, diagnosis and intervention for individuals with psychiatric disorders, in both community and inpatient settings, using clinical simulation as well as clinical practicum.

**NURS 281R**
**Nursing Internship**
1 to 6:0:5 to 30 Su, F, Sp

- 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 295R  
Independent Study in Nursing  
1 to 4:1 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  
Su, 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  
3:2:3  
Su, F, Sp  
- Prerequisite(s): NURS 2410  
Builds on concepts learned in previous and concurrent courses to provide nursing care to families in the reproductive years. Emphasizes the child-bearing family, including physiological and psychosocial adaptation to pregnancy, birth, and the immediate newborn period, and disorders of the reproductive patient. Integrates nursing process in providing a holistic, collaborative approach to clients and families in secondary and tertiary settings such as physician offices, labor and delivery, mother/baby, clinical simulation, and others.

NURS 3320  
Nursing Care of Child Rearing Families  
3:2:3  
Su, F, Sp  
- Prerequisite(s): NURS 2410  
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. Safely applies the nursing process to meet common health problems of children from infancy through adolescence in clinical settings ranging from the laboratory to intensive care.

NURS 3330  
Nursing Care of Persons with Complex Disorders  
4:2:6  
Su, F, Sp  
- Prerequisite(s): NURS 2410  
Builds on concepts learned in previous nursing courses to provide care of 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 providing 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  
4:2:6  
Su, F, Sp  
- Prerequisite(s): NURS 3330  
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. Encompasses working in a clinical site with a preceptor and clinical nursing participation in activities of quality improvement and cost controlling measures.

NURS 3410  
Professional Standards of Nursing  
1:1:0  
Su, F, Sp  
- 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  
Su  
- Prerequisite(s): NURS 3300  
Examines various nursing models and theories which influence current nursing practice. Explores essential and independent 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  
- 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  
4:2:6  
Sp  
- Prerequisite(s): NURS 3300, NURS 3310  
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 4330  
Nursing in Global Perspective  
3:3:0  
Su, F, Sp  
- 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  
4:2:6  
Su  
- Prerequisite(s): NURS 3330, NURS 3410, NURS 4320  
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 441G  
Nursing in Global Perspective  
Su, F, Sp  
- Prerequisite(s): NURS 2400  
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  
F  
- Prerequisite(s): NURS 4300, NURS 4310, NURS 4320  
- Corequisite(s): NURS 4430  
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 4430  
Senior Project in Nursing  
3:1:6  
F  
- Prerequisite(s): NURS 4300, NURS 4310, NURS 4320  
- Corequisite(s): NURS 4420  
Provides opportunity for student to complete a well-defined clinical project in an area of special interest, to demonstrate culminating of learning achieved through all previous nursing education. Projects are completed in clinical practice areas following faculty approval. Includes faculty supervision and focused formal instruction.

NURS 481R  
Internship in Nursing  
1 to 6:5.5 to 30  
Su, F, Sp  
- Prerequisite(s): Department Chair approval  
Provides supervised, practical, clinical experience for students preparing for careers in Nursing. May be repeated for a maximum of 6 credits toward graduation.
## Course Descriptions

### NURS 499R
**Undergraduate Research in Nursing**
1 to 4:5 to 20
- Prerequisite(s): NURS 2400, 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 4:0 to 4:0 to 12
- Prerequisite(s): NURS 2400, 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 to 3:0 to 9
- Prerequisite(s): NURS 2400, NURS 2410, Department approval
  Provides students an opportunity to pursue independent study in nursing with a faculty mentor. Includes any combination of literature reviews, original research, and participation in ongoing departmental 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 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
- Prerequisite(s): Admission into the MSN program or Department approval
  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
- 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, 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
- 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
- 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**
3:2:3
-Prerequisite(s): NURS 6250
  Focuses on facilitating learning in classroom settings. Incorporates aspects of the philosophy of adult education and adult learning theory; the teaching process and self-evaluation through reflective thinking/processing. Provides active participation in the teaching/learning environment.

### NURS 6700
**Evaluation of Learning Outcomes**
3:3:0
- Prerequisite(s): Admission into the MSN program or Department approval
  Explores the application of various methods of evaluation, measurement and grading of learning outcomes. Applies assessment techniques to various aspects of nurse education.

### NURS 6800
**Teaching/Learning II: Clinical Settings**
4:2:6
- Prerequisite(s): Admission into the MSN program or Department approval
  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**
4:1:9
- Prerequisite(s): NURS 6700
  Provides opportunities for students to enact the nurse educator role in academic and/or clinical settings. Applies knowledge under the direct mentorship of academic or clinical nurse educators.

### NURS 699R
**MSN Project or Thesis**
1 to 6:0 to 3 to 18
- Prerequisite(s): NURS 6250
  Individualized faculty supervision of MSN thesis or project research and/or planning and implementation. May be repeated with department approval.

### NUTR—Nutrition

### NUTR 1020
**Foundations of Human Nutrition**
3:3:0
- Prerequisite(s): NUTR 1020
  For students interested in various health care professions. Considers basic principles of human nutrition. Studies factors that influence nutritive requirements and maintenance of nutritional balance. Examines relationships between proper nutrition and social, mental and physical well-being.

### NUTR 2020
**Nutrition Through the Life Cycle**
3:3:0
- Prerequisite(s): NUTR 1020
  For students interested in various health care professions; particularly professions in nutrition, dietetics, and food sciences. Studies application of nutrition principles to the human life cycle. Includes nutrient functions, needs, sources, and alterations during pregnancy, lactation, growth, development, maturation, and aging.

### PES—Physical Education

### PES 1010
**Aerobics I**
1:0:5:1
- Prerequisite(s): Admission into the MSN program or Department approval
  A co-ed aerobic dance-exercise class that introduces aerobic conditioning principles designed to develop cardiovascular/respiratory systems, strength, coordination, and flexibility. Teaches choreographed routines involving jogging, dancing, and vigorous exercise set to music.

### PES 1011
**Aerobics II**
1:0:5:1
- Prerequisite(s): Admission into the MSN program or Department approval
  A co-ed aerobic dance-exercise class that emphasizes increased knowledge in cardiovascular training, flexibility, and exercise injuries. Students acquire a more strenuous and advanced level of aerobic proficiency through high impact routines set to music.
PES 1050  Powertone
1:0.5:1  Su, F, Sp
For students interested in strength and weight training in a group exercise setting. Utilizes barbells, weights, bands, med-balls, stability balls, and ropes set to music to present a total muscle conditioning class that is target-specific.

PES 1055  Pilates I–CoreMax Training
1:0.5:1  Su, F, Sp
Introduces a contemporary approach to Pilates exercise. Provides a total body workout that challenges and optimizes strength, flexibility and endurance. Incorporates FlexiBands, Bosu, stability balls, weighted balls, fitness circle and matwork to assist individuals in achieving optimal health and well-being. Designed to lengthen the body, strengthen the mid-section (core & spine), and improve posture and flexibility.

PES 1057  Power Yoga
1:0.5:1  Su, F, Sp
For students interested in bringing balance to both body and mind. Presents a vigorous and powerful approach using Asthanga, Anusara, and Hatha Yoga’s. Uses flowing progressive postures, meditative awareness, and breath control.

PES 1085  Weight Training I
1:0.5:1  Su, F, Sp
An introductory weight training course which provides the student with the needed information to develop a personalized strength program. Teaches proper lifting techniques. Demonstrates methods to increase muscular strength and endurance. Includes lab.

PES 1086  Weight Training II
1:0.5:1  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  Not 10-11
- 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. Strengths comprehensive principles in health, wellness, physical activity, and fitness assessment.

PES 1100  Tennis I
1:0.5:1  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  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  F, 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  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  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 1113  Golf I
1:0.5:1  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  Su, F, Sp
Designed to teach students advanced golf skills, rules, and strategies to be used in inter-class tournaments. Evaluates individual golf game strengths and weaknesses. Emphasizes playing according to USGA rules. Taught on block only.

PES 1135  Archery I
1:0.5:1  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  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  F, Sp

PES 1146  Bowling II
1:0.5:1  F, Sp

PES 1155  Beginning Fencing
1:0.5:1  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  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 1201  Basketball II
1:0.5:1  F, Sp
Teaches advanced skills of shooting, passing, ball handling, rebounding, etc. Stresses fun and competition. Provides regular scrimmage time. Includes an exciting class tournament during the course.

PES 1210  Volleyball I
1:0.5:1  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
Course Descriptions

PES 1211 Volleyball II 1:0.5:1 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 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 Su, F, Sp
- 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 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 Su, F, Sp
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 (Federación Internacional de Football Association) and (United States Soccer Federation) USSF.

PES 1234 Soccer Club Team 1:0.5:1 Su, F, Sp
- 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 1254 Lacrosse Club Team 1:0.5:1 Su, F, Sp
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 Su, F, Sp
Teaches basic ice hockey skills including: skating (forwards, backwards, crossovers, spins, starts and stops), stick handling, passing, shooting. Practices offensive and defensive positioning, culminating in participating in several hockey games. The majority of the class will take place on the ice with short lectures and outside reading assignments.

PES 1300 Swimming I 1:0.5:1 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 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 F
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 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 F, Sp
Introduces to students an ancient martial exercise developed in China. Studies an effortless, low-impact, rhythymical 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 Su, F, Sp
Introduces and surveys many of the popular styles of martial arts. Includes brief background of history, learning fundamental kicks, strikes, blocks, holds and other moves/techniques of the following martial arts: Kenpo Karate, Jiu Jitsu, Muay Thai (kick boxing), Tai Chi, and self-defense strategies.

PES 1425 Jiu Jitsu I 1:0.5:1 F, Sp
A beginning course in the martial art of Jiu Jitsu. With an emphasis on Russian Sambo Jiu Jitsu also known as Combat Jiu Jitsu. Learn the basics of Jiu Jitsu including: grappling, take downs, escapes, arm locks, etc.

PES 1426 Jiu Jitsu II 1:0.5:1 Su, F, Sp
- Prerequisite(s): PES 1425
An intermediate course in the martial art of Jiu Jitsu. Practices and improves on the basics of Jiu Jitsu including: grappling, take downs, escapes, and arm locks.

PES 1435 Kenpo Karate I 1:0.5:1 Su, F, Sp
A beginning course in the martial art of Kenpo Karate. Introduces basic blocks, punches, strikes, and kicks. Emphasizes self defense techniques.

PES 1436 Kenpo Karate II 1:0.5:1 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 Su, 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 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 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 F, Sp
- Prerequisite(s): Coach approval
May be repeated once for credit towards graduation.
Course Descriptions

PES 201R
Elite Precision Team
1:0:5
Su, F, Sp
- Prerequisite(s): Audition required
For students selected to be members of the Elite Precision Team. Includes performances at home basketball games, competition, and the year end showcase. Studies dance styles such as jazz, funk, hip hop, and lyrical. May be repeated once for credit towards graduation.

PES 2050
Aerobic Instructor Training
2:2:0
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.

PES 2210
Officiating Basketball
2:2:0
F, Sp
For students wishing to officiate in interscholastic, intramural, and community programs. Teaches rules, officiating, techniques, problems and procedures. Uses lecture, media, guest lecturers and practical game situations. Gives National Federation or OSA examinations. Introduces National Federation publications, such as Rule Book, Case Book, Umpires Manual, and Rules (Simplified and Illustrated).

PES 2220
Officiating Volleyball
2:2:0
F
For students wishing to officiate in interschool, intramural, and community programs. 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).

PES 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.

PES 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.

PES 2510
Sports Medicine Lab
1:0:3
F, Sp
- Corequisite(s): PES 2500
Provides skills necessary to teach an aerobic class and methods of teaching kicks, jumps, and tumbling. Emphasizes choreography, cueing, and the use of music, caption styles such as jazz, funk, hip hop, and lyrical. May be repeated once for credit towards graduation.

PES 2700
Foundations of Physical Education
3:3:0
Su, F, Sp
Introduces the study of physical education. Studies the history and philosophy of the field of Physical Education. Analyzes problems in areas covered under the umbrella of physical education. Explores the physical education/sport sub-disciplines and related career and employment opportunities in this area.

PES 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.

PES 3200
Teaching and Coaching Basketball
2:2:0
Sp
Designed for those planning to coach basketball. 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.

PES 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.

PES 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.

PES 3250
Teaching and Coaching Aerobics and Cheerleading
2:2:0
F, Sp
- Prerequisite(s): Approval of Cooperative Coordinator
Designed for those planning to coach baseball or softball. Covers teaching techniques, coaching philosophies and building a program. Includes strategy of team selection and offensive and defensive planning. Studies game skills.

PES 3260
Teaching and Coaching Baseball and Softball
2:2:0
Sp
- Prerequisite(s): PES 1097
Designed for those planning to coach baseball or softball. Covers teaching techniques, coaching philosophies and building a program. Includes strategy of team selection and offensive and defensive planning. Studies game skills.

PES 3270
Methods of Teaching Fitness
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.

PES 3500
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.

PES 3550
Motor Learning and Development
3:2:2
F, Sp
- Prerequisite(s): Permission of Instructor
Examines motor and cognitive characteristics of individuals involved in learning or performing motor
skills. Examines conditions that influence learning. Analyses 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.

**PES 3700 (Cross-listed with: ZOOL 3700)**

*Exercise Physiology*

**Course Description**

- Prerequisite(s): ZOOL 1090 or (ZOOL 2320 and ZOOL 2420); MATH 1050
- 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.

**PES 3730 Biomechanics**

3:3:0 F, Sp

- Prerequisite(s): PES 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.

**PES 3750 Psychosocial Aspects of Human Performance**

2:2:6 F,Sp

- 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.

**PES 3850 Ethical Concerns in Physical Education**

3:3:0 Su, F, Sp

- Prerequisite(s): PES 2700
- 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.

**PES 4000 Exercise Testing and Prescription**

3:2:3 F,Sp

- Prerequisite(s): MATH 1050, ZOOL 2320, PES 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.

**PES 4100 Fitness Across the Lifespan**

3:3:0 F,Sp

- Prerequisite(s): ZOOL 1090, PES 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.

**PES 4300 Research Methods in Physical Education and Recreation**

3:3:0 F,Sp

- Prerequisite(s): PES 3500, PES 3850 or REC 3850
- 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 Physical Education and Recreation.

**PES 4400 Physical Activity Promotion in the Community**

3:3:0 F,Sp

- Prerequisite(s): PES 4000
- 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.

**PES 4410 Promoting Physical Activity in the Community Field Experience**

1:0:4 Su, F, Sp

- Prerequisite(s): PES 4000
- Corequisite(s): PES 4400
- Provides complementary field experiences for students taking PES 4400 (Promoting Physical Activity in the Community).

**PES 481R Internship in Exercise Science**

1 to 4:0:5 to 20 F,Sp

- Prerequisite(s): PES 1097 and PES 2700
- Provides students with hands-on professional experience in the field of exercise science. May be repeated for a maximum of 8 credits toward graduation.

**PES 489R Undergraduate Research for Exercise Science**

1 to 4:0:5 to 20 F,Sp

- Prerequisite(s): PES 2700 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 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.

**PES 4900 Exercise Science Senior Practicum**

3:3:0 Su, F, Sp

- Prerequisite(s): PES 3700, PES 4000, and PES 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.

**PES 4950 Senior Seminar**

2:2:6 F,Sp

- Prerequisite(s): PES 3700, PES 3850, PES 4000
- 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.

**PETE—Physical Education Teacher Education**

**PETE 2100 Skill Analysis I**

3:2:2 F

- 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 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, team sports through analysis of concepts common to team games and sports. Analyzes and develops developmentally appropriate teaching progressions for individual and dual sport skills. Examines rules and strategies for a variety of team 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 sports through analysis of concepts common to team games and sports. Analyzes and develops developmentally appropriate teaching progressions for team sport skills. Examines rules and strategies for a variety of team games and sports.

**PETE 2400 Skill Analysis Capstone**

1:0:5.2 F, Sp

- 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): PES 2700 and departmental approval of research proposal.
Provides students an early opportunity to conduct research under the mentorship of a faculty member. Students will put in practice the theoretical knowledge gained in prior major courses. Students will create a significant intellectual or creative product that is appropriate for Physical Education Pedagogy and worthy of communication to a broader audience. May be repeated for a maximum of 6 credits toward graduation.

PETE 3100
Physical Education Pedagogy
3:2:2 Su, F, Sp
• Prerequisite(s): PETE 2200, PETE 2300, PES 2700
Promotes the acquisition and application of generic teaching skills for physical education. Conceptualizes and practices of pedagogical behavior for physical education settings. Focuses intensively on effective teaching skills for student skill acquisition. Includes observations and experiences in the public schools. Teaches content necessary to successfully pass the Pedagogy Exam for the American Master Teacher Program (AMTP), and portions of the National Teacher Exam in Physical Education.

PETE 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.

PETE 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 a variety of possible adaptations for individuals with physical, sensory, emotional, and/or intellectual impairments.

PETE 4200
Methods of Teaching Elementary Physical Education
3:2:2 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.

PETE 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.

PETE 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.

PETE 4260
Secondary Physical Education Field Experience
1:0:3 Su, F, Sp
• Prerequisite(s): PES 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.

PETE 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.

PETE 489R
Undergraduate Research in Physical Education Teacher Education
1 to 4:0:5 to 20
• Prerequisite(s): PETE 3100 and 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 appropriate for Physical Education Pedagogy and worthy of communication to a broader audience. May be repeated for a maximum of 8 credits toward graduation.

PHIL—PHILOSOPHY
PHIL 1000** HH
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 HH
Introduction to Philosophy 3:3:0 Su, F, Sp
• Prerequisite(s): ENGL 1010
Designed to investigate major philosophical ideas from the Pre-Socratic era to the present. Students should develop philosophical skills through supervised analysis of readings in epistemology (knowledge), metaphysics (reality), ethics (values), and social philosophy. Emphasizes the articulation, assessment, and discussion of fundamental religious, social, political issues through class discussions, lectures, media, and writing projects.

PHIL 120R HH
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  Su, F, Sp  
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, Baha’i, and nontraditional religious belief in the western world. Explores similarities and differences between them by examining the primary sources and sacred texts along with the unique beliefs and practices of each tradition.

PHIL 1620  Introduction to Eastern Religions  3:3:0  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, Baha’i, and nontraditional religious belief in the western world. Explores similarities and differences between them by examining the primary sources and sacred texts along with the unique beliefs and practices of each tradition.

PHIL 205G  Ethics and Values  3:3:0  Su, F, Sp  
- Prerequisite(s): ENGL 1010; ENGL 2010 or ENGL 2020 highly recommended
- Challenges students to (1) develop knowledge and recognition of complexities inherent in global and intercultural issues, focusing on their ethical and normative dimensions with an emphasis on issues of ethics and values, (2) develop the ability to interrelate knowledgeably, reflectively, responsibly, and respectfully with a society of increasing intercultural connections, (3) critically read works of philosophy, literature, religion, and history toward understanding the basis of their ethical views; and (4) read, study, research, discuss, and write about difficult ethical issues. Focuses on global and intercultural issues with an emphasis on their ethical and normative dimensions. Engages students in serious reflection on issues of ethics and values as they relate to the students’ own lives as knowledgeable, thoughtful, reflective, responsible, and respectful citizens within a society of increasing intercultural connections.

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 2120  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  Su, F, Sp  
- 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. written contracts must be completed and signed. Repeatable for a maximum of six credit hours toward graduation.

PHIL 290R  Independent Study  1 to 3:0 to 3:0 to 12  Su, F, Sp  
- Prerequisite(s): By permission of the instructor
- Provides independent study as directed in reading and individual projects. Request must be submitted for approval by the department. Students may do independent study for one, two or three credits with a limit of three credits applying toward graduation with an AA/AS degree.

PHIL 295R  Directed Readings  1 to 3:0 to 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
3:0
Su, F, 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
Acquaints the student with competing abstract philosophical problems concerning the general nature and structure of reality. Examines the history of and problems of metaphysics including, but not limited to: personal identity, causation, causal determinism, the nature of universals, anti-realism, realism, change, substance and essence, space and time, and philosophy of mind.

PHIL 3200
Metaphysics
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
Examines the impact of gender on specific areas of philosophy including, but not limited to, aesthetics, ethics, social and political philosophy, epistemology, metaphysics, philosophy of religion, philosophy of science, philosophy of language and the history of philosophy. Examines the meaning of gender with an emphasis on the diversity of experience across varying gender roles.

PHIL 3300
Epistemology
3:0
Not 10-11
- Prerequisite(s): PHIL 1000 or PHIL 2050 or PHIL 205H or PHIL 205G or PHIL 2110 or PHIL 2150 or permission of instructor
Examines the role of gender in the epistemological debates. Studies the diversity of epistemological theories and their implications for understanding the nature of knowledge and the role of gender in the construction of knowledge.

PHIL 3400
Philosophy of Science
3:0
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
Explores diverse theories of knowledge from within the Western tradition. Includes concepts of truth and falsity, skepticism, justification, identity, and intentionality. Discusses empiricism, rationalism and twentieth-century Philosophy of Mind.

PHIL 3450
Philosophy of Childhood
3:0
Not 10-11
- 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 philosophical theories and models of childhood, their implication on contemporary conceptions, controversial social, philosophical, legal, educational, and political issues pertaining to childhood, and the capacity of children to engage in philosophical dialogue.

PHIL 3470
Pragmatism and American 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
Introduces students to various philosophical themes and figures unique to classical American Philosophy and American Pragmatism. Focuses on the impact of gender on specific areas of philosophy including, but not limited to, aesthetics, ethics, social and political philosophy, epistemology, metaphysics, philosophy of religion, philosophy of science, philosophy of language and the history of philosophy. Examines the meaning of gender with an emphasis on the diversity of experience across varying gender roles.

PHIL 3510
Business and Professional Ethics
3:0
- Prerequisite(s): PHIL 2050 or PHIL 205H or PHIL 205G
Examines the impact of gender on specific areas of business ethics. Studies the diversity of business ethics and their implications for understanding the nature of knowledge and the role of gender in the construction of knowledge.

PHIL 3520
Bioethics
3:0
Not 10-11
- Prerequisite(s): PHIL 2050 or PHIL 205H or PHIL 205G or permission of instructor
Explores diverse theories of knowledge from within the Western tradition. Includes concepts of truth and falsity, skepticism, justification, identity, and intentionality. Discusses empiricism, rationalism and twentieth-century Philosophy of Mind.

PHIL 3530
Environmental Ethics
3:0
Sp
- Prerequisite(s): PHIL 2050 or PHIL 205H or PHIL 205G
Examines the impact of gender on specific areas of environmental ethics. Studies the diversity of environmental ethics and their implications for understanding the nature of knowledge and the role of gender in the construction of knowledge.

PHIL 3540
Christian Ethics
3:0
- Prerequisite(s): PHIL 1610
Examines the impact of gender on specific areas of Christian ethics. Studies the diversity of Christian ethics and their implications for understanding the nature of knowledge and the role of gender in the construction of knowledge.

PHIL 3610
Introduction to Christian Theology
3:0
- Prerequisite(s): PHIL 1610
Examines key developments and conceptions in Christian theology through historical and conceptual methodologies.

PHIL 3620
Mormon Theology and the Christian Tradition
3:0
Su, F, Sp
- Prerequisite(s): PHIL 1610
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.

PHIL 3650
Approaches to Religious Studies
3:0
Sp
- Prerequisite(s): PHIL 2050 or PHIL 205H or PHIL 205G or permission of instructor
Explores diverse theories of knowledge from within the Western tradition. Includes concepts of truth and falsity, skepticism, justification, identity, and intentionality. Discusses empiricism, rationalism and twentieth-century Philosophy of Mind.

PHIL 366R
Issues in Religious Studies
3:0
- Prerequisite(s): PHIL 2050 or PHIL 205H or PHIL 205G or permission of instructor
Explores diverse theories of knowledge from within the Western tradition. Includes concepts of truth and falsity, skepticism, justification, identity, and intentionality. Discusses empiricism, rationalism and twentieth-century Philosophy of Mind.
Course Descriptions

PHIL 3700
Social and Political Philosophy
3:3:0
- 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
3:3:0
- 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

PHIL 3800 (Cross-listed with: HUM 3800)
Introduction to Aesthetics
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.

PHIL 3810
Existentialism and Phenomenology
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
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
3:3:0
- 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 on great thinkers and writers by blurring the line between strict

PHIL 386R
Topics in Ancient Philosophy
3:3:0
- Prerequisite(s): PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H or PHIL 205G or PHIL 2110 or

PHIL 400R
Great Philosophers
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 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
3:3:0
- 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 metaphysical, epistemological, ethical, political, and idealogical assumptions.

PHIL 4130
Nineteenth Century European Philosophy
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
Introduces students to the changes in 19th century European philosophy regarding the nature of truth, knowledge, human freedom, and focus. 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
3:3:0
- 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 Friederich Waismann. Studies methods of movements such as Logical Empiricism, and Ordinary Language Philosophy. Explores views such as Logicism, Logical Atomism, Holism, Verificativism, Logical Behaviorism, Psychologism, Nominalism, and Realism.

PHIL 4150
History of Continental Philosophy
3:3:0
- 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
3:3:0
- Prerequisite(s): PHIL 3000
Discusses the philosophical motivation for the formalization of logic. Introduces the metatheory for propositional and quantifical logic. Includes proofs of the soundness and completeness of quantifical logic. Discusses the philosophical issues surrounding the results proved. May also include some discussion of important results in computability.

PHIL 4470
Philosophy of Mind
3:3:0
- 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
3:3:0
- 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
- 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
3:0
F
- Prerequisite(s): PHIL 2060 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 6:0:0 to 30 Su, F, Sp
- 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 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
3:0
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, vita, a Personal Statement, and a PowerPoint presentation.

PHIL 492R
Advanced Topics in Philosophy
1 to 3:1 to 3:0 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 1000
Survey of Physical Science
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, audiovisual presentations, and demonstrations.

PHSC 281R
Cooperative Work Experience
2 to 9:1:5 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 1010
Elementary Physics
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 1040
Elementary Astronomy
3:0
Su, F, Sp
- Corequisite(s): PHYS 107H
- Prerequisite(s): Instructor permission required
- An introduction to astronomy and cosmology. Explores interesting concepts such as the big bang and black holes. Includes observational exercises including the use of binoculars and telescopes.

PHYS 1050
Investigations of the Solar System
3:0
On Sufficient Demand
- Prerequisite(s): MAT 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
3:0
On Sufficient Demand
- Prerequisite(s): MATH 1030 or any higher mathematics
- Describes the origins and evolutions of stars, and collections of stars, galaxies and clusters of galaxies. Includes introduction to cosmology. Teaches the law of gravity and those laws of physics connected with optics and spectroscopy. Emphasizes conceptual learning, and assumes rudimentary mathematical skills on the part of students to facilitate comparative studies.

PHYS 1070*
Cultural Astronomy in Our Lives
3:0
F, Sp
- 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 UUV planetarium, nighttime observation, illustrated lectures, and class demonstrations.

PHYS 1075
Honors Cultural Astronomy in Our Lives Laboratory
1:0:3 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
3:0
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 UUV planetarium, nighttime observation, illustrated lectures, and class discussion.

PHYS 1080
Life in the Universe
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 alternatives, such as fuel cell cars, and a hydrogen economy.

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, MATH 1220
Addresses topics of special relativity, development of quantum mechanics, physics of the atom, elementary solid state physics, and elementary particle physics.

PHYS 3050
Astrophysics
3:3:0
- Prerequisite(s): PHYS 2220, MATH 1220
Covers the physics of stars, star clusters, and galaxies. Treats in detail the current methods of astronomical data collection and analysis. Discusses the mathematics of the Theories of Relativity and its implications for the origin and structure of the Universe.

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 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 3400
Classical Mechanics
3:3:0
- Prerequisite(s): PHYS 2220
- 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 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
- Pre- or 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.
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<td>PHYS 4100</td>
<td>Biophysics</td>
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<td>PHYS 4210</td>
<td>Electromagnetics</td>
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<td>PHYS 4500</td>
<td>Energy Use on Earth</td>
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<td>PHYS 4520</td>
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<td>PHYS 4940</td>
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<td>PHYS 4950</td>
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<td>PHYS 4990</td>
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Course Descriptions

Exposures 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.

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Provides an opportunity for senior physics majors to participate in a current research project supervised by a department 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.

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Course Descriptions

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 3:3:0  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 well as 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 4900 Peace and Justice Studies Capstone 3:3:0
- 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.

POLS—Political Science

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  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 10-11
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 10-11
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 2300 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 in to 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.

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 Shiite Islamic, and Christian identity movements in the United States and Western Europe. Examines the concept of religious and political terrorism, as well as the ideologies, tactics, and organizations common to most terrorist groups.

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 politics 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 3250 (Cross-listed with: ENGL 3250)  
Introduction to Law and Politics  
3:0:0 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  
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
- 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 F  
- 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 in the context of global political developments. Analyzes the historical background of its problems and challenges in combination with studies of its dynamically developing politics.

POLS 359G  
American Indian Law and Tribal Government  
3:3:0 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  
- Prerequisite(s): POLS 2100
- 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 2010 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 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 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 constitutional making, beginning with the English Charter of Liberties in 1100 ACE and ending with the United States Bill Rights of 1791. Employs a comparative analysis of early Anglo-American constitutional thought, with special attention being given to the writings of prominent 17th century and 18th century constitutional theorists (e.g. Coke, Bacon, Burke, Penn, Dickinson, Mason, Adams, Madison, Marshall).

POLS 4790  
US Constitution  
3:0:0 Sp  
- Prerequisite(s): POLS 1100 or POLS 1000
- Examines the United States Constitution as the political blueprint of American national government. Explores the basic constitutional powers and structures of the federal government, and the prominent political and constitutional conflicts between its executive, legislative, and judicial branches. Addresses such key elements of constitutional design as limited and empowered government, enumerated and implied powers, separation of powers, checks and balances, federalism, and the Bill of Rights. Employs a critical analysis of modern constitutional politics.

POLS 480R  
Internship  
2 to 9:1:5 to 40  
- Prerequisite(s): POLS 1100
- Provides opportunities for internship experience in political organizations, government offices, and non-governmental organizations. May be repeated for a maximum of 9 credits toward graduation.

POLS 4850  
State Legislative Internship Seminar  
3:3:0 On Sufficient Demand  
- Pre-or Corequisite(s): ENGL 1010
- Prepares students who have been selected to serve as interns to the Utah State Legislature. Focuses on legislative behavior and organization; bill and law making; research and policy; comparative state government and politics and internship requirements.

POLS 490R  
Independent Study  
1 to 4:1:0  
- Prerequisite(s): ENGL 2010 or ENGL 2020
- Provides independent study for students unable to secure a desired class within regular semester curriculum offerings. With the approval of dean and/or department chair, student and instructor design and complete readings and other projects at the upper division level. May be repeated for a maximum of six credits toward graduation.

POLS 4990  
Senior Seminar  
3:3:0  
- Prerequisite(s): Senior standing in Political Science and POLS 3000
- Includes readings and discussions about fundamental political science problems and issues. Offers directed research project tailored to each student’s special interests.

PORT—Portuguese  
PORT 1010  
Beginning Portuguese I  
4:4:1  
- Prerequisite(s): No prior Portuguese
- For those with no prior Portuguese. Emphasizes listening, speaking, and writing skills along with basic grammar, vocabulary and verb conjugations all within the cultural context of modern Brazil and Portugal. Use eclectic methodology requiring conversational exchanges.
Course Descriptions

PORT 1020  Beginning Portuguese II
4:4:1
- Prerequisite(s): Students need equivalent knowledge of PORT 1010
Continuation of PORT 1010. Includes remaining first-year grammar and language concepts plus introduction to literature and cultural readings. Uses eclectic method of instruction, emphasizing conversational exchanges.

PORT 1050  Intensive Portuguese for Spanish Speaker
5:5:1
- Prerequisite(s): Students need equivalent knowledge of PORT 3050
Serves as an intensive course for speakers of Spanish who wish to learn Portuguese. It includes extensive grammar work and cultural readings. Emphasizes literary readings, conversational exchanges, and creative writing.

PORT 2010  Intermediate Portuguese I
4:4:1
- Prerequisite(s): Students need equivalent knowledge of PORT 1020
Reviews and builds grammar, reading, and conversation skills learned in the first year courses. Introduces readings and discussions on the history, culture, and literature of Brazil, maintaining a focus on oral proficiency.

PORT 202G  Intermediate Portuguese II
4:4:0
- Prerequisite(s): Students need equivalent knowledge of PORT 202G
One year residency in Portuguese-speaking country, or instructor approval
For non-native Portuguese speakers with a fair knowledge of basic Portuguese. Overview of basic Portuguese grammar with special emphasis on major concepts. Overviews Luso-Brazilian literatures and cultures.

PORT 3050  Advanced Portuguese
3:3:0
- Prerequisite(s): PORT 202G, one year residency in Portuguese-speaking country, or instructor approval
Continuation of PORT 1010. Includes remaining grammar and language concepts, literature and cultural readings. Emphasizes literary readings, conversational exchanges as well as creative writing.

PORT 3520  Brazilian Culture and Civilization
3:3:0
- Prerequisite(s): Students need equivalent knowledge of PORT 3050
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 — PSYCHOLOGY

PSY 1010**  General Psychology
3:3:0
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
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
An integrated approach to human development from conception and birth to old age and death. Causes students to examine their own growth and developmental patterns and learn to understand 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 1150  Marriage/Relationship Skills
3:3:0
For students interested in building a lasting relationship. Examines marital research and the factors and issues that help determine whom and when to marry. Utilizes research based practices to resolve specific relationship challenges. Stresses increased understanding of desirable relationship outcomes and how to achieve them.

PSY 2250  Psychology of Interpersonal Relationships
3:3:0
- Prerequisite(s): ENGL 1010 and PSY 1010
For Behavioral Science majors only. Integrates cognitive psychological theory in an experiential setting to build personal communication skills. Helps students better understand their interactions with others. Teaches practical skills used in personal, professional, and social relationships. Studies problem-solving models and conflict resolution methods.

PSY 2400  Positive Psychology
3:3:0
- Prerequisite(s): PSY 1010 and ENGL 1010
Provides an overview of the scientific study of human strengths and virtues. Examines topics such as happiness, optimism, gratitude, altruism, forgiveness, human strengths, optimal performance, and personal fulfillment. Knowledge gains are reinforced with personalized experiential learning activities.

PSY 275R  Survey of Current Topics
3:3:0
- Prerequisite(s): (ANTH 101G or PSY 1010 or SOC 1010) and ENGL 1010
Presents selected topic in Psychology and will vary each semester. Approaches subjects from cross-disciplinary perspective. Requires a project demonstrating competency in the specific topic. May be repeated for nine credits toward graduation.

PSY 2800  Human Sexuality
3:3:0
- Prerequisite(s): ENGL 1010
- Corequisite(s): ENGL 1010
Intersubdisciplinary 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 3010  Statistics for the Behavioral Sciences
4:4:0
- Prerequisite(s): MAT 1000 or MAT 1010 or HIGHER and (PSY 1010 or SOC 1010).
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.

PSY 3020  Research Methods for the Behavioral Sciences
3:3:0
- Prerequisite(s): ENGL 2010 or ENGL 2020 and (PSY 1010 or SOC 1010) and (PSY 3010 or SOC 3010)
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...
Course Descriptions

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 3150 Survey of Dispute Resolution
3:3:0 Sp, F
- Prerequisite(s): (PSY 1010 or SOC 1010 or SW 1010) or LEGL 1000
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.

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/individualization 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 3240 Applied Marriage
3:3:0 Sp, F
- Prerequisite(s): (PSY 1010 or SOC 1010) and (ENGL 2010 or ENGL 2020)
Introduces 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.

PSY 3250 Applied Parenting
3:3:0 Sp, F
- Prerequisite(s): (PSY 1010 or SOC 1010) and (ENGL 2010 or ENGL 2020)
Exposes students to classical and contemporary parenting theory, research, and practice. Application to the guidance of children is the core focus. Course material includes the study of parenting: concepts, challenges, risks, and alternatives while considering the social, physical, emotional, intellectual, and spiritual environments of the child.

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 description of mental disorders according to the American Psychiatric Association Diagnostic and Statistical Manual (DSM IV-R).

PSY 3410 Fundamentals of Mediation and Negotiation
3:3:0 Sp, F
- Prerequisite(s): (PSY 1010 or SOC 1010 or SW 1010) or COMM 1050 or LEGL 1000
Prepares students to understand and participate knowledgeably on a basic level in the processes of mediation and negotiation. Improves 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.

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 3500 Social Psychology
3:3:0 Su, F, Sp
- Prerequisite(s): (PSY 1010 or SOC 1010) and (ENGL 2010 or 2020)
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 3520 Environmental Psychology
3:3:0 F
- Prerequisite(s): (ENGL 2010 or ENGL 2020)
Studies relationships between behavior and experience and the artificial and natural environments. Studies perspectives and problems unique to the field. Analyzes psychological research as it applies to humans and the environment. This is a service learning course with community-based research.

PSY 3550 Thanatology—Death and Dying
3:3:0 On Sufficient Demand
- Prerequisite(s): (PSY 1010 or SW 1010) and (ENGL 2010 or ENGL 2020)
Introduces students to the subject of thanatology. Reviews theories and research associated with death and dying. Examines death systems, cultural norms, taboos and rituals. Studies the health care system, public policy, laws, and customs. Addresses death from a developmental perspective. Explores life-threatening illness, suicide, and end-of-life issues. Reviews grief and loss themes. Familiarizes students with vocabulary and explores related human service occupations such as bereavement counseling and hospice care.
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.

**PSY 3850** Psychology of Good and Evil
3:3:0 Su, F, Sp
- **Prerequisite(s):** ENGL 2010 or ENGL 2020 and (ANTH 101G or PSY 1010 or SOC 1010) and (PSY 3010 or SOC 3010) and (PSY 3020 or SOC 3020)
Explores various experimental research designs (true experimental and quasi-experimental), emphasizing application and evaluation. Students will be required to conduct an original psychological research project.

**PSY 4010** Experimental Psychology
3:3:0 Sp, Su, F
- **Prerequisite(s):** ENGL 2010 or ENGL 2020 and (ANTH 101G or PSY 1010 or SOC 1010) and (PSY 3010 or SOC 3010) and (PSY 3020 or SOC 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.

**PSY 4020** Survey Research Design
3:3:0 Sp, Su, F
- **Prerequisite(s):** ENGL 2010 or ENGL 2020 and (ANTH 101G or PSY 1010 or SOC 1010) and (PSY 3010 or SOC 3010) and (PSY 3020 or SOC 3020)
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 4250** Tests and Measurements
3:3:0 On Sufficient Demand
- **Prerequisite(s):** ENGL 2010 or ENGL 2020 and (ANTH 101G or PSY 1010 or SOC 1010) and (PSY 3010 or SOC 3010)
Introduces 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.

**PSY 4550** Clinical Research
3:3:0 F
- **Prerequisite(s):** ENGL 2010 or ENGL 2020 and (PSY 3010 or SOC 3010) and (PSY 3020 or SOC 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.

**PSY 4700** Advanced Mediation and Negotiation
3:3:0 Sp, F
- **Prerequisite(s):** PSY 3410 or SW 3410 or COMM 3410 or LEGL 3410
Prepares students to understand and participate knowledgeable 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 in simulated class role-plays.

**PSY 4800** Domestic Mediation
3:3:0 Sp, F
- **Prerequisite(s):** LEGL 3410 or PSY 3410 or SW 3410 or instructor approval
Prepares students to understand and participate knowledgeable 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 in simulated class role-plays.
intake procedures.

**PSY 4400 (Cross-listed with SW 4400)**
**Introduction to Group Psychotherapy**
3:0  Su, F, Sp

- 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.

**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 4600 (Cross-listed with SW 4600)**
**The DSM of Mental Disorders**
3:0  Sp, F

- Prerequisite(s): PSY 3400 and (ENGL 2010 or ENGL 2020)

Provides an overview of the Diagnostic and Statistical Manual of mental disorders (DSM) based on clinical diagnosis. Teaches DSM based clinical diagnosis. Teaches DSM diagnoses including diagnostic criteria, prevalence rates, gender and cultural differences in prevalence and symptomatology, disease course, and differential diagnosis. Uses class discussions, videotapes of individuals with different DSM diagnoses, and case scenarios.

**PSY 4660 (Cross-listed with SOC 4660)**
**Family Financial Management**
3:0  On Sufficient Demand

- Prerequisite(s): (PSY 1010 or SOC 1010) and (ENGL 2010 or ENGL 2020)

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.

**PSY 4670 (Cross-listed with SOC 4670)**
**Family Dynamics and Systems**
3:0  F

- Prerequisite(s): (PSY 1010 or SOC 1010) and (ENGL 2010 or ENGL 2020)

SOC 1200 strongly recommended.

Introduces students to the fundamentals of family dynamics and systems as they relate to family structure and function. Focuses on historical development, theoretical underpinnings, and applied utility of dynamics and systems. Includes boundary management, infraction, and renewal in contemporary family systems.

**PSY 475R Current Topics in Psychology**
3:0  On Sufficient Demand

- Prerequisite(s): PSY 1010 and (ENGL 2010 or ENGL 2020)

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 nine credits toward graduation.

**PSY 4800 (Cross-listed with SW 4800)**
**Practicum**
3:0  Sp, Su, F

- Prerequisite(s): Senior standing in the Behavioral Science Department. Must have completed or be enrolled in (PSY 4300 or SW 4300) or (PSY 4400 or SW 4400).

Must have instructor’s consent.

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. Requires minimum six hours work per week in an approved setting, and in-class study three hours per week.

**PSY 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.

**PSY 4950 (Cross-listed with SOC 4950)**
**Senior Seminar**
3:0  On Sufficient Demand

- Prerequisite(s): Senior standing in the Behavioral Science Department and (PSY 3020 or SOC 3020) and (ENGL 2010 or ENGL 2020)

Considers contemporary issues in Behavioral Sciences from an ethical and professional perspective. Focuses on synthesis and integration of course work and other learning experiences. Requires a senior project.

**REC—RECREATION**

**REC 1350 Scuba Diving I**
2:2:0  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 Instructions manual. Taught on block only.

**REC 1351 Scuba Diving II**
2:2:0  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**
2:2:0  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**
2:2:0  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 I on the International Scale of River Difficulty. Prepares students to teach the American Canoe Association’s Intro to Canoe course on flat water, and the Basic River Canoe course in a river environment and to teach students fundamental river paddling skills including boat handling, paddling technique, identifying hazards, river reading and self-rescues in moving water.

**REC 1505 Whitewater Kayaking I**
2:2:0  Su, Sp

- Prerequisite(s): REC 1505 or Instructor Permission

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**
2:2:0  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.
Course Descriptions

REC 1512
Fly Tying I
1:0.5:1  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  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
2:0  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 III - Ropes Course activities/individual challenge which allows class members to test their physical capabilities and individual limits.

REC 1521
Indoor Rock Climbing I
2:0  Su, F, Sp
Teaches basic rock climbing skills to the beginning indoor rock climber. Includes knot tying, belaying, rapping, 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
2:0  Su, 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
2:0  Su, 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
2:0  Su, F, Sp
Teaches basic rock climbing skills to the beginning rock climber. Includes knot tying, belaying, rapping, top-rope anchors and site management, beginning lead climbing, and rescue techniques.

REC 1528
Rock Climbing II
2:0  Su, F, Sp
• Prerequisite(s): 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
2:0  Not 10-11
• 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
2:0  Su, F, 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 1535
Backpacking
2:0  Su, F, Sp
Covers the basic aspects 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
2:0  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
2:0  Su, F, Sp
Provides the students with knowledge of cycling techniques when traveling off the pavement. Teaches bicycle maintenance and tuning. Includes several off-road rides. Stresses the enjoyment and lifetime benefits of off-road bicycle riding. Taught on block only.

REC 1605
Skiing I
1:0.5:1  Sp
For the beginning skier. Covers basic skiing concepts including straight runs, stops, turns, traverses, and beginning parallel. Includes demonstration and participation. Grading is based on attendance. Lessons are at the Sundance Ski Resort. (Transportation is not provided.) Uses UVU and Sundance instructors. Students are required to have own equipment and purchase a half-day pass each ski day.

REC 1606
Skiing II
1:0.5:1  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 demonstration and participation. Grading is based on attendance. Lessons are at the Sundance Ski Resort. (Transportation is not provided.) Uses UVU and Sundance instructors. Students are required to have own equipment and purchase a half-day pass each ski day.

REC 1607
Skiing III
1:0.5:1  Sp
For the advanced skier. Covers skiing on all types of terrain and conditions. Includes racing, powder, mogul, 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  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  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  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,
avocado avoidance, and other important factors for a successful winter tour. Includes classroom instruction and ski touring. Taught on block only.

REC 2010
Avalanche Awareness
2:2:0
F, Sp
Examiness 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
Su, F, Sp
- Pre-requisite(s): ENGL 1010
Introduces the study of Recreation. Studies the history and philosophy of the field of Recreation. Analyzes problems in areas covered under the umbrella of Recreation. Explores the Recreation sub-disciplines and related career and employment opportunities in this area.

REC 2400
Principles of Experiential Education in Recreation
3:3:0
Su, F, Sp
- Prerequisite(s): REC 2200, ENGL 1010
- Pre-or Corequisite(s): ENGL 2010 or ENGL 2020
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
- Pre-or Corequisite(s): REC 2200, ENGL 1010
Teaches top-rop 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-rop 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 10-11
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, campsiteset-up, food rationing, river crossing, proper clothing, water purification, hygiene, weather forecasting, backcountry travel. Leave NO Trace ethics, and personal risk management. Requires hicking or orienteering assignments outside of class. Prepares students to qualify for certification as Wilderness Stewards through the Wilderness Education Association. Addresses risk management from both physical and emotional perspectives. Uses pedagogical lecture methods and experiential learning. Requires observation and participation in programs outside of class time.

REC 2650
Principles of Challenge Education
3:3:0
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.

REC 3000
Recreation Program Planning
3:3:0
Sp
- Prerequisite(s): REC 2200 or instructor approval
Investigates program planning and development in outdoor programs, camps, agencies, and education organizations. Emphasizes writing of technical program plans that set goals, program organization, curriculum, budgets, marketing, and evaluation.

REC 3100
Wilderness Skills
2:1:3
F, Sp
- Prerequisite(s): REC 1535
Teaches tools and skills needed for surviving in the wilderness. Includes orienteering, map reading, packing, backcountry cooking, campsite set-up, food rationing, river crossing, proper clothing, water purification, hygiene, weather forecasting, backcountry travel, Leave NO Trace ethics, and personal risk management.

REC 3400
Risk Management
3:3:0
F
- Prerequisite(s): REC 2200
Studies outdoor recreation risk management. Focuses on applying models of risk management, negligence, torts, risk management planning, and outdoor recreation safety.

REC 3500
Recreation Administration
3:3:0
Su, F, Sp
- Prerequisite(s): REC 2400
Teaches principles and practices of leadership, coordination of community resources, and experiential learning, and participation in challenge education programming. Requires observation and participation in programs outside of class time.

REC 3700
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 3850
Ethical Concerns in Recreation
3:3:0
Su, F, Sp
- Prerequisite(s): REC 2400, PHIL 2050
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.

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.

**REC 410R**
**Experiential Learning Expedition**
1 to 6:1 to 15  
Su
- Prerequisite(s): Permission of department
  Teaches experiential learning and leadership in an expedition context. Includes but not limited to expedition planning, hard skills development, expedition behavior and group dynamics, team building, adventure tourism, and local cultural/natural resources. Repeatable up to 12 credits.

**REC 420R**
**Outdoor Leadership and Management Practicum**
2 to 4:0 to 4:0  
Su, F, Sp
- Prerequisite(s): REC 2400, REC 3100. Student must have completed 50 credit hours. Student must have a minimum GPA of 2.25
  Provides students with practical work experience (volunteer or paid) either through a program offered by the college or in an existing outdoor or experientially based agency. Participation in a 150 hour department approved supervised outdoor recreation service. Topics vary by practicum experience. May be repeated for a total to 6 hours toward graduation.

**REC 430R**
**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.

**REC 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.

**REC 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.

**REC 481R**
**Senior Internship**
1 to 8:0:5 to 40  
Su, F, Sp
- Prerequisite(s): REC 420R, REC 3400, REC 3500 and 80 credit hours completed, Minimum 2.25
  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 Philosopich Issues in Recreation, among others. May be repeated for up to 6 credits toward graduation.

**REC 4950**
**Senior Seminar**
3:3:0  
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 10-11
- 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  
Not 10-11
- Prerequisite(s): PHIL 1610
  Examines key developments and conceptions in Christian theology through historical and conceptual methodologies.

**RLST 3620** (Cross-listed with PHIL 3620)
**Mormon Theology and the Christian Tradition**
3:3:0  
- Prerequisite(s): PHIL 1610
  For students majoring in humanities-related disciplines and other students interested in the academic study of religion. Engages students in exploring the defining features of Mormon thought in relation to the broader Christian tradition. Examines traditional theological questions such as the problem of evil, the scriptural canon, the nature of God and humanity, and the role of ritual.

**RLST 3650** (Cross-listed with PHIL 3650)
**Approaches to Religious Studies**
3:3:0  
Sp
- Prerequisite(s): PHIL 2050 or PHIL 205H or permission of instructor
  For students majoring in humanities-related disciplines and other students interested in the academic study of religion. Teaches methodological approaches and critical thinking strategies in the study of religion. Explores various disciplines in their approaches to religious belief and practice. Includes the study of such thinkers as David Hume, Immanuel Kant, Friedrich Schleiermacher, Rudolf Otto, William James, Ludwig Feuerbach, Soren Kierkegaard, Max Weber, Emilie Durkheim, John Hick, and Rene Girard.

**RLST 366R** (Cross-listed with PHIL 366R)
**Issues in Religious Studies**
3:3:0  
F
- Prerequisite(s): PHIL 2050 or PHIL 205H or permission of instructor
  For students majoring in humanities-related disciplines and other students interested in the academic study of religion. Explores 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.

**RUS—Russian**

**RUS 1010**
**Beginning Russian I**
4:4:1  
LH
- Prerequisite(s): PHIL 1610
  Studies conversational Russian that is used in daily settings. Includes culture study, speaking, listening, reading, and writing. Emphasizes conversation in real life situations. Uses the Natural and Total Physical Response teaching methods.

**RUS 1020**
**Beginning Russian II**
4:4:1  
F, Sp
- Prerequisite(s): Students need equivalent knowledge of RUS 1010
  Studies second semester conversational Russian that is used in daily settings. Includes culture study, speaking, listening, reading, and writing. Emphasizes conversation in real life situations. Uses the Natural and Total Physical Response teaching methods. Completers should be able to communicate enough to visit or work in a Russian speaking country.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Type</th>
<th>Credit Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RUS 2010</td>
<td>Intermediate Russian I</td>
<td>LH</td>
<td>4:4:1</td>
<td>Focuses on the principles and tools of translation. Employs the tools of translation from English to Russian and from Russian to English.</td>
</tr>
<tr>
<td>RUS 202G</td>
<td>Intermediate Russian II</td>
<td>HH</td>
<td>4:4:0</td>
<td>Studies fourth-semester conversational Russian that is used in daily settings. Includes culture study, speaking, listening, reading, and writing. Uses the Natural and Total Physical Response teaching methods. Completors should be able to converse about every day circumstances.</td>
</tr>
<tr>
<td>RUS 3050</td>
<td>Advanced Russian</td>
<td>LH</td>
<td>3:3:0</td>
<td>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.</td>
</tr>
<tr>
<td>RUS 3200</td>
<td>Business Russian</td>
<td>LH</td>
<td>3:3:0</td>
<td>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.</td>
</tr>
<tr>
<td>RUS 3520</td>
<td>Russian Culture and Civilization</td>
<td>HH</td>
<td>3:3:0</td>
<td>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. Completors 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.</td>
</tr>
<tr>
<td>RUS 4110</td>
<td>Translation and Interpretation</td>
<td>HH</td>
<td>3:3:0</td>
<td>Students need equivalent knowledge of RUS 2020 and RUS 3050 or equivalent is required. 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.</td>
</tr>
<tr>
<td>SOC 1010 ** Introduction to Sociology</td>
<td>HH</td>
<td>3:3:0</td>
<td>Su, F, Sp</td>
<td>Studies and compares social groups and institutions and their interrelationships. Includes culture, socialization, deviance, stratification, race, ethnicity, social change, and collective behavior.</td>
</tr>
<tr>
<td>SOC 101H   Introduction to Sociology</td>
<td>LH</td>
<td>3:3:0</td>
<td>Su, F, Sp</td>
<td>Studies and compares social groups and institutions and their interrelationships. Includes culture, socialization, deviance, stratification, race, ethnicity, social change, and collective behavior.</td>
</tr>
<tr>
<td>SOC 1020</td>
<td>Modern Social Problems</td>
<td>HH</td>
<td>3:3:0</td>
<td>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.</td>
</tr>
<tr>
<td>SOC 1150   Marriage/Relationship Skills</td>
<td>HH</td>
<td>3:3:0</td>
<td>Sp, F</td>
<td>For students interested in building a lasting relationship. Examines marital research and the factors and issues that help determine whom and when to marry. Utilizes research based practices to resolve specific relationship challenges. Stresses increased understanding of desirable relationship outcomes and how to achieve them.</td>
</tr>
<tr>
<td>SOC 1200</td>
<td>Sociology of the Family</td>
<td>HH</td>
<td>3:3:0</td>
<td>Su, F, Sp</td>
</tr>
<tr>
<td>SOC 2370</td>
<td>Gender Roles</td>
<td>HH</td>
<td>3:3:0</td>
<td>On Sufficient Demand</td>
</tr>
<tr>
<td>SOC 275R</td>
<td>Survey of Current Topics</td>
<td>HH</td>
<td>3:3:0</td>
<td>On Sufficient Demand</td>
</tr>
<tr>
<td>SOC 3000</td>
<td>Contemporary Social Theory</td>
<td>HH</td>
<td>3:3:0</td>
<td>On Sufficient Demand</td>
</tr>
<tr>
<td>SOC 3010   Statistics for the Behavioral Sciences</td>
<td>HH</td>
<td>4:4:0</td>
<td>Su, F, Sp</td>
<td>Prerequisite(s): MAT 1000 or MAT 1010 or HIGHER and (PSY 1010 or SOC 1010)</td>
</tr>
<tr>
<td>SOC 3020  Research Methods for the Behavioral Sciences</td>
<td>HH</td>
<td>3:3:0</td>
<td>Su, F, Sp</td>
<td>Prerequisite(s): (ENGL 2010 or ENGL 2020) and (PSY 1010 or SOC 1010) and (PSY 3010 or SOC 3010)</td>
</tr>
<tr>
<td>SOC 320G  Race and Minority Relations</td>
<td>HH</td>
<td>3:3:0</td>
<td>Su, F, Sp</td>
<td>Prerequisite(s): ENGL 2010 or ENGL 2020</td>
</tr>
<tr>
<td>SOC 3240  Applied Marriage</td>
<td>HH</td>
<td>3:3:0</td>
<td>Sp, F</td>
<td>Prerequisite(s): (PSY 1010 or SOC 1010) and (ENGL 2010 or ENGL 2020)</td>
</tr>
</tbody>
</table>
Course Descriptions

**SOC 3250** (Cross-listed with: PSY 3250)
**Applied Parenting**
3:3:0 Sp, F
- Prerequisite(s): (PSY 1010 or SOC 1010 and (ENG 2010 or ENGL 2020)
- Exposes students to classical and contemporary parenting theory, research, and practice. Application to the guidance of children is the core focus. Course material includes the study of parenting: concepts, challenges, risks, and alternatives while considering the social, physical, emotional, intellectual, and spiritual environments of the child.

**SOC 3400**
**Sociology of Religion**
3:3:0 On Sufficient Demand
- Prerequisite(s): SOC 1010 and (ENG 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
- Prerequisite(s): SOC 1010 and (ENG 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 (ENG 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 (ENG 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 3500** (Cross-listed with: PSY 3500)
**Social Psychology**
3:3:0 Su, F, Sp
- Prerequisite(s): (PSY 1010 or SOC 1010) and (ENG 2010 or 2020)
- 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.

**SOC 3560**
**Sociology of Deviance**
3:3:0 F
- Prerequisite(s): SOC 1010 and (ENG 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 3620** (Cross-listed with: PSY 3620, ANTH 3620)
**Intercultural Relations**
3:3:0 Sp
- Prerequisite(s): (PSY 1010 or SOC 1010 or ANTH 101G) and (ENG 2010 or ENGL 2020)
- Investigates potential psychological, sociological, and anthropological techniques for transcending our own culture to more objectively study current hot spots involving the United States and other governments.

**SOC 3700**
**Social Inequality**
3:3:0 Sp, Su
- Prerequisite(s): SOC 1010 and (ENG 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** (Cross-listed with: PSY 4020)
**Survey Research Design**
3:3:0 Sp, Su, F
- Prerequisite(s): (ENG 2010 or ENGL 2010) and (ANTH 101G or PSY 1010 or SOC 1010) and (PSY 3010 or SOC 3010) and (PSY 3020 or SOC 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 4030** (Cross-listed with: PSY 4030, SW 4030)
**Introduction to Practice Evaluation and Grant Writing**
3:3:0 F
- Prerequisite(s): (ENG 2010 or ENGL 2010) and (PSY 3010 or SOC 3010) and (PSY 3020 or SOC 3020)
- Introductory course providing 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.

**SOC 4040**
**Applied Sociology**
3:3:0 F, Sp
- Prerequisite(s): SOC 3020
- Uses sociological 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 sociological tools to identify, investigate, and actively seek viable solutions to issues of structure, process, and social change. Requires students to develop, carry out, and professionally present an original research project.

**SOC 4400**
**Social Change**
3:3:0 On Sufficient Demand
- Prerequisite(s): SOC 1010 and (ENG 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 4660** (Cross-listed with: PSY 4660)
**Family Financial Management**
3:3:0 On Sufficient Demand
- Prerequisite(s): (PSY 1010 or SOC 1010) and (ENG 2010 or ENGL 2020).
- 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.

**SOC 4670** (Cross-listed with: PSY 4670)
**Family Dynamics and Systems**
3:3:0 F
- Prerequisite(s): (PSY 1010 or SOC 1010) and (ENG 2010 or ENGL 2020).
- SOC 1200 strongly recommended.
- Introduces students to the fundamentals of family dynamics and systems as they relate to family structure and function. Focuses on historical development, theoretical underpinnings, and applied utility of dynamics and systems. Includes boundary management, infraction, and renewal in contemporary family systems.

**SOC 475R**
**Current Topics in Sociology**
3:3:0 On Sufficient Demand
- Prerequisite(s): SOC 1010 and (ENG 2010 or ENGL 2020)
- Presents selected topic 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 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.
Year courses. Introduces readings and discussions on the history, culture, and literature of the Spanish speaking world, maintaining a focus on oral proficiency.

**SPAN 202G Intermediate Spanish II**

| 4:4:0 | HH | F, Sp, Su |

- **Prerequisite(s):** Students need equivalent knowledge of SPAN 2010
- Emphasizes reading, writing, and conversation skills through studies in literature. Media reading labs are available to help reading comprehension. Requires oral and written response.

**SPAN 255R Oral Communication**

| 3:3:1 | On Sufficient Demand |

- **Prerequisite(s):** Students need equivalent knowledge of SPAN 2010
- Pursues skill development according to American Council of Teachers of Foreign Language oral proficiency guidelines, covers structural and linguistic paradigms essential to correct usage, considers proper application of tense and tense sequence, provides ample opportunity for students to interact, converse, present, and engage progressively in the language in multiple and varied formats. May be repeated for a maximum of 9 credits toward graduation.

**SPAN 3030 Spanish Conversation and Composition I**

| 3:3:0 | F |

- **Prerequisite(s):** SPAN 202G or equivalent
- Explores communicative skills in Spanish. Provides opportunity for students to improve language production through extensive oral and written instruction and study of selected literary and cultural texts. Reviews grammar topics such as verb tenses, use of adjectives, and object pronouns.

**SPAN 3040 Spanish Conversation and Composition II**

| 3:3:0 | Sp |

- **Prerequisite(s):** SPAN 202G or equivalent
- Explores communicative skills in Spanish. Provides opportunity for students to improve language production through extensive oral and written instruction and study of selected literary and cultural texts. Reviews grammar topics such as the subjunctive, relative clauses, and future and conditional tenses.

**SPAN 3050 Advanced Spanish**

| 3:3:0 | 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 | 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
Course Descriptions

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
• 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
• 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
• 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 380R
Community Engagement in Spanish
3:1:6
• 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 of six hours credit toward graduation.

SPAN 4050
Special Topics in Grammar Usage and Style
3:3:1
• Prerequisite(s): (SPAN 3030 and SPAN 3040) or SPAN 3050
Reviews Spanish grammar focusing on problem areas. Explores grammar as deployed in different genres. Emphasizes writing in different styles. Completers should be able to identify styles in readings and compose according to certain styles.

SPAN 4100
Teaching Spanish Grammar
3:3:0
• Prerequisite(s): (SPAN 3030 and SPAN 3040) or SPAN 3050
Corequisite(s): LANG 4200 recommended.
Introduces the major works of Spanish authors 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 4110
Translation and Interpretation
3:3:0
• 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
• Prerequisite(s): SPAN 202G or (SPAN 3030 and SPAN 3040 or SPAN 3050)
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.

SPAN 4130
English Spanish Interpretation for the Community
3:1:6
• 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
• 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
• 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,
SW—Social Work

SW 1010  
Introduction to Social Work and Social Welfare  
3:3:0  
Su, F, Sp
Introduces social work theory and practice. Examines the relationship between policy and practice in the context of nine major fields of social work. Considers challenges faced by today's practitioners. Explores current career opportunities in the field.

SW 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
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.

SW 3150  
Survey of Dispute Resolution  
3:3:0  
Sp, F
• Prerequisite(s): (SW 1010 or PSY 1010 or SOC 1010) or LEGL 1000
Provides practical guidance for conducting of 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.

SW 3410  
Fundamentals of Mediation and Negotiation  
3:3:0  
Sp, F
• Prerequisite(s): (SW 1010 or PSY 1010 or SOC 1010) or COMM 1050 or LEGL 1000
Reviews grief and loss themes. Familiarizes students with vocabulary and explores related issues. Considers challenges faced by today's practitioners. Explores current career opportunities in the field.

SW 3500  
Social Welfare Policies and Services  
3:3:0  
F, Sp
• Prerequisite(s): SW 1010 and (ENGL 2010 or ENGL 2020)
Introduces students to the subject of thanatology. Reviews theories and research associated with death and dying. Examines death systems, cultural norms, taboos and rituals. Studies the health care system, public policy, laws, and customs. Addresses death from a developmental perspective. Explores life-threatening illness, suicide, and end-of-life issues. Reviews grief and loss themes. Familiarizes students with vocabulary and explores related human service occupations such as bereavement counseling and hospice care.

SW 3750  
Child Abuse/Neglect and Domestic Violence  
3:3:0  
F, Sp
• 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 3800  
Clinical Interviewing Skills  
4:3:0  
Sp, F
• Prerequisite(s): SW 1010 and PSY 3400
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.

SW 4030  
Introduction to Practice Evaluation and Grant Writing  
3:3:0  
F
• Prerequisite(s): (ENGL 2010 or ENGL 2020) and (PSY 3020 or SOC 3020)
Provides practical guidance for conducting of 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.

SW 4050  
Clinical Research  
3:3:0  
F
• Prerequisite(s): (ENGL 2010 or ENGL 2020) and (PSY 3010 or SOC 3010) and (PSY 3020 or SOC 3020)
Introduces students to the subject of thanatology. Reviews theories and research associated with death and dying. Examines death systems, cultural norms, taboos and rituals. Studies the health care system, public policy, laws, and customs. Addresses death from a developmental perspective. Explores life-threatening illness, suicide, and end-of-life issues. Reviews grief and loss themes. Familiarizes students with vocabulary and explores related human service occupations such as bereavement counseling and hospice care.

SW 4100  
Advanced Mediation and Negotiation  
3:3:0  
Sp, F
• Prerequisite(s): PSY 3410 or SW 3410 or COMM 3410 or LEGL 3410
Introduces students to the subject of thanatology. Reviews theories and research associated with death and dying. Examines death systems, cultural norms, taboos and rituals. Studies the health care system, public policy, laws, and customs. Addresses death from a developmental perspective. Explores life-threatening illness, suicide, and end-of-life issues. Reviews grief and loss themes. Familiarizes students with vocabulary and explores related human service occupations such as bereavement counseling and hospice care.

Course Descriptions

SW 4200  
Domestic Mediation  
3:3:0  
Sp, F
• Prerequisite(s): LEGL 3410 or PSY 3410 or SW 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 in simulated class role-plays.

SW 4300  
Introduction to Counseling and Psychotherapy  
3:3:0  
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.

SW 4400  
Introduction to Group Psychotherapy  
3:3:0  
Su, F, Sp
• Prerequisite(s): (PSY 1010 or SW 1010) and PSY 3400 and (ENGL 2010 or ENGL 2020)
Introduces students to the subject of thanatology. Reviews theories and research associated with death and dying. Examines death systems, cultural norms, taboos and rituals. Studies the health care system, public policy, laws, and customs. Addresses death from a developmental perspective. Explores life-threatening illness, suicide, and end-of-life issues. Reviews grief and loss themes. Familiarizes students with vocabulary and explores related human service occupations such as bereavement counseling and hospice care.

SW 4500  
The DSM of Mental Disorders  
3:3:0  
Sp, F
• Prerequisite(s): PSY 3400 and (ENGL 2010 or ENGL 2020)
Provides an overview of the Diagnostic and Statistical Manual of mental disorders (DSM) based on clinical diagnosis. Teaches DSM based clinical diagnosis. Teaches DSM diagnoses including diagnostic criteria, prevalence rates, gender and cultural differences in prevalence and symptomatology, disease course, and differential diagnosis. Uses class discussions, videotapes of individuals with different DSM diagnoses, and case scenarios.
SW 4700 Case Management in Social Work Practice
3:3:0 Sp, F
  • 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
3:3:0 On Sufficient Demand
  • 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 Practicum
3:3:0 Sp, Su, F
  • Prerequisite(s): Senior standing in the Behavioral Science Department. Must have completed or be enrolled in (PSY 4300 or SW 4300) or (PSY 4400 or SW 4400). Must have instructor’s consent.
  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. Requires minimum six hours work per week in an approved setting, and in-class study three hours per week.

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 limited formal instruction and faculty supervision. Projects may include writing a publishable paper, passing a competency exam, producing an annotated bibliography, oral presentation, or other options as approved by the instructor. May be repeated for a maximum of six credits.

TCT—Telecommunications Technology

TCT 1110 Introduction to Telecommunications Technology
3:3:0 On Sufficient Demand
  Studies basic communications concepts including information theory, modulation techniques, multiplexing, sampling, and spectral analysis. Teaches the differences between digital and analog transmission. Builds an understanding of the differences between packet switching and circuit switching networks. Reviews the historical development of telecommunications and introduces voice and data communications networks.

TCT 1120 Electronic Systems Test and Measurement
2:2:0 On Sufficient Demand
  • Corequisite(s): TCT 112L
  Introduces the fundamentals of electricity. Studies basic techniques of test and measurement of electrical and electronic systems. Teaches the operation of common test instruments. Studies resistance, heat, power, voltage, current inductance, capacitance, transformers, semiconductors, operational amplifiers, and logic gates. Examines schematic symbols, diagrams, and signal flow diagrams.

TCT 112L Electronic Systems Test and Measurement Laboratory
2:0:6 On Sufficient Demand
  • Corequisite(s): TCT 1120
  Covers operation of digital multimeter, oscilloscope, logic probe, logic analyzer and spectrum analyzer to perform various measurements in a lab setting. Teaches voltage, current, resistance, inductance, capacitance, and power measurements. Studies diode and transistor junction measurements and basic soldering of electronic components.

TCT 1130 Introduction to Digital Circuits and Systems
4:2:6 On Sufficient Demand
  Studies the binary number system. Presents boolean algebra to understand the design of digital circuits. Studies basic electronic devices that implement boolean logic including AND, OR, NAND, NOR, XOR gate sets. Uses Karnaugh maps to reduce complex boolean expressions. Introduces sequential logic and state machines preparatory to the study of stored program computer architecture. Studies the various types of computer memory systems as well as various input/output interfaces.

TCT 1210 Introduction to Digital Communications
3:3:0 On Sufficient Demand
  • Prerequisite(s): TCT 1110
  • Corequisite(s): TCT 121L
  Introduces data communications fundamentals. Studies data encoding techniques, clock recovery, clock jitter, noise impairment, bandwidth impairment, cabling, packetization, error detection and recovery. Teaches parallel data links, serial data links, media access protocols, Ethernet physical link, token ring networks and asynchronous transfer mode networks.

TCT 121L Digital Communications Laboratory
2:0:6 On Sufficient Demand
  • Corequisite(s): TCT 1210
  Presents methods of building, testing, monitoring, and troubleshooting digital data networks. Studies cable construction and testing, test equipment operation, Ethernet data link layer testing and monitoring in a hands-on laboratory environment.

TCT 1220 Telephony Systems Theory
4:4:0 On Sufficient Demand
  • Prerequisite(s): TCT 1110
  • Corequisite(s): TCT 122L
  Studies fundamentals of the world wide public switch telephone network. Includes history of the public telephone system, human voice characteristics, twisted pair characteristics, in-band signaling, DTMF signaling, central office switching, trunk circuits, multiplexing and private branch exchange. Covers digital telephony, call switching, echo suppression, modems, T1 trunks, SS7 call control protocol, integrated services digital networks (ISDN), digital subscriber lines (DSL) and voice over packet switched networks.

TCT 122L Telephony Systems Laboratory
2:0:6 On Sufficient Demand
  • Corequisite(s): TCT 1220
  Studies methods of construction, testing, and monitoring of telephone infrastructure. Includes telephone cabling, termination, tracing, T1 testing and monitoring, PBX operation, T1 switching hardware, and call routing.

TCT 2120 Fiber Optics Transmission Theory
3:3:0 On Sufficient Demand
  • Prerequisite(s): TCT 1210
  • Corequisite(s): TCT 212L
  Introduces fiber optic transmission systems. Includes transmission line principles, fiber optic materials, cabling specification and practice, and amplification of optical signals. Teaches synchronous optical networks, optical carrier multiplex standards, SONET, and wavelength division multiplexing.

TCT 212L Fiber Optics Transmission Laboratory
1:0:3 On Sufficient Demand
  • Corequisite(s): TCT 2120
  Studies methods and practice of fiber optic cable systems. Presents the construction and testing of fiber optic cables, optical switching systems, and optical carrier systems.

TCT 2210 Wireless RF Communications Theory
4:4:0 On Sufficient Demand
  • Prerequisite(s): TCT 1210, CS 2600
  • Corequisite(s): TCT 221L
  Presents wireless communication theory and practice. Includes electromagnetic radiation, transmission lines, forward and reflected power, transmitter fundamentals, modulation, noise and receiver fundamentals. Covers broadcast systems, point-to-point microwave systems, digital transmission fundamentals, radio repeaters, duplex wireless communications, and cellular telephone systems.

TCT 221L Wireless RF Communications Laboratory
4:0:12 On Sufficient Demand
  • Corequisite(s): TCT 2210
  Presents testing, measuring, and monitoring of wireless communication systems using various test equipment. Uses test instruments to make various RF measurements including power, voltage, frequency, distortion, signal to noise ratio, sensitivity and dynamic range.

TCT 2220 Audio and Video Protocols and Systems
3:3:0 On Sufficient Demand
  Studies the fundamentals of audio and video systems. Includes fundamentals of broadband communications systems, cable television, cable Internet modems, DSS satellite systems, video systems, video compression fundamentals, audio systems and audio compression.
Course Descriptions

TCT 2230 Telecommunications Physical Plant Systems 3:3:0 On Sufficient Demand
- Prerequisite(s): TCT 1210
Studies the principles of physical plant planning and implementation. Includes layout practice, technical access, cabling support systems, cable distribution and layout, cable designation and labeling. Teaches AC power distribution systems, DC power systems, grounding practice, air conditioning, fire control, facility monitoring and remote control. Includes security and intrusion alarm systems, and FCC regulations and specification.

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 Su, F, Sp
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
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
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 Su, 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
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 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 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
Studies interrelated aspects of reliability, safety, other important risk factors, environmental concerns, and ergonomic considerations in a technological enterprise. Presents a mixture of academic study, investigation of numerous actual cases, surveys of local businesses, and discussion of current events in these areas. Studies requirements of governmental agencies. Studies communication and community interaction techniques to prevent and mitigate human error.

TECH 405G Global Ethical and Professional Issues in Technology 3:3:0 F, Sp, Su
- Prerequisite(s): PHIL 2050 and (TECH 3000 or INFO 3430 or CS 2420 or DGM 3220)
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
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 10-11
- 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.
Course Descriptions

TECH 4400  
Advanced Project Management  
3:3:0  F, Sp  
- Prerequisite(s): TECH 3400 or INFO 3400  
Presented 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 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 along with contemporary approaches to building, managing and protecting information systems. Emphasizes how information technology affects the decision-making and policy development process. In addition, examines the ethical and legal issues raised by the capabilities of information technology.

TECH 481R  
Internship  
1 to 3:5 to 15  F, Sp, Su  
- Prerequisite(s): Approval of Technology Management Department Chair  
For Technology Management bachelor degree students who do not have work experience in their technological specialty. Provides opportunities to apply classroom theory while students work as employees in a job that relates to their careers. Students communicate regularly with a School of Technology and Computing coordinator. Credit is determined by the number of hours a student works during the semester and completion of individually set goals. Three credits may be applied toward a Bachelor of Science Degree in Technology Management. Graded credit or no-credit.

TECH 4820  
Current Topics in Technology Management  
2:2:0  F, Sp  
- Prerequisite(s): Senior Status or Instructor Approval  
Guest lecture series format designed to provide a review of how various industry and trade professions will be affected by new and developing technologies in the short- and mid-term future. Acquaints students with the newest technological developments in their fields. Prepares students, through research, for the changes that various technologies will bring their professions.

TECH 489R  
Undergraduate Research in Technology Management  
1 to 3:5 to 15  Su, F, Sp  
- 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. Requires the creation of a significant intellectual or creative product that is characteristic of the Technology Management discipline and worthy of communication to a broader audience. May be repeated for a maximum of 3 credits toward graduation.

TECH 4910  
(Self-scheduled: CMGT 4500)  
Senior Capstone Project  
3:3:0  F, Sp, Su  
- Prerequisite(s): Senior Status  
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 497R  
Independent Study  
1 to 3:0:3 to 9  Su, F, Sp  
- 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—Theatre

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  
3:2:3  F, Sp, Su  
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. Uses selected motion picture examples to examine the filmmaker's manipulation of time, space, and sound. Combines lecture, screening, and demonstration with critical discussions of assigned readings and films.

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  
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 (IPA) 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  
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  
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 I  
1:0:3  F, Sp  
Provides opportunity for earning college credit for supervised performance and production assignments in UVU theatre productions from dress rehearsal through closing performance (excluding...
INTRODUCES PERSPECTIVE DRAWING, FIGURE DRAWING, CONCEPTUAL RENDERINGS, MODELS, AND DRAFTING. USES RESEARCH, STUDIES THE DESIGN PROCESS ASSOCIATED WITH COSTUMES, SCENERY, AND LIGHTING. USES RESEARCH, AND APPLICATION TO THE FILM AND TELEVISION INDUSTRIES. 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 costuming. 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
Explores the development of the feature film, both in America and abroad from 1895 to 1945. Covers the evolution of film pictures from conception as an entertainment novelty (c. 1895) to the mass-audience, commercial art form of the 1940's. Examines film as a serious historical study of a form of mass communication, which has had ethical, social, and political consequences on society. Includes lecture, screenings, and demonstrations with critical discussions of assigned readings and films.

THEA 2323
Film History II
3:2:2 Sp
- Prerequisite(s): THEA 1023
Survey of cinema history focused upon social, aesthetic, business, and technical dimensions of film and media from 1945 to the present. Emphasizes the parallel emergence and interrelationship of Hollywood and international cinema. Some films screened may be considered controversial and carry an "R" rating.

THEA 234R
Special Topics in Film Studies
3:2:2 Not 10-11
- 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 8 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 Sp
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.

THEA 2713
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 playwriting, direction, acting, design or other supervised performance, labor, or research in theatre or film. Proposals must be submitted and approved by the department or instructor prior to enrollment. May be repeated for a maximum of 3 credits toward graduation.

THEA 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 3113
Acting for Film 3:3:0 Sp
- Prerequisite(s): THEA 2033 or DGM 1110
Introduces the specialized techniques of performance, audition, and agent/actor relationships as they apply to the film and television industries.

THEA 3123
Stage Dialects 3:3:0 Sp
- Prerequisite(s): THEA 1113
Teaches the creation of believable characters from various linguistic backgrounds. Emphasizes lilt, stress, resonance, and pronunciation of dialects as a stage tool. Utilizes the IPA - International Phonetic Alphabet. Includes multiple dialects from three broad geographical categories: American, British Isles, and Western Continental Europe.

THEA 3133
Stage Combat 3:3:0 Sp
- Prerequisite(s): THEA 2123
Teaches basic principles of stage combat/choreography and safety practices.

THEA 314G (Cross-listed with ENGL 314G, COMM 314G, CINE 314G)
Global Cinema History 3:2:3 F
- 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 2033
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.
Course Descriptions

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Terms</th>
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<tbody>
<tr>
<td>THEA 3503</td>
<td>Stagecraft II</td>
<td>3:3:0</td>
<td>F, Sp</td>
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<td></td>
<td>Prerequisite(s): THEA 1513</td>
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<td></td>
<td>Develops intermediate skills in the various stage crafts</td>
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<td>including carpentry, property construction, lighting and</td>
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<td>sound for theatre and film. Includes further education in</td>
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<td>drafting; set and lighting principles; professional,</td>
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<td>management and safety practices. Students fulfill assigned</td>
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<td>responsibilities for UVU theatrical productions.</td>
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<td>THEA 3513</td>
<td>Set and Prop Construction and Painting</td>
<td>3:3:0</td>
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<td>Prerequisite(s): THEA 2513</td>
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<td>Focuses on integration of elements and phases of advanced</td>
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<td>set construction, property construction and paint finishes</td>
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<td>for theatrical sets. Includes shop work and experience on</td>
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<td>UVU theatre productions.</td>
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<td>THEA 3533</td>
<td>Lighting and Sound Design I</td>
<td>3:3:0</td>
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<td>Prerequisite(s): THEA 2513</td>
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<td>Focuses on the designing and practical application of</td>
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<td>theatrical lighting and sound. Includes laboratory work on</td>
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<td>UVU theatre productions.</td>
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<td>THEA 3553</td>
<td>Period Styles for Theatre Design</td>
<td>3:3:0</td>
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<td>Prerequisite(s): THEA 2513</td>
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<td>Introduction to historical styles of architecture,</td>
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<td>painting, and dress as they influence theatrical design.</td>
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<td>THEA 3563</td>
<td>Art Direction for Film</td>
<td>3:3:0</td>
<td>F</td>
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<td></td>
<td>Prerequisite(s): THEA 3553</td>
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<td>Not 10-11</td>
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<td></td>
<td>Focuses on the basics of production design and art direction,</td>
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<td>the importance of costumes, props, locations selection,</td>
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<td>special effects, and set decoration in the visual presentation</td>
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<td>of a cinematic story.</td>
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<tr>
<td>THEA 359R</td>
<td>Production Practicum for Stage and Screen III</td>
<td>1:0:3</td>
<td>F, Sp, Su</td>
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<td></td>
<td>Prerequisite(s): THEA 259R</td>
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<td></td>
<td>Provides opportunity to earn college credit for managing</td>
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<td>projects in production for the period up to dress</td>
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<td>rehearsal and during strike. This includes projects in</td>
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<td>lighting, sound, costumes, props, scenery, design,</td>
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<td>stage management, running crews, house management or</td>
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<td>publicity. Includes the development of a contract</td>
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<td>between the student and the assigned instructor. May be</td>
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<td>repeated for a maximum of 2 credits toward graduation.</td>
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<tr>
<td>THEA 3613</td>
<td>Directing Actors</td>
<td>3:3:0</td>
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<td></td>
<td>Prerequisite(s): (THEA 1713 and THEA 1033) or DGM 2110</td>
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<td></td>
<td>Introduces basic directing techniques utilized in casting and</td>
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<td>rehearsing actors for stage and screen performance. Places</td>
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<td>emphasis on achieving honest and believable performances in</td>
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<td>the intimate style of camera acting, as well as the highly</td>
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<td>physical acting style of the stage. Includes studies in</td>
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<td>script structure, visualization, movement, pace and rhythm,</td>
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<td></td>
<td>gesture, casting techniques, and rehearsal techniques.</td>
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<tr>
<td>THEA 3623</td>
<td>Advanced Direction of Actors for Theater</td>
<td>3:3:0</td>
<td>F</td>
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<td></td>
<td>Prerequisite(s): THEA 3613</td>
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<td></td>
<td>Builds upon concepts covered in Directing I.</td>
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<td>Includes class workshops and demonstrations</td>
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<td>followed by class/instructor critique.</td>
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<td>Requires completion and presentation of a director's book.</td>
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<td>Culminates in public presentation of a one-act play.</td>
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<td>THEA 3633</td>
<td>Introduction to Stage and Theatre Management</td>
<td>3:3:0</td>
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<td>Prerequisite(s): THEA 1513</td>
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<td>Introduces students to the basic processes of creating and</td>
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<td>managing a theatre production organization. Includes</td>
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<td>introductory structural organization, collaboration,</td>
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<td>strategic planning, accounting, and marketing concepts,</td>
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<td>procedures, and simulation exercises.</td>
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<td>Prepares students for upper division courses in theatre</td>
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<tr>
<td>THEA 3643</td>
<td>Advanced Direction of Actors for Film</td>
<td>3:3:0</td>
<td>Su, F, Sp</td>
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<td></td>
<td>Prerequisite(s): THEA 3613</td>
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<td></td>
<td>Builds upon concepts covered in Directing Actors. Includes</td>
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<td>class workshops and demonstrations</td>
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<td>followed by class/instructor critique.</td>
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<td>Requires completion and presentation of a director's book.</td>
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<td>Culminates in public presentation of a short film.</td>
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<td>For Digital Media Majors and Theatre Majors (only with</td>
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<td>instructor approval).</td>
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<tr>
<td>THEA 3663</td>
<td>Period Styles for Theatre Design</td>
<td>3:3:0</td>
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<td></td>
<td>Prerequisite(s): THEA 2513</td>
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<td></td>
<td>Introduction to historical styles of architecture,</td>
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<td>painting, and dress as they influence theatrical design.</td>
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<td>THEA 3700</td>
<td>Script and Text Analysis II</td>
<td>3:3:0</td>
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<td></td>
<td>Prerequisite(s): THEA 1713</td>
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<td></td>
<td>Expands on principles and theories introduced in Script and</td>
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<td>Text Analysis I. Focuses on the practical application of</td>
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<td>dramatic, narrative, semiocic, developmental, and</td>
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<td>filmic theory to the art and practice of the writer, actor,</td>
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<td>designer, director, educator and dramaturg.</td>
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<td>THEA 3713</td>
<td>Theatre and Drama in the Elementary School</td>
<td>3:2:2</td>
<td>F, Sp</td>
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<td></td>
<td>Prerequisite(s): THEA 1713</td>
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<td></td>
<td>Teaches students how to build bridges between play and</td>
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<td>learning by exploring how theatre and theatre games can be</td>
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<td>used to educate elementary students in the joys of theatre</td>
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<td></td>
<td>and the ways drama can be used to learn deeper lessons in</td>
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<td></td>
<td>other disciplines. Incorporates theory, materials, and</td>
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<td>practice--including story dramatization, play writing,</td>
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<td>rehearsal techniques, storytelling, puppets, pantomime,</td>
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<td>role-play and theatre games. Addresses the Utah State Core</td>
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<td>Curriculum in Theatre at Secondary and Elementary levels.</td>
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<tr>
<td>THEA 3723</td>
<td>Theatre History and Literature I</td>
<td>3:3:0</td>
<td>F</td>
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<td></td>
<td>Prerequisite(s): THEA 1013, THEA 1713, ENGL 2010 or ENGL 2020</td>
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<td></td>
<td>Examines the history of the theatre from its earliest</td>
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<td>origins through the Renaissance. Emphasizes theatre</td>
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<td>practice in its social, political and economic contexts.</td>
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<td>Introduces the theory and skills necessary for writing</td>
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<td>analytically about the theatre.</td>
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<td>THEA 3733</td>
<td>Theatre History and Literature II</td>
<td>3:3:0</td>
<td>Sp</td>
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<td></td>
<td>Prerequisite(s): THEA 3723</td>
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<td></td>
<td>Examines the history of the theatre and its associated</td>
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<td>literature and artists from the Restoration to the present</td>
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<td>time. Focuses on historical theatre practice in its social,</td>
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<td>political and economic contexts. Introduces the theory and</td>
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<td>skills necessary for writing performance reviews and extended</td>
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<td>research papers in theatre.</td>
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<td>THEA 374R</td>
<td>New Script Workshop</td>
<td>3:2:3</td>
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<td>Prerequisite(s): THEA 2713 or THEA 3753 or THEA 1033 or</td>
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<td>THEA 3613 or THEA 3613</td>
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<td>Acts as a reading, performance, discussion and improvisation</td>
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<td>lab for scriptwriter's creative works. Involves students in</td>
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<td>the process of polishing, refining, and brainstorming</td>
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<td>dramatic works. Supports original student scripts with the</td>
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<td>ultimate goal of production. Integrates the work of</td>
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<td>writers, directors and actors into a collaborative</td>
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<td>effort. Includes active class discussions, readings,</td>
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<td>improvisations, written and oral presentations and</td>
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<td>critiques, research and completion of a project. May be</td>
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<td>repeated for a maximum of 6 credits toward graduation.</td>
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404  Catalog 2010–2011  Utah Valley University
THEA 414R (Cross-listed with: ENGL 414R)
Special Topics in Cinema History
3:2:3 Sp
• Prerequisite(s): THEA 1023
Focuses on specific topics which may be chosen by the instructor, such as a period or a director. May be repeated for credit with change on topic.

THEA 416R (Cross-listed with: ENGL 416R, CINE 416R)
Special Topics in Film Studies
3:3:0 Su, F, Sp
• Prerequisite(s): THEA 1023 or ENGL 2150
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. Films screened may carry an “R” rating.

THEA 4200
Theatre and Drama in the Secondary School
3:3:0 F
• Prerequisite(s): EDSC 3000 and EDSC 4550 and matriculation in to a Secondary Education Program
For theatre majors interested in teaching theatre arts at the secondary and college levels. Introduces methodologies, strategies, and philosophies of theatre pedagogy based upon current research and practices. Emphasizes lesson plan writing using the Utah State Secondary Theatre Core Curriculum and the National Committee for Standards in the Arts. Integrates theory and practice through active class discussions, readings, written and oral presentations, research and final readings of students completed projects.

THEA 424R
Special Projects in Dramatic Writing
2 to 9:1:4 to 12 Not 10-11
• 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, mime, 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/ development and possible workshop presentation. May be repeated for a maximum of 9 credits toward graduation.

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 4233
Costume Design II
3:3:0 F
• Prerequisite(s): THEA 4213
Develops further the theories of costume design and provides more experience with practical application through research and rendering. Emphasizes advanced conceptual ideas based in script and director's concept. Encourages organization of a professional portfolio.

THEA 4513
Sets and Properties Design
3:3:0 Sp
• Prerequisite(s): THEA 2513, THEA 3513, and THEA 3553
Advanced application of the principles of scenic design for sets and properties. Includes completion of at least one project design including elevation drawing and drafting, rendering and model building. Emphasizes conceptual ideas based on script and director's concept. Student designers for UVU productions may be selected from this class.

THEA 4533
Advanced Lighting Design
3:3:0 Sp
• Prerequisite(s): THEA 3533
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 4515R
Special Projects in Design for Stage and Screen
1 to 3:0:3 to 9 Not 10-11
• Prerequisite(s): THEA 3223, or THEA 4333, 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 4516R
Special Topics in Theatre
1 to 3:1 to 3:0
• 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 4536R
Theatre Management II
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 10-11
• 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
WELD 1010  
Related Oxyacetylene Welding  
2:1:3  
A specialty course for various trades and community members. A beginning course which covers theory and practice of oxyacetylene fusion welding of sheet steel, including cutting, welding and braze welding of ferrous and non-ferrous metal.

WELD 1020  
Related Arc Welding  
2:1:3  
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  
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 10-11  
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 10-11  
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 10-11  
- Prerequisite(s): WELD 1100
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  
6:5:3  
Not 10-11  
- Prerequisite(s): EGDТ 1000
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 10-11  
- 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 10-11  
- 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, scarifying and heating.

WELD 1310  
Industrial Maintenance 4B  
5:5:0  
Not 10-11  
- 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 10-11  
- 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 1330  
Pipe Welding  
5:5:0  
Not 10-11  
- Prerequisite(s): WELD 1320 or Instructor’s Written Approval
For Mechanical Repair Apprentices. Part two of two part series. Combines principles covered in WELD 1300, 1310, and 1320. Emphasizes weld certification of pipe and plate for vertical and overhead positions. Successful completers should be available to pass welding qualification tests in all four welding positions with AWS E7018.

WELD 1340  
Industrial Mechanics Orientation and Fundamentals  
5:5:0  
Not 10-11  
For Mechanical Repair Apprentices. Covers applied math, physics, measuring and blue print reading.

WELD 1350  
Industrial Maintenance 3D  
5:5:0  
Not 10-11  
- 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 10-11  
- 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 AWS E7018.

WELD 2310  
Welding Inspection  
2:2:0  
Not 10-11  
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 10-11  
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 10-11  
- Prerequisite(s): WELD 1100, WELD 1200, WELD 2300

WELD 2410  
Advanced Blueprint and Design  
3:2:3  
Not 10-11  
- Prerequisite(s): EGDТ 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 pattern design and instrumentation use. Includes lab.

WELD 281R  
Cooperative Work Experience  
1 to 8:5:3 to 40  
Not 10-11  
- 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

- **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

- **Corequisite(s):** Not 10-11

Designed for Welding 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.

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**Zool—Zoology**

**Zool 1090**

Introduction to Human Anatomy and Physiology

3:3:0

- **Prerequisite(s):** BIOL 1010 or BIOL 1610

Practices a basic introduction to the sciences of anatomy and physiology. Covers the basic structure and function of the human body at the cellular, tissue, organ, and system levels. Provides a foundation of particular value for pre-nursing students who wish to have a preview of their required life science courses.

**Zool 2320**

Human Anatomy

3:3:3

- **Prerequisite(s):** BIOL 1010 or BIOL 1610, ENGL 1010 or written permission of the Anatomy program coordinator.

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. Includes weekly laboratory study of human cadavers, models, and specimens.

**Zool 232H**

Human Anatomy

4:3:3

- **Prerequisite(s):** BIOL 1010 or BIOL 1610, ENGL 1010 or written permission of the Anatomy program coordinator.

Corequisite(s): ZOOL 2320 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. Includes weekly laboratory study of human cadavers, models, and specimens.

**Zool 2400**

Animal Kingdom

4:3:2

- **Prerequisite(s):** BIOL 1010 or BIOL 1610 or instructor's permission

Covers the animal kingdom and surveys its worldwide diversity, emphasizing the major animal phyla from the invertebrates through the vertebrates. Emphasizes structure, reproduction, behavior, ecology, conservation, systematics and evolution. Includes a weekly laboratory.

**Zool 2420**

Human Physiology

4:3:3

- **Prerequisite(s):** BIOL 1010 or BIOL 1610 and CHEM 1110

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 242H**

Human Physiology

4:3:3

- **Prerequisite(s):** BIOL 1010 or BIOL 1610, CHEM 1110, written permission of the physiology program coordinator.

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

- **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

4:3:2

- **Prerequisite(s):** BIOL 1010 or BIOL 1620 and student assessment scores as listed in BIOL 1610

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 3200**

Invertebrate Zoology

4:3:2

- **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

- **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

- **Corequisite(s):** BIOL 1620 and BIOL 1625

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 control, and forensic investigations.

**Zool 3435**

Entomology Laboratory

4:3:2

- **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

4:3:2

- **Prerequisite(s):** BIOL 1620 required. ZOOL 3100 highly recommended

Examines the taxonomy, morphology, behavior, ecology, evolution, development, and conservation of mammals. Includes three weekly lectures and a weekly laboratory.

**Zool 3700**

(Cross-listed with: PES 3700)

Exercise Physiology

4:3:3

- **Prerequisite(s):** ZOOL 1090 or (ZOOL 2320 and ZOOL 2420), MATH 1050

For Physical Education or Education majors with an emphasis in physical education, specializing in coaching, or athletic training. Studies physiological response to exercise. Addresses clinical applications. Includes weekly laboratory.

**Zool 4000**

Animal Behavior

3:3:0

- **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
- 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
- Prerequisite(s): ZOOL 2320 or 232H

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 4200**
**Histology**
4:3:2
- Prerequisite(s): ZOOL 2320 or 232H

Focuses on tissue, organ, and system levels. 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 4300**
**Comparative Vertebrate Zoology**
4:3:3

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 4400**
**Advanced Anatomy**
4:2:6
- 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 4500**
**Pathophysiology**
4:4:0
- Prerequisite(s): ZOOL 2320, ZOOL 2420, and MICR 2060

For Biology majors with an emphasis in human physiology, pre-professional majors, and nursing students. Studies pathophysiological etiology and mechanisms that cause disease and altered physiological control and function of organs and organ systems. Emphasizes the gross histopathological and physiological alterations that occur in various disease states.

**ZOOL 4600**
**Ornithology**
4:3:2
- 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
- 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
- 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
- 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
Assistant Attorney General ............................................. David C. Jones
Executive Director, Planning & Budget ............................ Linda L. Makin
Director, Institutional Research ..................................... Robert Loveridge
Director, Institutional Effectiveness ................................ Marcus Jorgensen
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Special Assistant to the President ..................................... Kyle Reyes
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Vice President, Student Affairs ....................................... Cory L. Duckworth
Vice President, Administration and Legislative Affairs ...... Val L. Peterson
Vice President, Advancement ......................................... Q. Val Hale

ACADEMIC AFFAIRS

Interim Vice President ....................................................... Ian Wilson
Associate Vice President, Administration ....................... Mohammed El-Saidi
Associate Vice President, Academic Programs .................. Kathie Debenham
Associate Vice President, Engaged Learning ..................... TBD
CTE Director .............................................................. Susan Thackeray
Dean, Woodbury School of Business ............................... Norman S. Wright
Associate Dean, Woodbury School of Business ............... Eugene Seeley
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
Dean, College of Humanities and Social Sciences ............ David Yells
Associate Dean, College of Humanities and Social Sciences Frederick White
Dean, School of the Arts .............................................. Patrick M. Jones
Dean, College of Science and Health ............................. Samuel Rushforth
Associate Dean, College of Science and Health ............... Daniel Fairbanks
Assistant Dean, College of Science and Health ................. David Jordan
Assistant Dean, College of Science and Health ................ Louise Illes
Assistant Dean, College of Science and Health ................ Daniel Horns
Assistant Dean, College of Science and Health ................. Kerri Howlett
Dean, College of Technology and Computing ................ Ernest Carey
Associate Dean, School of Computing ............................ Abraham Teng
Associate Dean, School of Applied Technology
and Construction .................................................. Larry Marsing
Assistant Dean, Aviation Science ............................. Greg Schwab
Assistant Dean, Emergency Services ....................... Jeff Maxfield
Senior Director, Community and Continuing Education .... Diana Hunter
Director, Faculty Center for Teaching Excellence ............ Anton Tolman
Senior Director, Student Success and Retention .......... Michelle Kearns
Director, Academic Class Scheduling and Curriculum ...... Eva Bernfeld

ADMINISTRATION AND LEGISLATIVE AFFAIRS
Vice President ................................................................ Val L. Peterson
Associate Vice President, Facilities/Planning .................... Jim Michaels
Associate Vice President, Finance .................................. TBD
Associate Vice President, Information Technology/CTO .... Ray Walker
Assistant Vice President, Major Projects ....................... Tom Rasmussen
Assistant Vice President, Business Services/Controller ... Mike Francis
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 .................................................. Kedric Black
Director, Auxiliary Services ........................................... Kenneth Matthews
Bursar .............................................................................. Bernell Hofheins
Director, Small Business Development Center ............. Steve Clark
Executive Director, Human Resources ........................ Patricia Forbes
Director, Printing Services .......................................... David Scott
Director, Purchasing ..................................................... Ryan Lindstrom
Director, Events Center ................................................ Mark Hildebrand
Director, Infrastructure and Programming ..................... Eddie Sorensen
Director, Technology Support Services ....................... David Tobler
Database Administrator .................................................. Tracy Adams
Director, Telephone Services ....................................... Tom Branam
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
IT Security Officer ...................................................... Leroy Brown
Director, Automation & Integration ............................ Mike Duffin
Director, Media Services ............................................ Travis Tasker
Director, Systems Administration ............................... Brett McKeachnie
Director, Administrative Computing ........................... Joe Belnap

ADVANCEMENT
Vice President .......................................................... Marc Archambault
Associate Vice President ............................................ TBD
Associate Vice President, University Marketing
and Communications ............................................... Chris Taylor
Associate Vice President, Development ........................ TBD
Associate Vice President, International Affairs ............. Rusty Butler
Director, Alumni Relations ........................................... Jeri Alphin
Director, Annual Fund .............................................. Cristina Planezolla
Director, Creative Services ......................................... Matt Bambrough
Director, Data Management ....................................... Bart Jacobs
Director, Events ........................................................... Mike Maughan
Director, Publication and Marketing .......................... Brad Plothow
Director, Stewardship and Donor Relations .................. Nancy Smith
Director, Studios and Broadcasting ............................. Will McKinnon
Director, UVU Foundation ......................................... Robert Hanson
Director, Web Resources ........................................... Anne Arendt

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
Director, Student Success and Retention ..................... Michelle Kearns
Director, Turning Point ................................................ Carol Verbeeky
Coordinator, Equity in Education ............................... Jennie Briggs
Coordinator, Child Care Resource and Referral ............. Julia Mohr
Coordinator, Wee Care Center .................................... Mary Ellen Larsen
Administration

Director, Student Affairs Grants and Development .................... Greg Jackson
Director, School, College and University Partnership ............... Liz Andrus
Director, Statewide GEAR UP ............................................. Laurie Miller
Web Developer ................................................................. Ronnett Stutz
Director, TRIO/UpwardBound/Talent Search ......................... Maraiia Weingarten
Director, Admissions and Registration ................................. Ryan Burton
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 Sorenson
Wasatch Campus ............................................................... Shad Sorenson
Campus Administration, Wasatch Campus ............................ Tom Melville
Senior Director, Career and Academic Counseling ................... TBA
Director, Multicultural Center ........................................... Gwen Anderson
Director, Accessibility Services ......................................... Edward Martinelli
Director, Advisor Training and Development ....................... Clint Moser
Director, Testing Services ................................................ Colleen Sorensen
Director, TRiO Support Services ....................................... Keith Jensen
Senior Director, Career and Student Employment ................ Cary Boone Jones
Director, Career Services ................................................ Michael Snapp
Director, Internship Services ............................................. Marsha Haynes
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
Director, Judicial Affairs/Dispute Resolutions ...................... Clay Chivers
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, Media Relations .......................... Clint Burgi
Assistant Athletic Director, Sports Medicine ......................... Andrew Nelson
Assistant Athletic Director, Compliance/Student Programs .... Eric Wierhouse
Director, Center for the Advancement of Leadership ............. Bruce Jackson

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
Director, Center for the Advancement of Leadership ............. Bruce Jackson

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
Director, Center for the Advancement of Leadership ............. Bruce Jackson
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); Assistant 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); Associate 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, Clay (2007); Lecturer, Physical Education and Recreation; B.S., Physical Education, Brigham Young University; M.S., Exercise Science, Brigham Young University.

ANDERSON, Genan (2000); Associate 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, 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); Assistant Professor, Digital Media; B.A., German, Brigham Young University; M.S., Instructional Technology, Utah State University; 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); Associate Professor, Theatrical Arts; B.F.A., Theater, Utah State University; M.A., 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.

ASHMAN, Kimberly W. (2013); Department Chair/Associate Professor, Communication; J.D., Brigham Young University.

BARTHOLOMEW, Brian R. (2006); Professor, Physics; B.S., Physics, Brigham Young University; M.S., Physics, University of Utah; Ph.D., Physics, University of Nebraska-Lincoln.

BARTHEL, Brian R. (2000); Lecturer, Aviation Science; B.S., Aviation, Utah State University.

BARGERON, Brent (2006); Assistant Professor, Automotive Technology; A.A.S., Drafting and Design Technology, Utah Technical College; B.S., Technology and Industrial Education, Utah State University.

BACKUS, Ellen (2002); Associate Professor, Developmental Mathematics; B.A., Math Education; M.A., Mathematics, Brigham Young University.

BACON, Marlene (1999); Associate Professor, Basic Composition/English as a Second Language; B.S., Speech Communication; MAIS, Communication and Human Development, Oregon State University.

BENTON, 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.

BENSON, Alvin K. (2001); Professor, Physics; B.S., Physics, Brigham Young University.

BENSON, Robert (2007); Lecturer, Electrical Automation and Robotics Technology; B.S., Business Management, Utah Valley State College.

BENTLEY, Jan (1999); 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.B.A., Liberty University.

BEZZANT, Howard (2008); Instructor, 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); Professor, Philosophy and Humanities; B.S., Philosophy, University of Utah; Ph.D., Philosophy of Religion, Claremont Graduate School.

BLACK, Katherine D. (2005); Associate Professor, Accounting; B.S., Accounting, Utah State University; 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., Brigham Young University; M.A., Brigham Young University; Ph.D., University of Nebraska-Lincoln.

BLUNDELL, Simon (2004); Assistant Professor, Art and Visual Communications; B.S., Photographic Imaging; M.F.A., Photography, University of Utah.

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.

BOHNE, Michael (2007); Assistant 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, University of Utah.

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., Physiology; 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, Brigham Young University; M.Ed., Reading and Literacy, Brigham Young University; Ph.D., Curriculum and Instruction, Utah State University.

BRINKERHOFF, Mary (2010); Lecturer, Developmental Mathematics; B.S., Mathematics, Weber State University; M.S., Mathematics, University of Utah.

BRISCOE, GREGORY G. (2002); Associate Professor, Languages; B.A., Spanish, Utah State University; M.A., Spanish, University of California, Berkeley; Ph.D., Spanish, University of Pennsylvania.

BROWN, Clayton (2006); Assistant Professor, Developmental Mathematics; M.A., Teachers of Mathematics, Central Washington University.

BROWN, Kathren A. (2002); Department Chair/Associate Professor, History and Political Science; B.A., Alma College; M.A., World History; Ph.D., World History; Bowling Green State University.

BROWN, Kim (2008); Assistant Professor, Digital Media; B.S., Business Education/Administrative Systems; M.Ed., Instructional Technology, Utah State University.

BROWN, Mary (2006); Assistant Professor, Community Health; M.S., Community Health, Brigham Young University; Ph.D., Health Promotion & Education, University of Utah.

BULE, Steven C. (1999); Department Chair/Professor, Art and Visual Communications; B.A., Italian and Art History, Brigham Young University; Ph.D., Art History, Ohio State University.

BULGER, Jeffery W. (1996); Professor, Philosophy and Humanities; B.S., Geology (Petroleum Engineer), University of North Dakota; M.A., Theology, Western Seminary-Portland; Ph.D., Philosophy, University of Tennessee, Knoxville.

BULLOCK, W. Brent (1990); Associate Professor, Criminal Justice; B.S., Law Enforcement Administration; M.P.A., Public Administration; J.D., J. Reuben Clark College of Law, Brigham Young University.

BUNDS, Michael P. (2001); Associate Professor, Earth Science; B.A., Geological Sciences, University of California, Santa Barbara; M.S., Geology, University of California, Davis; Ph.D., Geology (Geochemistry, Structural Geology), University of Utah.

BYBEE, Paul (1993); Professor, Biology; A.S., General Science; B.S., Zoology/Botany/Geology, Weber State University; M.S., Ecology; Ph.D., Zoology (Comparative Evolutionary Biology; Vertebrate Paleontology), Brigham Young University.

BYRD, Elaine H. (1991); Professor, Elementary Education; B.S., Social Work, Brigham Young University; M.A., Education/Reading Specialist, Hood College, Maryland; Ed.D., Reading, Brigham Young University.

BYRNE, Andrew (2008); Assistant Professor, Emergency Services; A.A.S., Fire Science, Utah Valley University; B.S., Public Emergency Services Management, Utah Valley University; M.Ed., Instructional Technology, Utah State University.

C

CADET, Eddy L. (1993); Associate Professor, Earth Science; B.S., Biology, University of Illinois; M.S., Environmental Sciences, Tuskegee University; Licensed Environmental Health Scientist (Utah); Registered Environmental Health Specialist (REHS).

CAKA, Fern (2001); Associate Professor, Chemistry; B.A., Chemistry; M.S.; Ph.D., Analytical Chemistry, Brigham Young University.

CALDIERO, Alex (2002); Sr. Artist in Residence, Philosophy and Humanities.

CALISKAN, Cenk (2009); Assistant Professor, Finance & Economics; B.S., Industrial Engineering, Bilkent University; M.S., Ph.D., Industrial and Systems Engineering, University of California - Los Angeles.

CALL, Jolayne (1991); Associate Professor, English and Literature; B.A., English, B.Ed., Alberta, Edmonton; M.A., English and Dramatic Arts, Brigham Young University.

CALLISON, James (1994); Associate Professor, Earth Science; B.S., Biology, Southern Utah University; M.S., Range Science, Brigham Young University; Ph.D., Watershed Management, University of Arizona.

CAMPBELL, Robert (1988); Associate Professor, Automotive Technology; A.A.S., Automotive/Diesel Technology, Utah Technical College.

CANTRELL, James (2007); Lecturer, Behavioral Science; B.A., Psychology; M.A., Developmental Psychology, Chapman University; Ph.D., (ABD), Adult Education, University of Wyoming.

CARAYON, Celine (2010); Assistant Professor, History and Political Science; B.A., History; B.A., Archaeology, Universite des Arts et des Lettres Paul Valery; M.A., American Colonial History, Universite des Arts et des Lettres Paul Valery; Ph.D., Early American History, College of William and Mary.

CARD, Arlen (2009); Assistant Professor, Digital Media; B.M.A., Brigham Young University; M.M., Brigham Young University; J.D., J. Reuben Clark Law School.

CAREY, Ernest L. (1992); Dean, College of Technology and Computing; Professor, Computer and Networking Sciences; B.S., Mathematics, College of Southern Utah; M.S., Mathematics, Brigham Young University; Ed.D., Curriculum, University of Hawaii.

CARLSON, Gary G. (1984); Professor, Mathematics; B.S., Mathematics, South Dakota School of Mines and Technology; M.S., Mathematics, Colorado State University.

CARLTON, Gaya (1989); Professor, Nursing; A.S., Nursing, Weber State College; B.S., Nursing; M.S. Nursing, University of Utah, Ph.D., Nursing, University of Colorado.

CARNEY, Rob (1997); Professor, English and Literature; B.A., English, Pacific Lutheran University; M.F.A., Creative Writing-Poetry, Eastern Washington University; Ph.D., English, University of Southwestern Louisiana.

CARRIER, Scott (2007); Assistant Professor, Communication; B.A., Anthropology, University of Colorado, Boulder; M.S. Communication, University of Utah.

CARTER, Elaine C. (1987); Professor, College Success Studies; B.S., Elementary Education; M.Ed., Elementary Education-Curriculum/Instruction,
Faculty

Brigham Young University.

CHAMBERLAIN, Cory (2008); Instructor, Aviation Science; A.A.S., Aviation Maintenance Technology, Utah Technical College; B.S., Psychology, University of Utah; Master of Aeronautical Science, Embry-Riddle Aeronautical University.

CHAN, Leo (2008); Assistant Professor, Finance and Economics; B.A., Economics; Ph.D., Economics, University of Kansas.

CHANDLER, Abby (2009); Lecturer, History and Political Science; B.A., History, Colby College; M.A., American History, University of Massachusetts at Amherst; Ph.D., American History, University of Maine at Orono.

CHAPARRO, Ana Maria (2010); Lecturer, Languages; B.A., Spanish Translation; M.A., Spanish Peninsular Literature, Brigham Young University.

CHASE-DUNN, Farah (2009); Lecturer, Communications; B.S., Communication Analytical and History; M.Ed., Southern Utah University.

CHEN, Hsui-Chin (2004); Associate Professor, Nursing; B.S.N., Chung Shan Medical University; M.S., Nursing, Kaohsiung Medical University; Ph.D., Nursing, University of Utah.

CHENEY, Paul (2008); Assistant Professor, Digital Media; A.A., General Education, Ricks College; B.S., Elementary Education, Brigham Young University; M.S., Instructional Technology, Utah State University; Ph.D. (ABD), Instructional Technology, University of Virginia.

CHILDS, Kara (2007); Instructor, Developmental Mathematics; B.S., Mathematics; M.Ed., Secondary Education, Utah State University.

CHOU, Grace (2002); Associate Professor, Behavioral Science; B.A., Sociology, National Taiwan University; M.A.; Ph.D., Sociology, University of California, Riverside.

CHRISTENSEN, Trudy (2005); Assistant Professor, Digital Media; B.A., Communications, Brigham Young University; Ph.D., Instructional Psychology, Brigham Young University.

CHUNG, Joohyun (2008); Assistant Professor, Nursing; B.S., Nursing, Korea University; Ph.D., College of Nursing, University of Utah.

CLARK, Christopher (2006); Assistant Professor, Theatre; M.F.A., Directing Shakespeare, University of Exeter, Devonshire, England.

CLARK, Glen Riley (2006); Assistant Professor, Secondary Education; B.S., Zoology, Brigham Young University; M.Ed., Educational Administration, Brigham Young University; Ed.Sp., Educational Specialist, Brigham Young University.

CLARK, Steven C. (2000); Department Chair/Professor, Behavioral Science; B.S., Psychology, Brigham Young University; M.A., Ph.D., Psychology, University of New Hampshire.

CLARKE, Alan (2003); Professor, Integrated Studies; LL.M, Human Rights Law, Queen’s University, Kingston, Ontario; J.D., College of William and Mary; Ph.D.(ABD), York University..

COBB, William W. Jr. (1994); Professor, History and Political Science; B.A., Philosophy, M.A., History, Colorado State University; Ph.D., History, University of Colorado.

COCKERHAM, Geoffrey (2007); Assistant Professor, History and Political Science; B.A., Political Science, University of Illinois; M.A., Political Science, University of Arizona; J.D., Louisiana State University; Ph.D., Political Science, University of Arizona.

COLD, S. Jeff (1994); Associate Professor, Information Systems & Technology; B.S., Physical Plant Administration, Brigham Young University; M.B.A., University of Nebraska.

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