President’s Welcome Message

Welcome to Utah Valley University (beginning July 1, 2008)! I commend you for your decision to further your education, and I hope you feel welcome here at UVU. Education is the great enabler that opens doors of opportunity, and I am committed to helping you have the best educational experience available to open as many doors as possible.

This is an exciting time to be at UVU! I believe you will find the UVU approach to education engaging and refreshing. UVU is a student-centered institution whose faculty and staff are committed to helping you succeed; however, the most important part of this commitment is the one you make. Take advantage of the vast number of opportunities that UVU provides you—to learn, to grow and to prepare for meaningful lifework. Be involved in your classes, join a club, attend campus events, and frequent our new university library with over 190,000 sq. feet of space for you to engage in meaningful university work. Be committed to maximizing your educational experience and never stop learning.

One of the most pleasurable aspects of my job is interacting with students. Whether cheering on the Wolverines at athletic events or just chatting over a soda, it is my involvement with the students that makes working at UVU so enjoyable. Help me get to know you; send me an e-mail (William.Sederburg@uvu.edu), or stop me in the halls to say “Hello,” offer an insight, or ask a question.

Again, welcome to the home of the UVU Wolverines! I wish you much success in reaching your educational goals.

Sincerely,

William A. Sederburg
President
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Utah Valley University

Catalog 2008–2009
**SUMMER TERM 2008**

Session I (15 weeks) ......................................................... April 30 - August 8
Session II (7 1/2 weeks) ..................................................... April 30 - June 18
Session III (7 1/2 weeks) .................................................... June 19 - August 8
Session IV (9 Saturdays) .................................................. May 3 - June 28

**Summer Term Holidays**

Memorial Day ................................................................. May 26
Independence Day ......................................................... July 4
Pioneer Day ................................................................. July 24

**FALL SEMESTER 2008**

Faculty Return ............................................................... August 20
Classes Begin ............................................................... August 27
Weekend Classes Begin .................................................. August 30
Labor Day Holiday ......................................................... September 1
Fall Break Holidays* ..................................................... October 16, 17
Weekend Classes Holiday* ............................................. October 18
First Block Classes End .................................................. October 20
Second Block Classes Begin .......................................... October 21
Thanksgiving Holidays* ................................................ November 26, 27, 28
Classes End ................................................................. November 29
Study Day ................................................................. December 11
Final Exams ................................................................. December 12
Fall Semester Ends ....................................................... December 18
Grading Day ............................................................... December 19
Weekend Classes Final Exams ................................ .... December 20

**FINANCIAL AID DEADLINES**

First Priority Fall .......................................................... May 1
First Priority Spring ...................................................... October 1
Last Priority Fall .......................................................... September 1
Last Priority Spring ...................................................... January 1

**SPRING SEMESTER 2009**

Faculty Return ............................................................. January 5
Classes Begin ............................................................. January 7
Weekend Classes Begin ................................................ January 10
Martin Luther King Jr. Day Holiday ................................ January 19
President's Day Holiday* ................................................ February 16
First Block Classes End ................................................ February 27
Second Block Classes Begin ......................................... February 28
Spring Break Holidays* ................................................. March 18, 19, 20
Weekend Classes Holiday* .......................................... March 21
Classes End ............................................................... April 23
Study Day ................................................................. April 24
Weekend Classes Final Exams ................................ .... April 25
Final Exams ................................................................. April 27, 28, 29, 30
Spring Semester Ends ................................................... April 30
Grading Day ............................................................... May 1
Commencement .......................................................... May 1

**SUMMER TERM 2009**

Session I (15 weeks) ..................................................... May 6 - August 14
Session II (7 1/2 weeks) ................................................ May 6 - June 24
Session III (7 1/2 weeks) ............................................. June 25 - August 14

**Summer Term Holidays**

Memorial Day ............................................................... May 25
Independence Day ......................................................... July 3
Pioneer Day ............................................................... July 24

**FINANCIAL AID DEADLINES**

Last Priority Spring ...................................................... January 1
First Priority Summer .................................................. February 1
New Student Scholarship (first priority) ........................ February 1
Continuing Student Scholarship (first priority) ................. March 1
Year-end Final Deadline ............................................. June 15

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

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

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Utah Valley University  
Catalog 2008–2009  
5
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 to become 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 to become effective July 1, 2008.

ACCREDITATION
UVU is accredited by the Northwest Commission on Colleges and Universities. Accreditation was initially granted in 1969, renewed in 1984, again in 1995, and again in 2005. Vocational accreditation was also granted UVSC in 1976 and renewed in 1990 and 1995 by the Utah State Office of Vocational Education, a practice they have since discontinued.

Other accreditations include: Association to Advance Collegiate Schools of Business (AACSB), American Bar Association (ABA), Accreditation Board for Engineering and Technology, Inc. (ABET), American Culinary Federation (ACF), Accreditation Standards for Dental Hygiene Education Programs; American Dental Association (ADA), Automotive Service Excellence (ASE), Federal Aviation Administration (FAA), National League for Nursing Accreditation Commission (NLNAC), Teacher Education Accreditation Council (TEAC), Commission on Accreditation of Allied Health Education Programs (CAAHEP), National Alliance of Concurrent Enrollment Partnerships (NACEP), International Fire Service Accreditation Congress (IFSAC), and National Association for Developmental Education Certification (NADE).

DEGREES OFFERED

Master of Education
Bachelor of Applied Technology (BAT)
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

Master Degrees Under Development
• Master of Business Administration
• Master of Science in Nursing

Baccalaureate Programs Under Development
• Art Education
• Botany
• Computer Engineering
• Construction Management
• Mild/Moderate Special Education
• Secondary Education (Additional)

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.
## UVU DEGREES, DIPLOMAS, AND CERTIFICATES

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*To view a complete list of Apprenticeship, Integrated Studies, or Technology Management programs, see those specific listings elsewhere in this catalog.
### UVU Degrees, Diplomas, and Certificates

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*To view a complete list of Apprenticeship, Integrated Studies, or Technology Management programs, see those specific listings elsewhere in this catalog.

**Utah Valley University also offers Associate degrees which include extensive specialized coursework intended to prepare students to initiate upper-division work in Baccalaureate programs. Completing one of these degrees does not guarantee automatic acceptance into any Baccalaureate program.**

- Associate in Pre-Engineering
- Associate in Science in Business
- Associate in Science in Nursing

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

Resident tuition applies to those permanent residents of the State of Utah.
Nonresident students should note that residency does not change automatically. Proper documentation must be filed with Admissions for review and approval before residency status will be changed.

Applicants for residency classification should allow two weeks for a review and determination of his/her residency.

Applications for residency for any given semester must be received before the end of the first week of instruction. A change in residency classification after the first week of a given semester will not take effect until the next term. 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. The Admissions Office will issue an audit form to be signed by the instructor. A $20 registration fee, which covers all costs except books and special lab and course fees, is required each semester. This policy does not apply to specialized workshops.

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

International Students: F-1 immigration Student Status
The University is authorized under federal law to enroll non immigrant alien (international) students. An international student is defined as an individual who is legally domiciled in a country other than the United States of America at the time of application for admission to UVU. International students must be 18 years or older for admittance.

I-20 Certificate of Eligibility
This document issued by the designated international student admissions officer to international students with non immigrant status, is to be used to apply for an F-1 Visa to the United States.

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

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

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

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

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

TOEFL or Compass ESL
The TOEFL (Test of English as a Foreign Language) is a confidential examination given through procedures designed to protect its security before, during, and after its administration. Scores over one-year old are not acceptable.

Information for TOEFL may be obtained by writing:

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

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

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

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

Academic Load
An international student is required to carry a minimum of 12 hours of credit that apply toward a major each academic semester of fall and spring. Summer is optional unless it is the student’s first term at UVU 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.
REGISTRATION OFFICE
Office: BA 106
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.

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

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

The Add Card may be obtained at One Stop. After obtaining the instructor’s signature and department approval, the student returns the card to One Stop to pay the fee and add the class(es). Full semester classes may only be added through the first 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 third week of the appropriate semester or block. Students may not change from audit to credit status.

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

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](http://www.uvu.edu/). The University policy regarding payment of tuition and fees is that all tuition and fees are due and payable to the Office of Business Affairs (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.

Early Registration not paid for or covered by Financial Aid by the published payment deadline date will 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 school or drop classes are calculated as follows:

<table>
<thead>
<tr>
<th>Semester</th>
<th>100% Through 4th Week of Instruction</th>
<th>0% Beginning 4th Week of Instruction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thereafter, the refund periods for instructional cycles other than the semester are extrapolated from the above schedules.</td>
<td></td>
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### 2008–2009 Undergraduate Tuition and General Fee Schedule

<table>
<thead>
<tr>
<th>Hours</th>
<th>Tuition</th>
<th>Fees</th>
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</tbody>
</table>

For each credit hour over 25, $112 per credit hour will be assessed for residents and $384 per credit hour for non-residents.

- Application Fee: $35
- Late Application Fee: $75
- Foreign Student Admission Fee: $100
- Graduation Fee: $20
- Late Graduation Fee: $25
- Special Lab and Course Fees: $25
- Challenge Credit Form: $15
- Add Card Fee: $5
- For each credit hour over 25:
  - Resident: $112
  - Non-resident: $384
- Baccalaureate Fee: $20
- Late Tuition Payment Fee: $100

Utah Valley University
Catalog 2008–2009
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 social security 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 “dishesonred 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 $5 fee at One Stop. Add cards will be accepted through the third week of the semester. Classes will not be added after this time.

<table>
<thead>
<tr>
<th>2008-2009 GRADUATE TUITION AND GENERAL FEE SCHEDULE</th>
</tr>
</thead>
<tbody>
<tr>
<td>RESIDENT</td>
</tr>
<tr>
<td>Hours</td>
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<tr>
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</tr>
<tr>
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</table>

For each credit hour over 12, $179 per credit hour will be assessed for residents and $605 per credit hours for non-residents.

- Application Fee: $45
- Late Application Fee: $75
- Foreign Student Admission Fee: $100
- Graduation Fee: $20
- Late Graduation Fee: $25
- Special Lab and Course Fees: $5 per credit
- Challenge Credit Fee: $5
- Challenge Credit Fee: $15
- Add Card Fee: $5
- Late Tuition Payment Fee: $100

For each credit hour over 25:
- Resident: $179
- Non-resident: $605

- Resident: $179
- Non-resident: $605

- Non-resident: $505
- Late Tuition Payment Fee: $100
Financial Aid and Scholarships

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. (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.

<table>
<thead>
<tr>
<th></th>
<th>Commuter</th>
<th>Resident</th>
<th>Nonresident</th>
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</thead>
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<tr>
<td>Books &amp; Supplies</td>
<td>1,562</td>
<td>1,562</td>
<td>1,562</td>
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<tr>
<td>Living Expenses</td>
<td>5,246</td>
<td>9,222</td>
<td>9,222</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. Complete the Free Application for Federal Student Aid (FAFSA), submit it to the Federal processor. Be certain the Financial Aid and Scholarship Office has record of the FAFSA.

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.

NOTE: 1st Priority deadline for financial aid is May 1. 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.

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.
- **May 1**: Federal/State financial aid for Fall Semester 1st priority processing for registration.
- **December 1**: Spring only scholarship deadline for new and transfer students for academic scholarships only.
- **June 15**: Federal/State financial aid final processing for end of program year.

THE FINANCIAL AID AWARD

(see endnotes at the end of this section)

With the exception of most scholarships, financial aid is awarded on the basis of “need.” Financial need is determined by analyzing the Institutional Data Form and the needs analysis information reported in the Free Application for
Financial Aid and Scholarships

Federal Student Aid (FAFSA). These forms are available on the Financial Aid web site at www.uvu.edu/finaid.

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) provide non-repayable aid for eligible students. The awards range between approximately $400 and $4,711 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.

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

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

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

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

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

Loans

FEDERAL PERKINS LOANS (FPERK) are excellent long-term loans. 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) are 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, 2008, through June 30, 2009, will be a fixed rate of 6.8%. The minimum monthly payment, which begins 6 months after the borrower ceases to be enrolled at least half-time, is $50 (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 UNSUB may not exceed the cost of education minus financial aid. The interest rate for new loans disbursed July 1, 2008, through June 30, 2009, 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.

FEDERAL PARENT LOANS FOR UNDERGRADUATE STUDENTS (PLUS) 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 PLUS 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.

SHORT-TERM TUITION PAYMENT PLANS allow an eligible student to defer a portion or all of the tuition and fees. Instead of interest, an application fee is charged. To obtain the short-term tuition payment plan a student must make a down payment of 1/3 of the total tuition and fee costs and/or have the note secured by a credit worthy co-signer. The remaining balance of the charges must then be paid 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. The maximum aggregate subsidized limit allowed by Federal law is $23,000 for an undergraduate program of study. Following are the annual loan limits for Federal Stafford (Subsidized and Unsubsidized) Loans.

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<th>Perkins Annual Limit</th>
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<td>Total</td>
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</tbody>
</table>

*Must be matriculated into a four-year program. Loan offered up to 192 credits.

Students may request an “additional unsubsidized” loan above the annual limits. However, the total amount of Perkins and/or Federal Stafford plus Additional Unsubsidized loans cannot exceed the student’s cost of attendance.

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, they 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 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 one-semester-only awards. Please see “scholarships” at www.uvu.edu/finaid 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 postmarked
Because the required academic progress is demanding, exciting, and growth-oriented, career continuing UVU students interested in pursuing a demanding, exciting, and growth-oriented career with the US Army through the Reserve Officer’s 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 Officer at 801-378-7725 or 801-863-8295.

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 Officer’s 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

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.

Section 484 of the Federal Higher Education Act requires that a student also be making satisfactory academic progress-qualitative and quantitative—to be eligible to receive or continue to receive Title IV financial assistance. “Neither the Secretary of Education nor an institution has the authority to waive this requirement for any student or group of students.”

Because the required academic progress standard is intended to measure advancement toward a degree, diploma or certificate objective, federal guidelines state it “must be cumulative and it must include any periods of enrollment.”

The standard must also be applied consistently to everyone, recipient as well as applicant. To be eligible, then, “a student must be maintaining satisfactory progress regardless of whether he/she had previously received Title IV aid.” So all terms of enrollment, not just those during which financial aid was received, will be considered when evaluating the academic progress of any financial aid applicant.

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

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.

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 new 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.” (484B).

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

Repayment of unearned funds is generally due immediately. Students will be notified of the repayment amount and the repayment deadline for federal funds. Institutional services such as grade transcripts, enrollment for future terms, and so on may be withheld until repayment is received. Until Title IV funds are returned, a student who owes repayment will not receive
Financial Aid and Scholarships

Financial 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 are 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 many forms and documents to help in the verification process. The most common are listed on the Document Checklist. Errors cause considerable delay, so make sure to report only accurate information.

Mountainland Advanced Technology Center
Financial Aid may be available for some programs through the MATC. Contact them for further 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.

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.

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 web site.

ENDNOTES
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 two semesters (Fall and Spring) of 15 weeks each. Additionally, classes may be taken during the Summer term.

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 Fall or Spring semester or the equivalent hours for Summer term, must have approval from Deans of appropriate schools.

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>
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<tbody>
<tr>
<td>A</td>
<td>4.0</td>
</tr>
<tr>
<td>A-</td>
<td>3.7</td>
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<tr>
<td>B+</td>
<td>3.4</td>
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<tr>
<td>B</td>
<td>3.0</td>
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<tr>
<td>B-</td>
<td>2.7</td>
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<td>C+</td>
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<td>C</td>
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<td>D-</td>
<td>0.7</td>
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<td>E</td>
<td>0.0</td>
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<tr>
<td>UW</td>
<td>0.0</td>
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</tbody>
</table>

The following grades are not computed in the GPA:

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

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

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

Incomplete (I) Grades

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

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

“I” grades should not be requested nor given for lack of completion of work because of procrastination or dissatisfaction with the grade earned. As a general rule, students should be passing the course and lack less than 30% of the course work in order to qualify for an incomplete.

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

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

Repeating a Course

No additional credit is allowed for repeating a course in which the initial grade was passing unless the course number for the course ends in the letter suffix “R,” (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

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 College 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 College 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.”
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>
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<tbody>
<tr>
<td>1</td>
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<tr>
<td>2</td>
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<td>3</td>
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<td>300</td>
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<td>5</td>
<td>375</td>
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<td>6</td>
<td>450</td>
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<tr>
<td>7</td>
<td>525</td>
</tr>
<tr>
<td>8</td>
<td>600</td>
</tr>
</tbody>
</table>

Coop credits are registered for at the same time and in the same manner as UVU credits.

Courses completed through Cooperative Education will receive a credit/no-credit grade which is not included in the calculation of the GPA.

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

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

Transfer courses with grades below "C-" will not be accepted at UVU. Transfer courses are not calculated in the GPA. Individual departments reserve the right to impose limits on the age and grade level of transfer credit. There is no limit to the number of transfer credits 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. 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:
Academic Policies and Standards

• Middle States Association of Colleges and Schools (MSA)
• Northwest Association of Colleges and Universities (NACUBO)
• North Central Association of Colleges and Schools (NCA)
• New England Association of Schools and Colleges (NEASC)

Specific course, the student must receive experiential/challenge credit for a specific course, the student must have completed a comprehensive examination (theoretical and/or applied) with at least a "C-" grade and/or provide documentation of practical experience to the satisfaction of the department chairperson and dean showing course objectives have been met; OR complete an advanced course with a grade of "C-" or higher as a validation procedure (if deemed necessary by the department):

f. pay a fee for each approved credit hour.

Students may not challenge a class for which they are enrolled 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 Assessment 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 maybe 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: WB 147
Telephone: 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 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 at 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/she is reinstated to good standing.

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.

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

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

1. The student must complete 12 semester hours or more in any semester and a commensurate number of hours in any term.
2. The student must earn a semester GPA of 3.6 or above.
Utah Valley University offers the following degrees: Master of Education, Bachelor of Applied Technology; 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 School of Education regarding credit requirements for the Master of Education degree.

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 School of Education regarding catalog year requirements for the Master of Education degree.

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 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:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 101G</td>
<td>Soc Cult Anthropology SS GI</td>
<td>3.0</td>
</tr>
<tr>
<td>ANTH 107G</td>
<td>Multicultural Societies SS GI</td>
<td>3.0</td>
</tr>
<tr>
<td>ANTH 150G</td>
<td>Intro Am Indian Studies SS GI</td>
<td>3.0</td>
</tr>
<tr>
<td>AVSC 410G</td>
<td>Global Ethic Prof Iss Aviat GI</td>
<td>3.0</td>
</tr>
<tr>
<td>CJ 470G</td>
<td>Comp Criminal Justice Sys GI</td>
<td>3.0</td>
</tr>
<tr>
<td>COMM 217G</td>
<td>Race Class Gender US Cinema GI</td>
<td>3.0</td>
</tr>
<tr>
<td>COMM 314G</td>
<td>Global Cinema History GI</td>
<td>3.0</td>
</tr>
<tr>
<td>COMM 332G</td>
<td>Cross Cult Comm Intl Bus GI</td>
<td>3.0</td>
</tr>
<tr>
<td>COMM 362G</td>
<td>International Communication GI</td>
<td>3.0</td>
</tr>
<tr>
<td>DGM 312G</td>
<td>Digital Media Intercul Comm GI</td>
<td>3.0</td>
</tr>
<tr>
<td>ENGL 217G</td>
<td>Race Class Gender US Cinema GI</td>
<td>3.0</td>
</tr>
<tr>
<td>ENGL 314G</td>
<td>Global Cinema History GI</td>
<td>3.0</td>
</tr>
<tr>
<td>ENGL 374G</td>
<td>Literature of the Sacred GI</td>
<td>3.0</td>
</tr>
<tr>
<td>ENGL 376G</td>
<td>World Literature HH GI</td>
<td>3.0</td>
</tr>
<tr>
<td>ENGL 476G</td>
<td>Multi Ethnic Lit in America GI</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST 151G</td>
<td>World History 1500 Pres SS GI</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST 180G</td>
<td>Intro Amer Indian Studie SS GI</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST 381G</td>
<td>Precolumbian America GI</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST 383G</td>
<td>Indians of the Great Plains GI</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST 384G</td>
<td>Indians of the Southwest GI</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST 385G</td>
<td>Amer Indians 1891 to Pres GI</td>
<td>3.0</td>
</tr>
<tr>
<td>HLTH 350G</td>
<td>International Health GI</td>
<td>3.0</td>
</tr>
<tr>
<td>HLTH 440G</td>
<td>Health and Diversity GI</td>
<td>3.0</td>
</tr>
<tr>
<td>INFO 405G</td>
<td>Global Ethic Prof Iss Tech GI</td>
<td>3.0</td>
</tr>
<tr>
<td>MGMT 332G</td>
<td>Survey Intl Business GI</td>
<td>3.0</td>
</tr>
<tr>
<td>MGMT 332G</td>
<td>Cross Cult Comm Intl Bus GI</td>
<td>3.0</td>
</tr>
<tr>
<td>MUSC 102G</td>
<td>Intro to World Music GI</td>
<td>3.0</td>
</tr>
<tr>
<td>PHIL 205G</td>
<td>Ethics and Values IH GI</td>
<td>3.0</td>
</tr>
<tr>
<td>SOC 320G</td>
<td>Race and Minority Rel GS GI</td>
<td>3.0</td>
</tr>
<tr>
<td>TECH 410G</td>
<td>Global Ethic Prof Iss Tech GI</td>
<td>3.0</td>
</tr>
<tr>
<td>THEA 314G</td>
<td>Global Cinema History GI</td>
<td>3.0</td>
</tr>
</tbody>
</table>

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 School of Education regarding residence requirements for the Master of Education degree.

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. Twenty semester hours of the thirty hours in No. 2 above must be completed at UVU (resident hours).
4. Approval of a second bachelor’s by the supervising dean.

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

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

Degree Requirements

Graduation and General Education

1. Master of Education
   Please see catalog entries for the Graduate Office and the School of Education regarding degree requirements.

2. 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.

   Residence hours - minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours;
   - At least 40 credit hours in upper division courses;
   - Completion of general education requirements. See General Education Section for specific courses required for graduation;
   - Completion of specific departmental (major) requirements.
   - Completion of Global Intercultural Requirement course.

   For a Bachelor of Arts degree in programs offering the degree, students must complete 18 credit hours of course work from one language to include the 1010, 1020, 2010 and 2020 levels, or transferred equivalents. Some ESL course work may be used to fulfill this requirement. See the ESL department for specific details.

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

   Multiple Emphases
   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.

   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. Departments may require higher GPA;
   - Residency hours - minimum of 20 credit hours earned through course attendance at UVU;
   - Completion of general education requirements. See General Education Section for specific courses required for graduation;
   - Completion of specific department (major) requirements.

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

   *The Associate in Arts Degree differs from the Associate in Science Degree in that a minimum of 10 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:

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

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

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

   DEGREE REQUIREMENTS

   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.

   Residence hours - minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours;
   - At least 40 credit hours in upper division courses;
   - Completion of general education requirements. See General Education Section for specific courses required for graduation;
   - Completion of specific departmental (major) requirements.
   - Completion of Global Intercultural Requirement course.

   For a Bachelor of Arts degree in programs offering the degree, students must complete 18 credit hours of course work from one language to include the 1010, 1020, 2010 and 2020 levels, or transferred equivalents. Some ESL course work may be used to fulfill this requirement. See the ESL department for specific details.

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

   Multiple Emphases
   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.

   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. Departments may require higher GPA;
   - Residency hours - minimum of 20 credit hours earned through course attendance at UVU;
   - Completion of general education requirements. See General Education Section for specific courses required for graduation;
   - Completion of specific department (major) requirements.

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

   *The Associate in Arts Degree differs from the Associate in Science Degree in that a minimum of 10 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:
Graduation and General Education

• Ten credits of the same language taken at UVU or transferred from another college; or
• Application of foreign language challenge credit as described in the Foreign Language Challenge Procedures (available from the Languages Department Chair).
• Language credit does not apply to the General Education Humanities Distribution area (except for any 2020 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 UVIlink which includes payment of the application fee. Applicants may also be required to fill out additional forms/surveys. The application must be completed by the deadline on the application.

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 end of the semester for which they have applied must reapply for graduation and pay another graduation fee.

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 HONORS
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.) Please see the School of Education regarding honors designation for the Master of Education degree.

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

UVU Honors Program
GPA 3.50
(Other criteria required by Honors Department)

Phi Theta Kappa
GPA 3.50
(Other criteria required by Club)

Bachelor's Degrees
Cum Laude GPA 3.60
Magna Cum Laude GPA 3.80
Summa Cum Laude GPA 3.90

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 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, WB 147, 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>Course</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>
</tr>
<tr>
<td>FE</td>
<td>Fitness for Life</td>
</tr>
<tr>
<td>FF</td>
<td>Fine Arts</td>
</tr>
<tr>
<td>GI</td>
<td>Global Intercultural Requirement</td>
</tr>
<tr>
<td>HH</td>
<td>Humanities</td>
</tr>
<tr>
<td>IH</td>
<td>Ethics and Values</td>
</tr>
<tr>
<td>LH</td>
<td>Foreign Language</td>
</tr>
<tr>
<td>MM</td>
<td>Mathematics</td>
</tr>
<tr>
<td>PP</td>
<td>Physical Science</td>
</tr>
<tr>
<td>SS</td>
<td>Social Science</td>
</tr>
<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>

LH - Foreign Language

XF - Must be taken with another course to equal FF (see department)
In addition to the courses listed above, the courses listed below also fulfill the minimum requirements in general education for the Associate in Applied Science Degree:

**GB - Biology**
- BIOL 1010 General Biology
- BIOL 1070 Genetics

**GC - English Composition**
- ENGL 1010 Introduction to Writing
- ENGL 2010 Intermediate Writing—Humanities/Social Science

**GE - Health or Physical Education**
- HIST 2700 & 2710 US History to/since 1877
- HIST 1700 American Civilization

**GH - Humanities**
- HIST 1740 US Economic History
- POLS 1100 American National Government

**GM - Mathematics**
- MATH 1060 Introduction to Statistics

**GP - Physical Science**
- CHEM 1010 Introduction to Chemistry
- CHEM 1110 Elements Chemistry for the Health Sciences
- CHEM 1120 Elementary Organic Bio-Chemistry

**GS - Social Science**
- ASTR 1040 Elementary Astronomy

**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 fitness.

**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.

Complete the following: ........................................6 credits
- ENGL 1010 Introduction to Writing
- ENGL 2010 Intermediate Writing—Humanities/Social Science
- 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)*
- MATH 1060 Introduction to Statistics *(excluded MATH 1060)*
- An Advanced Placement (AP) Mathematics Test with a score of 3 or higher.

*B Extra majors should check with their advisor for the correct course.

**American Institutions**
Complete one of the following ......................................3 credits
- POLS 1000 American Heritage
- HIST 2700 & 2710 US History to/since 1877
- HIST 1700 American Civilization

**B. HUMANITIES—ONE COURSE MINIMUM**
AMST 2000 Introduction to American Studies
ASL 2000 Intermediate American Sign Language

**DISTRIBUTION REQUIREMENTS (18 CREDITS)**
FROM SCIENCE, HUMANITIES, FINE ARTS, AND SOCIAL/BEHAVIORAL SCIENCE

**C. FINE ARTS—ONE COURSE MINIMUM**
ART 1010 Introduction to Visual Arts
ART 1050 Photography
ART 1110 Drawing
ART 1340 Sculpture
ART 1350 Ceramics
ART 1630 Introduction to Landscape Praying
ART 1650 Watermedia
ART 1680 Fundamentals of Fiber Design
ART 1690 Glass Design and Construction
ART 1700 Process of Jewellery Metal Design
ART 1720 Architectural Rendering
ART 2110 Drawing II
ART 2630 Painting I
ART 2710 Alternative Photography
ART 2720 Color Photography
ART 3400 Fundamentals of Art Education
ARTH 2710 History of Art to the Renaissance
ARTH 2720 History of Art from the Renaissance
DANC 1010 Dance as an Art Form
DANC 2110 Orientation to Dance
MUSIC 1010 Introduction to Music
MUSIC 1100 Fundamentals of Music
To Be Taken With One of the Following:
MUSC 120R A Cappella Choir
MUSC 122R Chamber Choir
MUSC 124R UVU Concert Choir
MUSC 126R Show Choir (Encore)
MUSC 130R Symphonic Band
MUSC 132R Jazz Ensemble
MUSC 170R Symphony Orchestra
MUSC 172R Chamber Orchestra
MUSC 3010 Music History/Literature
MUSC 3020 Music History/Literature
THEA 1013 Introduction to Theater
THEA 1023 Introduction to Film
THEA 2313 Film History
D. SOCIAL/BEHAVIORAL SCIENCE—ONE COURSE MINIMUM

ANTH 101G Social/Cult Anthropology ................. 3.0
ANTH 107G Multicultural Societies .................... 3.0
ANTH 102D Biological Anthropology .................. 3.0
ANTH 1800 Introduction to American Indian Studies ... 3.0
ANTH 3150 Culture/Ecology/Health .................... 3.0
ARCH 1100 Introduction to Archaeology ............... 3.0
CI 1010 Introduction to Criminal Justice .............. 3.0
COMM 2110 Interpersonal Communications ................ 3.0
ECFS 1400 Marriage ......................................... 3.0
ECFS 2001 Family Relations ............................... 3.0
ECON 1010 Economics As Social Science ............... 3.0
ECON 2020 Macroeconomics .............................. 3.0
GEOG 1300 Survey of World Geography ................ 3.0
GEOG 1400 Introduction to Human Geography ......... 3.0
GEOG 2100 Geography of U.S. ............................ 3.0
HIST 1500 World History to 1900 ....................... 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
(If not used as Core Requirement)
HIST 180G Introduction to American Indian Studies ... 3.0
HIST 2700 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
HLTH 3150 Culture/Ecology/Health ..................... 3.0
MGMT 1010 Introduction to Business .................... 3.0
MGMT 2110 Interpersonal Communications ............... 3.0
POLS 1000 American Heritage* ......................... 3.0
POLS 3010 Introduction to Political Science .......... 3.0
POLS 1100 American National Government** .......... 3.0
POLS 2000 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 2800 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

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 two credits in each area, except “F” (PE/Safety/Environment/Health).

A. ENGLISH ......................................................... 2 credits
ENGL 1010 Introduction to Writing
ENGL 1060 Career Writing for Technology
or
ENGL 106A Career Writing for Technology - A
or
MGMT 2200 Business Communications

B. MATHEMATICS ................................................. 2 credits
MATH 1000 Integrated Beginning and Intermediate Algebra
or
MATH 1010 Intermediate Algebra
or
Any Higher Mathematics course
or
Any approved Departmental Mathematics Course

C. HUMANITIES/FINE ARTS/FOREIGN LANGUAGE ....... 2 credits
PHIL 2050 Ethics & Values (Highly recommended)
or
Any approved Humanities, Fine Arts, or Foreign Language Distribution Course

D. SOCIAL AND BEHAVIORAL SCIENCE ................. 2 credits
MGMT 3000 Organizational Behavior
or
Any approved Behavioral Science, Social or Political Science Distribution Course

E. BIOLOGY OR PHYSICAL SCIENCE ................. 2 credits
EGDT 1610 Principles of Technology
or
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

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

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

NOTE: Completion of an AA/AS degree waives only General Education Requirements. It does not waive the necessary hours to graduate. A student transferring to another institution should check with that institution to see how their credits have been accepted toward their degree.

PRIVATE, PAROCHIAL, OR OUT-OF-STATE COLLEGES AND UNIVERSITIES

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

BRIGHAM YOUNG UNIVERSITY

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

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

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

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

Behavior which violates the Student Rights and Responsibilities Code should be reported to Campus Police 801-863-5555 (emergency) or the office of Student Life 801-863-8694 (non-emergency).

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

1. Free and open discussion, inquiry, expression, and assembly 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.

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 directed toward another person.

6. Freedom from sexual harassment.

7. Full protection under the Constitution for freedom of the press, including the Constitutional limitations on prior restraint and censorship.

8. Due process of law recognized as being essential to the proper enforcement of institution rules.

9. Security for his/her person, papers, and personal effects against unreasonable searches and seizures.

10. Freedom to form and to operate an organized student association within the guidelines prescribed by the institution.

11. Access to the institution’s Ombudsman for consultation in matters of personal and school issues and concerns.

12. Student representation through UVUSA on Campus committees, councils, commissions, and other formally constituted bodies that make
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 or storage of such on institutional property without prior written approval from the Director of Public Safety.

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.

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) library material 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, including but not limited to, personal audio, video, film, and computer-generated material.

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.

19. Unauthorized off-campus fund raising activities on behalf of the institution. All fund-raising must have prior written approval from the institution's Advancement 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. nonpayment 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 unable to do so.
4. Each student is expected to maintain academic ethics and honesty in all its forms, including but not limited to, cheating and plagiarism, 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 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. INFORMAL RESOLUTION - Informal resolution of differences or appeals shall be encouraged.

B. ACADEMIC INFRACTIONS (GRADES) - Responsibility for and authority over Academic Infractions, and other academic appeals, including Grade Appeals shall reside with the Dean of the academic area in which an issue may arise.

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

D. 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.

Apointments 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.

E. 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.

F. 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.

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

1. Academic sanctions that may be imposed include:

a. Warning

b. Requiring a student to retake an exam(s)

c. Requiring a student to re-write a paper(s) and/or repeat an assignment(s)

d. A grade reduction

e. A failing Grade

f. Probation with specified conditions

g. Suspension from the Department, School, or Institution (must be reviewed and confirmed by Vice President of Academic Affairs and President)

h. Expulsion from the Department, School, or Institution (must be reviewed and confirmed by the Vice President of Academic Affairs and President)

i. Revocation of admission or degree (for fraud, misrepresentation, or other serious violations of institution standards in obtaining the degree; must be reviewed and confirmed by the Vice President of Academic Affairs and President)

j. Withholding degree until completion of process and other sanctions relating to a violation of the Student Rights and Responsibilities Code

2. Sanctions that may be imposed for General infractions include:

a. Warning

b. Probation with specific conditions

c. Loss of Privileges

d. Fine

e. Restitution

f. Discretionary Sanctions such as work assignments, personal development assignments, essays, or service assignments.

g. Suspension from the Department, School, or Institution (must be reviewed and confirmed by Vice President of Student Affairs and President)

h. Expulsion from the Department, School, or Institution (must be reviewed and confirmed by the Vice President of Student Affairs and President)

i. Revocation of admission or degree (for fraud, misrepresentation, or other serious violations of institution standards in obtaining the degree; must be reviewed and confirmed by the Vice President of Student Affairs and President)

j. Withholding degree until completion of process and other sanctions relating to a violation of the Student Rights and Responsibilities Code

k. Organizational sanctions, including loss of selected rights and privileges, up to and including deactivation, from the offending organization for a specific period of time

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.

iv. During the interim suspension, a student shall be denied access to the
Student Rights and Responsibilities

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.

v. The interim suspension does not replace the regular due process, which shall proceed on the normal schedule.

vi. 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).

H. 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.

I. 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.

J. DISCIPLINARY RECORDS - Records of disciplinary actions shall not be made a part of the students academic record except through the appearance in the academic record of grade reductions or failing grades as provided in Section V, H, 1, but shall become part of the student's disciplinary record. The disciplinary record shall be reviewed and expunged as set forth in Section V, P, 4, b. In situations involving both an accused student(s) (or group or organization) and a student(s) claiming to be the victim of another student's conduct, the records of the process and of the sanctions imposed, if any, shall be provided to the disciplinary/educational records of both the accused student(s) and the student(s) claiming to be the victim because the educational career and chances of success in the academic community of each may be impacted.

K. 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.

L. 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.

M. APPEALS PROCESS, DETERMINATION AND APPLICATION OF SANCTIONS

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

j. If either the student of the instructor chooses to appeal a decision of the Board, the appeal shall be made in writing to the Dean within ten (10) business days of the Board’s decision. The Dean shall be responsible for determining remediation and sanctions after a finding by the Board that Academic Misbehavior occurred.

k. The Dean shall render a decision in writing to the student and the instructor, with a copy to the Chair, and to the Board if they heard the previous appeal, within ten (10) business days of receiving the written appeal.

l. The decision of the Dean as to findings of Academic Infraction(s), remediation, and sanctions shall be final except for review of proposed suspension by the VPAA and that 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.
   b. The Office of Judicial Affairs will notify the student within five (5) business days after receiving a report of violation and schedule a hearing with the Director of Judicial Affairs.
   c. The Director of Judicial Affairs will determine the merit of the complaint and assign sanctions if the complaint is found to be meritorious and to warrant sanctions. The Director of Judicial Affairs shall notify the student in writing of his or her finding and of any sanctions within ten (10) business days of the hearing. Except in cases of urgent circumstances, as outlined in Section V, H, 3, the Director of Judicial Affairs shall refrain from implementing irreversible sanctions until the student has had the opportunity to fully pursue the appeals process.
   d. Sanctions may be modified at any point in the appeals process if evidence warrants.
   e. If the student chooses to appeal the decision of the Director of Judicial Affairs, the appeal shall be made in writing to the Office of Judicial Affairs Board within ten (10) business days of the Director’s decision. The student may choose to appeal directly to the Dean of
Students rather than the Board.

f. The hearing body, i.e., the Board or the Dean of Students, shall render a decision in writing to the student and the Director of Judicial Affairs within ten (10) business days of receiving the written appeal.

g. If the student chooses to appeal the decision of the Board, the appeal shall be made in writing to the Dean of Students within ten (10) business days of the Board’s decision. The Dean of Students shall be responsible for determining remediation and sanctions after a finding by the Board that a general Infraction was committed.

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

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

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

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

N. CAMPUS APPEALS BOARD HEARINGS
- The Campus Appeals Board Chair shall convene a subcommittee from its members (Section V, E). The subcommittee of the Board shall consist of two members from the School of Division referring the appeal, a third member from another unit of the institution, two students, and a staff member to hear any appeal in accordance with the process detailed in Section V, N.

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

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

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

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

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

a. Factors relevant to the decision to retain or delete specific records include:
  i. How much time has elapsed since the infraction (generally, at least five (5) years).
  ii. Whether the student has graduated.
  iii. The seriousness of the infraction and the resulting sanctions - institutional suspension, expulsion, and revocation of admission or degree shall be considered for expunging only upon application by the student to the Director of Judicial Affairs and then only with the concurrence of the relevant Dean, Vice President, and the President.

b. Students shall apply to the Director of Judicial Affairs to have their disciplinary records expunged in accordance with the factors given in Section V, P, 4, a. If the student applying for expungement has graduated, or if the disciplinary records are at least five (5) years old, they shall be expunged unless the Director of Judicial Affairs finds circumstances requiring retention of the records, except in the cases of suspension, expulsion, or revocation or withholding of a degree require further review, as specified in Section V, P, 4, a.
ACADEMIC TUTORING

Academic Tutoring 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 assistance programs may be obtained by contacting coordinators of any of the following services.

Learning Assistance

Learning Strategist: John Sperry
Office: LA 221p
Telephone: 801-863-7418
E-mail: sperryjo@uvsc.edu

The Learning Strategist provides many resources:

- 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

Math Lab

Manager: Kathryn Van Wagoner
Office: Academic Tutoring, LA 201
Telephone: 801-863-8411
Online: http://www.uvu.edu/mathlab
E-mail: kathryn.vanwagoner@uvsc.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 group study room, and live Internet tutoring through Math Lab Online. The Math Lab also provides workshops and programs to promote student success in math.

Peer Tutoring

Drop In Lab: LA 201
Manager: Regie Holdaway
Office: LA 201
Telephone: 801-863-8310
Online: http://www.uvu.edu/peertutoring
E-mail: regie.holdaway@uvsc.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.

Writing Center

Manager:
Office: New Library, 208
Telephone: 801-863-8099
Online: http://www.uvu.edu/wc
E-mail: @uvsc.edu

The Writing Center provides free one-on-one writing consultations to the UVU community. Writers may bring writing assignments for any class, as well as personal writing, 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.
ACCESSIBILITY SERVICES DEPARTMENT
(SERVICES FOR STUDENTS WITH DISABILITIES)
Office: WB 146
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 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: AB 104
Telephone: 801-863-8179

The UVU Alumni Association exists to serve and extend the interests of UVU by linking alumni to the institution and to UVU students. 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 expected to replenish those resources they have used to obtain their education.

The UVUA provides benefits and support for over 100,000 UVU alumni, and is responsible for many services, like publishing UVU Magazine, providing benefits programs, the Alumni Classic Golf Tournament, and other similar offerings. In addition, the UVUA maintains its home page, located on the internet at www.uvu.edu/alumni, where both students and alumni can access various services of the association through the online community. The Alumni Association awards over 20 private scholarships using the money raised at the Alumni Classic Golf Tournament.

The UVUA also sponsors the Student Alumni Association (SAA), which is involved in hosting important events and activities on campus, and at regional and national conferences. In addition, SAA is involved in service projects and fund-raisers for various charitable causes. Membership in SAA is open to all students, but an application must be submitted to the Alumni Office, located in the Advance Building in AB-104. For more information about this and other Alumni related topics, call 801-863-8179.

BOOKSTORE
UVU Bookstore
Located: SC 102
Telephone: (801) 863-8641
Hours:
Mon-Thurs 7:45 am-7:00 pm
Fri 7:45 am-5:00 pm
Sat 9:00 am-1:00 pm (Fall and Spring semesters only)
Mon & Fri 8:00 am-5:00 pm
(Teacher supply 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 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 $485. For more details, call Campus Connection 801-863-8797 or go to SC 106.

Student Services

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; Faxing 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: WB 147
Telephone: 801-863-8425
Hours:
Monday 8:00 am - 5:00 pm
Tuesday 8:00 am - 6:00 pm
Wednesday 8:00 am - 6:00 pm
Thursday 8:00 am - 6:00 pm
Friday 8:00 am - 5:00 pm
Saturday 9:00 am - 12:00 pm

The Career and Academic Counseling Center provides comprehensive services to students, alumni, and members of the community. These services include academic advising and counseling, career assessment and counseling, academic standards, college transfer information, and advisor training.

Academic Advising and Counseling
Academic counselors are available to help students in determining and achieving their educational goals. Advisors are qualified to help students select majors, review prior education, and plan educational programs.

Specific help is given to students in understanding General Education requirements for various degrees. Students are referred to department advisors for help in meeting department requirements. Other services provided include assisting students experiencing academic difficulties and help with academic standards. Individual assistance and workshops are available to students experiencing these academic difficulties.
Student Services

Referrals are made to help students achieve their educational goals. These include referrals to personnel in the Accessibility Services Center, Student Health Services, Testing Services, General Academics, and to academic department advisors.

Career Assessment and Counseling

Our counselors provide a full range of vocational evaluation and counseling services to students, faculty and the community. Assessment and evaluation services are available in the following areas:

• academic achievement
• vocational interests
• personality preferences
• work values
• learning styles

Counselors guide students through individual counseling sessions, group workshops, career library resources, and computerized career information systems. Counseling services include:

• test interpretation
• labor market information
• occupation information
• computer-assisted testing
• career exploration
• written vocational evaluations

Academic Standards

Under the direction of the CACC Director, the academic standards office administers the academic standards policy, oversees the suspension petition process, trains faculty and staff in student support methods and policies, and counsels and assists at-risk students on warning, probation, and suspension. For more information regarding the academic standards policy, see section titled: “Academic Policies and Standards” located elsewhere in this catalog.

University Transfer Information

Detailed information and counseling regarding transferring into UVU and out to other colleges and universities is available, including:

• Articulation agreements between UVU and other state colleges and universities including degree transfer (AA and AS), course preferences, and GPA requirements.
• Application procedures and deadlines.
• Information about graduate schools and admission requirements.

CAREER SERVICES AND STUDENT EMPLOYMENT

Office: BA 113
Telephone: 801-863-8395
E-Mail: csse@uvsc.edu
http://www.uvu.edu/csse/
Hours: 8:00 am - 5:00 pm M, T, R, F
8:00 am - 6:00 pm W

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 and Cooperative Education positions
• Counseling on career employment planning and preparations
• Training and workshops on writing resumes, interviewing and networking
• Labor market, salary and career employment information
• Career and Student Employment Fairs
• Local, national and international employers recruiting on campus
• Group and class presentations on career employment related topics

THE CENTER FOR THE ADVANCEMENT OF LEADERSHIP

Director: Bruce Jackson
Office: WB 236b
Telephone: 801-863-6136
E-mail: jacksbr@uvsc.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, fire science, biology, aviation, or any other degree or program, this Leadership Certification Program is designed for students who wish to advance their personal, interpersonal, and 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 WB 236 (863-6465).

THE CENTER FOR HIGH SCHOOL STUDIES

Office: 243 East 2320 North, Provo or SA 306
Telephone: 801-374-4840 or 801-863-8707

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.

THE VOLUNTEER AND SERVICE-LEARNING CENTER

Office: SC 101
Telephone: 801-863-8786

The Volunteer and Service-Learning Center is dedicated to providing service and service-learning opportunities for the students, faculty, and staff of UVU. Through programs and projects in the classroom, the community, and the world, the Center works to increase social and cultural awareness, build a sense of community commitment, and extend meaningful educational opportunities that increase knowledge and enhance academic skill. These goals are realized through community outreach, classroom-based service-learning, service expeditions and leadership development programs. Students, faculty, and staff are encouraged to get involved.

CENTER FOR STUDENT SUCCESS

Academic Director: Lisa Lambert
Office: LC 211
Telephone: 801-863-8741
E-mail: lisa.lambert@uvsc.edu

Assistant Director, UV Mentors:
Marinda Ashman
Office: LC 212
Telephone: 801-863-7227
E-mail: marinda.ashman@uvsc.edu

The Center for Student Success, in partnership with Student Life and Student Services, is focused on preparing students for their college experience. The Center is committed to student retention efforts and is regularly involved in campus-wide initiatives. The Student Success course (CLSS 1000), taught through the College Success Studies Department, is the recommended starting point for first-year students. The objectives in the Student Success course include:

• Critical thinking
• Study strategies
The Center for Student Success is also home to the UV Mentors! Our UV Mentors are dedicated students who are trained to assist instructors in each Student Success section. The primary goal for the UV Mentors is to connect personally to the students in the class-by both modeling the skills being taught and by mentoring them through their first college experience. UV Mentors begin by taking the CLSS 1000 course, followed by a Leadership Mentoring I class (CLSS 2200) and then application to the program. Selected UV Mentors are awarded scholarships for their service and mentoring to the students in Student Success classes and the program.

THE CENTER COURTE

Food Options

Fresh Wrapz, Freshetta’s Italian Café, Wolverine Cuisine Corner, Hobi-Yogi, Teriyaki Stix, and La Esquina Fresh Mexican Food complete the food court list. Areas of the Food Court will open at 10:00 a.m. and close at 7:30 p.m.

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

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 70 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.

DAVID O. MCKAY EVENTS CENTER

Office: MC 012
Telephone: 801-863-8767

The David O. McKay 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 to provide food services and dining enjoyment and benefit.

The Centre Court’s 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, Fresh Wrapz, Freshetta’s Italian Café, Wolverine Cuisine Corner, Hobi-Yogi, Teriyaki Stix, and La Esquina Fresh Mexican Food complete the food court list. Areas of the Food Court will open at 10:00 a.m. and close at 7:30 p.m.

Located directly above the Food Court is an additional dining facility. Named for its exquisite view of the Utah Valley, the Valley View Room 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., Monday through Friday.

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

DISABILITIES SERVICES

Accessibility Services Department, ASD
Office: WB 146
Telephone: 801-863-8747

See Accessibility Services Department in this section.

EXTRAMURAL/INTRAMURAL SPORTS

Office: SC 106
Telephone: 801-863-6163

The Extramural/Intramural Sports Department offers a variety of different competitive activities for UVU students. Intramural activities include team sports such as basketball, flag football, volleyball, and ultimate frisbee, as well as individual and dual sports including racquetball, tennis, chess, and many others. Competitive opportunities are available for men, women, and co-ed participation. Most activities have a minimal fee. In addition to intramural sports (teams within UVU competing against one another), we also have Extramural Sports (teams from UVU that compete against other campuses). Extramural activities include teams such as Men’s Soccer, Men’s Volleyball, Men’s Lacrosse, Men’s Rugby, Men’s Golf, and Rodeo Team.

INTERNATIONAL CENTER

Office: WB 100
Telephone: 801-863-8342
http://www.uvu.edu/international
E-mail: (for international student inquiries): international@uvsc.edu
E-mail: (for international study programs): studyabroad@uvsc.edu
General Office Hours: Mon-Fri 8:00 am-5:00 pm
International Student Advisement Hours: Mon-Fri 9:00 am-4:00 pm or by appointment

UVU’s International Center (ISSS) manages the federally mandated Student and Exchange Visitor Information System (SEVIS) for UVU. Professionally trained advisors work with UVU departments to ensure that UVU’s international students and scholars maintain their legal status, flourish in their new environment, and succeed in their academic pursuits.

First, Global Engagement Services champions UVU’s nurturing of professionally competent people of integrity who recognize that whatever and wherever their roles as stewards of place may be, they have local, national, and international impacts. Global Engagement Services provides leadership and coordination for a wide range of activities designed to increase global awareness among all of UVU’s communities. These activities include promoting the internationalization of UVU, hosting guest scholars and ambassadors, coordinating Orem’s Elderhostel Armchair Traveler series, and encouraging UVU’s communities to participate in international endeavors.

Second, International Student and Scholar Services (ISSS) manages the federally mandated Student and Exchange Visitor Information System (SEVIS) for UVU. Professionally trained advisors partner with UVU departments to ensure that UVU’s international students and scholars maintain their legal status, flourish in their new environment, and succeed in their academic pursuits.

Finally, International Study Programs (ISP) collaborates with UVU faculty and staff to develop and coordinate the University’s study abroad, service learning, international internship, and overseas volunteer opportunities. In 2007, UVU faculty led international education programs in England, France, Ghana, Italy, Mexico, Namibia, Spain, and Ukraine. ISP works hard to maintain economically feasible opportunities that provide safe, high-quality academic experiences.

LEARNING ASSISTANCE
Learning Strategist: John Sperry
Office: LA 221p
Telephone: 801-863-7418
E-mail: sperryjo@uvsc.edu
See Academic Tutoring in this section.

LIBRARY
Library
Telephone: 801-863-8886
Fax: 801-863-7065
http://www.uvu.edu/library
Director: Michael J. Freeman
Office: Library 502e

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

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

MATH LAB
Kathryn Van Wagoner, MPA, Manager
LA 201
Telephone: 801-863-8310
http://www.uvu.edu/mathlab
See Academic Tutoring 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

OFF-CAMPUS HOUSING
Office: SC 103
Hours: Mon - Fri, 8:00 am - 4:00 pm
Telephone: 801-863-8659
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.

THE OFFICE OF PROSPECTIVE STUDENT SERVICES
BA 115, BA 100a
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 coordi-
nates 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

College is a time of new and exciting transitions and growth. While education does require a lot of time in the classroom, it also should include experiences in life-long learning and building of relationships of lasting value that enhance and make the college experience complete and well rounded. The Office of Student Involvement is all about building those relationships and providing those experiences.

The mission of the Office of Student Involvement is to engage students in Action Learning Communities in areas of great interest to them. Students are invited and encouraged to visit the OSI to become involved to help build a community of Action Learning in areas of intense interest to them. Examples of ALCs are: water coloring, fly fishing, jewelry making, gourmet cooking, National Park trips, rock crawling, woodworking, drawing, video production, photography, car camping, personal fitness and nutrition, writing, personal improvement, travel, computers and many more. ALCs are built by students and are for students.

Additionally, students are able to gain valuable leadership and internship experience by becoming an Action Learning Coordinator. Coordinators become planners and facilitators of Action Learning Community activities, events and trips.

Interested students should call or visit the Office of Student Involvement located in LC 102b
Telephone: 801-863-8682
Director of OSI: Grant Flygare
www.uvu.edu/studentinvolvement

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
Liz Childs, Director
Office: BA 112
Telephone: 801-863-8460

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 are also available through UVU on-line services.

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 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
Reggie Holdaway, Manager
Drop In Lab: LA 201
Telephone: 801-863-8310
http://www.uvu.edu/peertutoring
See Academic Tutoring in this section.

PHYSICAL EDUCATION SERVICES
Physical Education Building
Telephone: 801-863-8374

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

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

Issue uniforms are required of students using the Physical Education Building. Students with current activity cards are encouraged to use the facilities during open hours.
Student Services

PRINTING SERVICES

Printing
GT 533
Telephone: 801-863-8415
Copy Center
SC 101g
Telephone: 801-863-8355

Printing Services provides copying, offset printing, and graphic design services for UVU faculty and staff. However, students only have access to copying services. These services can be acquired at either of two copy center locations. The main copying production center is located in the Gunther Trades Building room 516D. A smaller facility is located in the Student Center near the bookstore. Students may request black & white copies, color copies, transparencies, laminating services, coil binding and other related services.

SORENSEN STUDENT CENTER

Office: SC 103
Telephone: 801-863-8612

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

- 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 (cafeteria and dining services) - SC 203
- Scoops Ice Cream Shop (SC 103f)
- Centre Stage (dining, banquet, and multipurpose services) - SC 108
- Campus 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
- College Times and NetX News Services - SC 220, 801-863-8686
- Center for Service and Learning - SC 101, 801-863-8786

Outdoor Adventure Excursion - SC 108G, 801-863-8545
Adventure Resource Center (rentals and sales) - SC 103H, 801-863-7052
Campus Intramurals - SC 108H, 801-863-8613
Student Health Services (medical and mental health services) - SC 221, 801-863-8876
Wellness Education - SC 222, 801-863-8127
Campus Connection (student and department I.D.'s, proximity cards, debit card services, information services, ticket and box office services, and campus lost and found services) - SC 106, 801-863-8797
U.S. Postal Services - SC 104, 801-863-8667
Ragan Theater (400 seating for multipurpose events and programming) - SC 216, 801-863-8799
Copy Center - SC 101F, 801-863-8355
Utah Community Credit Union - SC 101E, 801-863-8188
Off-Campus Housing Services - SC 106, 801-863-8659
Conference Room Facilities (the Grande Ballroom - SC 206, the Commons - SC 213, and Centre Stage SC 214)

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 110 computers and have Internet access and E-mail as well as popular application software to assist students with their class work.

The “Computer Loft” is located in SC215 on the second floor of the Student Center across from the Ragan Theater. With 56 workstations this is the largest open lab on campus. The hours in 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. Check with lab assistant for holiday hours. The lab’s telephone number is 801-863-8081.

The “Fishbowl” lab is located in SC116 at the north end of the Student Center. The hours in this lab are 8:00 am to 6:00 pm Monday through Friday. The lab’s telephone number is 801-863-8390.

The “Greenhouse” lab is located in PS101 at the junction of the Student Center, Science Building, and Activity Center. The hours are 8:00 am to 6:00 pm Monday through Friday. The lab’s telephone number is 801-863-7147.

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

STUDENT GOVERNMENT

(Utah Valley University Student Association (UVUSA))

Office: SC 105
Telephone: 801-863-8652
Activities Hotline: 801-863-LIFE

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

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

STUDENT HEALTH SERVICES

Office: SC 221
Telephone: 801-863-8876

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

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-martial 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.

suicide prevention

for staff or classroom training please contact us at 863-8876. in the case of an emergency please call 911 or 863-5555. a student health services therapist is on call 24 hours a day to assist students, staff, and faculty in crisis (call 863-5555 police dispatch to access an shs therapist "for emergencies only").

student media and publications

office: sc 220
telephone: 801-863-6498

student media and publications is uvu's home of the college times and uvx news. this is the place students interested in producing news; including writing, photography, graphic design, advertising sales, video broadcast content, and 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 producing news media, this is the place. students are encouraged to enroll in communications and production classes. we are located on the second floor of the student center, next to the theater.

testing services

office: wolverine service center—north entrance

testing services assists both students and staff. it is divided into three branches: the assessment center, the classroom testing center, and the proctored exam center.

assessment center 801-863-8269, ws 101

the primary responsibility of the assessment center is to assist all new students in developing a first-year educational plan. in addition to orientation and advisement, all students must meet the university's assessment requirements. this information is used to place students into appropriate math and english courses, which will in turn, help to ensure student success. testing sessions for new students are conducted throughout the day, no appointment necessary.

new students must meet one of following assessment requirements:

1. act scores

english: not older than 3 years and students with scores below 19 will be required to take the compass english test and reading test.

math: not older than 2 years and students with scores below 19 will be required to take the compass math test.

2. compass test

required for uvu students for assessment purposes. administered in the assessment center. there are 3 sections: the drp (reading exam), compass writing and compass math sections. 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. sat

not older than 3 years. scores of 500 in english and/or math are required. math scores are good for 2 years.

4. 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 student support services

office: wb 145a
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.

UVU INSTANT INFO/ COMMUNICATION CENTER

Desks and Computer Kiosks Located at:
   - Administration Building BA100
   - Business Building Level 1
   - Gunther Trades Level 6 Entry
   - Computer Science Building Level 4
   - Science Building Level 1
   - Liberal Arts Building Level 1 entry

Computer Kiosks Located at:
   - Business Building Level 4
   - Automotive Trades Level 3
   - Student Center/Learning Center Level 1

Telephone: 801-863-INFO (4636), 801-863-7439

E-mail: instinfo@uvsc.edu, information@uvsc.edu, instantinfo@uvsc.edu - Answer within 24 hours

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

- Electronic admissions applications - immediate response
- WEB START
- Registration - UV Link
- Personalized textbook lists - BookMatch
- Degree and program requirements
- Degree evaluations - academic record of completed, in progress, and remaining classes
- On-line credit card payments
- Electronic financial aid applications - FAFSA (award amount possible in 72 hours)
- Electronic loan counseling
- Accessing instructors and on-line assignments - WebCT
- Class schedules and catalogs
- Campus activities and events
- On-line parking services assistance
- Locations and directions
- PIN numbers/change of address
- Communication Center
- Answer all incoming Student Service calls
- Assist with adding and dropping classes, and checking financial aid
- Assist callers with all other on-line services

VETERANS’ SERVICE OFFICE

Office: BA 114
Telephone: 801-863-8212
E-mail: veterans@uvsc.edu, veteransaviation@uvsc.edu

Veterans eligible for VA Education Benefits may obtain assistance at the Veterans’ Services Office located in the Graduation and Transfer Services Department.

Guideline for Enrollment and Progress

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

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

New Veterans

New students applying for VA educational benefits may be requested to submit to the UVU Veterans’ Service 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.

WRITING CENTER

Manager
Drop In Lab: New Library, 208
Telephone: 801-863-8099
http://www.uvu.edu/wc

See Academic Tutoring in this section.
OTHER IMPORTANT

STUDENT INFORMATION

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.

DISCRIMINATION
Discrimination shall not be tolerated against any student or applicant for admission because of race, color, religion, age, sex, national origin, pregnancy-related condition, disability, status as a disabled veteran or veteran of the Vietnam era. Such discrimination or harassment will not be tolerated in any program or instructional area of the University.

Policy
Students who believe that they have been discriminated against or harassed should contact the Director of Judicial Affairs, SC 107.

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 below
3. Schedule appropriate amplification, if necessary
4. Contact University Police for traffic and crowd control, if necessary
5. Post flyers 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; McKay 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. McKay 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 provides 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 the Utah State Police Academy 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 bike 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, and 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.

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.

CRIME AWARENESS/CRIME PREVENTION

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

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


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. NO stunts or tricks are allowed. Motorcycles and like devices shall not be operated on sidewalks or paths under any circumstances.

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.

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.
The transition of Utah Valley State College to Utah Valley University brings exciting new opportunities for graduate study in the future. Academic planning for master degree programs is underway. The first graduate program that will be offered is the Master of Education (M.Ed.) program. This degree program was approved by the Utah State Board of Regents March 21, 2008. Information about this degree is available in the School of Education pages of this catalog.

Two additional master degree programs are anticipated in the near future. These are a Master of Science in Nursing from the College of Science and Health planned for introduction in Fall 2009 and a Master of Business Administration (M.B.A.) from the Woodbury School of Business planned for beginning Fall 2010. The decision to develop each of these degrees has been made based on market demands, and with initial Utah State Board of Regents acknowledgement of regional need.

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Graduate Programs Subcommittee:
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Briant Farnsworth, Ed.D.
Ernest Carey, Ed.D.
Sam Rushforth, Ph.D.
Stanley Jenne, Ph.D.
Linda Pierce, Ed.D.
Marianne Craven, M.N.
Richard Henage, Ph.D.
Paula Nye

EDUCATION, MASTER OF EDUCATION

SCHOOL OF EDUCATION DEAN: BRIANT J. FARNSWORTH
Office: EB 117B
Telephone: 801-863-8006

Associate Dean: Linda E. Pierce
Office: EB 116A
Telephone: 801-863-8095

Graduate Office Manager: Wendi Hillman
Office: EB 117
Telephone: 801-863-6543

Graduate Advisor: Leslie Hudson
Office: EB 114f
Telephone: 801-863-8527
DEGREE

MASTER OF EDUCATION

PROGRAM DESCRIPTION

The Master of Education Degree (M.Ed.) at Utah Valley University is an applied master degree aimed at building the instructional skill and professional competency of teachers. The goal is to enable participants to become more proficient in selecting optimum, research-based, curriculum design strategies that best apply to specific teaching situations.

There are two potential option tracks for participants within the Curriculum and Instruction Degree:

1. Models of Instruction, or
2. English as a Second Language (ESL)

The M.Ed. Degree focuses on a project where applied research-based work in teaching and learning is the culminating activity. Students produce and report on an applied instructional 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.

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

The M.Ed. requires 30 semester hours of graduate course work and completion of a culminating applied instructional project. Work toward and completion of the graduate instructional project is a necessary part of the program for a student to demonstrate the successful ability to determine, select, and implement instructional applications for learning at the school, district, or state 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 May 1, 2008 for consideration for Fall semester 2008 (Summer 2009 applications are due Feb 1, 2009). 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 Chair for the School of Education notifies all applicants in writing of the admission decision. The University cannot guarantee a response on or before a specific date. All admission materials become the property of UVU and will not be returned to the applicant.

Reapplication

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

Satisfactory Progress

Continuation in the Master of Education program is determined by: (1) satisfactory progress (B- or higher) in all courses and (2) faculty committee and the graduate admission and retention committee recommendation.

Academic Probation

A student can be recommended for academic probation for the following reason(s): (1) Failure to meet the scholarship requirements of the Graduate Program of an overall GPA of 3.00 (on a 4.00 scale) or higher, with no individual course grade lower than B-; (2) Failure to complete prescribed courses; and/or (3) Failure to adhere to University student rights and responsibilities standards.

Dismissal from the program

A student can be dismissed from the Master of Education Program for the following reason(s):

1. Academic dishonesty;
2. Continued failure to meet academic standards; and/or
3. Continued failure to adhere to University student rights and responsibilities standards.

Courses

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

Master of Education

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 6100</td>
<td>Research Methodology</td>
<td>3.0</td>
</tr>
<tr>
<td>EDUC 6110</td>
<td>Applied Statistics for Education</td>
<td>3.0</td>
</tr>
<tr>
<td>EDUC 6200</td>
<td>Masters Project</td>
<td>3.0</td>
</tr>
<tr>
<td>EDUC 6910</td>
<td>Project I</td>
<td>1.0</td>
</tr>
<tr>
<td>EDUC 6920</td>
<td>Project II</td>
<td>1.0</td>
</tr>
<tr>
<td>EDUC 6930</td>
<td>Project III</td>
<td>1.0</td>
</tr>
</tbody>
</table>
Complete one of the following two options.  

**Option One: Models of Instruction:**
- EDUC 6300 Curriculum Design (3.0)
- EDUC 6310 Program Assessment (3.0)
- EDUC 6320 Instructional Models I (3.0)
- EDUC 6330 Instructional Models II (3.0)
- EDUC 6400 Transformational Leadership (3.0)
- EDUC 6410 Contemporary Issues (3.0)

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

**Graduation Requirements:**
1. Complete all courses with a grade of B- or better with an overall GPA of 3.0 or higher.
2. Graduate project proposal accepted by School of Education Graduate Committee.
3. Graduate project completed and accepted by the School of Education Graduate Committee.
4. Courses and project requirements must be finished within a five year period. No courses will apply toward graduation which are older than five years.

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

- EDUC – Master of Education
DEGREES OFFERED

Bachelor of Arts/Science
ASL and Deaf Studies Education
Behavioral Science
   Anthropology
   Psychology
   Sociology
   Social Work
Communication
   Communication Theory & Practice
   Journalism
   Public Relations
Deaf Studies
   General Deaf Studies
   Interpreting
English
   Creative Writing
   Literary Studies
History
   General History
   Public History
Philosophy
   Political Science

COLLEGE OF HUMANITIES AND SOCIAL SCIENCES

INTERIM DEAN: DAVID P. YELLS
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Telephone: 801-863-7435
E-mail: yellsda@uvsc.edu

Interim Associate Dean for Academics:
Office: LA 209b
Telephone: 801-863-7435
E-mail:

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

Assistant Dean for Administration: Toni Harris
Office: LA 209c
Telephone: 801-863-6816
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Assistant to the Dean for Finance & Operations: E. Linda Moore
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E-Mail: mooreel@uvsc.edu

Administrative Assistant: Veronica M Caballero
Office: LA 209
Telephone: 801-863-7435
E-mail: caballve@uvsc.edu
Fax: 801-863-7383
The mission of the Department of Communication is to help students prepare for careers in the fields of psychology, sociology, social work, anthropology and other related professions. Finding solutions to human problems involves the ability to apply academic theories to the real world. Behavioral Science students learn academic rigor in writing, critical thinking and analysis and integration of current scientific research. A multicultural perspective and respect for the range of individual differences are central to the department’s mission. Insight, skill acquisition and personal application are also important collateral aspects of a student’s exposure to the behavioral sciences. Classes are frequently taught using experiential methods and collaborative assignments. Students are challenged to be curious about those they don’t understand, kind to those they love and gentle with those younger and older than themselves.

The mission of the Department of Communication is to help students prepare for careers that demand skills in oral, written and visual communication in interpersonal, organizational, print and electronic contexts. 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, which now include multimedia literacy. Communication also provides excellent preparation for graduate study in the fields of business, education, law, psychology, and, of course, communication.

The department offers programs of study leading to the following degrees: BA/BS with a concentration in Journalism, Public Relations, or Communication Theory & Practice, AA/AS, and is available as a BA/BS emphasis in Integrated Studies. Programs of study in Communication at UVU offer a balance of analytic and applied approaches to study in the field. 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.

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.

Department of English and Literature

Chair: Robert Cousins
Office: LA 126e
Telephone: 801-863-8571

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

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

Department of History and Political Science

Chair: Kathren Brown
Office: LA 030e
Telephone: 801-863-8477

The Department of History and Political Science embraces the disciplines of archaeology, geography, history, economics and political science. We are dedicated to providing students with a broad range of opportunities in general education and discipline-specific courses. Our classes lie at the heart of the collegiate experience. In our classes, we explore the dynamics of the human condition through historical, spatial, economic and political perspectives. We endeavor to teach in ways that foster independent thinking, the analysis of human issues through reading and discussion and the development of 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.
College of Humanities and Social Sciences

The degrees we offer include the BA in History, BS in History Education, and BA and BS in Political Science.

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: Christine Weigel
Office: LA 121h
Telephone: 801-863-6191

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

Humanities Section Head: Nancy Rushforth
Office: LA 121
Telephone: 801-863-7110

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: Kathy French
Office: LA 012C
Telephone: 801-863-8892

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 Humanities and Social Sciences Advisory Board
Chair: Mary Robinson (current), Merrill Gappmayer (in-coming chair)
Contact via Barbara Hammond 801-863-6246, hammonba@uvsc.edu

The Advisory Board of the College of Humanities and Social Sciences is an active partner in defining the vision and accomplishing the goals of the College. 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.
College of Science and Health

DEAN: SAM RUSHFORTH
Office: PS 201a
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e-mail: measomga@uvsc.edu

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e-mail: illeslo@uvsc.edu

Assistant Dean: David Jordan
Office: PS 201c
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e-mail: jordanda@uvsc.edu

Academic Advisor, Pre-Health Professions: Jennifer Orchard
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Telephone: 801-863-7207
e-mail: orcharje@uvsc.edu

Administrative Assistant: Cathy Marshall
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Telephone: 801-863-6441
e-mail: marshaca@uvsc.edu

Advisory Council: Greg Craner, Chair; Jeffery Taylor; Carl Black; Carol Walker; Alene Harrison; John S. Gardner; Eric W. Gardner; 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.”
Using classroom assessments to determine student progress and course/program evaluation.

Providing students with a clear explanation of course prerequisites and requirements for successful completion of courses.

DEGREES OFFERED

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

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

Associate in Applied Science
- Dental Hygiene

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

Certificate
- Water and Wastewater Operations

DEPARTMENTS

Department of Biology
Administrative Assistant: Alana Konstanje
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Chair: Mark Bracken
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Associate Chair: Heather Wilson-Ashworth
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e-mail: wilsonhe@uvsc.edu

Advisor: Kimberly Sulz
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e-mail: sulzki@uvsc.edu

Advisor, Secondary Education: Richard Tolman
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e-mail: tolmarrri@uvsc.edu

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Advisor, Biotechnology: Tina Rankin
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Telephone: 801-863-6791
e-mail: rankiner@uvsc.edu

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Administrative Assistant: Kellie Hancock
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Chair: Dee Oyler
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e-mail: oylerde@uvsc.edu

Advisor: Karli Grover
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e-mail: groverka@uvsc.edu
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e-mail: dockstrkr@uvsc.edu

Chair: Robert O. Walsh
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Advisor: Mercedes Kelsey
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Department of Dental Hygiene
Administrative Assistant: Joyce Henderson
Office: BA 203
Telephone: 801-863-7536

Chair: George Veit
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e-mail: veitge@uvsc.edu

Advisor: George Veit

Department of Earth Science
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e-mail: hornesda@uvsc.edu

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e-mail: callisj@uvsc.edu

Advisor, Environmental Management: Jim Callison

Department of Mathematics
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e-mail: farnswkr@uvsc.edu

Department Chair: Carolyn Hamilton
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e-mail: hamiltca@uvsc.edu

Advisor: Kathy Andrist
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Telephone: 801-863-6309
e-mail: andriska@uvsc.edu

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e-mail: turnquily@uvsc.edu

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e-mail: faurotdo@uvsc.edu

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Telephone: 801-863-8803
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Telephone: 801-863-8591
e-mail: faurotdo@uvsc.edu

Advisor: Kathy Andrist
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e-mail: faurotdo@uvsc.edu

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e-mail: martinvi@uvsc.edu

Department Chair: Gary Measom
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e-mail: measomga@uvsc.edu

Associate Chair: Mina Wayman
Office: BA 205j
Telephone: 801-863-8193
e-mail: waymanmi@uvsc.edu

Advisor: Lynnae Marsing
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e-mail: marsinly@uvsc.edu

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Administrative Assistant: Shauna Roberts
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Chair: Jason Slack
Office: PE 147j
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Advisor: Mercedes Kelsey
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Advisor, PETE: Shaunna McGhie
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Department of Physics

Administrative Assistant: Kellie Hancock
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Chair: Brent Bargeron
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Advisor: Karli Grover
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e-mail: groverka@uvsc
COLLEGE OF TECHNOLOGY AND COMPUTING

DEAN: ERNEST CAREY
Office: CS 720
Telephone: 801-863-8237

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E-mail: marsinla@uvsc.edu

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Telephone 801-863-7736 or 1-888-548-7816
E-mail: maxfiuje@uvsc.edu

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Recruitment Coordinator/Rodeo Coach: Lewis Field
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Advisement Center
Advisement Center for College of Technology and Computing
Office: CS 635
Telephone: 801-863-8648

Advisor: Bonnie Cook
Office: CS 635
Telephone: 801-863-8403
E-mail: cookbo@uvsc.edu
» Administrative Information Management
» Business/Marketing Secondary Education
» Multimedia Communication Technology

Advisor: Bobbi Gren
Office: CS635
Telephone: 801-863-8489
E-mail: grenbo@uvsc.edu
» Criminal Justice
» Forensic Science
College of Technology and Computing

Advisor: Patti Miner
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» Computing Science
» Information Systems and Technology

Advisor: Fred Orchard
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» School Internship and Cooperative Education Manager
» Computer Sciences
» Pre-Engineering

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

Advisor: Carrie Peterson
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» Automotive Technology
» Collision Repair Technology
» Diesel Mechanics Technology
» Technology Management

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

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 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
Criminal Justice with an option in:
» Corrections
» Criminal Law
» Law Enforcement
Digit Media
» Forensic Science
Information Systems
Information Technology
» Database Administration
» Enterprise Systems
» Network Administration and Security
Emergency Services Administration
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

Associate in Applied Science
Administrative Information Support
Apprentice
» Aircraft Mechanics Technology (AMT)
» Carpenter Union (JATC)
» Diesel Mechanics
» Electrical Construction
» Electrical Union (JATC)
» Heating, Ventilation and Air Conditioning
» Industrial Maintenance
» Lineman
» Lineman Meter
» Lineman Substation
» Plumber
» Sheet Metal
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
College of Technology and Computing

Culinary Arts
Diesel Mechanics Technology
Digital Communication Technology
Drafting Technology
Electrical Automation and Robotics Technology
   Electrical Automation
   Semiconductor Instrumentation and Maintenance
Facilities Management
Emergency Services
   Fire Officer
   Firefighter/Emergency Care
Wildland Fire Management
Information Systems and Technology
Lineman Technology
Mechatronics
Technology

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
   Information Systems and Technology
   Technology Management

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

One-Year Certificate
   Administrative Support (Receptionist)
   Automotive Technology
   Building Construction
   Building Inspection Technology
   Cabinetry and Architectural Woodwork
   Collision Repair Technology
   Computer Systems Maintenance
   Diesel Mechanics Technology
   Firefighter Recruit Candidate
   Network Administration
   Paramedic
   Programmer

PROGRAMS
For program descriptions, see individual departmental sections in this catalog or on the department webpage.
Building Inspection Technology
Chair: Barry Hallsted
Office: GT 601
Telephone: 801-863-8137
E-mail: hallstba@uvsc.edu

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

Cabinetry and Architectural Woodwork
Interim Chair: Barry Hallsted
Office: GT 601
Telephone: 801-863-8137
E-mail: hallstba@uvsc.edu

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

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

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

Computer Science and Pre-Engineering
Chair: Abraham Teng
Office: CS 520j
Telephone: 801-863-6201
E-mail: tengab@uvsc.edu

Office Manager:
Office: CS 520h
Telephone: 801-863-8218

Construction Management
Interim Chair: Barry Hallsted
Office: GT 601
Telephone: 801-863-8137
E-mail: hallstba@uvsc.edu

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

Criminal Justice/Law Enforcement
Chair: Curtis Fillmore
Office: GT606c
Telephone: 801-863-8857
E-mail: fillmocu@uvsc.edu

Director Police Academy: Steve DeMille
Office: GT606b
Telephone: 801-863-8062
E-mail: demillst@uvsc.edu

Culinary Arts Institute
Department Chair: Diana Fallis
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E-mail: fallisdi@uvsc.edu

Office Manager/Advisor: Julie Slocum
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Diesel Mechanics Technology
Chair: Don Wilson
Office: SA 327A
Telephone: 801-863-8124
E-mail: wilsondo@uvsc.edu

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

Digital Media
Department Chair: Rodayne Esmay
Office: CS 526C
Telephone: 801-863-7050
E-mail: esmayro@uvsc.edu

Office Manager: Katrina Van Cott
Office: CS 526
Telephone: 801-863-6217
E-mail: vancokta@uvsc.edu

Electrical Automation and Robotics Technology
Chair: David Johnson
Office: GT 616c
Telephone: 801-863-6152
E-mail: johnsoda@uvsc.edu

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: maxfieje@uvsc.edu

Associate Department Chair: Gary Noll
Office: Provo Airport

Office Manager: Susie King
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Telephone: 801-863-7701
E-mail: kingsu@uvsc.edu

Academic Advisor: Wendy Farnsworth
Office: Provo Airport (PA 205)
Telephone: 801-863-7753
E-mail: famswwe@uvsc.edu
Engineering Graphics and Design Technology
Chair: Darin Taylor
Office: CS704g
Telephone: 801-863-8168
E-mail: taylorda@uvsc.edu

Office Manager: Christine Bigelow
Office: CS 704
Telephone: 801-863-8363
E-mail: bigelocha@uvsc.edu

Facilities Management
Interim Chair: David Johnson
Office: GT 616c
Telephone: 801-863-6152
E-mail: johnsoda@uvsc.edu

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

Information Systems and Technology
Chair: Floyd Wilkes
Office: CS 601g
Telephone: 801-863-6149
E-mail: wilkesfl@uvsc.edu

Office Manager: Rachel McEwan
Office: CS 601
Telephone: 801-863-8182
E-mail: mcewanra@uvsc.edu

Lineman Technology
Chair: David Johnson
Office: GT 616c
Telephone: 801-863-6152
E-mail: johnsoda@uvsc.edu

Office Manager/Advisor: Jenny Hoover
Office: Geneva Building (GB 200)
Telephone: 801-863-7960
E-mail: hooverje@uvsc.edu

Technology Management
Chair: David Johnson
Office: GT 616c
Telephone: 801-863-6152
E-mail: johnsoda@uvsc.edu

Office Manager:
Office: GT 616
Telephone: 801-863-8137
E-mail:
SCHOOL OF EDUCATION

DEAN: BRIANT J. FARNSWORTH
Office: EB 117b
Telephone: 801-863-8006

ASSOCIATE DEAN: LINDA E. PIERCE
Office EB 116a
Telephone: 801-863-8095

DEGREES OFFERED

Master of Education
Bachelor of Science

Elementary Education

LICENSES OFFERED

Early Childhood (K-3)
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
Math Education
Physical Education Teacher Education
Theatre Arts 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: Susan Simmerman
Office: EB 116a
Telephone: 801-863-5097

Department Office Manager: Wendy Fletcher
Office: EB 116
Telephone: 801-863-8228
Field Coordinator: John Burton
Office: EB 115
Telephone: 801-863-6587

Advisor: Leslie Hudson
Office: EB 114b
Telephone: 801-863-8527

Advisor: Lexi Powell (Early Childhood)
Office: EB 114b
Telephone: 801-863-8217

Advisor: Shaunna Requilman
Office: EB 114a
Telephone: 801-863-6555

Children's Center
Office: EB 134 & 135
Telephone: 801-863-8146

Elementary Education Partner Districts:
Alpine 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: EB 116b
Telephone: 801-863-6573

Department Office Manager: Wendy Fletcher
Office: EB 116
Telephone: 801-863-8228

Field Coordinator: Richard Allred
Office: EB 115
Telephone: 801-863-6580

Advisor: Leslie Hudson (Names I-O)
Office: EB 114b
Telephone: 801-863-8527

Advisor: Lexi Powell (Names P-Z)
Office: EB 114b
Telephone: 801-863-8217

Advisor: Shaunna Requilman (Names A-H)
Office: EB 114a
Telephone: 801-863-6555
SCHOOL OF THE ARTS

INTERIM DEAN: KATHIE DEBENHAM
Office: GT 605a
Telephone: 801-863-6820
E-mail: debenhka@uvsc.edu

INTERIM ASSOCIATE DEAN FOR ACADEMICS:
Office: GT 605b
Telephone: 801-863-6820
E-mail:

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

Assistant Dean for Administration: Toni Harris
Office: LA 209c
Telephone: 801-863-6816
E-mail:

Assistant to the Dean for Finance & Operations: E. Linda Moore
Office: LA 209
Telephone: 801-863-8743
E-Mail: mooreel@uvsc.edu

Administrative Assistant:
Office: GT 605
Telephone: 801-863-6820
E-mail:
Fax: 801-863-6819

DEGREES OFFERED

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

Bachelor of Arts/Science
Art and Visual Communications
Dance
Movement Studies—Ballroom Dance
Music
Secondary Education
Dance
Music
Theatre Arts
Theatre Arts
THE DEPARTMENT OF ART AND VISUAL COMMUNICATIONS

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.

ASSOCIATE IN ARTS/SCIENCE

Art and Visual Communications
Dance
Music
Theatre Arts

ASSOCIATE IN APPLIED SCIENCE

Art and Visual Communications
Design/ Illustration
Graphic Design
Photography

MINOR

Music
Theatre Arts

CERTIFICATE

Art and Visual Communications

DEPARTMENTS

Department of Art and Visual Communications

Chair: Steve Bule
Office: GT 535a
Telephone: 801-863-7378

The mission of the 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: Bryce Ryting
Office: GT 336a
Telephone: 801-863-6480

Musicians work as teachers, performers, composers, music librarians, administrators, music therapists and so forth. In addition to providing personal enrichment, music courses may also satisfy general education requirements. Students are welcome to audition for membership in the performing groups whether or not they intend to major in music.

Department of Theatrical Arts for Stage and Screen

Chair: Terry Petrie
Office: FA 709
Telephone: 801-863-7222

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, stimulate research and serve as a valuable resource in our academic setting as well as in the community.

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: 801-863-6742

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 Penny'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

School of the Arts Advisory Board
Chair: Mary Robinson (current), Merrill Gappmayer (in-coming chair)
Contact via Barbara Hammond 801-863-6246, hammonba@uvsc.edu

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

**DEAN: BONNIE G. HENRIE**
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Telephone: 801-863-8311
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E-mail: bonnie.henrie@uvsc.edu

**Associate Dean: K.D. Taylor**
Office: LA 210e
Telephone: 801-863-8949
e-mail: kd.taylor@uvsc.edu

**Assistant Dean: Michelle Kearns**
Office: LA 210d
Telephone: 801-863-6746
e-mail: michelle.kearns@uvsc.edu

**Administrative Assistant:**
Office: LA 210
Telephone: 801-863-6712
e-mail:

**DEGREES OFFERED**

**Bachelor of Arts**
Integrated Studies

**Bachelor of Science**
Integrated Studies

**Associate in Arts**
General Academics
Integrated Studies

**Associate in Science**
General Academics
Integrated Studies

**Minor**
American Indian Studies
American Studies
Deaf Studies
Environmental Studies
Gender Studies
Peace and Justice Studies
Religious Studies
INTERDISCIPLINARY PROGRAMS

INTEGRATED STUDIES

Director: Scott Abbott
Office: LA 109c
Telephone: 801-863-8537
E-mail: scott.abbott@uvsc.edu

Advisor: Lynne Hetzel
Office: LA 109f
Telephone: 801-863-8455
E-mail: lynn.hetzel@uvsc.edu

Faculty:
Professor
Scott Abbott
Mark Jeffreys
Laurelyn Whitt
Associate Professor
Alan Clarke
Assistant Professor
Nancy Rushforth

The Program in Integrated Studies serves students with interests and capabilities in more than one scholarly discipline. The degree trades disciplinary depth for breadth and for cross-disciplinary research and writing that culminate in a senior thesis. The Program encourages and supports interdisciplinary study across campus.

COMMITTEE ON INTERDISCIPLINARY STUDIES

Committee Chair: Jans B. Wager
Office: LA 114
Telephone: 801-863-8340
Fax: 801-863-6255
E-mail: jans.wager@uvsc.edu

Interdisciplinary Studies Faculty Committee:
Professor
Scott Abbott
William Cobb
Kathie Debenham
David R. Keller
Jans B. Wager
Associate Professor
Brian Birch
Robert Cousins
Bryan Eldredge
Philip Gordon
David Knowlton
Michael Minch
Assistant Professor
John Gosbert
Shannon M. Mussett
Michael Marx Shaw
Jeff Torlina
David Wilson
Honors Program Director
Michael Marx Shaw

The Committee on Interdisciplinary Studies provides a framework for supporting innovative, boundary-crossing inquiry among students and faculty across campus. To this end Committee on Interdisciplinary Studies coordinates the efforts of existing multidisciplinary programs and provides guidance and support as new programs are envisioned and established.

The boundaries between disciplines form a fertile ground for creative and innovative research. New knowledge grows in these fields that often does not fit easily into the standard demarcations of academic departments. This type of scholarship asks questions that draw on established bodies of thought while reworking certain connections and concerns in order to explore vibrant and valuable new areas.

AMERICAN INDIAN STUDIES

Coordinator: David R. Wilson
Office: LA 012t
Telephone: 801-863-6916
E-mail: david.wilson@uvsc.edu

Faculty Committee:
Professor
Laurelyn Whitt
Associate Professor
David Knowlton
Jan Wellington
Assistant Professor
David R. Wilson
Advisor: John Macfarlane
Office: LA 220
Telephone: 801-863-6716
Email: john.macfarlane@uvsc.edu

The American Indian Studies minor will provide 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.

AMERICAN STUDIES

Coordinator: Robert Cousins
Office: LA 114n
Telephone: 801-863-8571
E-mail: robert.cousins@uvsc.edu

Faculty Committee:
Professor
William Cobb
Robert Robbins
Associate Professor
Lyn Bennett
Robert Cousins
Philip Gordon
Christa Albrecht-Crane
American Studies is 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 the knowledge and skills they are mastering as part of their major from the perspective of other 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—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.

DEAF STUDIES

Coordinator: Bryan Eldredge
Office: LA 003j
Telephone: 801-863-8529 voice/videophone
E-mail: bryan.eldredge@uvsc.edu

Faculty Committee:
Assistant Professor
Dale H. Boam
Flavia Fleisher
Will Garrow

Advisor: Laura Shelley
Office: LA 013
Telephone: 801-863-8047
E-mail: shellela@uvsc.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.

ENVIRONMENTAL STUDIES

Coordinator: David R. Keller
Office: LA 109b
Telephone: 801-863-6363
Web site: www.uvu.edu/environmentalstudies/
E-mail: david.keller@uvsc.edu

Faculty Committee:
Professor
Elaine Englehardt
Kathryn French

Environmental Studies is an interdisciplinary discipline which explores the complex relations between nature and culture. Environmental Studies is premised on the idea that culture is linked to nature, and that nature is linked to culture.

Environmental Studies challenges students to examine both the ecological and social underpinnings of environmental issues and the complex interplay between natural and social systems, from local to global scales. Since humans are integral parts of ecological systems, an understanding of the biosphere must include studies in both the humanities and natural science. Knowledge of the structure and function of natural systems is crucial, as well as an understanding of the ways culture affects the way we perceive nature. In this way, Environmental Studies is built upon the liberal arts.

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 work for government agencies at local, state, and federal levels. Tens of thousands of jobs become annually available in both the public and private sectors.

An emphasis in Environmental Studies is also available. See Integrated Studies for details.

GENDER STUDIES

Coordinator: Shannon M. Mussett
Office: LA 121v
Telephone: 801-863-6264
E-mail: shannon.mussett@uvsc.edu

Faculty Committee:
Professor
Jans Wager
Associate Professor
Lyn Bennett
Bryan Eldredge
Laura Hamblin
Peace and Justice Studies

Coordinator: Michael Minch
Office: LA 121J
Telephone: 801-863-7482
E-mail: minchmi@uvsc.edu

Faculty Committee:
Professor
William Cobb
Kathryn French
Robert Robbins

Associate Professor
Lyn Bennett
Laura Hamblin
Jill Jasperson
Michael Minch

Assistant Professor
Stephen Gibson
Jeff Torlina

Advisor: Lynne Hetzel
Office: LA 109f
Telephone: 801-863-8455
E-mail: lynn.hetzel@uvsc.edu

The Religious Studies Program is an interdisciplinary approach to 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.

University Honors

Director: Michael Marx Shaw
Office: LC 204a
Telephone: 801-863-6265
Fax: 801-863-6562
E-mail: michael.shaw@uvsc.edu

The Honors program at Utah Valley University is a community of engaged scholars, both students and faculty, devoted to learning, to pursuing excellence in the classroom, and to participating in a world of ideas which extends far beyond the campus. Open to highly motivated students from any academic major, University Honors provides opportunities to realize academic, professional, and human potential. Involvement in Honors enhances a student’s educational experience through courses with outstanding faculty featuring innovative classroom approaches, as well as through experiential learning, cultural events, and social gatherings. The program stresses critical thinking and analysis through intensive reading, writing and discussion. University Honors offers division courses for entering students to multiple disciplines.
freshman, transfer and continuing UVU students interested in graduating with Honors.

Honors cultural and social events, workshops for graduate school preparation, and service and leadership opportunities integrated into the curriculum. At UVU, an Honors Student Advisory Group takes the lead in design and planning of these events, collaborating with faculty and Program administration. Honors students will enjoy access to an on-campus Study Commons and a residential option to live with other Honors students close to campus. Honors collaborates with the Student Organization for Academic Research (SOAR), and Honors students receive mentoring by Honors professors on building careers, designing and conducting original projects, and doing cutting-edge work in the studio, lab, and field.

University Honors seeks to build a diverse community open to students from a wide cross-section of academic majors. We invite all high-achieving, intellectually curious, and academically motivated students to apply to the UVU Honors Program. Its goal is to enhance the educational experience of students, including the student body at large, and to connect what students learn with their professions, their communities, and the wider world. The Honors Program provides many benefits dedicated to the success of the Honors student and helps create an environment which nurtures student’s academic and personal achievement.

LIBRARY

Telephone: 801-863-8265
Fax: 801-863-7065
http://www.uvu.edu/library

Hours:
7 a.m. - 11 p.m. Monday - Thursday
7 a.m. - 7 p.m. Friday
8 a.m. - 7 p.m. Saturday

Director: Michael J. Freeman
Office: Library 502e
Telephone: 801-863-8751
E-mail: freemani@uvsc.edu

The Utah Valley University Library supports the College mission of teaching, learning and scholarship by providing access to quality information resources, offering exceptional services, utilizing current technology to enhance research, promoting information literacy, and ensuring intellectual freedom.

Library Advisory Board: Cindy Clark, Chair; Gene Nelson; Chris Pope; Joel Sybrowsky.

The Library houses 215,000 volumes, 15,000 videos, and over 30,000 periodicals in print or electronic format. Reference service is available daily to help students doing research; formal classroom instruction is also provided. The library network provides electronic access to over 123 indexes and databases, six full-text newspaper databases, 6500 e-books, and library book catalogs throughout Utah, the United States and the world. Full Internet access is available. Through the Utah Academic Library Consortium, UVU student cards are valid at all public and private academic libraries in Utah. Web-based Interlibrary Loan moves materials quickly between consortium members.

The Library contains reserve materials (including electronic reserve) for instructors, a teacher education resource center, group study rooms, a specialized equipment lab with research equipment for students with disabilities, and hosts a series of art exhibits throughout the year.

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. University College interdisciplinary composition supports all areas in increasing the academic excellence of Utah Valley University.

BASIC COMPOSITION/ENGLISH AS A SECOND LANGUAGE

Department Chair: Forrest G. Williams
Office: LA 234e
Telephone: 801-863-8494
E-mail: forrest.william@uvsc.edu

ESL Program Director: Kevin Eyraud
Office: LA 234f
Telephone: 801-863-7091
E-mail: eyraudke@uvsc.edu

The Basic Composition/ESL Department is dedicated to assisting students and community members who wish to improve their writing 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.

COLLEGE SUCCESS STUDIES

Department Chair: Mike Jensen
Office: LC 208
Telephone: 801-863-7090
E-Mail: mike.jensen@uvsc.edu

Assistant Chair: Chris Goslin
Office: LC 234
Telephone: 801-863-6558
E-mail: chris.goslin@uvsc.edu

Academic Director of Center for Student Success: Lisa Lambert
Office: LC 211
Telephone: 801-863-8741
E-mail: lisa.lambert@uvsc.edu

Assistant Director, UV Mentors: Marinda Ashman
Office: LC 212
Telephone: 801-863-7227
E-mail: marinda.ashman@uvsc.edu

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 and Critical Thinking and Reading Strategies 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. The Critical Thinking and Reading Strategies courses teach students to effectively process, reduce, and remember the essentials from college courses and texts. Also presented are test taking and memory skills, speed reading techniques, and other learning strategies which help students increase their academic confidence and success.
The English as a Second Language program has three goals:

- To assist international and non-native English-speaking students in becoming proficient in English communication skills of listening, speaking, reading, and writing.

- To prepare international and non-native English-speaking students to succeed either in college or in the job market.

- To familiarize international and non-native English-speaking students with the American culture.

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 college for regular academic studies.

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.

The Learning Strategist 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

Math Tutoring
Drop In Lab: LA 201

Manager: Kathryn Van Wagoner
Office: Academic Tutoring, LA 201
Telephone: 801-863-8310
Online: http://www.uvu.edu/mathlab
E-mail: kathryn.vanwagoner@uvsc.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 group study room, and live Internet tutoring through Math Lab Online. The Math Lab also provides workshops and programs to promote student success in math.

Peer Tutoring Center
Drop In Lab: LA 201

Manager: Regie Holdaway
Office: LA 201
Telephone: 801-863-8356
Online: http://www.uvu.edu/peertutoring
E-mail: regie.holdaway@uvsc.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.

Writing Center
Drop In Lab: Library 208

Manager:
Office: Library 208
Telephone: 801-863-8099
Online: http://www.uvu.edu/wc
E-mail: @uvsc.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: forbiske@uvsc.edu
Fax: 801-863-7314

Dean: Stanley E. Jenne, Ph. D

Office: WB 128b
Telephone: 801-863-8260
E-mail: jennest@uvsc.edu
Fax: 801-863-7314

Associate Dean: Eugene L. Seeley, Ph.D.

Office: WB 219
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E-mail: seeleyeu@uvsc.edu
Fax: 801-863-7314

Assistant Dean: Mikki O’Connor

Office: WB 129
Telephone: 801-863-8850
E-mail: oconnomi@uvsc.edu
Fax: 801-863-7314

Assistant Dean External Relations: Randall L. Beckham

Office: WB 133
Telephone: 801-863-8458
E-mail: Randy.Beckham@uvsc.edu
Fax: 801-863-7314

Advisory Council

Steve Beck, Principal, COBE Real Estate Development; Sue Bingham, Branch Manager, Les Olson Company; John Blatter, Goldman Sachs (retired); Michael Colemere, Consultant, Logo Works; Mary Crafts, Owner, Culinary Crafts Catering; James Croft, CEO and Founder, Mortgage Asset Research Institute; Martin Frey, Partner, Connect Advisors, LLC; Reed Halladay, Managing Director, Bell Air Investment Advisors; Randy Harris, VP of Administration and Finance, California State University Northridge; Chris Horton, VP of Business Development, Engage Thoughtware; Dan Howells, CEO, Nature’s Sunshine Products, Inc. (retired); Neall Humphrey, President & CEO, Creative Concepts Group; Bill Johnson; Amy Lewis, President, IPOPLLCC.com.; Christopher Liechty, President, Dialect Brand; Tim Martin, Nuclear Management Consultant; Carla Meine, Owner, O’Currence Teleservices; Patrick Milligan, VP of NW Region, Kraft Foods Global, Inc; N. Dan Reeve(Council Chair), Managing Director, Horsley Bridge Partners; Mark Rogers (Council Chair Elect), General Manager Global Strategic Alliances, Novell, Inc.; Steve Sessions, President & CEO, FullerWestern Real Estate; Bill Siddoway, Consultant, UVU Institutional Advancement; Kevin L. Simister, Partner, Hawkins, Cloward & Simister; Greg Warnock, Managing Director, Mercato Partners; John Whetten, President & CEO, Challenge Dairy; W. Richards (Rick) Woodbury, (Past Council Chair), President, Woodbury Corporation.

Professorships

Reed and Christine Halladay Executive Lecture Professor: Lynn Adams, Professor of Operations Management
Miles and Mary Morris Professor of Entrepreneurship: Peter Robinson, Professor of Management
Woodbury School of Business

Woodbury School of Business Alumni Board
Jeni Allphin, UVU Alumni Association; Louise Bridge, UVU Bookstore; Eric Graves, Nature's Sunshine, Tami Jensen, UVU Woodbury School of Business; Linda Makin, UVU Budget Director; Matt L. Merrell, Daniels Capital, LLC; Mary Tilson, UVU Bookstore; Brian Wall, Nature's Sunshine Products, Inc.; Jason Wright, Nature's Sunshine Products; John Shoaf, David N. Deutsch & Company; Rachel Tracy, UVU student.

Vision Statement
As a teaching institution, we aspire to be the premier Business School in our region and a vital catalyst for economic development, entrepreneurship, global awareness, and application of knowledge.

Mission
The UVU Woodbury School of Business through its close-knit culture provides an education that is built upon

- High academic quality in instruction and preparation of students
- Innovative solutions to student needs

TOP STRATEGIC INITIATIVES

- Becoming the school of choice by
  - Launching student careers
  - Attracting potential employers
  - Meeting community needs

- Expanding the awareness and enhancing the reputation of the School's
  International perspective and expertise.

- Expanding the awareness and enhancing the reputation of the School's
  Entrepreneurial perspective and expertise.

- Expanding the Woodbury School of Business' resource base.

- The attraction, development, and retention of faculty and staff to support
  the mission of the school.

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 Advising 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.

Advisor: Diana Johnsen
Office: WB 257f
Telephone: 801-863-832
E-mail: johnsedi@uvsc.edu

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

Advising
The Woodbury School of Business Advising 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.

Advisor: Diana Johnsen
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E-mail: johnsedi@uvsc.edu

Advisor: Terry Acord
Office: WB 257b
Telephone: 801-863-8314
E-mail: acordte@uvsc.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 Adams-Williams
Office: WB 257c
Telephone: 801-863-8379
E-mail: adamspe@usc.edu

John Wilson
Office: WB 257a
Telephone: 801-863-6307
E-mail: wilsonjp@uvsc.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.

Each student must submit a completed Woodbury School of Business Admission Form to the Woodbury School of Business Advisement Office in WB 257 or by mail to:

Woodbury School of Business Advisement Office
Utah Valley University, MS 207
800 West University Parkway
Orem, UT 84058

Accessibility to the Woodbury School of Business Courses
All 1000- and 2000-level business courses are open to all UVU students along with selected 3000- and 4000-level courses. Some courses have prerequisites, which must be satisfied. No more than 15 credits of upper-division courses can be taken before a student has been formally matriculated into the UVU Woodbury School of Business with advanced standing.

Repeating Failed Foundation Core Courses
Each business major has foundation core courses. A student will be allowed to repeat a failed foundation core course only twice. If the foundation core course
is not passed with a minimum grade of "C-" after the second retake, the student will not be allowed to apply for advanced standing (matriculation) toward a degree in one of the Woodbury School of Business majors.

Application Requirements for Advanced Standing (Matriculation)
To be considered for admission to advanced standing in a Woodbury School of Business four-year program, a student must do the following

- Complete the foundation core courses listed for their major with at least a "C-" grade; Paralegal Studies majors must have a grade of "C+" or higher. A student will be limited in taking upper-division coursework (3000 level or higher) until these foundation courses are completed.

- Achieve a grade point average (GPA) in business courses of at least a 2.5 and an overall GPA of 2.0.

- Make formal application to advanced standing (matriculation) through the Woodbury School of Business advisor by completing the appropriate form.

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

Major Specialization of Courses
After admittance to advanced standing, the student will be required to complete the courses required in their major specialization. See your Woodbury School of Business advisor or the appropriate section of the current catalog for requirements for each major specialization.

Maintenance of Advanced Standing
Once admitted to advanced standing in the Woodbury School of Business, the student must maintain the 2.5 business GPA to remain in the Woodbury School of Business. A student falling below the minimum GPA will be placed on probation for one semester. If the business GPA remains below 2.5 for a second semester, advanced standing will be revoked. A student who wishes to continue in the Woodbury School of Business major will be required to retake some classes to bring up the business GPA to at least 2.5 and will be required to apply for reinstatement of advanced standing.

A student will be allowed to repeat a failed major specialization course only twice. If the course is not passed with a minimum of "C-" after the second retake ("C+" for 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; 10 of these credit hours must be within the last 45 credit hours earned toward completion of the degree. The student pursuing a bachelor degree must also complete the general education requirements listed for the Associate in Science degree. The student must have a minimum 2.5 GPA in all Woodbury School of Business courses and a minimum 2.0 GPA overall for graduation.

The Woodbury School of Business reserves the right to change, at any time, the requirements for graduation and every candidate not yet accepted into advanced standing for a degree will be required to comply with such changes as far as the uncompleted portion of his/her degree is affected. Any exceptions must be approved by the Dean. In additional courses within degrees may change at any time. Students will be required to complete the revised course requirements even if the changes add credit hours to the original degree.

Whether or not a course is accepted toward degree requirements is determined by the date it was taken and the grade received. For details contact your UVU Woodbury School of Business Advisor or the Woodbury School of Business Assistant Dean.

Credit Policy
1. Obsolete Credit: UVU Woodbury School of Business credit or business transfer credit earned more than ten years earlier than the proposed date of graduation (five years for business computer proficiency) may not be accepted toward requirements for graduation unless validated through taking a challenge examination, completing the next course in a related sequence with a grade of "C-" or better, or receiving department chair and assistant dean approval.

2. Waiver/Substitution Requests: Any deviations from the printed UVU Woodbury School of Business graduation requirements must be approved by the appropriate department chair and the assistant dean prior to waiving, substituting, or taking the course(s) in question.

3. Challenge/Experiential Credit: Credit for any course that appears in the current catalog may be awarded to individuals who can prove through appropriate assessment and/or documentation that they have already acquired the equivalent knowledge and/or expertise required for successful completion of that course. See your Woodbury School of Business advisor for details on how to receive experiential/challenge credit for a specific course. Students may not challenge a class for which they are or have been enrolled. No more than 16 credit hours of challenge credit may be applied to a bachelor degree in the Woodbury School of Business.

4. Coop/Internship Credits: Academic credit for cooperative work experience and/or internship may be granted in bachelor degrees. Check with your Woodbury School of Business advisor for the maximum number of coop/internship credits that can be applied to your specific program. Additional coop/internship credits may be taken (but not applied toward graduation) with the approval of the manager of career and corporate development and the assistant dean.

Transfer Credits: Students transferring from other colleges or universities within the Utah System of Higher Education (USHE) should consult their Woodbury School of Business advisor to determine which credits will be accepted by UVU. Students wishing to transfer Woodbury School of Business credits from colleges or universities outside the state not covered by the USHE Transfer Credit Guide may need to submit further documentation which allows the Transfer Office, Woodbury School of Business advisor, department chair, and/or Woodbury School of Business assistant dean to assess the content of courses taken. In the majority of cases, courses taken at institutions accredited by the Association to Advance Collegiate Schools of Business (AACSB) International will be accepted. Only courses with a grade of "C-" or higher are eligible for credit. Classes taken more than 10 years ago may not be accepted but will be evaluated individually.

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

Bachelor of Arts
- Economics

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

Minors
Accounting
Business Management
Economics
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 Partnership
The UVU Woodbury School of Business and Utah State University College of Business have formed a partnership to offer the Master of Business Administration (MBA) degree on the Orem Campus. Students interested in pursuing this MBA degree should contact Diana Johnsen at 863-8832 for information.

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 completed by passing the hands-on production exam modules with a score of 80 percent or higher on each module or by completing the DGM 2010 and passing the tests given at the end of each module at 80 percent or higher. The prerequisite for DGM 2010 is DGM 1010. The test for DGM 1010 is available at the testing center.

The business computer proficiency exam consists of four modules: word processing, spreadsheet, presentation, and database software applications. These tests may be taken individually, but all tests must be completed within the same semester.

For more information on or to obtain a review sheet for the business computer proficiency exam, see the business advisors in WB 257. A fee will be charged for taking the exam.

Associate in Business

<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</td>
<td>3.0</td>
</tr>
<tr>
<td>or ENGL 2020 Intermediate Writing—Science and Technology (3.0)</td>
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</tbody>
</table>

Complete one of the following:

- MATH 1050 College Algebra
- An Advanced Placement (AP) Mathematics Test with a score of 3 or higher

Complete one of the following:

- HIST 2700 US History to 1877 (3.0)
- 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
- HLT 1100 Personal Health and Wellness (2.0)
- MGMT 2010A or MGMT 2010B for specific requirements on each degree offered by the individual departments.

Distribution Courses

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

Discipline Core Requirements: 25 Credits

- ACC 2010 Financial Accounting
- ACC 2020 Managerial Accounting
- MATH 1100 Introduction to Calculus
- MGMT 2200 Business Communications
- ECON 2020 Macroeconomics
- ECON 2010 Microeconomics
- LEGL 3000 Business Law
- MGMT 2340 Business Statistics I
- MATH 2040 Principles of Statistics (4.0)

Complete one of the following:

- Business Computer Proficiency Exam* or DGM 2010 Business Computer Proficiency (3.0)

Graduation Requirements:

1. Completion of a minimum of 61 semester credits.
2. Overall grade point average of 2.0 or above with 2.5 GPA or above in Business courses. No grade below C- in business courses.
3. Residency hours: Minimum of 20 credit hours through course attendance at UVU with at least 12 credits of Woodbury School of Business courses.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.

Notes: See information on the back of the program card for additional specialized general education/major requirements for individual transfer schools (some requirements for other schools cannot be taken at UVU).

Footnotes:

- Students will be required to complete the Business Computer Proficiency exam with a score of 80 percent or higher 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.

DEPARTMENTS

Accounting

Chair: Steven D. Johnson
Office: WB 136b
Telephone: 801-863-7186
E-mail: johnsosd@uvsc.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.
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.

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.

The Hospitality Management program prepares graduates for employment in one of the fastest growing segments of the nation’s economy. Students are marketable in a wide range of hospitality and tourism areas such as hotel, resort, and motel management; restaurant and institutional food service; event planning; cruise ship management; convention and visitor facilities; and gaming facilities.

For students interested in management positions in the hospitality industry, the Hospitality Management program offers a Bachelor of Science in Hospitality Management with a track in Hotel/Restaurant Management. The demand for management staff in this industry is tremendous particularly for those with specialized hospitality management skills.

The track in Food and Beverage Management is 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 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 has the only ABA (American Bar Association) approved paralegal program in Utah.
Interdisciplinary Programs

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 brings together student scholars from across campus, encouraging critical thinking and interdisciplinary participation in the world of ideas.

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

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

Interdisciplinary programs at UVU offer innovative learning experiences that challenge, teach, and prepare student for successful lives and careers after graduation.

For more information, please see individual department pages.

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

Vice President for Academic Affairs: Elizabeth J. Hitch
Office: BA 218
Telephone: 801-863-8951
email: elizabeth.hitch@uvsc.edu

INTEGRATED STUDIES

Director: Scott Abbott
Office: LI 510
Telephone: 801-863-8537
e-mail: scott.abbott@uvsc.edu

Advisor: Lynne Hetzel
Office: LI 508
Telephone: 801-863-8455
e-mail: lynne.hetzel@uvsc.edu

INTEGRATED STUDIES DEGREES

Bachelor of Arts
Bachelor of Science
Associate in Arts
Associate in Science

The Program in Integrated Studies serves students with interests and capabilities in more than one scholarly discipline. The degree trades disciplinary depth for breadth and for cross-disciplinary research and writing that culminate in a senior thesis. The Program encourages and supports interdisciplinary study across campus.
COMMITTEE ON INTERDISCIPLINARY STUDIES

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

Advisor: Lynne Hetzel
Office: LI508
Telephone: 801-863-8455
e-mail: lynne.hetzel@uvsc.edu

The Committee on Interdisciplinary Studies provides a framework for supporting innovative, boundary-crossing inquiry among students and faculty across campus. To this end the Committee on Interdisciplinary Studies coordinates the efforts of existing multidisciplinary programs and provides guidance and support as new programs are envisioned and established.

The boundaries between disciplines form a fertile ground for creative and innovative research. New knowledge grows in these fields that often do not fit easily into the standard demarcations of academic departments. This type of scholarship asks questions that draw on established bodies of thought while reworking certain connections and concerns in order to explore vibrant and valuable new areas.

Interdisciplinary Minors

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

HONORS

Director: Michael Marx Shaw
Office: LC 204a
Telephone: 801-863-6265
Fax: 801-863-6562
e-mail: michael.shaw@uvsc.edu

The Honors Program at Utah Valley University is a community of engaged scholars, both students and faculty, devoted to learning, to pursuing excellence in the classroom, and to participating in a world of ideas which extends beyond the campus. Open to highly motivated students from any academic major, the Honors Program provides opportunities to realize academic, professional, and human potential. Involvement in Honors enhances a student’s educational experience through courses with outstanding faculty featuring innovative classroom approaches, as well as through experiential learning, cultural events, and social gatherings. The Program stresses critical thinking and analysis through intensive reading, writing and discussion. The Honors Program offers courses for entering freshman, transfer and continuing UVU students interested in graduating with Honors.

The Program’s cultural and social events, workshops for graduate school preparation, and service and leadership opportunities integrated into the curriculum. Honors students will enjoy access to an on-campus Study Commons and a residential option to live with other Honors students close to campus. Honors collaborates with the Student Organization for Academic Research (SOAR), and Honors students receive mentoring by Honors professors on building careers, designing and conducting original projects, and doing cutting-edge work in the studio, lab, and field.

Interdisciplinary Programs

The Center for the Study of Ethics

Director: David Keller
Office: LA 109
Telephone: 801-863-8455
e-mail: ethics.center@uvsc.edu

The purpose of the Center for the Study of Ethics is twofold: to foster engaged citizenship and to promote ethics in the workplace. The programming of the Center is premised on the idea that moral discourse is vital to a flourishing, civil society; the purpose of the Center for the Study of Ethics is to explore the ethical dimensions of a wide variety of disciplines and contemporary moral issues. Designed to serve the needs of students, faculty, and the community at large, the Center promotes the study of ethics through curriculum development, public forums, publications, and faculty workshops. The Center facilitates discussion about the moral nuances of everyday life, and supports the individual effort of orienting oneself within the wider social horizon.

The Center for the Advancement of Leadership

Director: Bruce Jackson
Office: WB 236b
Telephone: 801-863-6136
e-mail: jacksobr@uvsc.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, fire science, 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 WB 236 (863-6465).

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 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.

Advisory Board:

Christopher Barden, Clinical Psychologist & Trial Attorney; Stephen R. Covey, Vice Chair of FranklinCovey Company; Stephen M.R. Covey; Rondo Fehlberg, past Board Chair; Tom Macdonald, CEO of Canyon Park Management and Board Past 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. See www.uvu.edu/leadership for more details.
Accounting

Professor Completion of GE and specified department requirements.

Business Computer Proficiency Exam * or Any approved Behavioral, Social, or Political Science Distribution Course

Certificate in Accounting 29.5 Credits

Discipline Core Requirements: 22.5 Credits

• ACC 1150 Fundamentals of Business Math 3.0
• ACC 2010 Financial Accounting 3.0
• ACC 2020 Managerial Accounting 3.0
• ACC 2610 Accounting Systems Applications 3.0
• DGM 2010 Business Computer Proficiency 3.0
• MGMT 1010 Introduction to Business 3.0
• ENGL 1010 Introduction to Writing 3.0
• MGMT 2250 Job Application and Advancement Skills 1.0

or MGMT 3890 Career Preparation (2.0)
• MGMT 269R Executive Lecture Series 0.5

or MGMT 495R Executive Lecture Series (1.0)

Elective Requirements: 7 Credits

• Woodbury School of Business courses (ACC, DGM, BMED, CJC, HM, INFO, LEGL prefixes)

Graduation Requirements:
1. Minimum of 29.5 credits required for a Certificate.
2. Overall GPA of 2.0 required for graduation with no grade lower than a "C-" in Woodbury School of Business classes.

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 2014-D modules as necessary with a score of 80 percent or higher on each module.

AS Pre Major in Accounting 61 Credits

General Education Requirements: 36 Credits
• ENGL 1010 Introduction to Writing 3.0
• ENGL 1010 Introduction to Writing 3.0
• ENGL 1010 Introduction to Writing 3.0
• ENGL 1010 Introduction to Writing 3.0
• ENGL 1010 Introduction to Writing 3.0
• ENGL 1010 Introduction to Writing 3.0
• ENGL 1010 Introduction to Writing 3.0

Distribution Courses
• Biology 3.0
• Physical Science 3.0
• Additional Biology or Physical Science 3.0
• Humanities Distribution-HUM 1010 recommended 3.0
• Fine Arts Distribution 3.0
• Social/Behavioral Science 3.0

Discipline Core Requirements: 25 Credits
• ACC 2010 Financial Accounting 3.0
• ACC 2020 Managerial Accounting 3.0
• ACC 2100 Payroll Accounting 3.0
• ACC 2610 Accounting Systems Applications 3.0
• ACC 3010 Intermediate Accounting I 3.0
• ACC 3300 Cost Management 3.0
• ACC 3400 Individual Income Tax 3.0
• DGM 2010 Business Computer Proficiency 3.0

Footnotes:
1. Completion of a minimum of 63.5 semester credits.
2. Overall GPA of 2.0 or above with 2.5 GPA in Business courses and a grade of "C-" or higher in all 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.
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)
or ENGL 2020 Intermediate Writing–Science and Technology 3.0
- MATH 1050 College Algebra 4.0
or An Advanced Placement (AP) Mathematics Test with a score of 3 or higher

Complete one of the following: 3.0
- HIST 2700 US History to 1877 (3.0)
and HIST 2710 US History since 1877 (3.0)
- HIST 1700 American Civilization (3.0)
- HIST 1740 US Economic History (3.0)
- POLS 1000 American Heritage (3.0)
- POLS 1100 American National Government (3.0)

Complete the following:
- PHIL 2050 Ethics and Values 3.0
or HLSY 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: 60 Credits

Business Foundation Courses:
- ACC 2010 Financial Accounting 3.0
- ACC 2020 Managerial Accounting 3.0
- DGM 2010 Business Computer Proficiency 3.0
or Business Computer Proficiency Exam**
- MATH 1100 Introduction to Calculus 4.0
- ECON 2020 Microeconomics 3.0
- ECON 2010 Macroeconomics 3.0
- MGMT 2000 Business Communications 3.0
- MGMT 2340 Business Statistics I 3.0

Business Core Courses:
- LEGL 3000 Business Law 3.0
- MGMT 3000 Organizational Behavior (3.0)
or MGMT 3010 Principles of Management * 3.0
- MGMT 3100 Principles of Finance 3.0
- MGMT 330G Survey of International Business 3.0
- MGMT 3450 Operations Management * 3.0
- MGMT 3600 Principles of Marketing 3.0
- MGMT 4830 Strategic Management 3.0
- MGMT 4830 Strategic Management Capstone Simulation 3.0
- MGMT 495R Executive Lecture Series 1.0
or MGMT 493R Entrepreneurship Lecture Series (1.0)

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

Elective Requirements: 24 Credits

Complete at least 9 credits from the following courses:
- ACC 4020 Advanced Financial Accounting (3.0)
or ACC 4030 Governmental and Not-For-Profit Accounting* (3.0)
or ACC 4110 Auditing* (3.0)
or ACC 4350 Management Control* (3.0)
or ACC 4400 Taxation of Corporations/Partnerships/Estates and Trusts (3.0)
or ACC 4420 Corporate Tax (3.0)
and ACC 4440 Partnership Tax (3.0)
or ACC 4510 Advanced Accounting Information Systems* (3.0)

Complete 15 hours of elective credits at any level—not more than 7 credit hours can be from the following prefixes: HM, CJ, LEGL, and/or MGMT, ECON. The only ACC course that may be counted toward this requirement is ACC 341R.

Graduation Requirements:
- Completion of a minimum of 120 semester credits; a minimum of 40 credits must be upper division.
- 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.
- 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.
- Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.
- Students completing a bachelor degree following the 2008 or later catalog must complete one course that meets the Global/Inter-cultural Requirement, indicated by a course number ending in G. For a complete listing, see page 25.

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.

Minor in Accounting 24 Credits

Matriculation Requirements:
- 1. 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 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)
- 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- in business courses.
- Completion of GE and specified departmental requirements.
NOTE: Students are responsible for completing all prerequisite courses.

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

BA/BS in Integrated Studies 123 Credits

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

Emphasis in Accounting 18 Credits

Emphasis Requirements: 18 Credits
- ACC 3010 Intermediate Accounting I 3.0
- ACC 3020 Intermediate Accounting II 3.0
- ACC 3300 Cost Management (3.0)
or ACC 3400 Individual Income Tax (3.0)
- ACC 3510 Accounting Information Systems (3.0)
or ACC 4110 Auditing (3.0)
or ACC 4400 Taxation of Corporations/Partnerships/Estates and Trusts (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:
- ACC, Accounting
Administrative Information Management

Department Chair: Rodayne Esmay
Office: CS 526C
Telephone: 801-863-7050

Faculty:
Professor
Cynthia Krebs
Assistant Professor
Jan Bentley

Administrative Support: Katrina Van Cott
Office: CS 526
Telephone: 801-863-6217

Advisor: Bonnie Cook
Telephone: 801-863-8403

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

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

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

Certificate in Administrative Support 30 CREDITS

Discipline Core Requirements 27 CREDITS
• DGM 1010 Basic Computer Applications 2.0
• DGM 2230 Exploring Digital Communication Tools 3.0
• DGM 2300 Records and Information300(30,322),(967,876)
• DGM 2350 Word Processing 3.0
• DGM 2370 Database Applications 3.0
• DGM 2380 Integrated Software Projects 3.0
• DGM 3820 Presentation Applications 3.0
• DGM 3850 Desktop Publishing Skills 3.0
• DGM 3890 Career Preparation 2.0

Elective Requirements: 15 CREDITS
Choose a minimum of 15 credits from the following:

• DGM 238R Seminar (1.0)
• DGM 3870 Web Graphics Applications (3.0)
• DGM 281R Internship (1.0)
• LEGL 3000 Business Law (3.0)
• MGMT 2390 Effective Business Presentations (3.0)
• MGMT 3000 Organizational Behavior (if not counted as Social Science credit) (3.0)
• MGMT 3430 Human Resource Management (3.0)
• Other pre-approved electives; see advisor for details

AAS in Administrative Information Support 64 CREDITS

General Education Requirements: 16 CREDITS
ENGLISH
• MGMT 2200 Business Communications 3.0
MATHEMATICS
• ACC 1150 Fundamentals of Business Math 3.0
• MAT 1010 Intermediate Algebra (4.0)
HUMANITIES/FINE ARTS/FOREIGN LANGUAGE
• ENGL 1010 Introduction to Writing 3.0
SOCIAL AND BEHAVIORAL SCIENCE
• ECON 2200 Macroeconomics 3.0
• MGMT 3000 Organizational Behavior (3.0)
• MGMT 3000 Organizational Behavior (3.0)
• PSY 1010 General Psychology 3.0
BIOLOGY OR PHYSICAL SCIENCE
• Any approved Biology or Physical Science Distribution

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

Discipline Core Requirements: 33 CREDITS
• DGM 1060 Introduction to Computer Security and Programming 3.0
• DGM 2120 Web Essentials 3.0
• DGM 2230 Exploring Digital Communication Tools (3.0)
• DGM 2350 Records and Information Management 3.0
• DGM 2350 Word Processing 3.0
• DGM 2380 Spreadsheet Applications 3.0
• DGM 2370 Database Applications 3.0
• DGM 2380 Integrated Software Projects 3.0
• DGM 3820 Presentation Applications 3.0
• DGM 3850 Desktop Publishing Skills 3.0
• DGM 3890 Career Preparation 2.0

Elective Requirements: 15 CREDITS
Choose a minimum of 15 credits from the following:

• DGM 238R Seminar (1.0)
• DGM 3870 Web Graphics Applications (3.0)
• DGM 281R Internship (1.0)
• LEGL 3000 Business Law (3.0)
• MGMT 2390 Effective Business Presentations (3.0)
• MGMT 3000 Organizational Behavior (if not counted as Social Science credit) (3.0)
• MGMT 3430 Human Resource Management (3.0)
• Other pre-approved electives; see advisor for details

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

Footnotes:
• Take near end of program

AS Pre Major in Administrative Information Management 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

Distribution Courses
• ECON 2020 Macroeconomics (satisfies Social/Behavioral Science) 3.0
• Sociology 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
• DGM 3850 Desktop Publishing Skills 3.0
• ACC 2010 Financial Accounting 3.0
or ACC 3000 Financial Managerial and Cost Accounting Concepts (4.0)
• MGMT 2210 Business Communications 3.0
or MGMT 2250 Job Application and Advancement Skills 1.0
• MGMT 3890 Career Preparation 2.0

Elective Requirements: 8 CREDITS
6 electives from the following:

• DGM 2360 Spreadsheet Applications 3.0
• DGM 2370 Database Applications 3.0
• DGM 3820 Presentation Applications 3.0
• ACC 2010 Financial Accounting 3.0
• MGMT 2210 Business Communications 3.0
or MGMT 2250 Job Application and Advancement Skills 1.0
• MGMT 3890 Career Preparation 2.0

Graduation Requirements:
1. Completion of a minimum of 63 semester credits.
2. Overall grade point average of 2.0 or above with a minimum 2.5 GPA in all discipline core and elective courses with no grade lower than a C-
3. Residency hours—minimum of 20 credit hours through 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 2120, DGM 2230, DGM 2300, DGM 3850, DGM 3870.
BA/BS in Integrated Studies  123 CREDITS

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

Emphasis in Office Management  19 Credits

Emphasis Requirements:
- DGM 2350 Word Processing (3.0)

Prerequisites (can fulfill elective requirements):
- 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 2230 Exploring Digital Communication Tools (3.0)
- DGM 4350 Information Workflow Management 3.0
- DGM 3220 Digital Media Project Management 3.0

Complete 8 or more credits from the following:
- ACC 3000 Financial Managerial and Cost Accounting Concepts (4.0)
- DGM 3870 Web Graphics Applications (3.0)
- LEGL 3000 Business Law (3.0)
- MGMT 2390 Effective Business Presentations (3.0)
- MGMT 3430 Human Resource Management (3.0)
- MGMT 3890 Career Preparation (2.0)

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

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

- BMED, Business/Marketing Education
- DGM, Digital Media
Apprenticeship

Director: Dale Olson
Office: GB 104
Telephone: 801-863-7964
E-mail: olsonda@uvsc.edu

Administrative Assistant: Deann Lamph
Office: GB 104
Telephone: 801-863-7950
E-mail: lamphde@uvsc.edu

The Apprenticeship Programs administrative offices are located in the Geneva Building, 1410 West 1250 South Business Park Dr., Orem, Utah

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

Utah Valley University, through the College of Technology and Computing, provides apprentices related theoretical instruction in structured classes.

Apprenticeship programs are composed of two parts: (1) on-the-job training and (2) classroom instruction. On-the-job training is provided by a sponsor who exposes the apprentice to practical applications in all phases of a particular craft. The classroom related instruction is an organized and systematic form of instruction designed to provide the apprentice with knowledge of the theoretical and technical aspects of his or her craft. Total completion of an apprenticeship program will take from two to five years, depending upon the craft.

The University neither provides on-the-job training nor acts as program sponsor for apprentices. Individuals must locate their own program sponsors.

New apprenticeship classes, with a minimum of 15 students, can be offered on request from the community, business, and industry. For additional information on apprenticeship classes, contact the Apprenticeship Office.

Apprentice classes cannot be taken for audit without departmental approval.

REGISTRATION REQUIREMENTS

New Apprentices:
1. Submit Application for Admission to College Admissions Office (check APPR as your declared major).
2. Complete new Student Assessment Test with scores as follows:
   - DPR Score of 61 or better
   - Numerical Skill Score of 39 or better
   - Compass Pre-Algebra Score of 41 or better (Electricians need an algebra score of 58 or better)
   or Complete the APPR 1300 Apprenticeship Math with a "C" grade or higher.
   or Complete college level mathematics class with a grade of C or better within the last three years.
   or Complete ACT test with a score of 19 or better in mathematics within the last three years.
3. Verify commitment to attend all class sessions, complete all homework assignments, complete all quizzes, and pass a comprehensive final examination for each class.
4. Commitment by the employer to allow class attendance.

The above will need to be completed by new apprentices before approval will be granted to register for any apprenticeship class. It is strongly advised that these matters are taken care of well in advance of the start of class.

If above requirements are met, contact the Apprenticeship office to schedule an appointment prior to registration.

PROGRAMS

Most apprenticeship programs may lead to an Associate in Applied Science Degree in the related area. A Bachelor of Science in Technology Management degree is available for most apprenticeship programs as well.

It is recommended that all students take the ACT, SAT or the COMPASS testing and meet minimum score requirements. It is required that all students seeking an AAS or BSTM degree complete one of the prescribed tests. Students who choose to earn an AAS or BSTM degree are required to complete their indentured apprenticeship programs. Electricians and plumbers are also required to demonstrate that they have passed the state of Utah Journeyman Exam. In addition to this, all students must complete applicable General Education classes.

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

AAS in Apprentice 64 Credits

General Education Requirements: 18 Credits

ENGLISH
- ENGL 1060 Career Writing for Technology (3.0)
- Any higher English course

MATHEMATICS
- MAT 1010 Intermediate Algebra (4.0)
- Any higher Mathematics Course
- Any approved Departmental Mathematics Course

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

SOCIAL AND BEHAVIORAL SCIENCE
- MGMT 3000 Organizational Behavior (3.0)
- Any approved Behavioral Science, Social, or Political Science Distribution Course

BIOLOGY OR PHYSICAL SCIENCE
- EGDT 1810 Principles of Technology (2.0)
- Any approved Biology or Physical Science Distribution Course

PHYSICAL EDUCATION/HEALTH/SAFETY OR ENVIRONMENT
- Any approved Physical Education, Health, Safety or Environment Course

Emphasis: Complete one of the following:

- Aircraft Mechanic
- Carpenter Union Apprentice (JATC)
- Diesel Mechanics Apprentice
- Electrical Construction Apprentice
- Electrical Union Apprentice (JATC)
- HVAC Apprentice
- Industrial Maintenance Apprentice
- Lineman Apprentice
- Lineman Meter Apprentice
- Lineman Substation Apprentice
- Plumber Apprentice
- Sheet Metal

Graduation Requirements:
1. Completion of a minimum of 64-66 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours -- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

Emphasis in Carpenter Union Apprentice (JATC) 48 Credits

Emphasis Requirements: 48 Credits

- APPR 1800 Carpenter Apprentice 1A 5.0
- APPR 1810 Carpenter Apprentice 1B 5.0
- APPR 1820 Carpenter Apprentice 2A 5.0
- APPR 1830 Carpenter Apprentice 2B 5.0
- APPR 1840 Carpenter Apprentice 3A 5.0
- APPR 1850 Carpenter Apprentice 3B 5.0
- APPR 1860 Carpenter Apprentice 4A 5.0
- APPR 1870 Carpenter Apprentice 4B 5.0
- BCCM 281R Cooperative Work Experience 7.0

Emphasis in Diesel Mechanics Apprentice 48.5 Credits

Emphasis Requirements: 48.5 Credits

- DMT 1010 Diesel Apprentice Electrical 1A 5.0
- DMT 1020 Diesel Apprentice Engine Overhaul 1B 5.0
- DMT 1030 Diesel Apprentice Governor Systems 2A 5.0
- DMT 1040 Diesel Apprentice Engine Controls 2B 5.0
- DMT 1050 Diesel Apprentice Engine Conditioning 2C 3.5
- DMT 1060 Diesel Apprentice Fluid Power 3A 5.0
- DMT 1070 Diesel Apprentice Power Transmission 3B 5.0
- DMT 1080 Diesel Apprentice Chassis 4A 5.0
- DMT 1090 Diesel Apprentice Power Trains 4B 5.0
- APPR 281R Cooperative Work Experience 7.0

- APPR 285R Cooperative Correlated Class 1.0

Emphasis in Electrical Union Apprentice (JATC) 48 Credits

Emphasis Requirements: 48 Credits

- DMT 1010 Diesel Apprentice Electrical 1A 5.0
- DMT 1020 Diesel Apprentice Engine Overhaul 1B 5.0
- DMT 1030 Diesel Apprentice Governor Systems 2A 5.0
- DMT 1040 Diesel Apprentice Engine Controls 2B 5.0
- DMT 1050 Diesel Apprentice Engine Conditioning 2C 3.5
- DMT 1060 Diesel Apprentice Fluid Power 3A 5.0
- DMT 1070 Diesel Apprentice Power Transmission 3B 5.0
- DMT 1080 Diesel Apprentice Chassis 4A 5.0
- DMT 1090 Diesel Apprentice Power Trains 4B 5.0
- APPR 281R Cooperative Work Experience 7.0

- APPR 285R Cooperative Correlated Class 1.0

NOTES: The Diesel Mechanic Technology program is a 4-year apprenticeship with formal course work offered by UBV Diesel Technology program (see Diesel Mechanics Technology for details on specific classes.) Diesel Apprentices need to be employed in a related occupation which offers on-the-job training on engines, automatic transmissions, drive trains, electrical systems, suspension and steering, hydraulics, and air systems. Such work may be on heavy equipment, farm equipment, and on-highway trucks. Apprentices receive formal training in all of the above, which prepares them to diagnose, repair, weld, and fine-tune the working parts of buses, trucks, construction machinery, and generators.

Please call the Apprentice office for details on class scheduling.
Emphasis in Electrical Construction Apprentice 48 Credits
Emphasis Requirements: 48 Credits
• EART 1100 Electrical Apprentice 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

NOTES: The Construction Electrician is a compulsory licensed craftsman who plans, lays out and installs, alters or repairs electrical wiring, fixtures, apparatus and controls. Educational suggestions for high school subjects include basic mathematics, geometry, algebra, physics, welding, wood shop, blueprint reading, and mechanical drawing.

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

The lineman apprentice courses are offered for lineman apprentices to complete the Federal Bureau of Apprenticeship and Training related instruction requirements. The lineman apprentice courses may substitute for a portion of the Lineman Technology program requirements for an AAS degree.

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

NOTE: The lineman substation apprentice courses are offered for lineman substation apprentices to complete the Federal Bureau of Apprenticeship and Training related instruction requirements.

Emphasis in Lineman Meter Apprentice 48 Credits
Emphasis Requirements: 48 Credits
• LINE 1600 Meter Apprentice 1A 6.0
• LINE 1610 Meter Apprentice 1B 6.0
• LINE 1620 Meter Apprentice 2A 6.0
• LINE 1630 Meter Apprentice 2B 6.0
• LINE 2600 Meter Apprentice 3A 6.0
• LINE 2610 Meter Apprentice 3B 6.0
• LINE 2620 Meter Apprentice 4A 6.0
• LINE 2630 Meter Apprentice 4B 6.0

NOTES: The Construction Electrician is a compulsory licensed craftsman who plans, lays out and installs, alters or repairs electrical wiring, fixtures, apparatus and controls. Educational suggestions for high school subjects include basic mathematics, geometry, algebra, physics, welding, wood shop, blueprint reading, and mechanical drawing.

Emphasis in HVAC Apprentice 48 Credits
Emphasis Requirements: 48 Credits
• APPR 1220 HVAC Apprentice 4B 5.0
• APPR 2210 HVAC Apprentice B 6.0
• EART 100 Electrical Apprentice 1A 5.0
• EART 120 Electrical Apprentice 2A 5.0
• EART 1210 Electrical Apprentice 2B 5.0
• EART 1220 Electrical Apprentice 3A 5.0
• EART 1230 Electrical Apprentice 3B 5.0
• EART 220 Electrical Apprentice B 6.0
• EART 2210 Electrical Apprentice A 6.0
• EART 2220 Electrical Apprentice 4A 5.0
• EART 2230 Electrical Apprentice 4B 5.0

Emphasis in Lineman Apprentice 48 Credits
Emphasis Requirements: 48 Credits
• APPR 1010 Lineman Apprentice 1A 6.0
• APPR 1020 Lineman Apprentice 1B 6.0
• APPR 1210 Sheet Metal Apprentice 2A 6.0
• APPR 1220 Sheet Metal Apprentice 2B 6.0
• APPR 2210 HVAC Apprentice 4A 5.0
• APPR 2220 HVAC Apprentice 4B 5.0

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

NOTES: The Construction Electrician is a compulsory licensed craftsman who plans, lays out and installs, alters or repairs electrical wiring, fixtures, apparatus and controls. Educational suggestions for high school subjects include basic mathematics, geometry, algebra, physics, welding, wood shop, blueprint reading, and mechanical drawing.

Emphasis in Sheet Metal 48 Credits
Emphasis Requirements: 48 Credits
• APPR 1110 Sheet Metal Apprentice 1A 6.0
• APPR 1120 Sheet Metal Apprentice 1B 6.0
• APPR 1210 Sheet Metal Apprentice 2A 6.0
• APPR 1220 Sheet Metal Apprentice 2B 6.0
• APPR 2210 HVAC Apprentice 4A 5.0
• APPR 2220 HVAC Apprentice 4B 5.0

Emphasis in HVAC Apprentice 48 Credits
Emphasis Requirements: 48 Credits
• ACRT 281R HVAC Apprentice 4A 6.0
• APPR 1220 HVAC Apprentice 4A 5.0
• APPR 2210 HVAC Apprentice 4B 5.0
• HVAC 1130 HVAC 1B 5.0
• HVAC 1150 HVAC 2B 5.0
• HVAC 2130 HVAC 3A 5.0
• HVAC 2200 HVAC 3B 5.0
• HVAC 2220 HVAC 4A 5.0
• HVAC 2230 HVAC 4B 5.0

Emphasis in Lineman Apprentice 48 Credits
Emphasis Requirements: 48 Credits
• LINE 1600 Line Apprentice 1A 6.0
• LINE 1610 Line Apprentice 1B 6.0
• LINE 1620 Line Apprentice 2A 6.0
• LINE 1630 Line Apprentice 2B 6.0
• LINE 2600 Line Apprentice 3A 6.0
• LINE 2610 Line Apprentice 3B 6.0
• LINE 2620 Line Apprentice 4A 6.0
• LINE 2630 Line Apprentice 4B 6.0

NOTE: The lineman apprentice courses are offered for lineman apprentices to complete the Federal Bureau of Apprenticeship and Training related instruction requirements. The lineman apprentice courses may substitute for a portion of the Lineman Technology program requirements for an AAS degree.

Emphasis in Sheet Metal 48 Credits
Emphasis Requirements: 48 Credits
• APPR 1110 Line Apprentice 1A 6.0
• APPR 1120 Line Apprentice 1B 6.0
• APPR 1210 Line Apprentice 2A 6.0
• APPR 1220 Line Apprentice 2B 6.0
• APPR 2210 HVAC Apprentice 4A 5.0
• APPR 2220 HVAC Apprentice 4B 5.0

Emphasis in HVAC Apprentice 48 Credits
Emphasis Requirements: 48 Credits
• ACRT 281R HVAC Apprentice 4A 6.0
• APPR 1220 HVAC Apprentice 4A 5.0
• APPR 2210 HVAC Apprentice 4B 5.0
• HVAC 1130 HVAC 1B 5.0
• HVAC 1150 HVAC 2B 5.0
• HVAC 2130 HVAC 3A 5.0
• HVAC 2200 HVAC 3B 5.0
• HVAC 2220 HVAC 4A 5.0
• HVAC 2230 HVAC 4B 5.0

Emphasis in HVAC Apprentice 48 Credits
Emphasis Requirements: 48 Credits
• ACRT 281R HVAC Apprentice 4A 6.0
• APPR 1220 HVAC Apprentice 4A 5.0
• APPR 2210 HVAC Apprentice 4B 5.0
• HVAC 1130 HVAC 1B 5.0
• HVAC 1150 HVAC 2B 5.0
• HVAC 2130 HVAC 3A 5.0
• HVAC 2200 HVAC 3B 5.0
• HVAC 2220 HVAC 4A 5.0
• HVAC 2230 HVAC 4B 5.0

Emphasis in HVAC Apprentice 48 Credits
Emphasis Requirements: 48 Credits
• ACRT 281R HVAC Apprentice 4A 6.0
• APPR 1220 HVAC Apprentice 4A 5.0
• APPR 2210 HVAC Apprentice 4B 5.0
• HVAC 1130 HVAC 1B 5.0
• HVAC 1150 HVAC 2B 5.0
• HVAC 2130 HVAC 3A 5.0
• HVAC 2200 HVAC 3B 5.0
• HVAC 2220 HVAC 4A 5.0
• HVAC 2230 HVAC 4B 5.0

Emphasis in HVAC Apprentice 48 Credits
Emphasis Requirements: 48 Credits
• ACRT 281R HVAC Apprentice 4A 6.0
• APPR 1220 HVAC Apprentice 4A 5.0
• APPR 2210 HVAC Apprentice 4B 5.0
• HVAC 1130 HVAC 1B 5.0
• HVAC 1150 HVAC 2B 5.0
• HVAC 2130 HVAC 3A 5.0
• HVAC 2200 HVAC 3B 5.0
• HVAC 2220 HVAC 4A 5.0
• HVAC 2230 HVAC 4B 5.0
Apprenticeship

- HVAC 1220 HVAC 2A 5.0
- HVAC 2220 HVAC 3A 5.0
- HVAC 2220 HVAC 4A 5.0

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 Industrial Maintenance Apprentice 48 Credits

Emphasis Requirements: 48 Credits

- APPR 281R Cooperative Work Experience (Must be repeated 4 times) 1.0
- APPR 285R Cooperative Correlated Class 1.0
- DMT 1400 Industrial Maintenance 1A 5.0
- DMT 1410 Industrial Maintenance 1B 5.0
- DMT 1430 Industrial Maintenance 2B 5.0
- EART 1010 Industrial Maintenance 2A 5.0

Complete 10 credits from the following:

- DMT 1440 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:

- EART 1020 Industrial Maintenance 4A 5.0
- HVAC 1110 Industrial Maintenance 4D 5.0
- WELD 1310 Industrial Maintenance 4B 5.0
- WELD 1320 Industrial Maintenance 4C 5.0

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 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

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 Sheet Metal Apprentice 48 Credits

Emphasis Requirements: 48 Credits

- LINE 1600 Meter Apprentice 1A 6.0
- LINE 1610 Meter Apprentice 1B 6.0
- LINE 1620 Meter Apprentice 2A 6.0
- LINE 1630 Meter Apprentice 2B 6.0
- LINE 2600 Meter Apprentice 3A 6.0
- LINE 2610 Meter Apprentice 3B 6.0
- LINE 2620 Meter Apprentice 4A 6.0
- LINE 2630 Meter Apprentice 4B 6.0

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

- APPR, Apprenticeship
- AUT, Automotive Technology
- AV/SC, Aviation Science
- DMT, Diesel Mechanics Technology
- EART, Electrical Automation and Robotics
- HVAC, Heating, Ventilation, Air Conditioning
- LINE, Lineman Technology
- MET, Manufacturing Engineering Technology
- MTT, Machine Tool Technology
- WELD, Welding Technology
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
Six options are available: a One-year Certificate, the Associate In Applied Science Degree, the Associate in Science or Arts Degree, the Bachelor of Science or Arts Degree, the Bachelor of Fine Arts Degree, and the Bachelor of Science in Technology Management Degree.

Bachelor of Fine Arts (BFA) Requirements:
In order to apply to the BFA, students must first meet the requirements of the AS or AA degree in the Art and Visual Communications Department and submit a portfolio for the annual BFA review held in March. If the student has an AA or AS degree in an area of study other than art, the student will need to complete the 27 credits of the AVC core classes that have not already been completed before applying to the BFA. Students are accepted into the BFA 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 Advisor.

BFA Requirements for Transfer Students:
Transfer students can apply to the BFA if they have an AA, AS, BA, or BS art degree from another school. If the student is transferring without a degree, the student must complete the remaining requirements for the AA or AS in the Art and Visual Communications Department before applying to the BFA. For additional requirements, please refer to the Bachelor of Fine Arts Requirements.

BFA Requirements for Students with an AAS Degree:
Students who have received an AAS degree from the Art and Visual Communications Department will be placed in the AA or AS degree in the Art & Visual Communications Department to complete the remaining General Education requirements before applying to the BFA. Students with an AAS degree in a field other than art must finish the remaining requirements of the AA or AS in the Art and Visual Communications Department before applying to the BFA. For additional requirements, please refer to the Bachelor of Fine Arts Requirements.

Certificate in Art and Visual Communications

Graduation 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
• ARTH 2710 History of Art to the Renaissance (3.0)

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

AAS in Art and Visual Communications

General Education Requirements: 16 Credits
• ENGL 1010 Introduction to Writing 3.0
• MAT 1010 Intermediate Algebra∗ (4.0)
• or ACC 1550 Fundamentals of Business Math∗ 3.0
• Social or Behavioral Science 3.0
• Biology or Physical Science 3.0
• P.E. or Health 1.0
• ARTH 2710 History of Art to the Renaissance (3.0)

Discipline Core Requirements: 15 Credits
• ART 1100 2D Design 3.0
• ART 1400 Graphic Computer Applications 3.0
• ART 1110 Drawing I 3.0
• ART 1050 Photography I 3.0
• ART 1150 3D Design 3.0

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

Graduation Requirements:
1. Completion of a minimum of 64 semester credits.
2. Overall grade point average of 2.0 (G) 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:
∗ See AVC advisor

Emphasis in Design/Illustration 33 Credits

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 3210 Illustration I (3.0)
• ART 3220 Illustration II (3.0)
• ART 361R Figure Drawing I (3.0)
• ART 3290 Rendering the Human Head (3.0)

Emphasis in Graphic Design 33 Credits

Elective Requirements: 21 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 1430 Digital Prepress 3.0
• ART 1410 Typography and Layout I 3.0
• ART 2410 Typography and Layout II 3.0

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Art and Visual Communications

- ART 2430 Graphic Design I 3.0
- ART 2450 Digital Imaging 3.0
- ART 2590 Portfolio 1.0
- ART 200R Art and Visual Communications 2.0
- ART 2460 Interactive Design I 3.0

Emphasis Elective Requirements: 12 Credits

Complete 12 credits of any ART/ARTH courses not previously used. Students are STRONGLY ADVISED to fulfill all 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 3.0
- ART 2710 Alternative Photography I 3.0
- ART 2720 Color Photography 3.0
- ART 2750 Photography II 3.0
- ART 2730 Photographic Lighting 3.0
- ART 2790 The History of Photography 3.0
- ART 200R Art and Visual Communications 2.0
- ART 2590 Portfolio 1.0

Emphasis Elective Requirements: 12 Credits

Complete 12 credits of any ART/ARTH courses not previously used. Students are STRONGLY ADVISED to fulfill all of this requirement with the following courses:
- ART 1410 Typography and Layout (1.0)
- ART 2460 Interactive Design I (3.0)
- ART 3750 Digital Imaging II (3.0)
- ART 471R Photographic Illustration (3.0)

AA Pre Major in Art and Visual Communications 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 (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)
- 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
- ARTH 2710 History of Art to the Renaissance 3.0
- Social/Behavioral Science 3.0

Discipline Core Requirements: 15 Credits

- ART 1120 2D Design (3.0)
- ART 1400 Graphic Computer Applications 3.0
- ART 1110 Drawing I 3.0
- or ART 1050 Photography I (3.0)
- ARTH 2720 History of Art from the Renaissance 3.0
- ART 1130 3 D Design 3.0

Elective Requirements: 10 Credits

Complete 10 credits of the same Foreign Language

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 30 credit hours through course attendance at UVU, with at least 10 hours in the last 45 days.
4. Completion of GE and specified departmental requirements.

AS Pre Major in Art and Visual Communications 62 Credits

General Education Requirements: 35 Credits

- ENGL 1010 Introduction to Writing 3.0
- ENGL 2010 Intermediate Writing--Humanities/ Social Sciences 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)
- 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)

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 10 hours of credit from work on one language.

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
- ARTH 2720 History of Art from the Renaissance 3.0
- ART 1130 3 D Design 3.0
- ART 4890 Senior Seminar 3.0
- ART 4991 BFA Project 3.0
- ART 200R Art and Visual Communications 3.0

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

Elective Requirements: 24 Credits

- One Foreign Language 15.0
- Complete any courses 1000 level or higher 9.0

Graduation Requirements:
1. Completion of a minimum of 122 semester credits.
2. Overall grade point average of 2.0 (C) or above.
3. Residency hours--minimum of 30 credit hours through course attendance at UVU, with at least 10 hours in the last 45 days.
4. Completion of GE and specified departmental requirements.
5. For the BA degree, completion of 18 credit hours of course work from one language to include the 1010, 2010, 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.

BS in Art and Visual Communications 122 Credits

General Education Requirements: 35 Credits

- ENGL 1010 Introduction to Writing 3.0
- ENGL 2010 Intermediate Writing--Humanities/ Social Sciences 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 2710 US History since 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
- ARTH 2710 History of Art to 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 1050 Photography I 3.0
- ARTH 2720 History of Art from the Renaissance 3.0
- ART 1130 3 D Design 3.0
- ART 4890 Senior Seminar 3.0
- ART 4990 Senior Studio 3.0
- ART 200R Art and Visual Communications 3.0

Lectures (1.0)
BFA in Art and Visual Communications 125 Credits

Manuscript 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 (.0)
- ENGL 2010 Intermediate Writing—Humanities/ Social Sciences (.0)
- ENGL 2020 Intermediate Writing—Science and Technology (.0)

Complete one of the following:

- MATH 1030 Quantitative Reasoning (recommended for Humanities or Arts majors) (.3)
- MATH 1040 Introduction to Statistics (recommended for Social Science majors) (.3)
- MATH 1050 College Algebra (recommended for Business, Education, Science, and Social/Behavioral Science majors) (.3)

Complete one of the following:

- HIST 2700 US History to 1877 (.3)
- HIST 2710 US History since 1877 (.3)
- HIST 1700 American Civilization (.3)
- HIST 1740 US Economic History (.3)
- POLS 1000 American Heritage (.3)
- POLS 1100 American National Government (.3)

Complete the following:

- PHIL 2050 Ethics and Values (.3)
- HLTH 1100 Personal Health and Wellness (2.0)
- ES 1097 Fitness for Life (2.0)

Distribution Courses

- Biology (.3)
- Physical Science (.3)
- Additional Biology or Physical Science (.3)
- Humanities Distribution (.3)
- ARTH 2710 History of Art to the Renaissance (.3)

Discipline Core Requirements: 18 Credits

- ART 1120 2D Design (.3)
- ART 1400 Graphic Computer Applications (.3)
- ART 1110 Drawing (.3)
- ART 1050 Photography I (.3)
- ARTH 2720 History of Art from the Renaissance (.3)
- ART 1130 3 D Design (.3)

Emphasis

Complete one of the following:

- Fine Arts (.6)
- Graphic Design (.6)
- Illustration (.6)
- Photography (.6)

Elective Requirements: 9 Credits

- Complete any ART/ARTH courses not already used (.9)

Graduation Requirements:

1. Completion of a minimum of 122 semester credits.
2. Overall grade point average of 2.0 (C) or above.
3. Residency hours—minimum of 30 credits 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 listathing, see page 25.

Emphasis in Fine Arts 63 Credits

Emphasis Requirements: 21 Credits

- ART 1340 Sculpture I (.3)
- ART 1350 Ceramics I (.3)
- ART 1650 Woodworking I (.3)
- ART 2110 Drawing II (.3)
- ART 2350 Ceramics II (.3)
- ART 2340 Sculpture II (.3)
- ART 2640 Painting II (.3)
- ART 2650 Watermedia II (.3)
- ART 2630 Painting I (.3)
- ART 209R Art Visual Communications Lec (3.0)

Emphasis Elective Requirements: 42 Credits

Choose 1 of the following 3 Options. Each Option is 42-45 credits.

Option 1: Digital
- ART 1410 Typography and Layout I (.3)
- ART 2750 Digital Storyboarding (.3)
- ART 3470 Digital Painting (.3)
- ART 443R Special Topics in Graphic Design (.3)
- ART 446R Advanced Interactive Design (.3)
- ART 448R Advanced Graphic Design Studio (.3)
- ART 4980 Senior Seminar (.3)
- ART 4990 Senior Studio (.3)
- ART 4991 BFA Project (.3)
- ARTH 3010 History of Design and Visual Arts (.3)
- or ARTH 3070 Twentieth Century Art and Architectural History (.3)

Option 2: Animation
- ART 1410 Typography and Layout I (.3)
- ART 2750 Digital Storyboarding (.3)
- ART 3470 Digital Painting (.3)
- ART 443R Special Topics in Graphic Design (.3)
- ART 446R Advanced Interactive Design (.3)
- ART 448R Advanced Graphic Design Studio (.3)
- ART 4980 Senior Seminar (.3)
- ART 4990 Senior Studio (.3)
- ART 4991 BFA Project (.3)
- ARTH 3010 History of Design and Visual Arts (.3)
- or ARTH 3070 Twentieth Century Art and Architectural History (.3)
- ART 371R Alternative Photography II (Must be repeated once for credit)
- ART 3750 Digital Imaging II (.3)

Emphasis in Illustration 63 Credits

Emphasis Requirements: 21 Credits

- ART 3010 History of Design and Visual Arts (.3)
- or ARTH 3070 Twentieth Century Art and Architectural History (.3)
- ART 2210 Drawing for Illustration (.3)
- ART 2230 Illustrative Media and Techniques I (.3)
- ART 2240 Illustrative Media and Techniques II (.3)
- ART 2460 Interactive Design I (.3)
- ART 361R Figure Drawing I (.3)
- ART 209R Art and Visual Communications Lec (3.0)
Art and Visual Communications

- **ART 474R** Advanced Photo Studies (Must be repeated twice for credit) 9.0
- **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) 6.0
- **ART/ARTH Upper Division Electives** 6.0

**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

<table>
<thead>
<tr>
<th>Specialty Requirements:</th>
<th>45 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ART 1120</strong> 2D Design</td>
<td>3.0</td>
</tr>
<tr>
<td><strong>ART 1400</strong> Graphic Computer Applications</td>
<td>3.0</td>
</tr>
<tr>
<td><strong>ART 1000</strong> Color Theory</td>
<td>3.0</td>
</tr>
<tr>
<td>Complete an additional 36 credits from the AVC courses.</td>
<td>36.0</td>
</tr>
</tbody>
</table>

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
Automotive Technology

Program Coordinator: Paul Bean
Office: SA 320
Telephone: 801-863-8243 or 801-863-8349

Faculty:
Associate Professor
Paul Bean
Robert Campbell
Todd Low

Assistant Professor
Kelvyn Blackhurst
Kent Walker

Advisor: Carrie Peterson
Office: CS 635
Telephone: 801-863-7454

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

Advisory Committee: Gil Gonzales, MPG; John Pagnielli, MPG; Dave Johnson, DJ Auto; David Read, Saturn of Orem; Mel Ferguson, LKQ.

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

CAREER OPPORTUNITIES
Recognizing that a successful career in automotive technology involves much more than mechanical ability to replace parts, Utah Valley University has designed this curriculum for the individual who has ability and aptitude to become a skilled automotive technician. Opportunities are available for specialists in: general automotive repair, front end, tune-up, cooling system and air conditioning, brakes, laser wheel alignment, engine rebuilding, automatic and standard transmissions, computerized electronic ignition and fuel injection, and emission controls. Training for service advisors, shop foreman, and shop managers is also provided.

PROGRAMS
Four options are available: One-Year Certificate, Diploma, Associate in Applied Science Degree, 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 31 Credits

<table>
<thead>
<tr>
<th>Discipline Core Requirements: 31 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>• AUT 1110 Brake Systems 2.0</td>
</tr>
<tr>
<td>• AUT 111L Brake Systems Lab 1.0</td>
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<tr>
<td>• AUT 1120 Manual Power Trains 2.0</td>
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<tr>
<td>• AUT 112L Manual Power Trains Lab 1.0</td>
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<tr>
<td>• AUT 1130 Engine Repair 2.0</td>
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<tr>
<td>• AUT 113L Engine Repair Lab 1.0</td>
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<tr>
<td>• AUT 1160 Automotive Electrical Systems 2.0</td>
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<tr>
<td>• AUT 116L Automotive Electrical Systems Lab 1.0</td>
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<tr>
<td>• AUT 1170 Engine Electrical Systems 2.0</td>
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<tr>
<td>• AUT 117L Engine Electrical Systems Lab 1.0</td>
</tr>
<tr>
<td>• AUT 1210 Suspension and Steering Systems 2.0</td>
</tr>
<tr>
<td>• AUT 121L Suspension and Steering Systems Lab 1.0</td>
</tr>
<tr>
<td>• AUT 1220 Automatic Transmissions and Transaxles 2.0</td>
</tr>
<tr>
<td>• AUT 122L Automatic Transmissions and Transaxles Lab 1.0</td>
</tr>
<tr>
<td>• AUT 1230 Engine Performance 2.0</td>
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<tr>
<td>• AUT 123L Engine Performance Lab 1.0</td>
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<tr>
<td>• AUT 1260 Tech Math for Mechanics 3.0</td>
</tr>
<tr>
<td>• ENGL 106A Career Writing for Technology-A 2.0</td>
</tr>
<tr>
<td>• Any approved Behavioral Science, Social, or Political Science Distribution course 2.0</td>
</tr>
</tbody>
</table>

Graduation Requirements:
1. Completion of a minimum of 31 semester credits
2. Overall grade point average of 2.0 (C) or above.
3. Completion of specified departmental requirements

Diploma in Automotive Technology 55 Credits

<table>
<thead>
<tr>
<th>Discipline Core Requirements: 55 Credits</th>
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</thead>
<tbody>
<tr>
<td>• AUT 1110 Brake Systems 2.0</td>
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<tr>
<td>• AUT 111L Brake Systems Lab 1.0</td>
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<tr>
<td>• AUT 1120 Manual Power Trains 2.0</td>
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<tr>
<td>• AUT 112L Manual Power Trains Lab 1.0</td>
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<tr>
<td>• AUT 1130 Engine Repair 2.0</td>
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<tr>
<td>• AUT 113L Engine Repair Lab 1.0</td>
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<tr>
<td>• AUT 1160 Automotive Electrical Systems 2.0</td>
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<tr>
<td>• AUT 116L Automotive Electrical Systems Lab 1.0</td>
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<td>• AUT 117L Engine Electrical Systems Lab 1.0</td>
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<tr>
<td>• AUT 1210 Suspension and Steering Systems 2.0</td>
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<td>• AUT 121L Suspension and Steering Systems Lab 1.0</td>
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<td>• AUT 1220 Automatic Transmissions and Transaxles 2.0</td>
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<td>• AUT 122L Automatic Transmissions and Transaxles Lab 1.0</td>
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<td>• AUT 1230 Engine Performance 2.0</td>
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<td>• AUT 123L Engine Performance Lab 1.0</td>
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<tr>
<td>• AUT 2110 Advanced Steering Suspension and Alignment 2.0</td>
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<tr>
<td>• AUT 2120 Advanced Engine Performance 2.0</td>
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<tr>
<td>• AUT 2130 Advanced Emission Control Systems 2.0</td>
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<tr>
<td>• AUT 2140 Chassis Electrical and Electronics Systems 2.0</td>
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<tr>
<td>• AUT 2210 Advanced Braking and Control Systems 2.0</td>
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<td>• AUT 2220 Automatic Transmissions and Electronic Controls 2.0</td>
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<tr>
<td>• AUT 2240 Automotive HVACR 2.0</td>
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<tr>
<td>• AUT 2350 Electronic Fuel Management Systems 2.0</td>
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<tr>
<td>• AUT 2350 Electronic Diesel Fuel Management Systems 2.0</td>
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<tr>
<td>• ENGL 106A Career Writing for Technology-A 2.0</td>
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<tr>
<td>• Any approved Behavioral Science, Social, or Political Science Distribution course 2.0</td>
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<tr>
<td>• AUT 1260 Tech Math for Mechanics 3.0</td>
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</table>

AAS in Automotive Technology 64 Credits

<table>
<thead>
<tr>
<th>General Education Requirements: 16 Credits</th>
</tr>
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<tbody>
<tr>
<td>• ENGL 1060 Career Writing for Technology 3.0</td>
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<tr>
<td>• AUT 1240 Automotive Electrical Systems 2.0</td>
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<thead>
<tr>
<th>Graduation Requirements: 48 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>• AUT 1110 Brake Systems 2.0</td>
</tr>
<tr>
<td>• AUT 111L Brake Systems Lab 1.0</td>
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<tr>
<td>• AUT 1120 Manual Power Trains 2.0</td>
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<tr>
<td>• AUT 112L Manual Power Trains Lab 1.0</td>
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<tr>
<td>• AUT 1130 Engine Repair 2.0</td>
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<tr>
<td>• AUT 113L Engine Repair Lab 1.0</td>
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<tr>
<td>• AUT 1160 Automotive Electrical Systems 2.0</td>
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<tr>
<td>• AUT 116L Automotive Electrical Systems Lab 1.0</td>
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<tr>
<td>• AUT 1170 Engine Electrical Systems 2.0</td>
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<tr>
<td>• AUT 117L Engine Electrical Systems Lab 1.0</td>
</tr>
<tr>
<td>• AUT 1210 Suspension and Steering Systems 2.0</td>
</tr>
<tr>
<td>• AUT 121L Suspension and Steering Systems Lab 1.0</td>
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<tr>
<td>• AUT 1220 Automatic Transmissions and Transaxles 2.0</td>
</tr>
<tr>
<td>• AUT 122L Automatic Transmissions and Transaxles Lab 1.0</td>
</tr>
<tr>
<td>• AUT 1230 Engine Performance 2.0</td>
</tr>
<tr>
<td>• AUT 123L Engine Performance Lab 1.0</td>
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<tr>
<td>• AUT 2110 Advanced Steering Suspension and Alignment 2.0</td>
</tr>
<tr>
<td>• AUT 2120 Advanced Engine Performance 2.0</td>
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<tr>
<td>• AUT 2130 Advanced Emission Control Systems 2.0</td>
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<tr>
<td>• AUT 2140 Chassis Electrical and Electronics Systems 2.0</td>
</tr>
<tr>
<td>• AUT 2210 Advanced Braking and Control Systems 2.0</td>
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<tr>
<td>• AUT 2220 Automatic Transmissions and Electronic Controls 2.0</td>
</tr>
<tr>
<td>• AUT 2240 Automotive HVACR 2.0</td>
</tr>
<tr>
<td>• AUT 2350 Electronic Fuel Management Systems 2.0</td>
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<tr>
<td>• AUT 2350 Electronic Diesel Fuel Management Systems 2.0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Diploma Core Requirements: 2 Overall grade point average of 2.0 (C) or above.</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Any approved Behavioral Science, Social, or Political Science Distribution course 2.0</td>
</tr>
<tr>
<td>• AUT 1260 Tech Math for Mechanics 3.0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Credit Requirements: Complete 8 credits from the following:</th>
</tr>
</thead>
<tbody>
<tr>
<td>• AUT 201L Automotive Service Practicum 8.0</td>
</tr>
<tr>
<td>• AUT 202L Automotive Service Practicum 2.0</td>
</tr>
<tr>
<td>• AUT 203L Automotive Service Practicum 2.0</td>
</tr>
<tr>
<td>• AUT 204L Automotive Service Practicum 2.0</td>
</tr>
<tr>
<td>• AUT 281R Cooperative Work Experience (1.0)</td>
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</tbody>
</table>
Automotive Technology

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 2050 Ethics and Values 3.0
- HLTH 1100 Personal Health and Wellness (2.0)
or PES 1097 Fitness for Life 2.0
Distribution Courses
- Biology 3.0
- Physical Science 3.0
- Additional Biology or Physical Science 3.0
- Humanities Distribution 3.0
- Fine Arts Distribution 3.0
- Social/Behavioral Science 3.0

Discipline Core Requirements: 16 Credits
• Choose from AUT or related 1000 level of higher courses.

Elective Requirements: 9 Credits
• Choose electives from 1000 level or higher courses.

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 Automotive HVAC Systems 2.0
• AUT 2250 Electronic Fuel Management Systems 2.0
or AUT 2350 Electronic Diesel Fuel Management Systems 2.0

Complete 5 credits from the following:
• AUT 201L Automotive Service Practicum Engine Performance and Steering Suspension (2.0)
• AUT 202L Automotive Service Practicum 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 HVAC (2.5)
• AUT 281R Cooperative Work Experience (1.0)

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 the aggressive student with automotive engine experience wanting additional learning of increased horsepower or for the street rod enthusiast.
• AUT 2410 High Performance Engine Class 3.0

See Course Descriptions section of the catalog for detailed course information. This department manages the following course prefixes:
- AUT, Automotive Technology
- CRT, Collision Repair Technology
- DMT, Diesel Mechanics Technology
Aviation Science

Department Chair: Larry Marsing
Telephone: 801-863-7810 or 801-863-8165
Office: Provo Municipal Airport and UVU Campus

Associate Department Chair for Academics:
Larry Marsing (Acting)
Telephone: 801-863-7810
Office: Provo Municipal Airport

Associate Department Chair for Flight Training:
Rick Vincent, Assistant Professor and Chief Pilot
Telephone: 801-863-7755
Office: Provo Municipal Airport

Associate Department Chair for Academic Support:
Rich Crandall, Flight/Ground Instructor
Telephone: 801-863-7784 or 801-863-7777
Office: Provo Municipal Airport

Assistant Department Chair for Online Services:
Ryan Tanner
Telephone: 801-863-7840

Assistant Department Chair for Student Support:
Claire Downing
Telephone: 801-863-7816

Faculty:
Associate Professor
Steve Smith, Chief Pilot
Telephone: 801-863-7791

Assistant Professor
Mavis Green
Telephone: 801-863-7862
Rick Vincent
Telephone: 801-863-7755
Brice Williams
Telephone: 801-863-7818

Visiting Assistant Professor
James Green
Telephone: 801-863-7819

Lecturer
Todd Deshler
Telephone: 801-863-7756
Dustin Berlin
Telephone: 801-863-7870

Chief Flight Instructors:
Brian Bastin
Telephone: 801-863-7864
Michelle Koerner
Telephone: 801-863-7854
Marilyn Riddle
Telephone: 801-863-7852
Nathan Skene
Telephone: 801-863-7853

Academic Support:
Office Manager/Advisor Flight Training:
Liz Butler
Telephone: 801-863-7836
Gloria Schneider
Telephone: 801-863-7851

Financial Aid (Aviation):
Telephone: 801-863-7860 or 877-336-8872

Flight Dispatch:
Telephone: 801-863-7777

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

Advisory Committee: Chair, Captain James Healy, SkyWest Airlines; Captain Gary Lynn, Continental Airlines; Captain George Semak, Express Jet; Captain Michael Anderson, Federal Express; Scott Hansen, American Eagle; Dr. Lee Suizdinski, Experimental Aircraft Association; Dr. Sherwood Williams, CAVU Aviation

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

FLIGHT PREREQUISITE
An aviation placement exam and oral interview with an aviation advisor is required. A class II or a class III Medical/Student Certificate with an FAA designated Medical Examiner is required. These items must be completed prior to entering the flight phase of the program so that student qualifications and special needs can be determined.

CAREER OPPORTUNITIES
Professional Pilot: Currently there is a record demand for college-trained professional pilots for commuter, regional and major air carrier employment. This demand should continue through 2015. 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, University 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/eight-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 a major airline after obtaining adequate flight hours and experience. Graduates are also qualified 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 the commercial certificate.

Aviation Administration: The Aviation Administration Degree will develop practical management skills for students 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 Aviation Professional Pilot, or Bachelor of Science in 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.
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) or any other Humanities (3.0)
• POLS 1010 American Heritage (3.0) or HIST 1700 American Civilization (3.0) or any other Social Science
• Any approved Biology or Physical Science Course (3.0)
• Distribution Course
  • HLT 1100 Personal Health and Wellness (recommended) (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 1210 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 2150 Air Transportation Management (3.0)
• AVSC 2160 Aviation Law (3.0)
• AVSC 2230 Ground Commercial—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)
• ENGL 421R Cooperative Work Experience (1.0)
• AVSC 285R Cooperative Related (1.0)
• Complete one of the following sets of courses: (9.0)
  • Certified Flight Instructor
    • AVSC 2330 Theory of Instruction (1.0)
    • AVSC 2400 Ground Certified Flight Instructor (3.0)
  • Flight Instructor (1.0)
    • AVSC 2410 Flight Certified Flight Instructor (1.0)
    • AVSC 2420 Ground CFI Instrument (1.0)
    • AVSC 2431 Flight CFI Instrument (1.0)
    • AVSC 2500 Ground Multi-Engine Instructor (1.0)
    • AVSC 2510 Flight Multi-Engine Instructor (1.0)
  • First Officer
    • AVSC 3330 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
    • AVSC 3020 Aviation risk and Insurance Management (3.0)
    • AVSC 3100 Corporate Aviation Manage- ment (3.0)
    • AVSC 3120 Airport Management (3.0)
    • AVSC 3140 Fixed Base Operations Management (3.0)
  • Air Traffic Control
    • AVSC 3303 Air Traffic Control (3.0)
    • AVSC 3304 Air Traffic Control II (3.0)
    • AVSC 3600 Crew Resource Management/Human Factors (3.0)
  • Graduation Requirements:
    1. Completion of a minimum of 66 or more semester credits.
    2. Overall grade point average of 2.0 (C) or above required for all aviation major classes.
    3. Residency hours—minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.
5. Completion of Commercial Pilot Certificate.
6. Student must have at least 4 credit hours of total cooperative work experience (AVSC 281/285R) toward the degree requirements without department approval.

AS Pre Major in Aviation Science 66 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 Statics (recommended for Social Science majors) (3.0)
  • MATH 1050 College Algebra (recommended for Business, Education, Science, and Health Professions majors) (4.0)

BS in Aviation 120 CREDITS

Emphasis Requirements: 120 Credits
1. Medical Requirement: Class I FAA medical exam.
2. Completion of 25 aviation credits and a 2.5 GPA.

General Education Requirements: 35 Credits
• ENGL 1010 Introduction to Writing (3.0)
• ENGL 2020 Intermediate Writing—Science and Technology (3.0)
• Complete one of the following: (3.0)
  • MATH 1030 Quantitative Reasoning (recommended for Humanities or Arts majors) (3.0)
  • MATH 1040 Introduction to Statics (recommended for Social Science majors) (3.0)
  • MATH 1050 College Algebra (recommended for Business, Education, Science, and Health Professions majors) (4.0)

Discipline Core Requirements: 28 Credits
• AVSC 1010 Survey of Aviation Science (2.0)
• AVSC 1100 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 Flight Instrument Pilot Rating (2.0)
• AVSC 2860 SkillsUSA (1.0)
• 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
    • Biology (3.0)
    • Physical Science (PHYS 1010 recommended) (3.0)
    • Additional Biology or Physical Science (METO 1010 recommended) (3.0)
    • Humanities Distribution (COMM 1020 recommended) (3.0)
  • Fine Arts Distribution (3.0)
  • Social/Behavioral Science (PSY 1010 recommended) (3.0)

Emphasis Requirements: 38 Credits
• 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 Aviation 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 Flight Private Pilot Certification (4.0)
  • AVSC 1250 Flight Instrument Pilot Rating (2.0)
  • AVSC 2200 Aviation Marketing (3.0)
  • AVSC 2310 Flight Commercial Pilot—Phase II (2.0)
  • AVSC 2330 Theory of Instruction (1.0)

NOTE: If student chooses HIST 2700 and 2710, the additional hours may be used towards a social science distribution requirement.
• 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 3460 High Altitude Navigation/International Flight Operations 3.0
- AVSC 3530 Advanced Aerodynamics 3.0
- AVSC 3300 Jet Transport Systems 3.0

**Emphasis Elective Requirements:** 18 Credits

- Must complete 19 credits from the following 18.0
  - 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 1200 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 3020 Aviation Insurance and Risk Management (3.0)
  - AVSC 3040 Air Traffic Control II (3.0)
  - AVSC 3100 Corporate Aviation Management (3.0)
  - AVSC 3120 Aircraft Dispatcher (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 Airline Transport Pilot Aircraft Dispatcher (3.0)
  - AVSC 4310 Flight Airline 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)

**Elective Requirements:** 12 Credits

- Must complete 12 credits from the following: 12.0
  - AVSC 1020 Aircraft Identification (2.0)
  - AVSC 2500 Ground Multi-Engine Instructor (1.0)
  - 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 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:**

- Students should take no more than 4 credit hours of aviation co-op (AVSC 281R/285R/481R/485R) toward the aviation elective section of the Technology Management degree.

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

- AVSC, Aviation Science

**BS in Technology Management 125 Credits**

The following Technical Area is available (see the Technology Management section of this catalog for complete degree requirement listings.)

**Specialization in Aviation Science 45 Credits**

**Emphasis Requirements:** 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 2500 Air Transportation Management 3.0
- AVSC 2610 Aviation Law 3.0
- AVSC 2830 Ground Commercial Pilot--Phase II 3.0
- AVSC 2840 Flight Commercial Pilot--Phase II 3.0
- AVSC 2440 Ground Multi-Engine 1.0
- AVSC 2450 Flight Multi-Engine 1.0
CAREER OPPORTUNITIES
Courses in these areas of study lead to possible careers in mental health, counseling, family services, education, law enforcement, research, marketing, human resources, management, rehabilitation, anthropology, psychology, sociology, social work, and other human services.

PROGRAMS
Please see the appropriate department advisor for an explanation of all program requirements, a list of recommended classes, and for assistance with creating an academic plan for graduation.

AA/AS Pre major in Behavioral Science

General Education Requirements: 61 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)
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)
- PSY 1010 General Psychology (Social/ Behavioral Science) (3.0)
Disability Core Requirements: 14 Credits
Complete two of the following: (6.0)
- ANTH 101G Social/Cultural Anthropology (3.0)
- SOC 1010 Introduction to Sociology (3.0)
- SW 1010 Introduction to Social Work and Social Welfare (3.0)
Complete 3 courses of approved Behavioral Science electives. Please see Behavioral Science advisor for a list of approved electives.
E elective Requirements: 12 Credits
- FOR AS DEGREE: Any 1000-level course or higher (12.0)
- or FOR AA DEGREE: Any 1000-level course or higher (2.0)
and Same Foreign Language (10.0)
Graduation Requirements:
1. Completion of a minimum of 61 semester credits.
2. Overall grade point average of 2.0 (C) or above.
3. Residency hours—minimum of 20 credit hours through course attendance at UVU.
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 AA degree, completion of 10 credit hours of course work from one language.

BA in Behavioral Science 126 CREDITS

Matriculation Requirements:
1. Must have a minimum overall 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 credits of Behavioral Science courses. If a student has completed 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)
- POLS 1000 American Heritage (3.0)
- HIST 2700 US History to 1877 (3.0)
and HIST 2710 US History since 1877 (3.0)
- HIST 1700 American Civilization (3.0)
- HIST 1740 US Economic History (3.0)
- POLS 1100 American National Government (3.0)
Complete the following:
- PHIL 2050 Ethics and Values* (3.0)
- HLTH 1100 Personal Health and Wellness (2.0)
or PES 1097 Fitness for Life (2.0)
Distribution Courses
- Biology (3.0)
- Physical Science (3.0)
- Additional Biology or Physical Science (3.0)
- Humanities Distribution (3.0)
- Fine Arts Distribution (3.0)
- PSY 1010 General Psychology* (Social/ Behavioral Science) (3.0)

Discipline Core Requirements: 16 Credits
These courses must have a cumulative GPA of 3.0 or better.
Choose 3 of the following: must complete the 1010 course that corresponds to their emphasis:
- 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* (3.0)
Complete one of the following: (4.0)
- PSY 3010 Statistics for the Behavioral Sciences* (4.0)
or 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 credits)
- ANTH 3100 Anthropology of Gender and Sexuality (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)
or SOC 320G Race and Minority Relations (3.0)
Emphasis:
Complete one of the following:
- Anthropology 51.0
- Psychology 51.0
- Social Work 51.0
- Sociology 51.0
Elective Requirements: 24 Credits
- Language Requirement (18 credits in the same foreign language, includes ASL)
- Any course numbered 1000 or higher (18.0)

Graduation Requirements:
1. Completion of a minimum of 126 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.
Emphasis in Anthropology 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.

- ANTH 1020 Biological Anthropology* 3.0
- ANTH 1030 World History (3.0)
- ANTH 107G Multicultural Societies (3.0)
- ANTH 180G Introduction to American Indian Studies (3.0)
- ANTH 2030 Ancient Anthropology (3.0)
- ANTH 275R Survey of Current Topics (3.0)

Anthropology Core Requirements (4 courses / 12 credits)

- ANTH 4150 Contemporary Theory and Debates 3.0
- ANTH 4160 History of Anthropological Thought 3.0

Complete two 360R courses, must be different cultures:

- ANTH 360R People and Cultures of the World 3.0
- ANTH 360R People and Cultures of the World 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 in Behavioral Science, Psychology, Sociology, and/or Social Work (BESC/PSY/SOC/SW). Only 3 credits may be used from BESC/PSY/SOC/SW-2000 level or higher. They must be in Anthropology, Behavioral Science, Social Work, and/or Sociology (ANTH/BESC/PSY/SOC).

Advanced Research Requirement - (1 course / 3 credits)

- ANTH 4850 Ethnographic Project 3.0

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 Psychology 51 Credits

Emphasis Requirements: 36 Credits
Matriculation Requirement - (1 course / 3 credits) Must complete all matriculation requirements (see Discipline Core) before taking any upper-division courses.

Complete one of the following:

- PSY 2250 Psychology of Interpersonal Relationships (3.0)
- PSY 2400 Positive Psychology (3.0)
- Upper Division Psychology Requirement - (5 courses / 15 credits)

Content Area (1 course / 3 credits). Complete one of the following:

- PSY 3420 Learning Memory and Cognition (3.0)
- PSY 3430 Psychopharmacology (3.0)
- PSY 3450 Psychological Psychology (3.0)
- PSY 4150 Psychological Research Methods (3.0)
- PSY 4500 History and Systems of Psychology (3.0)

Development/ Cortison Area (1 course / 3 credits). Complete one of the following:

- PSY 3200 Infant and Childhood Development (3.0)
- PSY 3210 Adolescent Development (3.0)
- PSY 3220 Adult Development (3.0)
- PSY 4300 Introduction to Counseling and Psychotherapy (3.0)
- PSY 4400 Introduction to Group Psychotherapy (3.0)

Choose three upper division (3000 or higher), 3 credit Psychology courses (3 courses / 9 credits)

Choose courses totaling 6 credits. All must be in Psychology, Social Work, and/or Sociology (ANTH/BESC/PSY/SOC).

Emphasis Elective Requirements: 15 Credits

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

Complete one of the following:

- SW 1010 Introduction to Social Work and Social Welfare* 3.0
- Social Work Core Requirement (7 courses / 21 credits)
- SW 1100 Human Development Life Span (3.0)
- PSY 3400 Abnormal Psychology (3.0)
- BESC 3100 Career Preparation for Behavioral Science Majors (2.0)
- SW 3550 Social Welfare Policies and Services (3.0)
- SW 3800 Social Service 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)

- Choose courses totaling 6 credits. All must be upper-division. They must be in Anthropology, Behavioral Science, Psychology, and/or Sociology (ANTH/BESC/PSY/SOC).

Advanced Research Requirement - (2 courses / 6 credits)

- SW 4800 Practicum (3.0)

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, 6 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.

BS in Behavioral Science 126 Credits

Matriculation Requirements:

Must have a minimum overall GPA of 2.0 (at the time a student applies to the program).

Must complete 28 credits of matriculation requirements with a minimum GPA of 3.0 in the 16 credits of Behavioral Science courses. If a student has completed 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 3.0
- MATH 1050 College Algebra 4.0

Complete one of the following:

- 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:

- MST 2100 US History to 1877 3.0
- MST 2700 US History Since 1877 (3.0)
- MST 1700 American Civilization (3.0)
Emphasis in Social Work | 51 Credits

Emphasis Requirements: 30 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)
  - 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 3.0
  - Allied Credit Requirement - (2 courses / 6 credits) 6.0

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. 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 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

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.

Behavioral Science | 120 Credits

Emphasis: Complete one of the following:
- Anthropology* 3.0
- Sociology* 3.0
- Psychology* 3.0

Emphasis Elective Requirements: 16 Credits

Behavioral Science Electives (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 Psychology | 51 Credits

Emphasis Requirements: 36 Credits

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:
- PSY 3400 Abnormal Psychology 3.0
- PSY 3460 Personality Theory 3.0
- PSY 3500 Social Psychology 3.0

Lower Division Psychology Requirement - (2 courses / 6 credits) 6.0

Complete one of the following:
- PSY 1100 Human Development Life Span 3.0
- PSY 1150 Marriage/Relationship Skills 3.0
- PSY 275R Survey of Current Topics 3.0
- PSY 2800 Human Sexuality 3.0

Complete one of the following:
- PSY 2250 Psychology of Interpersonal Relationships 3.0
- PSY 2400 Positive Psychology 3.0

Upper Division Psychology Requirement - (5 courses / 15 credits) 15.0

Complete one of the following:
- PSY 3420 Learning Memory and Cognition 3.0
- PSY 3430 Psychopharmacology 3.0
- PSY 3450 Physiological Psychology 3.0
- PSY 4150 Tests and Measurements 3.0
- PSY 4500 History and Systems of Psychology 3.0

Development / Counseling Area (1 course / 3 credits) 3.0

Complete one of the following:
- PSY 3200 Infancy and Childhood Development 3.0
- PSY 3210 Adolescent Development 3.0
- PSY 3220 Adult Development 3.0
- PSY 4300 Introduction to Counseling and Psychotherapy 3.0
- PSY 4400 Introduction to Group Psychotherapy 3.0

Choose three upper division (3000 or higher), 3 credit Psychology courses (3 courses / 9 credits) 9.0

Elective Requirements: 24 Credits

Elective Requirement (approximately 24 elective credits) 24.0

Graduation Requirements:
1. Completion of a minimum of 126 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 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. 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 before a student can matriculate.

Emphasis in Anthropology | 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.

- ANTH 100G Multicultural Societies (3.0)
- ANTH 180G Introduction to American Indian Studies (3.0)
- ANTH 2030 Ancient Anthropology (3.0)
- ANTH 275R Survey of Current Topics (3.0)

Behavioral Science Core Requirements (4 courses / 12 credits) 12.0

Complete two 360R courses, must be two different cultures:
- ANTH 360R People and Cultures of the World (3.0)
- ANTH 360R People and Cultures of the World (3.0)

Complete one of the following (4 courses / 12 credits) 12.0

- ANTH 4150 Contemporary Theory and Debates (3.0)
- ANTH 4160 History of Anthropological Thought (3.0)

Discipline Core Requirements: 16 Credits

Matriculation requirement - (5 courses / 16 credits). These courses must have a cumulative GPA or 3.0 or better:

- ANTH 310 Anthropology of Gender and Sexuality (3.0)
- ANTH 360G Development and Rural Societies (3.0)
- ANTH 360G 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 5.0
- Psychology 5.0
- Social Work 5.0
- Sociology 5.0

Elective Requirements: 24 Credits

Elective Requirement (approximately 24 elective credits) 24.0

Complete one of the following:
- ANTH 108G World Prehistory (3.0)
- ANTH 107G Multicultural Societies (3.0)
- ANTH 180G Introduction to American Indian Studies (3.0)
- ANTH 2030 Ancient Anthropology (3.0)
- ANTH 275R Survey of Current Topics (3.0)

Anthropology Core Requirements (4 courses / 12 credits) 12.0

Choose four upper division (3000 or higher), 3 credit Anthropology courses (4 courses / 12 credits) 12.0

Complete one of the following:
- ANTH 360R People and Cultures of the World (3.0)
- ANTH 360R People and Cultures of the World (3.0)

Complete one of the following (4 courses / 12 credits) 12.0

- ANTH 4150 Contemporary Theory and Debates (3.0)
- ANTH 4160 History of Anthropological Thought (3.0)

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.
Complete one of the following (1 course / 3 credits)
- SOC 1200 Sociology of the Family (3.0)
- SOC 2370 Gender Roles (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 courses (4 courses / 12 credits)

Allied Credit Requirement - (2 courses / 6 credits)

Choose courses totaling 6 credits. All must be 3000 level or above. They must be in Anthropology, Behavioral Science, Psychology, and/or Social Work (ANTH/BESC/PSY/SW). Only 3 credits may be used from ANTH/PSY/SW 490R: Independent Studies.

Behavioral Science Electives (6 courses / 18 credits).

Research Requirement - (2 courses / 6 credits)

Emphasis Elective Requirements: 18 Credits
Behavioral Science electives (6 courses / 18 credits). 18.0

In addition to the requirements listed above, students must complete 18 credits of approved Behavioral Science electives, 6 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.

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 3010 Statistics for the Behavioral Sciences (4.0) 4.0
- ANTH 4150 Contemporary Theory and Debates (3.0) 3.0
- or 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 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) 3.0
- or PSY 2400 Positive Psychology 3.0
- or PSY 3010 Statistics for the Behavioral Sciences* 4.0
- PSY 3020 Research Methods for the Behavioral Sciences 3.0
- Advanced Research (complete one of the following): 3.0
  - PSY 4010 Experimental Psychology (3.0)
  - or PSY 4020 Survey Research Design (3.0)
  - or PSY 4030 Introduction to Practice Evaluation and Grant Writing (3.0)
  - or PSY 4040 Applied Psychology (3.0)
  - or PSY 4050 Clinical Research (3.0)
- Complete 6 additional credits in Psychology 6.0

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
- SOC 4020 Survey Research Design (3.0) 3.0
- SOC 4030 Introduction to Practice Evaluation and Grant Writing (3.0) 3.0
- SOC 4040 Applied Sociology (3.0) 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
Biology

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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 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, and Bachelor of Science in Biology Education.

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 a 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**

**AA Pre Major in Biology 62 CREDITS**

**General Education Requirements:** 42 Credits

- ENGL 1010 Introduction to Writing
- ENGL 2010 Intermediate Writing--Humanities/ Social Sciences
- or ENGL 2020 Intermediate Writing--Science and Technology
- MATH 1050 College Algebra

Complete one of the following: 3.0

- HIST 2700 US History to 1877
- HIST 2710 History Since 1877
- HIST 1700 American Civilization
- HIST 1740 US Economic History
- POLS 1009 American Heritage
- POLS 1100 American National Government

Complete the following: 2.0

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

**Distribution Courses**

- BIOL 1610 College Biology I
- BIOL 1615 College Biology I Laboratory
- CHEM 1210 Principles of Chemistry I
- CHEM 1215 Principles of Chemistry I Laboratory
- CHEM 1220 Principles of Chemistry II
- CHEM 1225 Principles of Chemistry II Laboratory
- HLTH 1100 Personal Health and Wellness
- or PES 1097 Fitness for Life

**Discipline Core Requirements:** 10 Credits

Complete the following:

- BIOL 1620 College Biology II
- BIOL 1625 College Biology II Laboratory
- Minimum of 2 additional biology courses (BIOL, BOT, MICR, or ZOOL prefixes)
- BIOL 1010 and BIOL 1050 cannot be used to meet this requirement. See Biology Advisor.

**Elective Requirements:** 10 Credits

- Same Foreign Language

**Graduation Requirements:**

1. Completion of a minimum of 62 semester credits.
2. Overall grade point average of 2.0 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 10 credit hours of course work from one language.

**AS Pre Major in Biology 60 CREDITS**

**General Education Requirements:** 42 Credits

- ENGL 1010 Introduction to Writing
- ENGL 2010 Intermediate Writing--Humanities/ Social Sciences
- or ENGL 2020 Intermediate Writing--Science and Technology
- MATH 1050 College Algebra

Complete one of the following: 3.0

- ENGL 1010 Introduction to Writing
- ENGL 2010 Intermediate Writing--Humanities/ Social Sciences
- or ENGL 2020 Intermediate Writing--Science and Technology

- MATH 1050 College Algebra
Complete one of the following:

- HIST 2710 US History since 1877 (3.0)
- HIST 1700 American Civilization (3.0)
- HIST 1740 US Economic History (3.0)
- POLS 1000 American National Government (3.0)
- POLS 1100 American National Government (3.0)

Complete the following:

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

Distribution Courses

- BIOL 1610 College Biology I (4.0)
- CHEM 1210 Principles of Chemistry I (4.0)
- CHEM 1220 Principles of Chemistry II (4.0)
- Fine Arts Distribution (3.0)
- Social/Behavioral Science (3.0)

Discipline Core Requirements: 47 Credits

- BIOL 1615 College Biology I Laboratory (1.0)
- BIOL 1625 College Biology II Laboratory (1.0)
- BIOL 3410 Cell Biology (3.0)
- BIOL 3550 Genetics (3.0)
- BIOL 3650 Biological Chemistry (3.0)
- BIOL 3700 General Ecology (3.0)
- BIOL 4510 Principles of Evolution (3.0)
- BIOL 4604 Seminar (1.0)
- MATH 2040 Principles of Statistics (1.0)
- or MATH 1100 Trigonometry (3.0)
- and MATH 1210 Calculus I (5.0)
- PHYS 2015 College Physics I (4.0)
- PHYS 2016 College Physics I Lab (1.0)
- PHYS 2020 College Physics II (4.0)
- PHYS 2025 College Physics II Lab (1.0)
- CHEM 1215 Principles of Chemistry I Laboratory (1.0)
  
  - CHEM 1225 Principles of Chemistry II (1.0)
  
  - CHEM 2310 Organic Chemistry I (4.0)
  - CHEM 2315 Organic Chemistry I Laboratory (1.0)
  - CHEM 2320 Organic Chemistry II (4.0)
  - CHEM 2325 Organic Chemistry II Laboratory (1.0)

Elective Requirements: 36 Credits

- Choose 4 credits from any MIR elective (4.0)
- Choose 3 credits from any BOT electives (4.0)
- Choose 3 credits from any ZOL electives (except 3.0 ZOL 1990).
- Additional credits to meet credit and upper-division 26.0 requirements.

Graduation Requirements:

1. Complete the required minimum credit hours.
2. If an AA or AS degree has been earned, a maximum of 64 of these credits may apply toward the BS.
3. At least 30 credit hours in residence at UVU or satellite sites are required, with 10 hours earned during the last 45 hours.
4. A minimum of 40 credits must be upper-division (numbered 300 or above).
5. A minimum of 30 credits must be in the major (BIOL, BOT, MICR, or ZOL prefixes), 20 of which must be upper-division. A minimum of nine Biology credits must be taken at UVU.
6. Complete Biology core courses with a grade of “C-” or higher in each course.
7. Achieve a minimum overall GPA of 2.0 with a minimum of 2.25 in biology courses.
8. Complete the appropriate application for graduation by a course number ending in G. For a complete listing, see page 25.

BS in Biology Education 123 Credits

Matriculation Requirements:

1. Admission to Professional Education status is a requirement for enrollment in professional studies level courses.

General Education Requirements: 39 Credits

- ENGL 1010 Introduction to Writing (3.0)
- ENGL 2010 Intermediate Writing--Science and Technology (3.0)
- MATH 1050 College Algebra (4.0)
- Complete one of the following:
  - HIST 2720 US History since 1877 (3.0)
  - HIST 1720 American Civilization (3.0)
  - HIST 1740 US Economic History (3.0)
  - POLS 1000 American National Government (3.0)
  - POLS 1100 American National Government (3.0)
- Complete the following:
  - PHIL 2050 Ethics and Values (3.0)
  - HLT 1100 Personal Health and Wellness (2.0)
  - or PES 1097 Fitness for Life (2.0)

Distribution Courses

- BIOL 1810 College Biology I (4.0)
- CHEM 1110 Elementary Chemistry for the Health Sciences (4.0)
- CHEM 1120 Elementary Organic Bio-Chemistry (4.0)
- Fine Arts Distribution (3.0)
- Social/Behavioral Science (3.0)

Discipline Core Requirements: 84 Credits

- BIOL 1615 College Biology I Laboratory (1.0)
- BIOL 1625 College Biology II Laboratory (1.0)
- BIOL 2060 Microbiology for Health Professions (4.0)
- BIOL 3450 General Microbiology (4.0)
- BIOL 3500 Genetics (3.0)
- BIOL 3700 General Ecology (3.0)
- BIOL 4200 Seminar in Molecular Genetics (3.0)
- BIOL 4500 Principles of Evolution (3.0)
- BIOL 494R Seminar (1.0)
- Bot. 2100 Field Botany (3.0)
- Bot. 2100 Field Botany (3.0)
- Bot. 4300 Wildlands Shrubs (3.0)
- Bot. 3340 Plant Biology (4.0)
- ZOOL 2320 Human Anatomy (4.0)
- ZOOL 2420 Human Physiology (4.0)

- ZOOL 3100 Vertebrate Zoology (4.0)
- ZOOL 3200 Invertebrate Zoology (4.0)
- CHEM 1115 Elementary Chemistry Laboratory (1.0)
- CHEM 1125 Elementary Organic Bio-Chemistry Laboratory (1.0)

Education Courses

- EDSC 2450 Development of the Adolescent (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 (1.0)
- EDSC 4200 Classroom Management II (1.0)
- EDSC 4440 Content Area Reading and Writing (3.0)
- EDSC 4450 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)
- GEO 1010 Introduction to Geology (3.0)
- GEO 1015 Introduction to Geology Laboratory (1.0)
- PHYS 1010 Elementary Physics (3.0)

Graduation Requirements:

1. Complete the required minimum credit hours.
2. If an AA or AS degree has been earned, a maximum of 64 of these credits may apply toward the BS.
3. At least 30 credit hours in residence at UVU or satellite sites are required, with 10 hours earned during the last 45 hours.
4. A minimum of 40 credits must be upper-division (numbered 300 or above).
5. A minimum of 30 credits must be in the major (BIOL, BOT, MICR, or ZOL prefixes), courses as follows: minimum of 9 Biology credits must be taken at UVU and a minimum of 20 Biology credits must be upper-division.
6. Complete the appropriate application for graduation form.
7. Students completing a bachelor degree following the 2008 or later catalog must complete one course that meets the Global/Intercultural Requirement, indicated by a course number ending in G. For a complete listing, see page 25.

BS in Biotechnology 64 Credits

General Education Requirements: 39 Credits

- ENGL 1010 Introduction to Writing (3.0)
- ENGL 2020 Intermediate Writing--Science and Technology (3.0)
- MATH 1050 College Algebra (4.0)
- Complete one of the following:
  - HIST 2720 US History since 1877 (3.0)
  - HIST 1720 American Civilization (3.0)
  - HIST 1740 US Economic History (3.0)
  - POLS 1000 National Government (3.0)
  - POLS 1100 American National Government (3.0)
- Complete the following:
  - PHIL 2050 Ethics and Values (3.0)
  - HLT 1100 Personal Health and Wellness (2.0)
  - or PES 1097 Fitness for Life (2.0)

Distribution Courses

- BIOL 1810 College Biology I (4.0)
- CHEM 1110 Elementary Chemistry for the Health Sciences (4.0)
- CHEM 1120 Elementary Organic Bio-Chemistry (4.0)
- Fine Arts Distribution (3.0)
- Social/Behavioral Science (3.0)

Discipline Core Requirements: 75 Credits

- BIOL 1615 College Biology I Laboratory (1.0)
- BIOL 1625 College Biology II Laboratory (1.0)
- BIOL 3450 General Microbiology (4.0)
- BIOL 3550 Experiments in Molecular Biology (1.0)
- BIOL 3650 Biochemistry I Laboratory (1.0)
- BIOL 4550 Molecular Evolution and Bioinformatics (3.0)
- BTEC 481R Biotechnology Internship (1.0)
- BTEC 481R Biotechnology Internship (1.0)
- BTEC 459R Student Research (1.0)
- BIOL 499R Senior Thesis (1.0)
- MIR 2080 Microbiology for Health Professions (4.0)
Biology

- MATH 2040 Principles of Statistics 4.0
- 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
- CHEM 1215 Principles of Chemistry I Laboratory 1.0
- CHEM 2310 Organic Chemistry I 4.0
- CHEM 2315 Organic Chemistry I Laboratory 1.0
- CHEM 2320 Organic Chemistry II 4.0
- CHEM 2325 Organic Chemistry II Laboratory 1.0
- BTEC 1010 Fundamentals of Biotechnology I 1.0
- BTEC 2010 DNA Manipulation and Analysis 3.0
- BTEC 2020 Protein Purification and Analysis 2.0
- BTEC 2030 Cell Culture Techniques 3.0
- BTEC 2040 Advanced Nucleic Acid Laboratory 3.0

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

Graduation Requirements:
1. Complete the required minimum credit hours.
2. At least 30 credit hours in residence at UVU or satellite sites are required, with 10 hours earned during the last 45 hours.
3. A minimum of 40 credits must be upper-division (numbered 3000 or above).
4. Complete core courses with a grade of "C-" or higher in each course.
5. Achieve a minimum overall GPA of 2.0 with a minimum GPA of 2.25 in core 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.

Minor in Biology 21 Credits

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

Discipline Core Requirements: 21 Credits
- Complete the following with a grade of C- or better:
  - BIOL 1610 College Biology I 4.0
  - BIOL 1615 College Biology I Laboratory 1.0
  - BIOL 1620 College Biology II 3.0
  - BIOL 1625 College Biology II Laboratory 1.0
  - Complete 12 upper-division credits from any BIOL, BOT, MICR, or ZOOL courses with a grade of C- or higher in each. BIOL 495R, BIOL 499R, ZOOL 3080, or ZOOL 4080 cannot be used to meet 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 Biology 18 Credits

Emphasis Requirements: 18 Credits

Biology Emphasis
- Prerequisites (see Advisor):
  - BIOL 1610 College Biology I (4.0)
  - BIOL 1615 College Biology I Laboratory (1.0)
  - CHEM 1110 Elementary Chemistry for the Health Sciences (recommended) (4.0)

- Complete the following:
  - BIOL 1620 College Biology II 3.0
  - BIOL 1625 College Biology II Laboratory 1.0
  - BIOL 4000 Principles of Evolution 3.0
  - Complete 11 credits (minimum of 9 credits must be upper-division) from any BIOL, BOT, MICR, or ZOOL courses except BIOL 1010, ZOOL 1090, BIOL 494R, BIOL 499R, or BIOL 499R.

USU/UVU HORTICULTURE PROGRAM

Coordinator: Michael S. Caron
Office: CE 105
Telephone: 801-863-8042
E-mail: caronmi@uvsc.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 in Horticulture (the degrees are awarded by Utah State University). For full program description, see Continuing and Adult Education 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


### 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 31 Credits

<table>
<thead>
<tr>
<th>Discipline Core Requirements: 31 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>• BCCM 1110 Principles of Residential Framing 3.0</td>
</tr>
<tr>
<td>• BCCM 1120 Blueprint Reading 2.0</td>
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<tr>
<td>• BCCM 1130 Concrete and Masonry 1.0</td>
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<tr>
<td>• BCCM 1160 Stair Design and Construction 1.0</td>
</tr>
<tr>
<td>• BCCM 1190 Framing and Concrete Lab 5.0</td>
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<tr>
<td>• BCCM 1210 Principles of Finish Carpentry 3.0</td>
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<tr>
<td>• BCCM 1220 Finishing Lab 5.0</td>
</tr>
<tr>
<td>• BCCM 1230 Construction Estimating 2.0</td>
</tr>
<tr>
<td>• BCCM 1240 Roof Framing 2.0</td>
</tr>
<tr>
<td>• BCCM 1250 Utah Contractors License Regulation and Procedure 2.0</td>
</tr>
<tr>
<td>or BIT 1010 Residential Codes (3.0)</td>
</tr>
<tr>
<td>or CAW 2310 Cabinetry Math 2.0</td>
</tr>
<tr>
<td>or EGDT 1600 Technical Math--Algebra** (3.0)</td>
</tr>
</tbody>
</table>

### Graduation Requirements: 1 Credit

1. Completion of a minimum or 31 semester credits.
2. Overall grade point average of 2.0 (C) or above.
3. Completion of GE and specified departmental requirements.
4. Complete all Technical Specialty courses with a minimum grade of “C-” or better.
5. Residency hours—minimum of 10 credit hours through course attendance at UVU.

Note: **Take EGDT 1600 if planning to complete AAS degree.

### AAS in Building Construction 69 Credits

#### General Education Requirements: 15 Credits

- ENGL 1010 Introduction to Writing 3.0
- Biology/Physical Science 3.0
- ART 1720 Architectural Rendering 3.0
- EGDT 1600 Technical Math–Algebra (MATH 1050 required for the Bachelor's Degree) 3.0
- TECH 2000 Technology and Human Life 3.0

#### Discipline Core Requirements: 54 Credits

- BCCM 1110 Principles of Residential Framing 3.0
- BCCM 1120 Blueprint Reading 2.0
- BCCM 1130 Concrete and Masonry 1.0
- BCCM 1150 Building Construction Safety 1.0
- BCCM 1160 Stair Design and Construction 1.0
- 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 Roof Framing 2.0
- BCCM 1250 Utah Contractors License Regulation and Procedure 2.0
- BCCM 1260 Computer Estimating 2.0
- BCCM 3270 Residential Project Management and Scheduling 3.0
- ACRT 1330 Residential HVAC Estimating and Design 2.0
- ACC 2010 Financial Accounting 3.0
- BIT 1010 Building Codes 3.0
- or BIT 1020 Residential Codes (3.0) |
- CAW 1130 Residential Cabinetry 4.0
- EGDT 1040 Computer Aided Drafting–AutoCAD 30
- EGDT 1060 Introduction to Architecture Drafting 3.0
- EGDT 1400 Surveying 4.0

#### Graduation Requirements: 4 Credits

1. Completion of a minimum of 69 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.

### AS Pre Major in Building Construction and Construction Management 63 Credits

#### General Education Requirements: 36 Credits

- ENGL 1010 Introduction to Writing 3.0
- ENGL 2010 Intermediate Writing–Humanities 3.0
- or ENGL 2020 Intermediate Writing–Science and Technology (3.0)

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)

#### Distribution Courses 12.0

- 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: 16 Credits

- Choose from BCCM 1000 level or higher 16.0

#### Elective Requirements: 12 Credits

- Electives (1000 level or higher) 12.0

#### Graduation Requirements: 2 Credits

1. Completion of a minimum or 63 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours—minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

### BS in 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 1130 Concrete and Masonry 1.0
- BCCM 1150 Building Construction Safety 1.0
- BCCM 1160 Stair Design and Construction 1.0
- 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 Roof Framing 2.0
- BCCM 1250 Utah Contractors License Regulation and Procedure 2.0
- BCCM 1260 Computer Estimating 2.0

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

**Note:** Take EGDT 1600 if planning to complete AAS degree.
Building Construction

- BCCM 3270 Residential Project Management 3.0
  and Scheduling
- BCCM 299R VICA 1.0
- BIT 1010 Building Codes 3.0
  or BIT 1020 Residential Codes 3.0
- EGDT 1040 Computer Aided Drafting--
  AutoCAD 3.0
- EGDT 1090 Introduction to Architecture Drafting 3.0
- EGDT 1400 Surveying 4.0

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 613e  
  Telephone: 801-863-7405
- Advisor: Amy Ostler  
  Office: CS 635  
  Telephone: 801-863-8138

Advisory Committee: Chuck Hugo, Provo City 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.*

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## Building Inspection Technology

### Certificate in Building Inspection Technology 30 Credits

**Discipline Core Requirements:**
- COMM 2110 Interpersonal Communication 3.0  
- BIT 1010 Building Codes 3.0  
- BIT 1170 Field Lab—Building Codes 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 1130 Concrete and Masonry 1.0  
- BCCM 1150 Building Construction Safety 1.0  
- BCCM 1160 Stair Design and Construction 1.0  
- BCCM 1240 Roof Framing 2.0  
- ESFO 2300 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  
- **LINE**, Lineman Technology  
- **WELD**, Welding Technology

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## AAS in Building Inspection Technology 63 Credits

**General Education Requirements:**
- 16 Credits
  - COMM 1020 Public Speaking 3.0  
  - COMM 2110 Interpersonal Communication 3.0  
  - BIT 1170 Field Lab—Building Codes 3.0  
  - 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 1130 Concrete and Masonry 1.0  
  - BCCM 1160 Stair Design and Construction 1.0  
  - BCCM 1190 Framing and Concrete Lab 5.0  
  - BCCM 1240 Roof Framing 2.0  
  - EGDT 1040 Computer Aided Drafting—AutoCAD 3.0  
  - EGDT 1400 Surveying 4.0  
  - ESFO 200 Fire Inspector I 3.0  
  - COMM 2110 Interpersonal Communication 3.0  
  - ENGL 1010 Introduction to Writing 3.0  
  - Biology/Physical Science 3.0

**Discipline Core Requirements:**
- 47 Credits
  - BIT 1010 Building Codes 3.0  
  - BIT 1170 Field Lab—Building Codes 3.0  
  - 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 1130 Concrete and Masonry 1.0  
  - BCCM 1160 Stair Design and Construction 1.0  
  - BCCM 1190 Framing and Concrete Lab 5.0  
  - BCCM 1240 Roof Framing 2.0  
  - EGDT 1040 Computer Aided Drafting—AutoCAD 3.0  
  - EGDT 1400 Surveying 4.0  
  - ESFO 200 Fire Inspector I 3.0  
  - COMM 2110 Interpersonal Communication 3.0  
  - ENGL 1010 Introduction to Writing 3.0  
  - Biology/Physical Science 3.0

**Graduation Requirements:**
1. Completion of a minimum of 63 semester credits.  
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)  
3. Residency hours—minimum of 20 credit hours through course attendance at UVU.  
4. Completion of GE and specified departmental requirements.

## BS in 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

**Emphasis Requirements:**
- 45.0 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 1130 Concrete and Masonry 1.0  
  - BCCM 1150 Building Construction Safety 1.0  
  - BCCM 1160 Stair Design and Construction 1.0  
  - BCCM 1190 Framing and Concrete Lab 5.0  
  - BCCM 1240 Roof Framing 2.0  
  - EGDT 1040 Computer Aided Drafting—AutoCAD 3.0
Business/Marketing Education

Business Education Director: Jan Bentley
Office: CS 526
Telephone: 801-863-6362
Email: bentleja@uvsc.edu

Faculty:
Professor
Cynthia Krebs
Colleen Vawdrey
Emeritus Professor
Kathleen Richards
Emeritus Instructor
Kari Steere

Administrative Support: Katrina Van Cott
Office: CS 526
Telephone: 801-863-6217
E-mail: vancotka@uvsc.edu

Advisor: Bonnie Cook
Office: CS 526b
Telephone: 801-863-8403
E-mail: cookbo@uvsc.edu

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

PROGRAMS
Students interested in teaching can pursue a Bachelor of Science in Business/Marketing Education and a secondary teaching license through a joint program offered by the Digital Media Department and the School of Education. The Business/Marketing Education curriculum prepares students to teach information technology, multimedia, business, and marketing courses in the secondary schools. Secondary education teaching minors are also available in business information technology, basic business, and marketing.

BS in Business/Marketing Education 124 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.

General Education Requirements: 36 Credits
- ENGL 1010 Introduction to Writing 3.0
- ENGL 2100 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 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
- HILN 1100 Personal Health and Wellness (2.0) or PES 1097 Fitness for Life 2.0

Distribution Courses
- ECON 2020 Microeconomics (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

Discipline Core Requirements: 82 Credits
- EDSC 2540 Development of the Adolescent Student 2.0
- EDSC 3000 Educational Psychology 3.0
- EDSC 3050 Foundations of American Education 2.0
- EDSP 3400 Exceptional Students * 2.0
- EDSC 4200 Classroom Management * 1.0
- EDSC 4250 Classroom Management II 1.0
- EDSC 4440 Content Area Reading and Writing 2.0
- EDSC 4450 Multicultural Instruction/ESL 2.0
- EDSC 4550 Secondary Curriculum Instruction and Assessment * 4.0
- EDSC 4850 Student Teaching—Secondary * 8.0
- BMED 3700 Principles of Business/Marketing Education * 3.0
- BMED 4200 Methods of Teaching Digital Technology * 3.0
- BMED 4250 Methods of Teaching Business and Marketing * 3.0
- BMED 4900 Business/Marketing Student Teaching Seminar 2.0
- DGM 1010 Basic Computer Applications 2.0
- DGM 2120 Web Essentials 3.0
- DGM 2230 Exploring Digital Communication Tools (3.0)*
- DGM 2360 Spreadsheet Applications 3.0
- DGM 2370 Database Applications 3.0
- DGM 3870 Web Graphics Applications 3.0
- DGM 3820 Presentation Applications 3.0
- DGM 3850 Desktop Publishing Skills 3.0
- ACC 2010 Financial Accounting 3.0
- ACC 2200 Managerial Accounting 3.0
- LEGL 3000 Business Law 3.0
- MGMT 2200 Business Communications 3.0
- MGMT 3660 Internet Marketing 3.0
- MGMT 3650 Selling and Sales Management (3.0)

Elective Requirements: 6 Credits
Complete at least 6 credits from the following:
- MGMT 1060 Personal Finance (3.0)
- MGMT 3170 Entrepreneurship (3.0)
- MGMT 3860 Internet Marketing (3.0)
- MGMT 3850 Selling and Sales Management (3.0)

Graduation Requirements:
1. Completion of the 124 semester credit hours required in the degree with at least 40 credit hours in upper-division courses.
2. Overall grade point average 2.75 or above with no grade lower than a B- in all discipline and specialty core courses.
3. Residency hours: Minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.
5. 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 must pass a criminal background check at the beginning of the junior year.
NOTE: Participation in PBL or DEX is highly recommended for at least one semester since students will be involved with these student organizations during their teaching career.

Footnotes:
* Courses requiring field experience.
** Students should teach at least one marketing course, one business computer course, and one non-computer business course during the student teaching experience.

Minor in Business Education 21-24 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 3700 Principles of Business/Marketing Education*

Emphasis:
Complete one of the following:
- Basic Business Core 21.0
- Business Information Technology 20.0
- 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.

Footnotes:
* Courses requiring field experience.

Emphasis in Business Information Technology 20 Credits

Matriculation Requirements:
- BMED 4250 Methods of Teaching Digital Technology * 3.0
- DGM 2120 Web Essentials 3.0
- DGM 2230 Exploring Digital Communication Tools 2.0
- 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

Footnotes:
* Courses requiring field experience.

Emphasis in Marketing 18 Credits

Matriculation Requirements:
- BMED 4250 Methods of Teaching Business and Marketing * 3.0
- MGMT 3650 Selling and Sales Management 3.0
- MGMT 3660 Internet Marketing 3.0

Elective Requirements: 6 Credits
Complete 6 credits from the following courses:
- MGMT 3170 Entrepreneurship (3.0)
- MGMT 3220 Retail Management (3.0)
- MGMT 3350 International Marketing (3.0)
- MGMT 3620 Consumer Behavior (3.0)
- MGMT 3670 Advertising and Promotion (3.0)

Catalog 2008–2009
Utah Valley University
110
• HM 1010 Introduction to Hospitality Industry (3.0)
• HM 3710 Marketing of Hospitality Services (3.0)
For Economics Endorsement:
• ECON 2020 Macroeconomics (3.0)
and ECON 2010 Microeconomics (3.0)

Footnotes:
* Courses requiring field experience

Minor in Business Information Technology  23 Credits
Matriculation Requirements:
1 Admitted to a bachelor degree program at UVU.
Discipline Core Requirements:  17 Credits
• DGM 2120 Web Essentials 3.0
• DGM 2230 Exploring Digital Communication Tools (3.0)
• DGM 2360 Spreadsheet Applications 3.0
• DGM 2370 Database Applications 3.0
• DGM 3820 Presentation Applications 3.0
• DGM 3850 Desktop Publishing Skills 3.0
Elective Requirements:  6 Credits
Select 6 credits from the following:
• DGM 3220 Digital Media Project Management (3.0)
• DGM 3870 Web 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
Business Management

Interim Department Chair: Lowell Glenn
Office: WB 215
Telephone: 863-8385

Associate Department Chair: Deborah Baird
Office: WB 203e
Telephone: 863-6605

Faculty:
Professor
Janice Gygi
Nolan Lickey
Duane Miller
Peter B. Robinson
Colleen Vawdrey
Baird

Associate Professor
Deborah Baird
Greg Berry
Charles Cozzens
Scott Hammond
Larry Hartman
Susan Madsen
Troy Nielsen
Eugene Seeley
Karen Whelan-Berry

Assistant Professor
David N. McArthur
Harry Taute
Ramendra Thakur
Letty Workman

Lecturer
Marty Val Hill
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Woodbury School of Business
Dean: Stanley Earl Jenne, Ph.D.
Office: WB 128b
Telephone: 801-863-8239

Assocate Dean: Eugene Seeley, Ph.D.
Office: WB 219
Telephone: 801-863-8736

Assistant Dean: Mikki O’Connor
Office: WB 129
Telephone: 801-863-8850

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.)

Complete the following:
- PHIL 2050 Ethics and Values
- HTHL 1100 Personal Health and Wellness
- OR PSE 1097 Fitness for Life

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

Certificate in Business Management

Discipline Core Requirements: 30 Credits

Course Requirements: 24 Credits

- MGMT 1010 Introduction to Business
- MGMT 1060 Personal Finance
- MGMT 2200 Business Communications
- MGMT 2390 Effective Business Presentations
- ACC 1150 Principles of Management
- ECON 1010 Economics as a Social Science

Elective Requirements: 6 Credits

Choose six credits of business electives from the MGMT, ECON, ACC, DGM, BMED, HM, INFO, or LEGL 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 10 credit hours through course attendance at UVU with at least 12 credits of Woodbury School of Business courses.

Certificate in Business Management

AS Pre Major in Business

General Education Requirements: 36 Credits

Course Requirements: 30 Credits

- ENGL 1010 Introduction to Writing
- ENGL 1020 Intermediate Writing--Humanities/Social Sciences
- or ENGL 2020 Intermediate Writing--Science and Technology

Complete one of the following:
- MATH 1050 College Algebra
- or An Advanced Placement (AP) Mathematics Test with a score of 3 or higher

Complete one of the following:
- HIST 1700 American Civilization
- HIST 2700 US History to 1877
- or HIST 2710 US History since 1877
- or HIST 1740 US Economic History
- or POLS 1000 American Heritage
- or POLS 1100 American National Government

Leafotes:
- 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.

Footnotes:
- No grade below C- in required courses.
- Required for all Woodbury School of Business courses.
- Distribution List:

AAS in Business Management

Elective Requirements: 18 Credits

- Any ACC, DGM, CJ, HM, INFO, MGMT, ECON or LEGL course 1000 level or higher **
- General Education Electives (select from Distribution List)

Graduation Requirements:
1. Completion of a minimum of 65 semester credits.
2. Overall grade point average of 2.0 or above with 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.
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 2010-A modules as necessary with a score of 80 percent or higher on each module.
- No more than three credits of MGMT 281R Cooperative Work Experience will be allowed as business electives; see advisor for further recommendations.

BS in Business Management 123-124 Credits

General Education Requirements: 36 Credits
- ENGL 1200  Introduction to Writing 3.0
- ENGL 2200 Intermediate Writing—Humanities 3.0
- MATH 1050 College Algebra 4.0
- An Advanced Placement (AP) Mathematics Test with a score of 3 or higher.

Complete one of the following:
- HIST 2700 US History from 1887 (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 1010 American Heritage (3.0)
- POLS 1100 National Government (3.0)

Business Core Courses: Complete one of the following:
- PHIL 2600 Ethics and Values 3.0
- HLTH 1100 Personal Health and Wellness (2.0)
- PES 1097 Fitness for Life 2.0

Distribution Courses:
- ECON 2020 Macroeconomics* (fulfills Social/Behavioral Science credit) 3.0
- Biology 3.0
- Physical Science 3.0
- Additional Biology or Physical Science 3.0
- Humanities Distribution 3.0
- Fine Arts Distribution 3.0

Discipline Core Requirements: 50 Credits

Business Foundation Courses:
- ACC 2020 Managerial Accounting 3.0
- ACC 2020 Managerial Accounting 3.0
- Business Computer Proficiency Exam ** or DGM 2010 Business Computer Proficiency 3.0
- MATH 1100 Introduction to Calculus 4.0
- MGMT 2200 Introduction to Business Communications * or ECON 2010 Microeconomics 3.0
- MGMT 2340 Business Statistics I 3.0
- MGMT 2390 Effective Business Presentations 3.0

Business Core Courses:
- INFO 3120 Principles of Information Systems—A Managerial Approach 3.0
- LEGL 3000 Business Law 3.0
- MGMT 3010 Principles of Management 3.0
- MGMT 3100 Principles of Finance* 3.0
- MGMT 3450 Operations Management* 3.0
- MGMT 3500 Principles of Marketing 3.0
- MGMT 3890 Career Preparation 2.0
- MGMT 4800 Strategic Management 3.0
- MGMT 4830 Strategic Management Capstone Simulation 1.0
- MGMT 493R Entrepreneurship Lecture Series (1.0) or MGMT 495R Executive Lecture Series 1.0

Emphasis: Complete one of the following:
- Entrepreneurship 27.0
- Finance and Banking 27.0
- General Business 27.0
- Hospitality Management 28.0
- International Business 27.0
- Marketing 27.0

Elective Requirements: 10 Credits
Select 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 G. For a complete listing, see page 25.

NOTE: Students will be limited to 15 hours of upper-division credit until MATRICULATION is completed.

Emphasis in Entrepreneurship 27 Credits

Emphasis Requirements: 9 Credits
- MGMT 3110 Entrepreneurship 3.0
- MGMT 4390 Entrepreneurship Business Planning 3.0
- MGMT 4450 Entrepreneurship Enterprise Formation 3.0

Emphasis Elective Requirements: 18 Credits
Complete 18 credits from the following courses:
- MGMT 3120 Entrepreneurship 3.0
- MGMT 3350 Microeconomics 3.0
- MGMT 3680 Selling and Sales Management 3.0
- MGMT 3710 Advertising and Promotion 3.0
- MGMT 4200 Opportunity Identification in Entrepreneurship 3.0
- MGMT 4210 Entrepreneurship Personal Development 3.0
- MGMT 4400 New Venture Financing 3.0

Emphasis in Finance and Banking 27 Credits

Emphasis Requirements: 15 Credits
- MGMT 3300 Survey of International Business 3.0
- MGMT 3510 Financial Management 3.0
- MGMT 3940 Investment Management 3.0
- MGMT 4100 Management of Financial Institutions 3.0
- ECON 3020 Intermediate Microeconomics 3.0

Emphasis Elective Requirements: 12 Credits
Select 12 credits from the following list:
- ECON 4150 Public Finance 3.0
- MGMT 4161 Portfolio Management 3.0
- MGMT 4170 Derivative Securities 3.0
- MGMT 4180 International Finance Management 3.0
- MGMT 4400 New Venture Financing 3.0
- MGMT 4570 Advanced Topics in Finance 3.0
- Any Accounting Course Numbered 3101 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 3200 Global Tourism 3.0
- HM 3020 Hospitality Managerial Accounting 4.0
- HM 3390 Hotel Operations II 3.0
- HM 3640 Food and Beverage Controls 3.0
- HM 3710 Marketing of Hospitality Services 3.0
- HM 4550 Hospitality Industry Management 3.0
- HM 482R Internship 6.0

Emphasis in International Business 27 Credits

Emphasis Requirements: 12 Credits
- MGMT 3320 Cross-Cultural Communications for International Business 3.0
- MGMT 3350 International Marketing 3.0
- MGMT 4180 International Finance Management* 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 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)

Minor in Business Management 23 Credits

Matriculation Requirements: 1
- Admitted to a bachelor degree program at UVU.

Discipline Core Requirements: 20 Credits
- Business Core Courses:
  - ACC 3000 Financial Managerial and Cost Accounting Concepts 4.0
  - INFO 3120 Principles of Information Systems—A Managerial Approach 3.0
  - LEGL 3000 Business Law 3.0
  - ECON 2020 Microeconomics 3.0
  - MGMT 3010 Principles of Management 3.0
  - Choose one of the following:
    - MGMT 495R Executive Lecture Series 1.0
    - MGMT 495R Entrepreneurship Lecture Series (1.0)

Elective Requirements: 3 Credits
Choose one of the following:
- MGMT 3100 Principles of Finance* (3.0)
- MGMT 3350 Survey of International Business 3.0
- MGMT 3431 Human Resource Management 3.0
- MGMT 3600 Principles of Marketing (3.0)

Graduation Requirements:
1. Overall grade point average 2.5 in all Woodbury School of Business courses and no grade lower than a C- in business courses.
2. Completion of GE and specified departmental requirements.
3. Note: Students are responsible for completing all prerequisite courses. Not available to Business Management majors.
4. Electives:
   - Courses with an asterisk (*) cannot be taken until student is matriculated into a bachelor degree program.

BA/BS in Integrated Studies 123 Credits

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

Emphasis in Leadership 18 Credits

Emphasis Requirements: 18 Credits
- Leadership (Upper Division) Emphasis
- Complete one of the following:
  - ACC 3000 Financial Managerial and Cost Accounting Concepts (4.0)
  - ACC 2010 Financial Accounting (3.0)
  - ACC 2020 Managerial Accounting (3.0)
- Complete the following:
  - INFO 3120 Principles of Information Systems—A Managerial Approach 3.0
  - ECON 2020 Microeconomics 3.0
  - MGMT 3010 Principles of Management 3.0
  - MGMT 3500 Leadership 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.
Business Management

BA/BS in Integrated Studies  123 Credits

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

Emphasis in Business Management  18 Credits

Emphasis Requirements:  18 Credits

Business Management Emphasis

Prerequisites:
- ACC 3000 Financial Managerial and Cost Accounting Concepts (4.0)
  or ACC 2010 Financial Accounting (3.0)
  and ACC 2020 Managerial Accounting (3.0)
- DGM 2010 Business Computer Proficiency (3.0)
  or Business Computer Proficiency Exam *

Complete the following:
- INFO 3120 Principles of Information Systems--A Managerial Approach  3.0
- ECON 2020 Macroeconomics  3.0
- MGMT 3010 Principles of Management  3.0
- MGMT 3600 Principles of Marketing  3.0

Complete 6 credits from the following:
- LEGL 3000 Business Law (3.0)
- ECON 2010 Microeconomics (3.0)
- MGMT 3100 Principles of Finance (3.0)
- MGMT 3300 Survey of International Business (3.0)
- MGMT 3430 Human Resource Management (3.0)

Note: A minimum of 2.5 GPA in all Woodbury School of Business courses, and no grade lower than a C-, required for graduation.

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.

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

- HM, Hospitality Management
- MGMT, Business Management
Certificate in Cabinetry and Architectural Woodwork 29 Credits

**Discipline Core Requirements:** 29 Credits

- **CAB 1130** Residential Cabinetry 4.0
- **CAB 1140** Millworking and Safety Shop I 5.0
- **CAB 1180** Design Drafting and Billing 3.0
- **CAB 1170** Finish Technology 2.0
- **CAB 1210** Cabinetmaking Materials and Hardware 1.0
- **CAB 1240** Millworking Shop II 5.0
- **CAB 2310** Cabinetry Math 2.0
- **CAB 299R** Skills USA (1 credit, repeat 2 times (1.0)
- **EGDT 1040** Computer Aided Drafting—AutoCAD 3.0

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

- **CAB 1130** Residential Cabinetry 4.0
- **CAB 1140** Millworking and Safety Shop I 5.0
- **CAB 1150** Design Drafting and Billing 3.0
- **CAB 1170** Finish Technology 2.0
- **CAB 1210** Cabinetmaking Materials and Hardware 1.0
- **CAB 1240** Millworking Shop II 5.0
- **CAB 1250** Drafting and Computer Applications for Cabinetmakers 4.0
- **CAB 2300** Counter-top Technology 3.0
- **CAB 2310** Cabinetry Math 2.0
- **CAB 2340** Millworking Shop III 5.0
- **CAB 2440** Millworking Shop IV 5.0
- **CAB 2450** Machine Maintenance and Upkeep 2.0
- **CAB 299R** Skills USA (1 credit, repeat 2 times (1.0)
- **EGDT 1040** Computer Aided Drafting—AutoCAD 3.0
- **HIST 1700** American Civilization (0.0)
- **HIST 1740** US Economic History (3.0)
- **MATH 100** Quantitative Reasoning (3.0)
- **MATH 1030** Introduction to Statistics (3.0)
- **MATH 1050** College Algebra (Recommended for Business, Education, Science, and Health Professionals majors) (4.0)
- **PHIL 2050** Ethics and Values (3.0)
- **POLS 1100** American National Government (3.0)
- **THST 1230** Health Professions (3.0)
- **THST 1250** Business, Education, Science, and Health Professions (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 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)
- **EXTR 1010** Introduction to Writing (3.0)
- **EXTR 1060** Career Writing for Technology (3.0)
- **MATH 100** Quantitative Reasoning (3.0)
- **MATH 1030** Introduction to Statistics (3.0)
- **MATH 1050** College Algebra (Recommended for Business, Education, Science, and Health Professionals majors) (4.0)
- **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)
- **EXTR 1010** Introduction to Writing (3.0)
- **EXTR 1060** Career Writing for Technology (3.0)
- **MATH 100** Quantitative Reasoning (3.0)
- **MATH 1030** Introduction to Statistics (3.0)
- **MATH 1050** College Algebra (Recommended for Business, Education, Science, and Health Professionals majors) (4.0)
- **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)

**AAS in Cabinetry and Architectural Woodwork 66 Credits**

**General Education Requirements:** 16 Credits

- **ENGL 1010** Introduction to Writing 3.0
- **ENGL 1060** Career Writing for Technology (3.0)
- **MATH 100** Quantitative Reasoning (3.0)
- **MATH 1030** Introduction to Statistics (3.0)
- **MATH 1050** College Algebra (Recommended for Business, Education, Science, and Health Professionals majors) (4.0)
- **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)
- **EXTR 1010** Introduction to Writing (3.0)
- **EXTR 1060** Career Writing for Technology (3.0)
- **MATH 100** Quantitative Reasoning (3.0)
- **MATH 1030** Introduction to Statistics (3.0)
- **MATH 1050** College Algebra (Recommended for Business, Education, Science, and Health Professionals majors) (4.0)
- **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)

**Discipline Core Requirements:** 50 Credits

- **CAB 1130** Residential Cabinetry 4.0
- **CAB 1140** Millworking and Safety Shop I 5.0
- **CAB 1150** Design Drafting and Billing 3.0
- **CAB 1170** Finish Technology 2.0
- **CAB 1210** Cabinetmaking Materials and Hardware 1.0

**BS in Technology Management 125 Credits**

**Specialization in Cabinetry and Architectural Woodwork 45 Credits**

**Emphasis Requirements:** 45 Credits

- **CAB 1130** Residential Cabinetry (4.0)
- **CAB 1140** Millworking and Safety Shop I (5.0)
Cabinetry and Architectural Woodwork

- CAW 1150 Design Drafting and Billing (3.0)
- CAW 1170 Finish Technology (2.0)
- CAW 1210 Cabinetmaking Materials and Hardware (1.0)
- CAW 1240 Millworking Shop II (5.0)
- CAW 1250 Drafting and Computer Applications 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
Assistant Dean: Louise Illis  
Office: PS 201D  
Telephone: 801-863-6040  

Assistant Dean: David Jordan  
Office: PS 201C  
Telephone: 801-863-7160

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 from Chemistry and Physics Education programs are excellent.

PROGRAMS
Students may receive:
• 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  
123-124 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: 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)  
• POLS 1000 American Heritage (3.0)  
• POLS 1100 American National Government (3.0)

Complete the following:
• PHIL 2050 Ethics and Values 3.0  
• HTHL 1100 Personal Health and Wellness (2.0) or PES 1097 Fitness for Life 2.0  

Distribution Courses: 3.0  
• Biology  
  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

Emphasis in Forensic Chemistry 41 Credits

Emphasis Requirements: 32 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 4820 Forensic Chemistry Internship 3.0  
• CJ 1330 Criminal Law 3.0  
• CJ 1340 Criminal Investigations 3.0  
• CJ 1350 Introduction to Forensic Science 3.0  
• CJ 135L Introduction to Forensic Science Laboratory 1.0  
• CJ 2350 Laws of Evidence 3.0  
• CJ 3880 Professional Practices for the Forensic Scientist 3.0

Complete one of the following: 2.0  
• BIOL 2500 Environmental Biology (3.0)  
• BIOL 3650 Biotechnology (2.0)  
• MIRC 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: 9.0  
• BIOL 3490 Cell Biology (3.0)  
• BIOL 3590 Genetics (3.0)  
• BIOL 3550 Molecular Biology (3.0)  
• BIOL 4450 Immunology (3.0)  
• MIRC 3450 General Microbiology (4.0)  
• GEO 3400 Forensic Geology (4.0)  

For the Professional Chemistry Emphasis:
For the Forensic Chemistry Emphasis:
• COMM 1020 Public Speaking (3.0)  
• CJ 1010 Introduction to Criminal Justice (3.0)  

### Chemistry

- CJ 3500 Footwear Impression Evidence (3.0)
- CJ 3520 Tire Imprint Evidence (3.0)
- CJ 3540 Forensic Trace Analysis I (3.0)
- CJ 3550 Forensic Trace Analysis II (3.0)
- CJ 3710 Finger Print Examination I (3.0)
- CJ 3720 Finger Print Examination II (3.0)
- CJ 3740 Finger Print Examination III (3.0)
- CJ 3780 Bloodstain Pattern Analysis (3.0)
- CJ 3800 Computer Forensics and Cyber Crime (3.0)
- CJ 3820 Crime Scene Investigation Techniques I (3.0)
- CJ 382L Crime Scene Investigation Techniques Laboratory I (1.0)
- CJ 3850 Marijuana Identification Certificate (3.0)
- CJ 3860 Forensic Microscopy (3.0)
- CJ 4400 Forensic Chemistry (3.0)
- Or other Courses in consultation with the Department Academic Advisor

### Emphasis in Professional Chemistry 42 Credits

<table>
<thead>
<tr>
<th>Emphasis Requirements: 33 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>• CHEM 3060 Physical Chemistry I 4.0</td>
</tr>
<tr>
<td>• CHEM 3070 Physical Chemistry II 4.0</td>
</tr>
<tr>
<td>• CHEM 3115 Physical and Inorganic Chemistry Laboratory 1.0</td>
</tr>
<tr>
<td>• CHEM 3210 Chemistry Literature 1.0</td>
</tr>
<tr>
<td>• CHEM 4400 Chemistry Seminar (0.5 credits, taken 4 times) 2.0</td>
</tr>
<tr>
<td>• MATH 2210 Calculus III 3.0</td>
</tr>
<tr>
<td>• MATH 2280 Ordinary Differential Equations 3.0</td>
</tr>
<tr>
<td>• PHYS 3300 Mathematical Physics 3.0</td>
</tr>
</tbody>
</table>

Complete 12 credits of upper-division CHEM courses not previously taken, with the exception of CHEM 3090. With departmental approval, up to 6 credits of upper-division courses in BIOL, GEO, MATH, or PHYS may be substituted.

### Emphasis Elective Requirements: 9 Credits

- Any courses 1000 or higher 9.0

### B5 in Chemistry/Physics Education 124 Credits

#### Matriculation Requirements:

1. Students are admitted directly to the Baccalaureate degree program in Chemistry and Physics Education upon acceptance to the Secondary Education Program.
2. Students must obtain the departmental Advisor’s signature on an approved program plan prior to enrollment in their second semester of study.
3. Students must select between chemistry and physics emphasis upon matriculation.

#### General Education Requirements: 41 Credits

<table>
<thead>
<tr>
<th>General Education Requirements:</th>
</tr>
</thead>
<tbody>
<tr>
<td>• ENGL 1010 Introduction to Writing 3.0</td>
</tr>
<tr>
<td>• ENGL 2020 Intermediate Writing—Science and Technology 3.0</td>
</tr>
<tr>
<td>• MATH 1210 Calculus I 5.0</td>
</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>Distribution Courses:</th>
</tr>
</thead>
<tbody>
<tr>
<td>• PHIL 2050 Ethics and Values 3.0</td>
</tr>
<tr>
<td>• HLTH 1100 Personal Health and Wellness (2.0) or PES 1097 Fitness for Life 2.0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Distribution Courses:</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Biology 3.0</td>
</tr>
<tr>
<td>• CHEM 1210 Principles of Chemistry I 4.0</td>
</tr>
<tr>
<td>• CHEM 1215 Principles of Chemistry I Laboratory 1.0</td>
</tr>
<tr>
<td>• CHEM 1220 Principles of Chemistry II 4.0</td>
</tr>
<tr>
<td>• CHEM 1225 Principles of Chemistry II Laboratory 1.0</td>
</tr>
<tr>
<td>• Humanities 3.0</td>
</tr>
<tr>
<td>• Fine Arts 3.0</td>
</tr>
<tr>
<td>• Social/Behavioral Science 3.0</td>
</tr>
</tbody>
</table>

### Discipline Core Requirements: 83 Credits

<table>
<thead>
<tr>
<th>Discipline Core Requirements:</th>
</tr>
</thead>
<tbody>
<tr>
<td>• CHEM 2100 Organic Chemistry I 4.0</td>
</tr>
<tr>
<td>• CHEM 2320 Organic Chemistry II 4.0</td>
</tr>
<tr>
<td>• CHEM 2315 Organic Chemistry I Laboratory 1.0</td>
</tr>
<tr>
<td>• CHEM 2325 Organic Chemistry II Laboratory 1.0</td>
</tr>
<tr>
<td>• CHEM 3000 Analytical Chemistry 4.0</td>
</tr>
<tr>
<td>• CHEM 4200 Teaching Methods in Science 3.0</td>
</tr>
<tr>
<td>• HIST 4320 History of Scientific Thought 3.0</td>
</tr>
<tr>
<td>• MATH 1220 Calculus (3.0) 5.0</td>
</tr>
<tr>
<td>• MATH 2210 Calculus III 3.0</td>
</tr>
<tr>
<td>• PHYS 2210 Physics for Scientists and Engineers I 4.0</td>
</tr>
<tr>
<td>• PHYS 2215 Physics for Scientists and Engineers I Lab 1.0</td>
</tr>
<tr>
<td>• PHYS 2220 Physics for Scientists and Engineers II 4.0</td>
</tr>
<tr>
<td>• PHYS 2225 Physics for Scientists and Engineers II Lab 1.0</td>
</tr>
<tr>
<td>• PHYS 3010 Physics Experiments for Secondary Education 1.0</td>
</tr>
<tr>
<td>• PHYS 3740 Modern Physics 3.0</td>
</tr>
</tbody>
</table>

**Education Courses:**

- EDS 2540 Development of the Adolescent Student 2.0
- EDS 3000 Educational Psychology 3.0
- EDSD 3050 Foundations of American Education 2.0
- EDSD 3250 Instructional Media 2.0
- EDSC 4200 Classroom Management I 1.0
- EDSC 4250 Classroom Management II 1.0
- EDSC 4440 Content Area Reading and Writing 3.0
- EDSD 4450 Multicultural Instruction/ESL 2.0
- EDSC 4550 Secondary Curriculum Instruction and Assessment 4.0
- EDSC 4450 Student Teaching—Secondary (4.0) 8.0
- EPS 3400 Exceptional Students 2.0

Complete one of the following sets:

**CHEMISTRY: **

- CHEM 3060 Physical Chemistry I (4.0)
- CHEM 3100 Advanced Inorganic Chemistry (4.0)
- PHYS 3050 Astrophysics (3.0)

**PHYSICS: **

- PHYS 3210 Introduction to Experimental Physics I (2.0)
- PHYS 4900 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. Completion of a minimum of 124 semester credits with a minimum of 40 upper-division credits.
2. Overall grade point average of 2.0 (C) or above with a minimum of 2.25 in Major.
3. Residency hours – minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. A minimum of 52 credit hours must be in the major with a minimum of 20 credits taken at UVU. A minimum of 24 chemistry and physics credits must be upper-division.
6. Complete all chemistry 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.

Footnotes:

* Must be repeated two times.

### Minor in Chemistry 27 Credits

#### Matriculation Requirements:

1. Admitted to a bachelor degree program at UVU

#### Discipline Core Requirements: 24 Credits

- CHEM 1210 Principles of Chemistry I 4.0
- CHEM 1220 Principles of Chemistry II 4.0
- CHEM 1215 Principles of Chemistry I Laboratory 1.0
- CHEM 1225 Principles of Chemistry II Laboratory 1.0
- CHEM 2310 Organic Chemistry I 4.0
- CHEM 2320 Organic Chemistry II 4.0
- CHEM 2315 Organic Chemistry I Laboratory 1.0
- CHEM 2325 Organic Chemistry II Laboratory 1.0
- CHEM 3000 Analytical Chemistry 4.0

#### Elective Requirements: 3 Credits

- Any upper-division chemistry class numbered above 3000 with a minimum of 3 credit hours

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**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: Mike Jensen
Office: LC 208
Telephone: 801-863-7090

Assistant Chair: Chris Goslin
Office: LC 234
Telephone: 801-863-6558

Academic Director
Center for Student Success: Lisa Lambert
Office: LC 211
Telephone: 801-863-8741

Assistant Director, UV Mentors:
Marinda Ashman
Office: LC 212
Telephone: 801-863-7227

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

Advisor, Career and Academic Counseling:
Office: WB 147
Telephone: 801-863-8425

Department Assistant:
TBA
Office: LA 207a
Telephone: 801-863-8834

University College
Dean: Bonnie G. Henrie
Office: LA 210c
Telephone: 801-863-8311

Associate Dean: K.D. Taylor
Office: LA 210e
Telephone: 801-863-8949

Assistant Dean: Michelle Kearns
Office: LA 210d
Telephone: 801-863-6746

Administrative Assistant:
Office: LA 210
Telephone: 801-863-6712

ACADEMIC OPPORTUNITIES
The department mission is to guide students to increase self-awareness, develop confidence in their ability to think and read critically, and study effectively. In partnership with Student Life and Student Services, the department provides support to students during their transition into the UVU community and assists students in their discovery of a major and a career path for their college experience and beyond. Students may choose from a variety of College Success and Critical Thinking and Reading Strategies 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, development of effective ways to manage time, learning, and stress, library research techniques, and the development of other essential life skills. The Critical Thinking and Reading Strategies courses teach students to effectively process, reduce, and remember the essentials from college courses and texts. 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
Learning Strategist: Gary Sauter
Office: LA 221p
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

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

Faculty:  
Associate Professor  
Cris Boggess  
Don Wilson  
Assistant Professor  
Vern Hiatt

Advisor: Carrie Peterson  
Office: CS 635  
Telephone: 801-863-7454

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

Advisory Committee: Dave Adams, David Adams  
Classic Auto Repair; Russel Nichols, Cascade Collision; Sergio Martin, Martins Collision Repair; Kevin Payne, State Farm; Steve Young, PPG Collision Representative.

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

CAREER OPPORTUNITIES

The collision repair industry offers a wide variety of career paths. The industry offers positions in auto body repair, PBE (paint, body, and equipment) sales and training, manufacturer representation, insurance businesses, jobber sales, and instructor training. Graduates may choose a career emphasis in: refinishing, surface preparation, estimating, management, quality control, production, structural repair, damage analysis, glass installation, panel fabrication, customization, nonstructural repair, sales, and instruction.

PROGRAMS

Four options are available: a One-Year Certificate, a Diploma, the Associate in Applied Science Degree, and the Bachelor of Science in Technology Management Degree. See graduation requirements in the catalog for further definitions. Reminder: An overall grade point average of 2.0 (C) or above is required for graduation.

Certificate in Collision Repair Technology  

Discipline Core Requirements: 31 Credits

Complete the following:
- AUT 1260 Tech Math for Mechanics 3.0
- ENGL 106A Career Writing for Technology—A 2.0
- Any approved Behavioral Science, Social, or Political Science Distribution Course
- AUT 116L Automotive Electrical Systems Lab 1.0
- AUT 2240 Automotive HVAC 2.0
- AUT 224L Automotive HVAC Lab 1.0
- CRT 1110 Surface Preparation 1.0
- CRT 1120 Nonstructural Repair 1.0
- CRT 113L Overall Refinishing and Problem Solving Lab 1.0
- CRT 1140 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 285R Cooperative Correlated Class* (1.0)
- CRT 299R VICA (optional) (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  

Discipline Core Requirements: 55 Credits

Complete the following:
- AUT 1260 Tech Math for Mechanics 3.0
- ENGL 106A Career Writing for Technology—A 2.0
- Any approved Behavioral Science, Social, or Political Science Distribution Course
- AUT 116L Automotive Electrical Systems Lab 1.0
- AUT 2240 Automotive HVAC 2.0
- AUT 224L Automotive HVAC Lab 1.0
- CRT 1110 Surface Preparation 1.0
- CRT 1120 Nonstructural Repair 1.0
- CRT 113L Overall Refinishing and Problem Solving Lab 1.0
- CRT 1140 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 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 Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)

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

Emphasis in Collision Repair  

Discipline Core Requirements: 24 Credits

Complete the following:
- 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

Emphasis in Street Rod  

Discipline Core Requirements: 24 Credits

Complete the following:
- 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 2400 Plastic Paintless Dent Repair 2.0
- CRT 240L Plastic Paintless Dent Repair Lab 1.0
- CRT 2440 Mechanical Advanced Vehicle Systems
- CRT 244L Mechanical Advanced Vehicle Systems Lab
- CRT 2450 Baga Brakes Steering 2.0
- CRT 245L Baga 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  

Emphasis Requirements: 24 Credits

Complete one of the following:
- 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 2400 Plastic Paintless Dent Repair 2.0
- CRT 240L Plastic Paintless Dent Repair Lab 1.0
- CRT 2440 Mechanical Advanced Vehicle Systems
- CRT 244L Mechanical Advanced Vehicle Systems Lab
- CRT 2450 Baga Brakes Steering 2.0
- CRT 245L Baga Brakes Steering Lab 1.0
- CRT 2630 Detailing and Custom Painting 2.0
- CRT 263L Detailing and Custom Painting Lab 1.0

AAS in Collision Repair Technology  

General Education Requirements: 64 Credits

Complete the following:
- ENGL 1060 Career Writing for Technology (or Environment Course (Departments may require a higher GPA.))
- AUT 1260 Tech Math for Mechanics 3.0
- Any approved Humanities, Fine Arts, or Foreign Language Distribution Course
- Any approved Behavioral Science, Social, or Political Science Distribution Course
- Any approved Biology or Physical Science Distribution Course
- Any approved Physical Education, Health, Safety or Environment Course

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 Automotive HVAC 2.0
- AUT 224L Automotive HVAC Lab 1.0
- CRT 1110 Surface Preparation 2.0
- CRT 1120 Nonstructural Repair 2.0
- CRT 1130 Overall Refinishing and Problem Solving 2.0
- CRT 113L Overall Refinishing and Problem Solving Lab 1.0
- CRT 1140 Panel Replacement and Adjustment Lab 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 285R Cooperative Correlated Class* (1.0)
- CRT 285R Cooperative Correlated Class* (1.0)
- CRT 289R 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 25 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 210 Collision Damage Reporting 2.0
- CRT 21L Collision Damage Reporting Lab 1.0
- CRT 220 Structural Damage Analysis 2.0
- CRT 22L Structural Damage Analysis Lab 1.0
- CRT 230 Structural Repair 2.0
- CRT 23L 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 240 Full and Partial Panel Replacement 2.0
- 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 2540 Panel Fabrication of Aluminum 2.0
- CRT 254L Panel Fabrication of Aluminum Lab 1.0
- CRT 2600 Panel Fabrication of Aluminum 2.0
- CRT 260L Panel Fabrication of Aluminum 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 Panel Fabrication of Aluminum 2.0
- CRT 263L Panel Fabrication of Aluminum 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
- CRT 2660 Panel Fabrication of Aluminum 2.0
- CRT 266L Panel Fabrication of Aluminum Lab 1.0
- CRT 2650 Automotive Interior Design 2.0
- CRT 265L Automotive Interior Design 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

**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 Automotive HVACR 2.0
- AUT 224L Automotive HVACR Lab 1.0
- CRT 1110 Surface Preparation 2.0
- CRT 111L Surface Preparation Lab 1.0
- CRT 1120 Nonstructural Repair 2.0
- CRT 112L Nonstructural Repair Lab 1.0
- CRT 1130 Overall Refinishing and Problem Solving 2.0
- CRT 113L Overall Refinishing and Problem Solving Lab 1.0
- CRT 1140 Panel Replacement and Adjustment 2.0
- CRT 114L Panel Replacement and Adjustment Lab 1.0
- CRT 1210 Blending Tinting and Detailing 2.0
- CRT 121L Blending Tinting and Detailing Lab 1.0
- CRT 1220 Welding and Cutting 2.0
- CRT 122L Welding and Cutting Lab 1.0
- CRT 2100 Collision Damage Reporting 2.0
- CRT 210L Collision Damage Reporting Lab 1.0
- CRT 220 Structural Damage Analysis 2.0
- CRT 222L Structural Damage Analysis Lab 1.0
- CRT 230 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
The Committee on Interdisciplinary Studies provides a framework for supporting innovative, boundary-crossing inquiry among students and faculty across campus. To this end Committee on Interdisciplinary Studies coordinates the efforts of existing multidisciplinary programs and provides guidance and support as new programs are envisioned and established.

The boundaries between disciplines form a fertile ground for creative and innovative research. New knowledge grows in these fields that often does not fit easily into the standard demarcations of academic departments. This type of scholarship asks questions that draw on established bodies of thought while reworking certain connections and concerns in order to explore vibrant and valuable new areas.

**AMERICAN INDIAN STUDIES**

**Coordinator:** David R. Wilson  
Office: LA 012t  
Telephone: 801-863-6916  
Email: wilsondr@uvsc.edu

**Notes:**
- The American Indian Studies minor will provide 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**  
  **Credits:** 18

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

**Discipline Core Requirements:** 18 Credits
- Complete four of the following: 12.0
  - ANTH 180G Introduction to American Indian Studies (3.0)
  - or HIST 180G Introduction to American Indian Studies (3.0)
  - or PSY 010 Statistics for the Behavioral Sciences (3.0)
  - or SOC 400 Introduction to Program Evaluation (3.0)
  - or SOC 4020 Survey Research Design (0.0)
  - or SOC 4021 Qualitative Research Methods (3.0)
  - or SOC 410 Psychological Anthropology (0.0)
  - or SOC 4120 Social Inequality (3.0)
  - or SOC 4150 Community Health Program Development and Evaluation (3.0)
  - or SOC 4200 Principles of Community Health (3.0)
  - or SOC 450R Community-Based Participatory Research (3.0)
  - or SOC 4600 Contemporary American Indian Politics and Social Issues (3.0)
  - or SOC 4740 The Struggle for Self-Determination—American Indians 1891-present (3.0)
  - or SOC 490 Introduction to Archaeology (3.0)
  - or PSY 010 Statistics for the Behavioral Sciences (4.0)
  - or PSY 020 Research Methods for the Behavioral Sciences (3.0)
  - or PSY 400 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.
- 12 credits counting towards the minor through attendance at UVU.

**AMERICAN STUDIES**

**Coordinator:** Robert Cousins  
Office: LA 114n  
Telephone: 801-863-8571  
E-mail: robert.cousins@uvsc.edu

**Notes:**
- Complete two of the following: 6.0
  - ANTH 3100 Anthropology of Gender and Sexuality (3.0)
  - ANTH 3130 Gender and Biomedicine (3.0)
  - ANTH 3150 Culture Ecology and Health (3.0)
  - or HIST 2150 Introduction to American Indian History (3.0)
  - or PSY 010 Statistics for the Behavioral Sciences (3.0)
  - or SOC 410 Psychological Anthropology (0.0)
  - or SOC 4120 Social Inequality (3.0)
  - or SOC 4150 Community Health Program Development and Evaluation (3.0)

**Faculty:**
- Professor: William Cobb
- Robert Robbins
- Associate Professor: Lyn Bennett
- Robert Cousins
- Philip Gordon
American Studies is 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 the knowledge and skills they are mastering as part of their major from the perspective of other 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—an additional course of study that will help them to balance the focus of a traditional discipline with the fresh insights and breadth of interdisciplinary approaches.

Minor in American Studies 21 CREDITS
Matriculation Requirements:
1 Completion of 30 hours of credit.
2 Admitted to a bachelor degree program at UVU.

Discipline Core Requirements: 12 Credits
• AMST 2000 Introduction to American Studies 3.0
• AMST 300R Topics in American Studies (3 credits, must be repeated) (3.0)
• INST 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.

**DEAF STUDIES**

Coordinator: Bryan Eldredge
Office: LA 003j
Telephone: 801-863-8529 voice/videophone
E-mail: eldredbr@uvsc.edu

Faculty Committee:
Associate Professor
Flavia Fleisher
Will Garrow

Assistant Professor
Dale H. Boam

Advisor: Laura Shelley
Office: LA 013
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E-mail: shellela@uvsc.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 21 CREDITS**

Matriculation Requirements:
1 Declaration of a major in a bachelor degree program at UVU
2 Completion of ASL 2020 or equivalent

Discipline Core Requirements: 21 Credits
Complete the following:
- ASL 3050 Advanced American Sign Language (.0)
- ASL 3530 Deaf Culture from 1970 (.0)
- ASL 3610 ASL Literature (.3)
- 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: David R. Keller
Office: LA 109b
Telephone: 801-863-6363
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Faculty Committee:
Professor
Elaine Englehardt
Kathryn French
Larry Harper
Jim Harris
David R. Keller
Paul Taylor

Associate Professor
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Eddy Cadet
Lowell Glenn
Phil Gordon
Laura Hamblin
Daniel Homs

Environmental Studies is an interdisciplinary discipline which explores the complex relationships between nature and culture. Environmental Studies is premised on the idea that culture is linked to nature, and that nature is linked to culture. Environmental Studies challenges students to examine both the ecological and social underpinnings of environmental issues and the complex interactions between natural and social systems, from local to global scales. Since humans are integral parts of ecological systems, an understanding of the biosphere must include studies in both the humanities and natural science. Knowledge of the structure and function of natural systems is crucial, as well as an understanding of the ways culture affects the way we perceive nature. In this way, Environmental Studies is built upon the liberal arts.

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 work for government agencies at local, state, and federal levels. Tens of thousands of jobs become available in both the public and private sectors.

An emphasis in Environmental Studies is also available. See Integrated Studies for details.

**Minor in Environmental Studies 18 CREDITS**

Matriculation Requirements:
1 Completion of 30 hours of credit
2 Admitted to a bachelor degree program at UVU

Discipline Core Requirements: 9 Credits
• ENST 3000 Introduction to Environmental Studies 3.0

Elective Requirements: 9 Credits
Electives (15 credit hours). Complete 5 of the following 15.0 courses of 4 different from at least 2 different Colleges/Schools:
- College of Humanities and Social Sciences
  - ANTH 3150 Culture Ecology and Health (3.0)
  - HILTH 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)

E-mail: hetzelly@uvsc.edu
Office: LA 109f
Telephone: 801-863-6485

Committee on Interdisciplinary Studies

- GEOG 3010 Economic Geography (3.0)
- GEOG 3610 Environmental History of the United States (3.0)
- HIST 3260 History of Utah (3.0)
- HIST 4330 Machines in the Making of History (3.0)
- HIST 4620 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)
- HLTH 3150 Culture Ecology and Health (3.0)
- BIOL 1010 General Biology (3.0)
- BIOL 2500 Environmental Biology (3.0)
- BIOL 3800 Conservation Biology (3.0)
- BIOL 4600 Principles of Evolution (3.0)
- ENVT 3850 Environmental Policy (3.0)
- GEO 1220 Historical Geology (3.0)
- GEO 3210 Environmental Geology (4.0)
- METO 3310 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

GEENDER STUDIES
Coordinator: Shannon M. Mussett
Office: LA 121v
Telephone: 801-863-6264
Email: shannon.mussett@uvsc.edu

Faculty Committee:
Professor
Jons Wager
Associate Professor
Lyn Bennett
Bryan Eldredge
Laura Hamblin
Bonnie Kyburz
Karen Mizell
Christine Weigel
Jan Wellington
Assistant Professor
John Goshert
Numari Kunakemakorn
Shannon M. Mussett
Joylin Namie
Michael Marx Shaw
Ryan Simmons

Advisor: Lynne Hetzel
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The Gender Studies minor allows students to study the extent to which gender and gender relations are socially influenced. Students will examine the ways in which conceptions of masculinity and femininity directly impact social and political institutions and practices, cultural expressions (such as art, communication, media, literature, music, and film), law, education, business, scientific inquiry, interpersonal relations, sexuality and family. As an interdisciplinary program, the Gender Studies minor encourages students to examine gender from multiple academic perspectives. As such, the minor broadens students’ understanding of their chosen major and career path while facilitating the recognition of gender dynamics in their own lives.

Minors in Gender Studies 18 CREDITS

Matriculation Requirements: 1 Completion of 30 hours of credit

Discipline Core Requirements: 9 Credits
- ENGL 2730 Introduction to Gender Studies 3.0
- ENGL 473R Topics in Gender Studies 3.0
- INST 4900 Interdisciplinary Studies Capstone 3.0

PEACE AND JUSTICE STUDIES
Coordinator: Michael Minch
Office: LA 121J
Telephone: 801-863-7482
E-mail: minchmi@uvsc.edu

Faculty Committee:
Professor
William Cobb
Kathryn French
Robert Robbins
Associate Professor
Lyn Bennett
Jill Jasperson
Michael Minch
Assistant Professor
Stephen Gibson
Jeff Torlina

Advisor: Lynne Hetzel
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E-mail: hetzelly@uvsc.edu

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

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.

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 Colleges/Schools

College of Humanities and Social Sciences
- ANTH 3150 Culture Ecology and Health (3.0)
- HLTH 3150 Culture Ecology and Health (3.0)
- COMM 3130 The Culture of Nature and Technology (3.0)
- ENST 3520 Environmental Psychology (3.0)
- PSY 3520 Environmental Psychology (3.0)
- ENVT 3530 Introduction to Geographic Information Systems (4.0)
- GEOG 3530 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 4330 Machines in the Making of History (3.0)
- HIST 4620 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)
- HLTH 3150 Culture Ecology and Health (3.0)
- BIOL 1010 General Biology (3.0)
- BIOL 2500 Environmental Biology (3.0)
- BIOL 3700 General Ecology (3.0)
- BIOL 3800 Conservation Biology (3.0)
- BIOL 4500 Principles of Evolution (3.0)
- ENVT 3280 Environmental Law (3.0)
- ENVT 3850 Environmental Policy (3.0)
- GEO 1220 Historical Geology (3.0)
- GEO 3210 Environmental Geology (4.0)
- METO 3310 Climate and the Earth System (3.0)
- Any other advisor-approved courses

METO 100 Climate and the Earth System (4.0)
ENVT 850 Environmental Policy (2.0)
ENVT 280 Environmental Law (2.0)
ENST 520 Environmental Psychology (2.0)
COMM 10 The Culture of Nature and Masculinity and Femininity (2.0)
ANTH 100 Anthropology of Gender and Sexuality (2.0)
SOC 4500 Environmental Sociology (2.0)
POL 450 Machines in the Making of History (2.0)
HIST 4000 History of the American West (2.0)
HIST 800 Environmental History of the United States (2.0)
ENVT 600 Introduction to Geographic Information Systems (2.0)
INST 4900 Interdisciplinary Studies Capstone (2.0)
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 interrogated across the same range of inquiry. Because matters of peace and justice are of perennial- and perhaps growing-concern, students who earn a Peace and Justice Studies minor will place themselves in a multi-faceted market of career opportunities including law, social work, counseling, mediation and conflict resolution, development, diplomacy, nonprofit management, education, various forms of government employment, and more.

Minor in Peace and Justice Studies 21 CREDITS

Matriculation Requirements:
- Admitted to a bachelor’s degree program at UVU

Discipline Core Requirements: 6 Credits
- INST 4900 Interdisciplinary Studies Capstone (.0)
- PJST 3000 Introduction to Peace and Justice Studies (.0)

Elective Requirements: 15 Credits
Complete 15 credits, at least one course from each of the following areas (additional courses may be substituted upon advisor approval):
- PJST 3020 The Ethics of War and Peace (.0)
- HIST 4300 Violence and Social Conflict in Latin America (.0)
- HIST 385G The Struggle for Self-determination—American Indians 1851-present (.0)
- HIST 4130 Anti-Semitism and the Holocaust (.0)
- HIST 3520 The United States and Vietnam--1945 to Present (.0)
- HIST 3540 History of South Africa (.0)
- HIST 3430 Middle East History--1914-Present (.0)
- HIST 4140 Genocide in the Twentieth Century (.0)
- POLS 3100 Survey of International Terrorism (.0)

Justice:
- ANTH 4180 Power Economy and People (.0)
- CJ 4160 Constitutional Rights and Responsibilities (.0)
- CJ 4200 Ethical Issues in Criminal Justice (.0)
- CJ 4700 Comparative Criminal Justice Systems (.0)
- HIST 3800 Environmental History of the United States (.0)
- HIST 4600 Contemporary American Indian Political and Social Issues (.0)
- POLS 3500 International Relations of the Middle East (.0)
- POLS 3600 International Relations of East Asia (.0)
- POLS 3590 American Indian Law and Tribal Government (.0)
- PSY 3750 Child Abuse/Neglect and Domestic Violence (.0)
- SOC 3450 Environmental Sociology (.0)
- SOC 3010 Race and Minority Relations (.0)
- SOC 3460 Political Sociology (.0)
- SOC 3700 Social Inequality (.0)

Mediation/Conflict Resolution:
- ANTH 3620 Intercultural Relations (.0)
- LEGL 3410 Fundamentals of Mediation and Negotiation (.0)
- LEGL 4100 Advanced Mediation and Negotiation (.0)
- LEGL 3150 Survey of Dispute Resolution (.0)
- LEGL 4200 Domestic Mediation (.0)

Religious Studies Minor

Coordinators:
- Brian Birch
- Michael Minch
- R. Dennis Potter
- Jen Wahquist

Lecturers:
- Alex Stecker
- Kenneth White

Faculty Committee:
- Associate Professor
  - Brian Birch
  - David Knowlton
  - Michael Minch
  - R. Dennis Potter
  - Jen Wahquist
- Assistant Professor
  - Grace Chou
  - Gae Lyn Henderson

Elective Requirements: 9 Credits
Complete 9 credits of electives from the list below or as approved by advisor:
- ANTH 3460 Myth Magic and Religion (.0)
- ANTH 3450 Shamanism and Indigenous Religion (.0)
- ANTH 3460 Anthropology of Mormonism (.0)
- COMM 3780 Mormon Cultural Studies (.0)
- ENGL 374G Literature of the Sacred (.0)
- ENGL 3780 Mormon Literature (.0)
- HIST 4100 Jewish History (.0)
- PHIL 3540 Christian Ethics (.0)
- PHIL 3610 Introduction to Christian Theology (.0)
- SOC 3400 Sociology of Religion (.0)

See Course Descriptions section of the catalog for detailed course information. This department manages the following course prefixes:
- AMST, American Studies
- ENST, Environmental Studies
- INST, Interdisciplinary Studies
- PJST, Peace and Justice Studies

Religious Studies Minor 21 CREDITS

Matriculation Requirements:
- Admitted to a bachelor’s degree program at UVU
- Completion of 30 hours of credit.
- Admitted to a bachelor’s degree program at UVU

Discipline Core Requirements: 12 Credits
- PHIL 1610 Introduction to Western Religions (.0)
- or PHIL 1620 Introduction to Eastern Religions (.0)
- or ANTH 3450 Shamanism and Indigenous Religion (.0)
- RLST 3650 Approaches to Religious Studies (.0)
- RLST 366R Issues in Religious Studies (.0)

Philosophy and Religion:
- PHIL 3530 Environmental Ethics (.0)
- PHIL 3540 Christian Ethics (.0)
- PHIL 3700 Social and Political Philosophy (.0)
- PHIL 3150 Philosophical Issues in Feminism (.0)

Religious Studies

Coordinators:
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Faculty Committee:
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  - Brian Birch
  - David Knowlton
  - Michael Minch
  - R. Dennis Potter
  - Jen Wahquist
- Assistant Professor
  - Grace Chou
  - Gae Lyn Henderson

Lecturers:
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- Kenneth White

Advisor: Lynne Hetzel
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The Religious Studies Program is 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.
Communication

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Communication Administrative Assistant:
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Office: LA 209d
Interim Dean: David P. Yells
Telephone: 801-863-7435

Faculty:
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David Litchford
Associate Professor
Philip Gordon Jingdong Liang
Assistant Professor
Scott Carrier Janet W. Colvin Roger Gunn Sriprya Rangarajan
Lecturer
David Scott

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

PROGRAM DESCRIPTION
The mission of the Department of Communication is to help students prepare for careers that demand skills in oral, written, and visual communication in interpersonal, organizational, print, and electronic contexts. 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 Communication Theory and Practice. 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
Virtual 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 60 Credits

General Education Requirements: 35 Credits

• ENGL 1010 Introduction to Writing (3.0)
• ENGL 1020 Intermediate Writing—Humanities/ Social Sciences (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)

Complete the following:

• PHIL 2050 Ethics and Values (3.0)
• HLTH 1100 Personal Health and Wellness (2.0)
• PES 1097 Fitness for Life (2.0)

Distribution Courses

• Biology (3.0)
• Physical Science (3.0)
• Additional Biology or Physical Science (3.0)
• Humanities Distribution (3.0)
• Fine Arts Distribution (3.0)
• Social/Behavioral Science (3.0)

Discipline Core Requirements: 15 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 one of the following:

• COMM 2100 Mass Communication and Society (3.0)
• COMM 2120 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 2190 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 2590 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: 10 Credits

• Complete 10 credit hours of one foreign language. (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 10 credit hours of course 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 (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)

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)
• 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)

Distribution 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 2120 The News Editing Process (3.0)
• COMM 2110 Interpersonal Communication (3.0)
Graduation Requirements:

- 5 Completion of 125 credit hours through course attendance at UVU.
- 6 Completion of GE and specified departmental requirements.

Elective Requirements: 1 Credit

- Complete any course 1000 or higher
- 1.0 Graduation Requirements:
  - Completion of a minimum of 60 semester credits.
  - Overall grade point average of 2.0 (C) or above.
  - Residency hours: minimum of 20 credit hours through course attendance at UVU.
  - Completion of GE and specified departmental requirements.

BA in Communication 125 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
- MATH 1030 Quantitative Reasoning (recommended for Humanities or Arts majors) (3.0)
- MATH 1040 Introduction to Statistics (recommended for Social Science majors) (3.0)
- MATH 1050 College Algebra (recommended for Business, Education, Science, and Health Professions majors) (4.0)
- Complete one of the following:
  - HIST 1700 American Civilization (3.0)
  - HIST 2710 US History since 1877 (3.0)
- Complete one of the following:
  - COMM 1020 Public Speaking 3.0
  - COMM 1500 Introduction to Speech Communication 3.0
  - COMM 1130 Writing for the Mass Media 3.0
  - COMM 1500 Introduction to Mass Communication 3.0
  - COMM 2010 Mass Communication and Society 3.0
  - COMM 281R Internship (1.0)
  - COMM 3010 History of Mass Communication 3.0
  - COMM 3050 Theories of Communication and Culture 3.0
  - COMM 3650 Mass Media Ethics and Law 3.0
  - COMM 3700 Free Expression in a Democratic Society 3.0
  - COMM 3790 Case Studies in Journalism 3.0
  - COMM 380R Long-Format Video Journalism 3.0
  - COMM 491R Internship (1.0)
  - COMM 4930 Communication Capstone 3.0

Emphasis Requirements:

- 12 Credits

- COMM 128R Forensics (3.0)
- COMM 2120 Small Group Communication and Decision Making (3.0)
- COMM 2400 Organizational Communication (3.0)
- COMM 2560 Radio Production (3.0)
- COMM 2790 Magazine Writing (3.0)
- COMM 281R Internship (1.0)
- COMM 3010 History of Mass Communication 3.0
- COMM 3050 Theories of Communication and Culture 3.0
- COMM 3650 Mass Media Ethics and Law 3.0
- COMM 3700 Free Expression in a Democratic Society 3.0
- COMM 3790 Case Studies in Journalism 3.0
- COMM 380R Long-Format Video Journalism 3.0
- COMM 491R Internship (1.0)
- COMM 4930 Communication Capstone 3.0

Emphasis Elective Requirements: 15 Credits

- Complete 15 credits from one foreign language.

Emphasis in Communication Theory and Practice 30.0 Credits

Emphasis Requirements: 12 Credits

- COMM 128R Forensics (3.0)
- COMM 2120 Small Group Communication and Decision Making (3.0)
- COMM 2400 Organizational Communication (3.0)
- COMM 2560 Radio Production (3.0)
- COMM 2790 Magazine Writing (3.0)
- COMM 281R Internship (1.0)
- COMM 3010 History of Mass Communication 3.0
- COMM 3050 Theories of Communication and Culture 3.0
- COMM 3650 Mass Media Ethics and Law 3.0
- COMM 3700 Free Expression in a Democratic Society 3.0
- COMM 3790 Case Studies in Journalism 3.0
- COMM 380R Long-Format Video Journalism 3.0
- COMM 491R Internship (1.0)
- COMM 4930 Communication Capstone 3.0

Emphasis Elective Requirements: 18 Credits

- Choose 18 credits from the following:
  - COMM 217G Race Class and Gender in U.S. Cinema (3.0)
  - COMM 3110 Non-Fiction Cinema History (3.0)
  - COMM 3130 The Culture of Nature and Technology (3.0)
  - COMM 3150 Film Theory (3.0)

Emphasis in Journalism 30.0 Credits

Emphasis Requirements: 27 Credits

- COMM 1610 Reporting for the Mass Media 3.0
- COMM 2130 Television News Writing and Reporting 3.0
- COMM 2200 Broadcast Journalism Anchoring and Producing 3.0
- COMM 350R Special Topics in Mass Communication 3.0
- COMM 3520 Case Studies in Public Relations 3.0
- COMM 362G International Communication 3.0
- COMM 413R Advanced Television News Writing and Reporting 3.0
- COMM 479R Journalism Workshop 3.0

Emphasis Elective Requirements: 3 Credits

- Complete 3 credits from the following:
  - COMM 2100 The News Editing Process (3.0)
  - COMM 2560 Radio Production (3.0)
  - COMM 2790 Magazine Writing (3.0)
  - COMM 3110 Non-Fiction Cinema History (3.0)

Emphasis in Public Relations 30.0 Credits

Emphasis Requirements: 30 Credits

- COMM 1610 Reporting for the Mass Media 3.0
- COMM 2130 Television News Writing and Reporting 3.0
- COMM 2200 Broadcast Journalism Anchoring and Producing 3.0
- COMM 2400 Organizational Communication 3.0
- COMM 2790 Magazine Writing (3.0)
- COMM 332G Cross-Cultural Communications for International Business (3.0)
- COMM 3410 Fundamentals of Mediation and Negotiation 3.0
- COMM 3520 Case Studies in Public Relations 3.0
- COMM 362G International Communication 3.0

Emphasis in Business, Education, Science, and Health Professions majors) (4.0)

Emphasis Elective Requirements: 18 Credits

- Choose 18 credits from the following:
  - COMM 1010 Reporting for the Mass Media 3.0
  - COMM 1500 Introduction to Speech Communication 3.0
  - COMM 1130 Writing for the Mass Media 3.0
  - COMM 1500 Introduction to Mass Communication 3.0
  - COMM 2010 Mass Communication and Society 3.0
  - COMM 281R Internship (1.0)
  - COMM 3010 History of Mass Communication 3.0
  - COMM 3050 Theories of Communication and Culture 3.0
  - COMM 3650 Mass Media Ethics and Law 3.0
  - COMM 3700 Free Expression in a Democratic Society 3.0
  - COMM 3790 Case Studies in Journalism 3.0
  - COMM 380R Long-Format Video Journalism 3.0
  - COMM 491R Internship (1.0)
  - COMM 4930 Communication Capstone 3.0

Emphasis 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)
- or ENGL 2020 Intermediate Writing--Science and Technology
- Complete one of the following:
  - MATH 1030 Quantitative Reasoning (recommended for Humanities or Arts majors) (3.0)
  - MATH 1040 Introduction to Statistics (recommended for Social Science majors) (3.0)
  - MATH 1050 College Algebra (recommended for Business, Education, Science, and Health Professions majors) (4.0)
- Complete one of the following:
  - HIST 1700 American Civilization (3.0)
  - HIST 2700 US History to 1877 (3.0)
Communication

and HIST 2710 US History since 1877 (3.0)
  • HIST 1700 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/Physical Science (3.0)
  • COMM 1020 Public Speaking (Humanities) (3.0)
  • Fine Arts (3.0)
  • Social/Behavioral Science (COMM 2110: Interpersonal Communication, highly recommended) (3.0)

Discipline Core Requirements: 42 Credits
  • COMM 2110 Digital Motion Picture Essentials (3.0)
  • COMM 1050 Introduction to Speech Communication (3.0)
  • COMM 1130 Writing for the Mass Media Communication (3.0)
  • COMM 2010 Mass Communication and Society (3.0)
  • COMM 28R Journalism Internship (1.0)
  • COMM 23010 History of Mass Communication (3.0)
  • COMM 3050 Theories of Communication and Culture (3.0)
  • COMM 3600 Mass Media Ethics and Law (3.0)
  • COMM 3700 Free Expression in a Democratic Society (3.0)
  • COMM 3790 Case Studies in Journalism (3.0)
  • COMM 38000 Long-Form Video Journalism (3.0)
  • COMM 48R Internship (1.0)
  • COMM 4930 Communication Capstone (3.0)

Elective Requirements: 15 Credits
  • Complete 15 credits of electives 1000 level or higher

Graduation Requirements:
  1. Completion of a minimum of 120 or more semester credits.
  2. Overall grade point average of 2.0 (C) or above (departments may require a higher GPA).
  3. Residency hours: minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
  4. Completion of GE and specified departmental requirements.
  5. 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 Communication Theory and Practice 30.0 Credits

Emphasis Requirements: 12 Credits
Choose 12 credits from the following:
  • COMM 1290 Forensics (3.0)
  • COMM 2120 Small Group Communication and Decision Making (3.0)
  • COMM 2270 Argumentation (3.0)
  • COMM 2290 Oral Interpretation (3.0)
  • COMM 2400 Organizational Communication (3.0)
  • COMM 2560 Radio-Production (3.0)
  • AMST 2000 Introduction to American Studies (3.0)

Emphasis Elective Requirements: 18 Credits
Choose 18 credits from the following:
  • COMM 217G Race Class and Gender in U.S. Cinema (3.0)
  • COMM 3110 Non-Fiction Cinema History (3.0)
  • COMM 3130 The Culture of Nature and Technology (3.0)
  • COMM 3150 Film Theory (3.0)
  • COMM 3320 Cross-Cultural Communications for International Business (3.0)
  • COMM 3400 Film Theory (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 3780 Mormon Cultural Studies (3.0)
• COMM 4100 Advanced Mediation and Negotiation (3.0)
• AMST 300R Topics in American Studies (3.0)
• ENGL 3890 Contemporary Critical Approaches to Literature (3.0)
• ENGL 4010 Studies in Language (3.0)
• PHIL 3150 Philosophical Issues in Feminism (3.0)
• PHIL 3700 Social and Political Philosophy (3.0)
• PHIL 3750 Marxist Philosophy (3.0)
• PHIL 3810 Existentialism and Phenomenology (3.0)
• PHIL 4150 History of Continental Philosophy (3.0)
• PHIL 4480 Philosophy of Language (3.0)

Emphasis in Journalism 30.0 Credits

Emphasis Requirements: 27 Credits
Choose 3 credits from the following:
  • COMM 1610 Reporting for the Mass Media (3.0)
  • COMM 2130 Television News Writing and Reporting (3.0)
  • COMM 2200 Broadcast Journalism Anchoring and Producing (3.0)
  • COMM 350R Special Topics in Mass Communication (3.0)
  • COMM 3520 Case Studies in Public Relations (3.0)
  • COMM 360G International Communication (3.0)
  • COMM 413R Advanced Television News Writing and Reporting (3.0)
  • COMM 470R On-Air Broadcast Journalism (3.0)
  • COMM 479R Journalism Workshop (3.0)

Emphasis Elective Requirements: 3 Credits
Complete 3 credits from the following:
  • COMM 2100 The News Editing Process (3.0)
  • COMM 2560 Radio Production (3.0)
  • COMM 2790 Magazine Writing (3.0)
  • COMM 3110 Non-Fiction Cinema History (3.0)

Emphasis in Public Relations 30.0 Credits

Emphasis Requirements: 30 Credits
Choose 30 credits from the following:
  • COMM 1610 Reporting for the Mass Media (3.0)
  • COMM 2300 Public Relations (3.0)
  • COMM 2120 Small Group Communication and Decision Making (3.0)
  • COMM 2400 Organizational Communication (3.0)
  • COMM 2790 Magazine Writing (3.0)
  • COMM 332G Cross-Cultural Communications for International Business (3.0)
  • COMM 3410 Fundamentals of Mediation and Negotiation (3.0)
  • COMM 3520 Case Studies in Public Relations (3.0)
  • COMM 3630 Public Relations Writing (3.0)
  • COMM 362G International Communication (3.0)
  • COMM 4100 Advanced Mediation and Negotiation (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 Communication 18 Credits

Emphasis Requirements: 18 Credits
Complete one of the following tracks:
  • TRACK ONE: THEORY AND PRACTICE
  • TRACK TWO: JOURNALISM AND PUBLIC RELATIONS

See Course Descriptions section of the catalog for detailed course information. This department manages the following course prefixes:
  - COMM, Communication
The 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 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

<table>
<thead>
<tr>
<th>General Education Requirements</th>
<th>35 Credits</th>
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<tbody>
<tr>
<td>ENGL 1010 Introduction to Writing</td>
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</tr>
<tr>
<td>ENGL 2010 Intermediate Writing--Humanities/ Social Sciences</td>
<td>3.0</td>
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<tr>
<td>or ENGL 2020 Intermediate Writing--Science and Technology (3.0)</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) (3.0)</td>
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<tr>
<td>MATH 1040 Introduction to Statistics (recommended for Social Science majors) (3.0)</td>
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<tr>
<td>MATH 1050 College Algebra (recommended for Business, Education, Science, and Health Professions majors) (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>
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<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 PES 1097 Fitness for Life (2.0)</td>
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<td>Biology</td>
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<td>Social/Behavioral Science</td>
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<td>ENV 1110 Introduction to Environmental Management (3.0)</td>
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<tr>
<td>ENV 1200 Environmental Worker Safety (3.0)</td>
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<td>ENV 2560 Environmental Health (3.0)</td>
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<td>HLTH 1500 Medical Terminology I (2.0)</td>
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<tr>
<td>NUTR 2200 Nutrition Through the Life Cycle (3.0)</td>
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<td>HLTH 2300 Medical Terminology II (2.0)</td>
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<td>HLTH 2200 Introduction to Health Professions (2.0)</td>
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<td>HLTH 3240 Womens Health Issues (3.0)</td>
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<td>or PES 2700 Foundations of Physical Education (3.0)</td>
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<td>HLTH 2400 Concepts of Stress Management</td>
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<td>HLTH 2800 Human Sexuality</td>
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<td>or PSY 1100 Human Development Life Cycle (3.0)</td>
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<td>Same Foreign Language (1010 and 1020)</td>
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### 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 though course attendance at UVU.
4. Completion of GE and specified departmental requirements.
5. For the AA degree, completion of 10 credit hours of course work from one language.

#### AS Pre Major in Community Health

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<tr>
<td>PSY 2250 Psychology of Interpersonal Relationships</td>
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</table>
BS in Community Health 120 CREDITS

General Education Requirements: 35 Credits
- ENGL 1010 Introduction to Writing 3.0
- ENGL 2010 Intermediate Writing—Humanities/ Social Sciences 3.0
- or ENGL 2020 Intermediate Writing—Science and Technology (3.0)
- Complete one of the following: 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 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 260 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 (HLTH 2800 recommended) 3.0

Discipline Core Requirements: 18 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 Multidisciplinary Health Behavior 3.0
- HLTH 3400 Human Diseases 3.0
- HLTH 4050 Foundations of Health Education 3.0

Emphasis:
Complete one of the following:
- Community Health Education 67 Credits
- Health Services Administration 67 Credits

Graduation Requirements:
- 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.
- A minimum of 34 credit hours must be in the major with a minimum of 20 credits taken at UVU. A minimum of 20 Health credits must be upper-division.
- Complete the following courses with a minimum grade of C- or better: HLTH 3200, HLTH 4050, and all Emphasis Courses.
- Overall grade point average of 2.25 or above with a minimum GPA of 2.5 in Major and Minor courses.
- 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.

Emphasis in Community Health Education 67 Credits

Emphasis Requirements:
- NUTR 1020 Foundations of Human Nutrition 3.0
- HLTH 2510 Media and Computer Applications in Health 3.0
- HLTH 2600 Drugs Behavior and Society 3.0
- HLTH 3600 Grant Writing 3.0
- HLTH 3800 Epidemiology 3.0
- HLTH 4150 Community Health Program 3.0
- HLTH 4300 Development and Evaluation 3.0
- HLTH 4600 Research Methods for Community Health 3.0
- HLTH 4700 Capstone 3.0
- HLTH 482R Community Health Internship (2.0) 6.0
- HLTH 483R International Health Education Internship 6.0

Emphasis Elective Requirements: 34 Credits
Complete 12 credits of the following: at least 6 of which 12 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 Women’s 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 4440G Community Diversity (3.0)
- HLTH 490R Special Topics in Community Health (1.0)
- NUTR 2020 Nutrition Through the Life Cycle (3.0)

Complete 22 credits of any courses 1000 or higher (22.0 (minor)).

Emphasis in Health Services Administration 67 Credits

Emphasis Requirements:
- HLTH 3300 Health Promotion for Older Adults 3.0
- HLTH 3500 Epidemiology 3.0
- HLTH 3700 Social Work 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 482R Community Health Internship (2.0) 6.0
- or HLTH 483R International Health Education Internship (2.0)

- ECON 2020 Macroeconomics 3.0
- MGMT 2200 Business Communications 3.0
- MGMT 2240 Foundations of Business Statistics 3.0
- MGMT 2390 Effective Business Presentations 3.0
- MGMT 3010 Principles of Management 3.0
- MGMT 3430 Human Resource Management 3.0
- MGMT 3800 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 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: 3.0
- HIST 2700 US History to 1877 (3.0)
- or HIST 2710 US History since 1877 (3.0)
- HIST 1700 American Civilization (3.0)
- HIST 1740 US Economic History (3.0)
- 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: 68 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 Multidisciplinary Health Behavior 3.0
- HLTH 3400 Human Diseases 3.0
- HLTH 4050 Foundations of Health Education 3.0
- POLS 1200 First Aid 2.0
- HLTH 2400 Concepts of Stress Management 3.0
- HLTH 2800 Human Sexuality 3.0
- HLTH 2600 Drugs Behavior and Society 3.0
- HLTH 4100 Health Education Curriculum for Secondary Teachers 3.0
- HLTH 4200 Health Education Teaching Methods 3.0

Secondary Education Courses:
- EDSD 2540 Development of the Adolescent Student 2.0
- EDSD 3000 Educational Psychology 3.0
- EDSD 3050 Foundations of American Education 2.0
- EDSD 3250 Instructional Media 2.0
- EDSD 4200 Classroom Management I 1.0
- EDSD 4250 Classroom Management II 1.0
- EDSD 4440 Content Area Reading and Writing 3.0
- EDSD 4450 Multicultural Instruction/ESL 2.0
- EDSD 4550 Secondary Curriculum Instruction and Assessment 4.0
- EDSD 4850 Student Teaching—Secondary (4.0) 8.0
- EDSD 3400 Exceptional Students 2.0

Elective Requirements: 18 Credits
Complete a Secondary Education approved Minor 18.0

Graduation Requirements:
- Completion of a minimum of 122 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.
- A minimum of 34 credit hours must be in the major with a minimum of 20 credits taken at UVU. A minimum of 20 Health credits must be upper-division.
- Complete the following courses with a minimum grade of C- or better: HLTH 3200, HLTH 4050, and all Emphasis Courses.
- Overall grade point average of 2.25 or above with a minimum GPA of 2.5 in Major and Minor courses.
- 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 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
- HLT 2600 Drugs Behavior and Society 3.0
- HLT 2800 Human Sexuality 3.0
- HLT 3200 Principles of Community Health 3.0
- HLT 3260 Modifying Health Behavior 3.0
- HLT 4050 Foundations of Health Education 3.0

Elective Requirements: 3 Credits
Any upper-division HLT 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
- HLT 2600 Drugs Behavior and Society 3.0
- HLT 2800 Human Sexuality 3.0
- HLT 3200 Principles of Community Health 3.0
- HLT 3260 Modifying Health Behavior 3.0
- HLT 4050 Foundations of Health Education 3.0
- HLT 4100 Health Education Curriculum for Secondary Teachers

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:
- HLT 3200 Principles of Community Health 3.0
- HLT 4050 Foundations of Health Education 3.0
- HLT 3400 Human Diseases 3.0
- HLT 3800 Epidemiology (3.0) or HLT 4300 Community Health Ethics (3.0) or HLT 4600 Research Methods for Community Health

Choose 6 credits from the following:
- NUTR 1020 Foundations of Human Nutrition (3.0)
- NUTR 2020 Nutrition Through the Life Cycle (3.0)
- HLT 2400 Concepts of Stress Management (3.0)
- HLT 2800 Human Sexuality (3.0)
- HLT 2600 Drugs Behavior and Society (3.0)
- HLT 3000 Health Concepts of Death and Dying (3.0)
- HLT 3150 Culture Ecology and Health (3.0)
- HLT 3240 Women's Health Issues (3.0)
- HLT 3250 Consumer Health (3.0)
- HLT 3260 Modifying Health Behavior (3.0)
- HLT 3330 Health Promotion for Older Adults (3.0)
- HLT 4150 Community Health Program Development and Evaluation (3.0)
- HLT 4250 Health Services Organization and Policy (3.0)
- HLT 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:
- HLT, Community Health
- NUTR, Nutrition
Computer Science

Department of Computer Science and Pre-Engineering

Department Chair: Abraham Teng
Office: CS 520J
Telephone: 801-863-6201

Administrative Support III:
Heddy Howerton
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Faculty:
Professor
Dennis Fairclough
David Heldenbrand
Keith Olson

Associate Professor
Charles Allison
Roger deBry
Brian Dunney
Kirk Love
Todd Peterson
Reza Sanati

Assistant Professor
Neil Harrison
Curtis Welborn

Advisor:
Patti Miner
Office: CS 635
Telephone: 801-863-8408

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, networking, computer engineering, and software engineering. Possible occupational areas include software engineering, software development, programming, network programming, systems analysis and design, consulting, customer support, maintaining software or networks or media systems, manufacturer’s representative, client services, software testing, database administration, web programming, web design, network management, and network engineering.

Job demand is very high in the fields of computer science, computer engineering, software engineering, and networking occupations. The employment outlook is excellent.

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 and is available 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, 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 (CAC of 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.

The Computer Science areas of specialization conform to the Association of Computing Machinery (ACM) 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. A four year Bachelor Degree is offered in Software Engineering.

In addition to regular programs, the Department also offers a variety of courses to provide skill upgrades, network administration education, 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
• CS 2810 Computer Organization and Architecture 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 Visual Basic Software Development (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 3060 Operating Systems Theory (3.0)
• CS 3280 C#-NET Software Development (3.0)
• CS 3520 Database Theory (3.0)

Graduation Requirements:
1. Completion of a minimum of 30 semester credits.
2. Minimum grade of C- required in all courses.
3. Overall grade point average of 2.0 (C) or above.
4. Residency hours -- minimum of 10 credit hours through course attendance at UVU.

Footnotes:
* Minimum grade of C- required

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 (COMM 1020 recommended) 3.0
• COMM 2110 Interpersonal Communication * 3.0
• BIOLOGY 3.0
• PHYS 2210 Physics for Scientists and Engineers (I 4.0) 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 1.0
• 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
• INFO 1910 Introduction to System Administration--Linux/UNIX 3.0
• MATH 1210 Calculus I (fulfills GE requirement) 5.0

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Emphasis Elective Requirements: 20 Credits
Complete 20 credits from the following courses (minimum grade of C- required). Must be approved by CNS Department. See CNS Advisor.

- CS 1410 Object-Oriented Programming (3.0)
- CS 2300 Discrete Structures I (3.0)
- CS 2420 Introduction to Algorithms and Data Structures (3.0)
- CS 2450 Software Engineering (3.0)
- CS 2550 Internet Programming (3.0)
- or CS 3550 Internet Software Development (3.0)
- CS 3060 Operating Systems Theory (3.0)
- CS 3520 Database Theory (3.0)
- EENG 3750 Engineering Analysis (3.0)
- EENG 3770 Signals and Systems (3.0)
- EENG 4770 Embedded Systems (3.0)
- EENG 4750 Digital Signal Processing (3.0)
- EENG 4760 Electronic Systems (3.0)
- EENG 4765 Electronics Systems Lab (1.0)
- MATH 1220 Calculus II (5.0)
- PHYS 2215 Physics for Scientists and Engineers Lab (1.0)

Emphasis in Computing and Networking Sciences 42 Credits
This program is designed to prepare students for careers 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 1410 Object-Oriented Programming* (3.0)
- CS 2300 Discrete Structures I* (3.0)
- CS 2420 Introduction to Algorithms and Data Structures* (3.0)
- or CS 3060 Operating Systems Theory* (3.0)
- or CS 3220 Visual Basic Software Development* (3.0)
- or CS 3280 C#/.NET Software Development (3.0)*
- or CS 3520 Database Theory* (3.0)
- or CS 3690 Advanced Topics in Data Communications* (3.0)
- or 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 Visual Basic Software Development (3.0)
- or CS 2250 Java Programming (3.0)
- or CS 3250 Java Software Development (3.0)
- or CS 2370 C-plus-plus Programming (3.0)
- or CS 3370 C-plus-plus Software Development (3.0)
- or CS 2450 Software Engineering (3.0)
- or CS 2550 Internet Programming (3.0)
- or CS 3550 Internet Software Development (3.0)
- or CS 281R Internship (3.0) credits max. (1.0)
- or CS 3280 C#/.NET Software Development (3.0)
- or CS 3410 Human Factors in Software Engineering (3.0)
- or CS 3660 Web Server Programming (3.0)
- or CS 3670 Network Programming (3.0)
- or CS 4470 Artificial Intelligence (3.0)
- or CS 4500 Enterprise Architecture (3.0)
- or CS 4610 TCP/IP Internet Architecture (3.0)
- or EENG 2700 Digital Design I (3.0)
- or EENG 2705 Digital Design II Lab (1.0)
- or EENG 3750 Engineering Analysis (3.0)
- or INFO 1510 Introduction to System Administration--Linux/UNIX (3.0)

INFO 3510 Advanced System Administration--Linux/UNIX (3.0)
MATH 1210 Calculus I (5.0)
MATH 1220 Calculus II (5.0)
PHYS 2215 Physics for Scientists and Engineers Lab (1.0)

Footnotes:
- Minimum grade of C- required.

AS Pre Major in Computer Science 64 Credits

General Education Requirements: 30 Credits

- ENGL 1010 Introduction to Writing (3.0)
- ENGL 2220 Intermediate Writing--Science and Technology (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:
- HIS 2710 US History before 1877 (3.0)
and HIS 2715 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:
- CS 1410 Object-Oriented Programming (3.0)
- CS 2300 Discrete Structures I (3.0)
- or CS 2420 Introduction to Algorithms and Data Structures (3.0)
- PHYS 2210 Physics for Scientists and Engineers I (3.0)

Additional Physical Science:
- PHYS 2220 Physics for Scientists and Engineers II (3.0)
- PHYS 2225 Physics for Scientists and Engineers I Lab (1.0)

Discipline Core Requirements: 25 Credits

- 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 2810 Computer Organization and Architecture* (3.0)
- MATH 1210 Calculus I* (5.0)
- MATH 1220 Calculus II* (5.0)

Graduation Requirements:
1. Completion of a minimum of 64 semester credits.
2. Overall grade point average of 2.0 (C) or above with no grade lower than a C- in Discipline Core courses.
3. Residency hours -- minimum of 20 credit hours through course attendance at UUV. 10 of these hours must be within the last 45 hours earned. At least 12 of the credit hours earned in residence must be in approved CNS Department courses.
4. All transfer credit must be approved by CNS. 10 or more than 80 semester hours and no more than 20 hours in CNS type courses of transfer credit from a two-year college.
5. No more than 30 semester hours may be earned through independent study and/or extension classes.
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.

Footnotes:
- Minimum grade of C- required in these courses with a combined GPA of 2.5 or higher.
Emphasis in Computer Engineering  42 Credits

This program is designed to prepare students for careers in the many areas of computer science requiring a knowledge of computer systems hardware, software, device drivers, and peripheral devices. Computer Engineers have strong technical skills and an understanding of and ability to work with both computer hardware and software that are scientific and technical in nature. The degree is designed to prepare students for employment opportunities in the computer industry. Areas of employment include: computer hardware design, systems design, device driver programming, software rapid application development, and software/hardware maintenance. Students are prepared to take industry standard software certification examinations. The student is responsible for registering for and taking the required certification examinations.

Emphasis Requirements:  28 Credits

Minimum grade of C- required in these courses with a combined GPA of 2.5 or higher.

- CS 4380 Advanced/High-Performance Computer Architecture 3.0
- EENG 2102 Computer Engineering Problem 1.0
- EENG 2270 Circuit Theory Lab 1.0
- EENG 2700 Digital Design I 3.0
- EENG 2705 Digital Design II 1.0
- CS 2450 Software Engineering (3.0)
- EENG 4769 Electronic Systems (3.0)
- EENG 4766 Electronics Systems Lab (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 with a combined GPA of 2.5 or higher):

- CS 2450 Software Engineering (3.0)
- EENG 4739 Embedded Systems (3.0)
- EENG 4750 Digital Signal Processing (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, Intranet networking, data 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 for and taking the required certification examinations.

Emphasis Requirements:  27 Credits

Minimum grade of C- required in these courses with a combined GPA of 2.5 or higher.

- CS 3250 Java Software Development 3.0
- CS 3520 Database Theory 3.0
- CS 3550 Internet Software Development 3.0
- CS 3610 Network Programming 3.0
- CS 4610 TCP/IP Internet Architecture 3.0
- CS 4650 Directory-Based Networks 3.0
- CS 4670 Undergraduate Research Project-- Networking Specialization 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 six credits must be EENG, minimum of 3 credits must be CS). (Minimum grade of C- required in these courses with a combined GPA of 2.5 or higher):

- CS 3260 C-sharpNET Software Development (3.0)
- CS 3370 C-plus-plus Software Development (3.0)
- CS 3410 Human Factors in Software Engineering 3.0
- CS 3520 Database Theory 3.0
- CS 3600 Operating System Administration--Linux/UNIX 3.0

Emphasis in Database Engineering  42 Credits

The Software Engineering area of specialization is designed to prepare students for employment opportunities in the fields of systems analysis, design and implementation, applications programming, and software 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:  27 Credits

Minimum grade of C- required in these courses with a combined GPA of 2.5 or higher.

- CS 2450 Software Engineering 3.0
- CS 3220 Visual Basic Software Development 3.0
- CS 3260 C-sharpNET Software Development (3.0)
- CS 3370 C-plus-plus Software Development (3.0)
- CS 3410 Human Factors in Software Engineering 3.0
- CS 3520 Database Theory 3.0
- CS 3600 Operating 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 six credits must be EENG, minimum of 3 credits must be CS). (Minimum grade of C- required in these courses with a combined GPA of 2.5 or higher):

- CS 3260 C-sharpNET Software Development (3.0)
- CS 3370 C-plus-plus Software Development (3.0)
- CS 3410 Human Factors in Software Engineering 3.0
- CS 3450 Principles and Patterns of Software Engineering 3.0
- INFO 3250 Java Software Development (3.0)
- CS 4510 Operating System Administration--Linux/UNIX 3.0

Emphasis in Computer Science  42 Credits

The Computer Science area of specialization is designed to prepare students for employment opportunities in the fields of complex algorithms involved in designing and developing application programs or systems programs, software engineering, rapid application development, and software 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:  27 Credits

Minimum grade of C- required in these courses with a combined GPA of 2.5 or higher.

- CS 2450 Software Engineering 3.0
- CS 3220 Visual Basic Software Development 3.0
- CS 3250 Java Software Development (3.0)
- CS 3260 C-sharpNET Software Development (3.0)
- CS 3310 Introduction to Algorithms 3.0
- CS 3320 Numerical Software Engineering (3.0)
- CS 3450 Principles and Patterns of Software Development 3.0
- CS 3520 Database Theory 3.0
- CS 3480 Advanced/High-Performance Computer Architecture 3.0
- CS 4450 Analysis of Programming Languages 3.0
- CS 4470 Artificial Intelligence 3.0
- CS 4490 Compiler Construction 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 six credits must be EENG, minimum of 3 credits must be CS). (Minimum grade of C- required in these courses with a combined GPA of 2.5 or higher):

- CS 2450 Software Engineering 3.0
- CS 3220 Visual Basic Software Development 3.0
- CS 3250 Java Software Development (3.0)
- CS 3260 C-sharpNET Software Development (3.0)
- CS 3370 C-plus-plus Software Development (3.0)
- CS 3410 Human Factors in Software Engineering 3.0
- CS 3450 Principles and Patterns of Software Engineering 3.0
- CS 3520 Database Theory 3.0
- CS 3480 Advanced/High-Performance Computer Architecture 3.0
- INFO 3410 Database Systems 3.0
- INFO 4410 Database Administration 3.0

BS in Software Engineering  68 Credits

General Education Requirements:  41 Credits

- ENGL 1110 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 1000 American Heritage (3.0)
  - POLS 1100 American National Government (3.0)
- HIST 2700 US History to 1877 (3.0) and HIST 2710 US History since 1877 (3.0)

Complete the following:  2.0

- PHIL 2050 Ethics and Values
- HLTH 1100 Personal Health and Wellness
- or 1097 Fitness for Life (2.0)

Distribution Requirements:  11 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
- Biology Distribution 3.0
- Fine Arts Distribution 3.0
- COMM 1020 Public Speaking 3.0
- COMM 2110 Interpersonal Communication 3.0

Discipline Core Requirements:  64 Credits

- CS 1410 fundamentals of Programming 3.0
- 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
- CS 2450 Software Engineering 3.0
- CS 2600 Fundamentals of Data Communications 3.0
- CS 301R Invited Speaker Series 1.0
- CS 3050 Computer Ethics 3.0
- CS 3060 Operating Systems Theory 3.0
- CS 3240 Introduction to Computational Theory 3.0
- CS 3220 Visual Basic Software Development 3.0
- CS 3250 Java Software Development (3.0)
- CS 3260 C-sharpNET Software Development (3.0)
- CS 3410 Human Factors in Software Engineering 3.0
- CS 3450 Principles and Patterns of Software Engineering 3.0
- CS 3520 Database Theory 3.0
- CS 4230 Software Testing and Quality Engineering 3.0
- CS 4400 Software Engineering II 3.0
- CS 4450 Analysis of Programming Languages 3.0
- CS 4550 Software Engineering III 3.0
- MATH 1220 Calculus II 5.0
- MATH 2040 Principles of Statistics 4.0

Elective Requirements:  18 Credits

Complete 15 credits from the following:  18.0

- EENG 3750 Engineering Analysis (3.0)
- INFO 1510 Introduction to System Administration--Linux/UNIX (3.0)
- Any CS course numbered 3000 or higher not already required.

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 2.5 or above, with a minimum grade of C- in all discipline core and elective requirements.
3 Residency hours – minimum of 30 credit hours through course attendance at UVU. 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 CNS 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  3.0)
• CS 1410 Object-Oriented Programming 3.0
• CS 2420 Introduction to Algorithms and Data Structures 3.0

Elective Requirements:  9 Credits
• Complete at least three CS courses numbered 3060 or above 9.0

Graduation Requirements:
• To fill the requirements for a computer science minor students must have no course grade lower than C- in any of the CS courses required for the computer science minor.

BA/BS in Integrated Studies  123 Credits
The following Integrated Studies Emphasis is available (see the Integrated Studies section of this catalog for complete degree requirement listings.)

Emphasis in Computer Science  18 Credits
Emphasis Requirements.  18 Credits
Computer Science Emphasis
Complete one of the following:  3.0
• CS 3250 Java Software Development (3.0)
• CS 3370 C-plus-plus Software Development (3.0)

Choose 15 credits from the following:  15.0
• CS 3240 Introduction to Computational Theory (3.0)
• CS 3250 Java Software Development (3.0)
• CS 3330 Windows Programming (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
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

Visiting Scholar
Barry Hallsted

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.; Jim Golding, Geneva Rock; Greg Fix, Big D Construction; Darin Zwick, Zwick Construction; Kristen Nilssen, Gold Medallion Homes

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

CAREER OPPORTUNITIES
Graduates of the two-year Construction Management program are prepared for employment as construction foremen, job superintendents, or project managers.

PROGRAMS
Students may earn an Associate in Applied Science degree. The Clyde 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 (under development for Fall 2009). The program provides courses in construction science with a focus on heavy civil and commercial projects. 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

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education Requirements</td>
<td>16 Credits</td>
</tr>
<tr>
<td>• ART 1720 Architectural Rendering</td>
<td>3.0</td>
</tr>
<tr>
<td>• BCCM 1150 Building Construction Safety</td>
<td>1.0</td>
</tr>
<tr>
<td>• COMM 2110 Interpersonal Communication</td>
<td>3.0</td>
</tr>
<tr>
<td>• EGD 1600 Technical Math--Algebra</td>
<td>3.0</td>
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<tr>
<td>or MATH 1050 College Algebra (4.0)</td>
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<tr>
<td>• ENGL 1010 Introduction to Writing</td>
<td>3.0</td>
</tr>
<tr>
<td>• PHSC 1000 Survey of Physical Science</td>
<td>3.0</td>
</tr>
<tr>
<td>Discipline Core Requirements</td>
<td>48 Credits</td>
</tr>
<tr>
<td>• ACC 3000 Financial Managerial and Cost Accounting Concepts</td>
<td>4.0</td>
</tr>
<tr>
<td>or ACC 2100 Financial Accounting (3.0) and ACC 2200 Managerial Accounting (3.0)</td>
<td></td>
</tr>
<tr>
<td>• BCCM 281R Cooperative Work Experience (1.0)</td>
<td>2.0</td>
</tr>
<tr>
<td>• BCCM 285R Cooperative Correlated Class</td>
<td>1.0</td>
</tr>
<tr>
<td>• BIT 1010 Building Codes</td>
<td>3.0</td>
</tr>
<tr>
<td>or BIT 1020 Residential Codes (3.0)</td>
<td></td>
</tr>
<tr>
<td>• BIT 1170 Field Lab--Building Codes</td>
<td>1.0</td>
</tr>
<tr>
<td>• DGM 2010 Business Computer Proficiency</td>
<td>3.0</td>
</tr>
<tr>
<td>• ECON 1010 Economics as a Social Science</td>
<td>3.0</td>
</tr>
<tr>
<td>• EGD 1300 Business Computer Proficiency</td>
<td>3.0</td>
</tr>
<tr>
<td>• EGD 1400 Surveying</td>
<td>4.0</td>
</tr>
<tr>
<td>• EGD 1610 Technical Math--Geometry/Trig</td>
<td>3.0</td>
</tr>
<tr>
<td>or MATH 1060 Trigonometry (3.0)</td>
<td></td>
</tr>
<tr>
<td>• CMGT 1010 Introduction to Construction Management</td>
<td>3.0</td>
</tr>
<tr>
<td>• CMGT 1020 Construction Materials and Methods I</td>
<td>4.0</td>
</tr>
<tr>
<td>• CMGT 2010 Construction Materials and Methods II</td>
<td>4.0</td>
</tr>
<tr>
<td>• CMGT 2020 Principles of Construction Estimating</td>
<td>4.0</td>
</tr>
<tr>
<td>• CMGT 2030 Principles of Construction Scheduling</td>
<td>3.0</td>
</tr>
<tr>
<td>• CMGT 2040 Construction Job Site Management</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Graduation Requirements:

1. Completion of a minimum of 64 semester credits.
2. Overall grade point average of 2.0 (C) or above.
3. Residency hours -- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.
5. Complete all core requirements 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:

- CMGT Construction Management
Criminal Justice

Department Chair: Curtis Fillmore
Office: WB 243
Telephone: 801-863-8857
E-mail: fillmocu@uvsc.edu

Director Police Academy: Steve DeMille
Office: WB 254
Telephone: 801-863-8062
E-mail: demillst@uvsc.edu

Faculty:
Associate Professor
W. Brent Bullock
Curtis D. Fillmore

Assistant Professor
Stott Harston
Gary Naisbitt

Advisor: Bobbi Gren
Office: WB 247
Telephone: 801-863-8489
E-mail: grenbo@uvsc.edu

Director of Forensic Science:
Gary Naisbitt
Office: WB 252
Telephone: 801-863-6505

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

Associate Dean: Larry Marsing.
Office: CS 632
Telephone: 801-863-8165

Assistant Dean/Emergency Services:
Jeff Maxfield
Office: Provo Airport (PA 205)
Telephone: 801-863-7736 or 1-888-548-7816

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

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 State College, paralegal students must meet the following admission requirements:
1. Submit Compass Test scores to the Legal Studies 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 advisor.

Law Enforcement Academy
Director: Steve DeMille
Office: WB 254
Telephone: 801-863-8062
E-mail: demillst@uvsc.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 reserve officers, corrections, or special function officers. The second module continues with training for certification of an officer with full police powers (police, deputy sheriff, Utah Highway Patrol).

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 beginning the first week of June and the first week of September. Module 2, PO Block, is offered twice each year per beginning in January and March. Contact Steve DeMille at 801-863-8062 or stop by the Legal Studies Department in WB 242.

AA/AS Pre Major in Criminal Justice 60 CREDITS
General Education Requirements: 35 Credits
- ENGL 1010 Introduction to Writing 3.0
- ENGL 2010 Intermediate Writing—Humanities/Social Sciences 3.0
- or ENGL 2020 Intermediate Writing—Science and Technology (3.0)
Complete one of the following:
- MATH 1000 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 to 1877 (3.0)
- HIST 1740 US Economic History (3.0)
- POLS 1000 American Heritage (3.0)
- POLS 1100 American National Government (3.0)
Complete the following:
- PHIL 2050 Ethics and Values 3.0
- HLTH 1100 Personal Health and Wellness (2.0)
- or PES 1097 Fitness for Life 2.0

Distribution Courses
- Biology 3.0
- Physical Science 3.0
- Additional Biology or Physical Science 3.0
- Humanities Distribution 3.0

Criminal Justice

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

E elective: 10 Credits
- CJ 1900 Police Field Operations 3.0
- CJ 3500 Criminal Justice Management (3.0)
- CJ 3590 Police Field Operations (3.0)
- CJ 3060 Criminal Justice Management (3.0)

BS in Criminal Justice 120 Credits
General Education Requirements: 35 Credits
- ENGL 1010 Introduction to Writing 3.0
- ENGL 2010 Intermediate Writing—Humanities/Social Sciences 3.0
- or ENGL 2020 Intermediate Writing—Science and Technology (3.0)
Complete one of the following:
- MATH 1030 Quantitative Reasoning (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 1050)
- An Advanced Placement (AP) Mathematics Test with a score of 3 or higher

Complete one of the following:
- HIST 2700 US History since 1877 (3.0)
- HIST 1740 US Economic History (3.0)
- POLS 1000 American Heritage (3.0)
- POLS 1100 American National Government (3.0)

Complete the following:
- PHIL 2050 Ethics and Values 3.0
- HLTH 1100 Personal Health and Wellness 2.0
- or PES 1097 Fitness for Life (2.0)

Distribution Courses
- Biology 3.0
- 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: 68 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 Introduction to Corrections Process 3.0
- CJ 1330 Criminal Law 3.0
- CJ 2330 Juvenile Justice 3.0
- CJ 2350 Laws of Evidence 3.0
- CJ 3270 Criminology 3.0
- CJ 3300 Victimology 3.0
- CJ 3400 Drugs and Crime 3.0
- SOC 3010 Statistics for the Behavioral Sciences 3.0
- CJ 4160 Constitutional Rights and Responsibilities 3.0
- CJ 4220 Criminal Justice Career Strategies 3.0
- CJ 4700 Comparative Criminal Justice Systems 3.0
- CJ 4880 Qualitative Research Methods in Criminal Justice 3.0
- CJ 4990 Criminal Justice Senior Seminar 3.0
- DGM 2010 Business Computer Proficiency 3.0
- or Business Proficiency Exam 3.0

Choose one of the three options below:

Law Enforcement Option
- CJ 1390 Police Field Operations (3.0)
- CJ 3590 Police Field Operations (3.0)
Criminal Justice

- CJ 3040 Community Policing (3.0)
- CJ 3380 Introduction to Criminal Justice (3.0)
- Electives (choose from upper-division CJ courses)

**Discipline Core Requirements:** 62 Credits

- CJ 1330 Criminal Law (3.0)
- CJ 1340 Criminal Investigations (3.0)
- CJ 1350 Introduction to Forensic Science (3.0)
- CJ 135L Introduction to Forensic Science Laboratory (1.0)
- CJ 2350 Laws of Evidence (3.0)
- CJ 3880 Professional Practices for the Forensic Scientist (3.0)

Complete the following:

- BIOL 1015 General Biology Laboratory (1.0)
- CHEM 1215 Principles of Chemistry I Laboratory (1.0)
- CHEM 1225 Principles of Chemistry II Laboratory (1.0)
- CHEM 2310 Organic Chemistry I (4.0)
- CHEM 2315 Organic Chemistry I Laboratory (1.0)
- CHEM 2325 Organic Chemistry II Laboratory (1.0)
- CHEM 2320 Organic Chemistry II (4.0)
- PHYS 2010 College Physics I (4.0)
- PHYS 2015 College Physics II Lab (1.0)
- MATH 1210 Calculus I (5.0)
- MATH 2040 Principles of Statistics (4.0)
- CJ 3500 Footwear Impression Evidence (3.0)
- CJ 3520 Tire Imprint Evidence (3.0)
- CJ 3540 Forensic Trace Analysis I (3.0)
- CJ 3700 Fingerprint Examination I (3.0)
- CJ 3820 Crime Scene Investigation (3.0)
- CJ 382L Crime Scene Investigation Techniques Laboratory I (1.0)
- CJ 3860 Forensic Microscopy (3.0)
- ART 2450 Digital Imaging (3.0)

Elective Requirements: 21 Credits

Complete 12 credits from the following courses:

- CJ 3500 Footwear Impression Evidence (3.0)
- CJ 3520 Tire Imprint Evidence (3.0)
- CJ 3550 Forensic Trace Analysis II (3.0)
- CJ 3720 Fingerprint Examination II (3.0)
- CJ 3740 Fingerprint Examination III (3.0)
- CJ 3760 Bloodstain Pattern Analysis (3.0)
- CJ 3800 Computer Forensics and Cyber Crime (3.0)
- CJ 3850 Marijuana Identification Certificate (3.0)
- CJ 4400 Forensic Chemist I (3.0)
- CJ 440L Forensic Chemist Laboratory (1.0)
- CJ 443R Directed Research in Forensic Science (2.0)
- CJ 482R Internship (2.0)
- CHEM 3500 Analytical Chemistry (4.0)
- CHEM 3600 Biological Chemistry (3.0)
- CHEM 3605 Biochemistry Laboratory (1.0)
- CHEM 3700 Forensic Analytical Chemistry (3.0)
- CHEM 4000 Instrumental Analysis (2.0)
- CHEM 4005 Instrumental Analysis Laboratory (2.0)
- ENGL 4310 Advanced Technical Communication (3.0)
- GEO 3400 Forensic Geology (4.0)

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.

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

- CJ, Criminal Justice
The Culinary Arts Institute at UVU offers premier training in culinary arts for those students interested in cooking or creating foods in many areas such as full-service restaurants; hotels; private catering; personal chefs; airlines; institutional facilities such as schools, hospitals, and care facilities; as well as fast foods.

The graduates of the Institute are in high demand and are recruited by owners and managers of well-known facilities throughout the country.

### CAREER OPPORTUNITIES

The Culinary Arts Institute at UVU offers premier training in culinary arts for those students interested in cooking or creating foods in many areas such as full-service restaurants; hotels; private catering; personal chefs; airlines; institutional facilities such as schools, hospitals, and care facilities; as well as fast foods.

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

<table>
<thead>
<tr>
<th>Matriculation Requirements</th>
<th>68 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Completion of the following courses with a grade of C- or better. CA 1480 (including ServSafe certification); HM 1010; MAT 0990; ENGH 0990; CTRS 0990.</td>
<td>30</td>
</tr>
<tr>
<td>2 Complete 650 documented hours work in the industry; acceptance into the Culinary Arts Institute by completion of application process (see Advisor for specific details).</td>
<td>35</td>
</tr>
<tr>
<td>3 Overall GPA: 2.0 or better.</td>
<td>3</td>
</tr>
</tbody>
</table>

### General Education Requirements: 17 Credits

<table>
<thead>
<tr>
<th>ENGLISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>• MGMT 2200 Business Communications 3.0</td>
</tr>
<tr>
<td>MATHEMATICS</td>
</tr>
<tr>
<td>• ACC 2010 Financial Accounting 3.0</td>
</tr>
<tr>
<td>HUMANITIES/FINE ARTS/FOREIGN LANGUAGE</td>
</tr>
<tr>
<td>• ENGL 1010 Introduction to Writing 3.0</td>
</tr>
<tr>
<td>SOCIAL AND BEHAVIORAL SCIENCE</td>
</tr>
<tr>
<td>• MGMT 3000 Organizational Behavior 3.0</td>
</tr>
<tr>
<td>BIOLOGY OR PHYSICAL SCIENCE</td>
</tr>
<tr>
<td>• CA 1150 Nutrition and Food Service 3.0</td>
</tr>
<tr>
<td>PHYSICAL EDUCATION/HEALTH/SAFETY OR ENVIRONMENT</td>
</tr>
<tr>
<td>• PES 1097 Fitness for Life 2.0</td>
</tr>
</tbody>
</table>

### Discipline Core Requirements: 51 Credits

| • HM 1010 Introduction to Hospitality Industry 3.0 |
| • CA 1480 Sanitation and Table Service 3.0 |
| • CA 1120 Cooking Skills Development 4.5 |
| • CA 1130 Baking Skills Development 4.5 |
| • CA 1310 Purchasing and Storeroom Management 3.0 |
| • CA 1230 Professional Kitchen I—Cooking 4.5 |
| • CA 1240 Professional Kitchen I—Baking/Pastry 4.5 |
| • CA 2120 Professional Kitchen II (8.0) 8.0 |
| • CA 2230 Professional Kitchen III 9.0 |
| or CA 282R Culinary Arts Internship* (3.0) 3.0 |
| or CA 282R Culinary Arts Internship (3.0) 3.0 |
| • CA 2430 Menu/Facilities Design and Beverage Management 3.0 |
| • HM 3640 Food and Beverage Controls 3.0 |
| • MGMT 2250 Job Application and Advancement Skills 3.0 |
| or MGMT 3890 Career Preparation (2.0) 2.0 |

### 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. |
| 4 Completion of GE and specified departmental requirements. |

Note: Students are responsible for completing all prerequisite courses.

Footnotes:

* CA 282R, internship, can be taken one time only.

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

- CA, Culinary Arts
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

General Education Requirements: 35 Credits

- ENGL 1010 Introduction to Writing 3.0
- ENGL 1010R 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 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 1050 Ethics and Values 3.0
- HLTH 1100 Personal Health and Wellness (2.0) or PES 1097 Fitness for Life 2.0

Distribution Courses
- Biology (BIOL 1010 recommended) 3.0
- Physical Science 3.0
- Additional Biology or Physical Science (ZOOL 2010 recommended) 3.0
- Humanities Distribution 3.0
- DAN C 2110 Orientation to Dance 3.0
- Social/Behavioral Science 3.0

Discipline Core Requirements: 23 Credits

- DAN C 1160 Music for Dancers 1.0
- DAN C 127 R Ballet Technique I (2 semesters) 6.0

- DAN C 1330 Studio Workshop—Creative Process in Dance 1.0
- DAN C 143 R Modern Dance Technique and Theory 3.0
- DAN C 144 R Modern Dance Technique and Theory I 3.0
- DAN C 1510 Intermediate Jazz Dance 1.0
- DAN C 1610 Dance Conditioning 1.0
- DAN C 2330 Improvisation 1.0
- DAN C 2340 Composition 2.0
- DAN C 265 R Fundamentals of Movement 2.0
- DAN C 2670 Introduction to Laban Studies 2.0

Elective Requirements: 4 Credits

Complete 4 credits from the following:
- DAN C 1520 Folk Dance I (1.0)
- DAN C 1530 Folk Dance II (1.0)
- DAN C 1540 Clogging I (1.0)

- DAN C 1560 African Dance I (1.0)
- DAN C 1570 African Dance II (2.0)
- DAN C 1580 Tap Dance I (1.0)
- DAN C 1700 American Social Dance I (1.0)
- DAN C 1710 International Ballroom Dance I (1.0)
- DAN C 1720 Latin Ballroom Dance I (1.0)
- DAN C 1780 Country Western Dance I (1.0)
- DAN C 1790 Country Western Dance II (1.0)
- DAN C 221 R Pointe I (1.0)
- DAN C 2250 Character Dance I (1.0)
- DAN C 2260 Character Dance II (1.0)
- DAN C 227 R Ballet Technique I (3.0)
- DAN C 243 R Modern Dance Technique and Theory I (3.0)
- DAN C 244 R Modern Dance Technique and Theory II (3.0)
- DAN C 247 R Repertory I (1.0)
- DAN C 250 R Advanced Jazz Dance (2.0)
- DAN C 2700 American Social Dance II (1.0)
- DAN C 2710 International Ballroom Dance II (1.0)
- DAN C 2720 Latin Ballroom Dance II (1.0)
- DAN C 2726 R Ballroom Dance Company Back-Up Team (1.0)
- DAN C 327 R Ballet Technique III (3.0)
- DAN C 346 R Modern Dance Performance (2.0)
- DAN C 370 R American Social Dance III (1.0)
- DAN C 371 R International Ballroom Dance III (1.0)
- DAN C 372 R Latin Ballroom Dance III (1.0)
- DAN C 376 R Ballroom Dance Company Reserve Tour Team (2.0)
- DAN C 429 R Utah Regional Ballet Repertory (2.0)
- DAN C 476 R Ballroom Dance Company Tour Team (2.0)

Graduation Requirements:
- 1 Completion of a minimum of 62 semester credits.
- 2 Overall grade point average of 2.0 (C) or above.
- 3 Residency hours -- minimum of 20 credit hours through course attendance at UVU.
- 4 Completion of GE and specified departmental requirements.

BS in Dance Education 126 CREDITS

Matriculation Requirements:

- Complete the following courses with a grade of B or higher: DAN C 1560, DAN C 143 R, DAN C 144 R, DAN C 1510 OR DAN C 259 R, DAN C 1610, AND DAN C 2330.
- 2 Passing audition and interview with Dance Education faculty.
- 3 Overall GPA of 2.75.

General Education Requirements: 35 Credits

- ENGL 1010 Introduction to Writing 3.0
- ENGL 1010R Intermediate Writing—Humanities/ Social Sciences (3.0)
- ENGL 2010R Intermediate Writing—Science and Technology 3.0

Complete one of the following:
- MATH 1030 Quantitative Reasoning (recommended for Humanities or Arts majors) (3.0)
- MATH 1040 Introduction to Statistics (recommended for Social Science majors) (3.0)
- MATH 1050 College Algebra (recommended for Business, Education, Science, and Health Professions majors) (4.0)

Complete one of the following:
- HIST 1700 American Civilization (3.0)
- HIST 2700 US History to 1877 (3.0)
- AND HIST 2710 US History since 1877 (3.0)
- POLS 1000 American Heritage (3.0)
- POLS 1100 American National Government (3.0)

Complete the following:
- PHIL 1050 Ethics and Values 3.0
- HLTH 1100 Personal Health and Wellness (2.0) or PES 1097 Fitness for Life 2.0

Distribution Courses
- Biology (BIOL 1010 recommended) 3.0
- Physical Science 3.0
- Additional Biology or Physical Science (ZOOL 2010 recommended) 3.0
- Humanities Distribution 3.0
- DAN C 2110 Orientation to Dance 3.0
- Social/Behavioral Science 3.0

Discipline Core Requirements: 23 Credits

- DAN C 1160 Music for Dancers 1.0
- DAN C 127 R Ballet Technique I (2 semesters) 6.0

- DAN C 1330 Studio Workshop—Creative Process in Dance 1.0
- DAN C 143 R Modern Dance Technique and Theory 3.0
- DAN C 144 R Modern Dance Technique and Theory I 3.0
- DAN C 1510 Intermediate Jazz Dance 1.0
- DAN C 1610 Dance Conditioning 1.0
- DAN C 2330 Improvisation 1.0
- DAN C 2340 Composition 2.0
- DAN C 265 R Fundamentals of Movement 2.0
- DAN C 2670 Introduction to Laban Studies 2.0

Elective Requirements: 4 Credits

Complete 4 credits from the following:
- DAN C 1520 Folk Dance I (1.0)
- DAN C 1530 Folk Dance II (1.0)
- DAN C 1540 Clogging I (1.0)

- DAN C 1560 African Dance I (1.0)
- DAN C 1570 African Dance II (2.0)
- DAN C 1580 Tap Dance I (1.0)
- DAN C 1700 American Social Dance I (1.0)
- DAN C 1710 International Ballroom Dance I (1.0)
- DAN C 1720 Latin Ballroom Dance I (1.0)
- DAN C 1780 Country Western Dance I (1.0)
- DAN C 1790 Country Western Dance II (1.0)
- DAN C 221 R Pointe I (1.0)
- DAN C 2250 Character Dance I (1.0)
- DAN C 2260 Character Dance II (1.0)
- DAN C 227 R Ballet Technique I (3.0)
- DAN C 243 R Modern Dance Technique and Theory I (3.0)
- DAN C 244 R Modern Dance Technique and Theory II (3.0)
- DAN C 247 R Repertory I (1.0)
- DAN C 250 R Advanced Jazz Dance (2.0)
- DAN C 2700 American Social Dance II (1.0)
- DAN C 2710 International Ballroom Dance II (1.0)
- DAN C 2720 Latin Ballroom Dance II (1.0)
- DAN C 2726 R Ballroom Dance Company Back-Up Team (1.0)
- DAN C 327 R Ballet Technique III (3.0)
- DAN C 346 R Modern Dance Performance (2.0)
- DAN C 370 R American Social Dance III (1.0)
- DAN C 371 R International Ballroom Dance III (1.0)
- DAN C 372 R Latin Ballroom Dance III (1.0)
- DAN C 376 R Ballroom Dance Company Reserve Tour Team (2.0)
- DAN C 429 R Utah Regional Ballet Repertory (2.0)
- DAN C 476 R Ballroom Dance Company Tour Team (2.0)

Graduation Requirements:
- 1 Completion of a minimum of 62 semester credits.
- 2 Overall grade point average of 2.0 (C) or above.
- 3 Residency hours -- minimum of 20 credit hours through course attendance at UVU.
- 4 Completion of GE and specified departmental requirements.
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 2700 US History to 1877 (3.0)
- HIST 2710 US History since 1877 (3.0)
- POLS 1000 American National Heritage (3.0)
- POLS 1100 American National Government (3.0)

Graduation Requirements:
1. Completion of a minimum of 120 semester credits, a minimum of 40 credits must be upper division.
2. Overall grade point average of 2.7 (B-) or above with no grade lower than a B- in required courses.
3. Residence hours: Minimum of 30 credit hours of business courses through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
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.

BS in Movement Studies with an Emphasis in Ballroom Dance 120 CREDITS

Matriculation Requirements:
1. By application and audition after completing at least 30 semester hours of college credit at UVU.
2. Completion of a minimum of 2.75 (B-) 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.

Emphasis Requirements: 39 Credits

Discipline Core Requirements 41 Credits

BFA in Dance 120 CREDITS

Matriculation Requirements:
1. By application and audition after completing at least 30 semester hours of college credit at UVU.
2. Completion of (DANC 143R and DANC 144R) or (2 semester of DANC 227R); DANC 2110; and DANC 2330 with no grade lower than a B-.

General Education Requirements: 35 Credits

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:
- ENGL 1010 Introduction to Writing (3.0)
- ENGL 2010 Intermediate Writing–Humanities/ Social Sciences

Distribution Courses
- Humanities Distribution (3.0)
- Social/Behavioral Science (3.0)
- BIOL 1010 Orientation to Dance (Fine Arts) (3.0)
- BIOL 4213 Costume Design (3.0)
Dance

- **DANC 2670** Introduction to Laban Studies 2.0
- **DANC 3410** Dance Production and Lighting 2.0
- **DANC 3680** Dance Kinesiology 4.0
- **DANC 4350** Senior Capstone I 1.0
- **DANC 4380** Senior Capstone II 2.0
- **DANC 4489** Current Issues in Dance 3.0
- **DANC 4920** Dance as Cultural Practice 3.0
- **DANC 3630** Dance History 3.0

**Emphasis Requirements:**

1. **Emphasis in Modern Dance:** 44 Credits
2. **Emphasis in Ballroom Dance:** 20 Credits
3. **Emphasis in Ballet:** 46 Credits
4. **Emphasis in Italian Dance:** 40 Credits
5. **Emphasis in Musical Theatre:** 40 Credits
6. **Emphasis in African Dance:** 40 Credits

**Graduation Requirements:**

1. Completion of a minimum of 120 semester credits; a minimum of 40 credits must be upper division.
2. Overall grade point average of 2.75 (B-) or above with no grade lower than a B- in required 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.

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.

**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 Ballet 46 Credits**

**Emphasis Elective Requirements:**

- **DANC 221R** Pointe II (2 semesters required) 2.0
- **DANC 225R** Character Dance I 1.0
- **DANC 226R** Character Dance II 1.0
- **DANC 3150** Music for Ballet Dancers 2.0
- **DANC 321R** Pointe III (2 semesters required) 2.0
- **DANC 327R** Ballet Technique III (2 semesters required) 6.0
- **DANC 421R** Pointe IV (2 semesters required) 2.0
- **DANC 424R** Pas de deux (2 semesters required) 2.0
- **DANC 425R** Repertory Ensemble (4 semesters required total) 8.0
- **DANC 429R** Utah Regional Ballet Repertory (4 semesters required total) 2.0
- **DANC 334R** Ballet Choreography 2.0
- **DANC 447R** Ballet Technique IV (2 semesters required total) 3.0
- **DANC 428R** Utah Regional Ballet Repertory (2.0)
- **THEA 1033** Fundamentals of Acting I (3.0)
- **Any DANC course not previously taken**

**Emphasis Elective Requirements:**

- **DANC 1700** Western Dance I (1.0)
- **DANC 1710** American Social 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 40R** Ballet Technique V (2.0)
- **DANC 429R** Movement Analysis (3.0)
- **DANC 442R** Modern Dance Technique and Theory IV (3.0)
- **Any DANC course not previously taken**

**Emphasis in Modern Dance 44 Credits**

**Emphasis Elective Requirements:**

- **DANC 365R** Advanced Fundamentals of Movement 2.0
- **DANC 3670** Movement Analysis (3.0)
- **DANC 441R** Modern Dance Technique and Theory IV 3.0

**Emphasis Elective Requirements:**

Choose 12 credits from the following list:

- **DANC 1580** Tap 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 327R** Ballet Technique III (3.0)
- **DANC 3610** Intermediate Dance Conditioning and Injury Prevention (2.0)
- **DANC 365R** Advanced Fundamentals of Movement (2.0)
- **DANC 3670** Movement Analysis (3.0)
- **DANC 442R** Modern Dance Technique and Theory IV (3.0)
- **Any DANC course not previously taken**

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

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

**Emphasis in Ballet 20 Credits**

**Prerequisites:**

- **DANC 1330** Studio Workshop--Creative Process in Dance (1.0)
- **DANC 2110** Movement Analysis (3.0)
- **DANC 2670** Introduction to Laban Studies (2.0)
- **DANC 3560** World Dance Forms (2.0)

Complete the following:

- **DANC 2340** Composition 2.0
- **DANC 3630** Dance History 3.0
- **DANC 3670** Movement Analysis 3.0
- **DANC 4880** Current Issues in Dance 3.0
- **DANC 4920** Dance as Cultural Practice 3.0

Complete 6 credits from the following classes:

- **DANC 227R** Ballet Technique II (3.0)
- **DANC 327R** Ballet Technique III (3.0)
- **DANC 427R** Ballet Technique IV (3.0)
- **DANC 429R** Ballet Technique V (3.0)

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

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

**Emphasis in Ballet 20 Credits**

**Prerequisites:**

- **DANC 1330** Studio Workshop--Creative Process in Dance (1.0)
- **DANC 2110** Movement Analysis (3.0)
- **DANC 2670** Introduction to Laban Studies (2.0)
- **DANC 3560** World Dance Forms (2.0)

Complete the following:

- **DANC 2340** Composition 2.0
- **DANC 3630** Dance History 3.0
- **DANC 3670** Movement Analysis 3.0
- **DANC 4880** Current Issues in Dance 3.0
- **DANC 4920** Dance as Cultural Practice 3.0

Complete 6 credits from the following classes:

- **DANC 227R** Ballet Technique II (3.0)
- **DANC 327R** Ballet Technique III (3.0)
- **DANC 427R** Ballet Technique IV (3.0)
- **DANC 429R** Ballet Technique V (3.0)

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

- **DANC, Dance**
Dental Hygiene

Department Chair: George Veit
Office: BA 203d
Telephone: 801-863-7536
E-mail: veitge@uvu.edu

Advisor: George Veit

Faculty:
Associate Professor
Christina Veit
George Veit
Assistant Professor
Kristen Knutteder

Administrative Assistant: Joyce Henderson
Clinic Manager: Joyce Henderson

Advisory Committee: Melinda Tate RDH, Karen Preston RDH, Christina Veit RDH, Alexander Larsen DDS, Gary Weist DDS, George Veit DDS MS, Kristen Knutteder BS, Sam Rushforth, Ph.D., Rella Christensen RDH, Ph.D., George Bailey DDS, Dee Webb, RDH, John Gerhausen RDH

College of Science and Health
Dean: Sam Rushforth
Office: PS 201a
Telephone: 801-863-8980

Assistant Dean: Dan Fairbanks
Office: PS 201e
Telephone: 801-863-6440

Assistant Dean: Gary Measom
Office: BA 205d
Telephone: 801-863-8192

Assistant Dean: Louise Illes
Office: PS 201d
Telephone: 801-863-6040

Assistant Dean: David Jordan
Office: PS 201c
Telephone: 801-863-7160

CAREER OPPORTUNITIES
Dental hygienists, under the supervision of licensed dentists, provide preventive dental care to patients such as dental prophylaxis, topical fluoride applications, pit and fissure sealants, administration of local anesthetics, dental radiographs and teaching patients plaque control procedures. Dental hygienists work in private dental practices as well as in school systems, public health agencies, Federal and State agencies, hospitals, nursing homes, the World Health Organization, and foreign governments.

PROGRAM OVERVIEW
Admission to UVU does not constitute admission to the Dental Hygiene Program. Admission to the Dental Hygiene Program requires a separate and competitive admission process.

The Dental Hygiene department currently offers two programs leading to the following degrees: 1) Associate in Applied Science in Dental Hygiene and 2) a Bachelor Degree in Dental Hygiene. Upon successful completion of the AAS program, graduates must pass national, regional and state board examinations to apply for licensure.

Applicants to AAS program who have questions about their potential for licensure in a particular state should contact that state’s board of dental hygiene. One important prerequisite to entering the bachelor program is an associate level degree in dental hygiene from an accredited school in the United States. The associate level degree must be transferrable 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 may have to 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/dent/.

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.
Dental Hygiene

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 2008. Contact the Dental Hygiene department advisor for Fall 2009 requirements.

PROGRAM

AAS in Dental Hygiene 81 Credits

Matriculation Requirements:

1. 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

MATHEMATICS

• MATH 1050 College Algebra 4.0

HUMANITIES/FINE ARTS/FOREIGN LANGUAGE

• PHIL 2050 Ethics and Values 3.0

SOCIAL AND BEHAVIORAL SCIENCE

• SOC 1010 Introduction to Sociology 3.0

or SOC 1020 Modern Social Problems (3.0)

BIOL OR PHYSICAL SCIENCE

• MATH 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 2010 Dental Hygiene III 6.0
• DENT 2020 Dental Pharmacology 3.0
• DENT 2050 Dental Hygiene Seminar 1.0
• DENT 2060 Community Dental Hygiene 3.0
• DENT 3030 Periodontology 3.0
• DENT 3040 Dental Hygiene IV 6.0
• DENT 3060 Advanced Dental Hygiene Public Health 3.0
• DENT 3200 Teaching the Dental Hygiene Patient 2.0
• DENT 4010 Cutting Edge Seminar 1.0
• DENT 481R Internship in Dental Hygiene (1.0) 4.0
• MATH 2050 Microbiology for Health Professions 4.0
• PSY 1010 General Psychology 3.0
• 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 through course attendance at UVU.
4. Completion of GE and specified departmental requirements

BS in Dental Hygiene 126 Credits

Matriculation Requirements:

1. Completion of an AA, AS, or AAS degree in dental hygiene from an accredited program with department permission

General Education Requirements: 38 Credits

• ENGL 1010 Introduction to Writing 3.0
• 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)
• HIST 2700 US History to 1877 (3.0)
• HIST 2710 US History since 1877 (3.0)
• HIST 1740 US Economic History (3.0)
• POLS 1000 American Heritage (3.0)
• POLS 1100 American National Government (3.0)

Complete the following:

• PHIL 2050 Ethics and Values 3.0
or PHIL 2055 Ethics and Values 3.0
• HLTH 1100 Personal Health and Wellness (2.0)
or PES 109Y 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) 4.0
• 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)

Emphasis in Public Health 12 Credits

Emphasis Requirements: 12 Credits

• HLTH 2320 Principles of Community Health 3.0
• HLTH 3280 Modifying Health Behavior 3.0
• HLTH 3800 Epidemiology 3.0
• HLTH 4300 Community Health Ethics 3.0

Emphasis in Education 12 Credits

Emphasis Requirements: 12 Credits

• EDSC 3000 Educational Psychology 3.0
• DENT 4200 Teaching the Dental Hygiene Student 3.0
• HLTH 4200 Health Education Teaching Methods 3.0
• SOC 3430 Sociology of Education 3.0

Emphasis in Business 12 Credits

Emphasis Requirements: 12 Credits

• MGMT 3000 Organizational Behavior 3.0
• MGMT 3600 Principles of Marketing 3.0
• MGMT 5170 Entrepreneurship 3.0
• MGMT 3210 Convention and Events Management 3.0

Elective Requirements: 9 Credits

• Choose any 000 level courses or higher for 9 credits

Emphasis in Public Health 12 Credits

Emphasis Requirements: 12 Credits

• HLTH 2320 Principles of Community Health 3.0
• HLTH 3280 Modifying Health Behavior 3.0
• HLTH 3800 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 course prefixes:

- DENT, Dental Hygiene
Reminder: An overall grade point average of 2.0 (C) or above is required for graduation.

Certificate in Diesel Mechanics Technology 31 Credits

Discipline Core Requirements: 31 Credits
- DMT 1110 Diesel Engine Overhaul 4.0
- DMT 111L Diesel Engine Overhaul Lab 2.0
- DMT 1120 Diesel Engine Overhaul/Tune Up 4.0
- DMT 112L Diesel Engine Overhaul/Tune Up Lab 2.0
- DMT 1510 Electrical Systems Theory 4.0
- DMT 151L Electrical Systems Lab 2.0
- DMT 1520 Engine Electronics and Diagnostics Theory 4.0
- DMT 152L Engine Electronics and Diagnostics Lab 2.0
- ENGL 196A Career Writing for Technology--A 2.0
- AUT 1260 Tech Math for Mechanics 3.0
or MAT 1000 Integrated Beginning and Intermediate Algebra (5.0)
or Any higher MAT or MATH course
- Any approved Behavioral Science, Social, or Political Science Distribution Course

Graduation Requirements:
1. Completion of a minimum of 31 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 55 Credits

Discipline Core Requirements: 55 Credits
- DMT 1110 Diesel Engine Overhaul 4.0
- DMT 111L Diesel Engine Overhaul Lab 2.0
- DMT 1120 Diesel Engine Overhaul/Tune Up 4.0
- DMT 112L Diesel Engine Overhaul/Tune Up Lab 2.0
- DMT 1510 Electrical Systems Theory 4.0
- DMT 151L Electrical Systems Lab 2.0
- DMT 1520 Engine Electronics and Diagnostics Theory 4.0
- DMT 152L Engine Electronics and Diagnostics Lab 2.0
- DMT 2230 Climate Control 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
- ENGL 196A Career Writing for Technology--A 2.0
- AUT 1260 Tech Math for Mechanics 3.0
- Any approved Behavioral Science, Social, or Political Science Distribution Course

Graduation Requirements:
1. Completion of a minimum of 55 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Completion of specified departmental requirements.
4. Residency hours -- minimum of 20 credit hours through course attendance at UVU.

AAS in Diesel Mechanics Technology 64 Credits

General Education Requirements: 16 Credits
- ENGL 1060 Career Writing for Technology 3.0
- AUT 1260 Tech Math for Mechanics 3.0
or MAT 1000 Integrated Beginning and Intermediate Algebra (5.0)
or Any higher MAT or MATH course
- Any approved Humanities, Fine Arts, or Foreign Language Distribution Course
- Any approved Behavioral Science, Social, or Political Science Distribution Course

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
Digital Media

Department Chair: Rodayne Esmay
Office: CS 526C
Telephone: 801-863-7050

Business Education Director:
Jan Bentley
Office: CS526g
Telephone: 801-863-6362

Faculty:
Professor
Cynthia Krebs
Associate Professor
Rodayne Esmay
Michael Harper
Dennis Lisonbee
Chase Mitchell
Assistant Professor
Thor Anderson
Jan Bentley
Trudy Christensen
Robert Trim
Michael G. Wisland

Administrative Support:
Katrina S. H. Van Cott
Office: CS 526
Telephone: 801-863-6217

Advisor: Bonnie Cook
Telephone: 801-863-8403

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

PROGRAM DESCRIPTION

Digital Media (DGM) prepares students for a variety of full-time or freelance employment through a blend of classroom and hands-on experience. The program equips students with foundational theories and processes to develop sound multi-communication structures. The curriculum integrates graphics, text, animation, video and audio digital materials to entertain, educate, and communicate ideas through meaningful human interaction. DGM also houses the Administrative Information Management programs and the Business Education Certification program.

Instruction is organized to offer a balance between:
- conceptualizing projects based on sound analysis, design and evaluation;
- fostering skills of creativity and teamwork to develop and deliver products.

Administrative Information management provides training for students to be employed in such areas as administrative information managers, office managers, executive assistants, project managers, and other administrative support positions in business, industry, and government.

Students in Digital Media may earn either an Associate degree or a Bachelor degree. Areas of focus include:
- Administrative Information Management
- Digital Animation Technology
- Digital Audio Processing
- Digital Cinema/TV Production
- Information Media Management
- Internet and Web Development

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 a new child's educational game. They may work as video or audio specialists on a documentary of historic sites, 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.

AAS in Digital Communication Technology

<table>
<thead>
<tr>
<th>Credits</th>
<th>General Education Requirements: 17 Credits</th>
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<tbody>
<tr>
<td></td>
<td>ENGLISH</td>
</tr>
<tr>
<td></td>
<td>• ENGL 1010 Introduction to Writing</td>
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<td>• MATH 1010 Intermediate Algebra</td>
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<td></td>
<td>• HUMANITIES/FINE ARTS/FOREIGN LANGUAGE</td>
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<td></td>
<td>• PHIL 2050 Ethics and Values (highly recom</td>
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<td></td>
<td>• Any approved Humanities, Fine Arts, or Foreign</td>
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<td></td>
<td>• SOCIAL AND BEHAVIORAL SCIENCE</td>
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<td></td>
<td>• Any approved Behavioral Science, Social or Political</td>
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<td></td>
<td>• BIOLOGY OR PHYSICAL SCIENCE</td>
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<td>• Any approved Biology or Physical Science Distribution Course</td>
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<td>PHYSICAL EDUCATION/HEALTH/SAFETY OR ENVIRONMENT</td>
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<td>• HLTH 1100 Personal Health and Wellness</td>
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<td>• Any approved PE, Safety or Health Distribution Course</td>
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<td>Diploma Requirements: 30 Credits</td>
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<td>Complete the following:</td>
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<td>• DGM 1110 Digital Media Essentials I</td>
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<td>• DGM 2120 Digital Media Essentials II</td>
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<td>• DGM 2130 Digital Audio Essentials</td>
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<td>• DGM 2110 Digital Motion Picture Essentials</td>
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<td>• DGM 2120 Web Essentials</td>
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<td>• DGM 2210 3D Modeling and Animation Ess</td>
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<td>• DGM 2220 Marketing for Digital Media</td>
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<td>• DGM 2240 Interaction Design</td>
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<td>• ART 1120 2D Design</td>
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<td>• DGM 2250 Principles of Digital Design</td>
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<td>Elective Requirements: 17 Credits</td>
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<td></td>
<td>• Complete 17 credits from approved DGM electives</td>
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<td>Graduation Requirements:</td>
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<td>1 Completion of a minimum of 64 semester credits.</td>
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<td>2 Overall grade point average of 2.0 (C) or above.</td>
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<td>3 Residency hours -- minimum of 20 credit hours through course attendance at UVU.</td>
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<td>4 Completion of GE and specified departmental requirements.</td>
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BS in Digital Media

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<thead>
<tr>
<th>Credits</th>
<th>General Education Requirements: 35 Credits</th>
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<tbody>
<tr>
<td></td>
<td>ENGL 1010 Introduction to Writing</td>
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<td></td>
<td>• ENGL 2010 Intermediate Writing--Humanities/</td>
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<td></td>
<td>Social Sciences</td>
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<td>• ENGL 2020 Intermediate Writing--Science and Technology (3.0)</td>
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<td>Complete one of the following:</td>
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<td>• MATH 1030 Quantitative Reasoning (recom</td>
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<td>• MATH 1040 Introduction to Statistics (3.0)</td>
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<td>• MATH 1050 College Algebra (recommended for Business, Education, Science, and Health Professions majors) (4.0)</td>
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<td>Complete one of the following:</td>
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<td>• HIST 2700 US History to 1877 (3.0)</td>
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<tr>
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<td>• HIST 2710 US History since 1877 (3.0)</td>
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<tr>
<td></td>
<td>• HIST 1700 American Civilization (3.0)</td>
</tr>
<tr>
<td></td>
<td>• HIST 1740 US Economic History (3.0)</td>
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<tr>
<td></td>
<td>• POLS 1000 American Heritage (3.0)</td>
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<td></td>
<td>• POLS 1100 American National Government (3.0)</td>
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<tr>
<td></td>
<td>Complete the following:</td>
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<td></td>
<td>• PHIL 2050 Ethics and Values</td>
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<tr>
<td></td>
<td>• HLTH 1100 Personal Health and Wellness</td>
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<tr>
<td></td>
<td>• PES 1097 Fitness for Life (2.0)</td>
</tr>
<tr>
<td></td>
<td>Distribution Courses:</td>
</tr>
<tr>
<td></td>
<td>• Biology</td>
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<tr>
<td></td>
<td>• Physical Science</td>
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<tr>
<td></td>
<td>• Additional Biology or Physical Science</td>
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<tr>
<td></td>
<td>• Humanities Distribution</td>
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<tr>
<td></td>
<td>• Fine Arts Distribution</td>
</tr>
</tbody>
</table>
Discipline Core Requirements: 50 Credits

- ART 1120 2D Design 3.0
- or DGM 2250 Principles of Digital Design (3.0)
- DGM 1110 Digital Media Essentials I 4.0
- DGM 1210 Digital Media Essentials II 4.0
- DGM 2120 Web Essentials 3.0
- DGM 2220 Marketing for Digital Media 3.0
- DGM 2340 Interaction Design 3.0
- DGM 3220 Digital Media Project Management 3.0
- DGM 312G Digital Media for Intercultural Communication 3.0
- DGM 3130 Digital Storyboarding 3.0
- or DGM 3870 Web Graphics Applications (3.0)
- DGM 4000 Writing for Digital Media 3.0
- or ENGL 4310 Advanced Technical Communication (3.0)
- DGM 4310 Senior Projects I 3.0
- DGM 4330 Corporate Issues in Multimedia 3.0
- DGM 4410 Senior Projects II 3.0

Take one of the following sets: 9.0

Digital Media:
- DGM 2110 Digital Motion Picture Essentials (3.0)
- DGM 2130 Digital Audio Essentials (3.0)
- DGM 2210 Digital Audio Essentials (4.0)
- DGM 2120 Web Essentials (3.0)
- DGM 2240 Interaction Design (3.0)

Information Media Management:
- DGM 2300 Records and Information Management (3.0)
- DGM 2230 Exploring Digital Communication Tools (3.0)
- DGM 3850 Desktop Publishing Skills (3.0)

Elective Requirements: 36 Credits

Complete 36 credits (with a minimum of 19 upper division credits) from department approved electives.

Graduation Requirements:
1. Completion of a minimum of 121 semester credits.
2. Overall grade point average of 2.0 (C) or above, with no grade lower than a "C" in DGM 1110, DGM 1210, 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 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.

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 Digital Media 18 Credits

Emphasis Requirements: 18 Credits

Prerequisite courses:
- DGM 1110 Digital Media Essentials I (4.0)
- DGM 1210 Digital Media Essentials II (4.0)
- DGM 2130 Digital Audio Essentials (3.0)
- DGM 2110 Digital Motion Picture Essentials (3.0)
- DGM 2210 Digital Audio Essentials (4.0)
- DGM 2120 Web Essentials (3.0)
- DGM 2240 Interaction Design (3.0)

Complete the following:
- DGM 3220 Digital Media Project Management 3.0
- DGM 4000 Writing for Digital Media 3.0
- or ENGL 4310 Advanced Technical Communication (3.0)
- DGM 4310 Senior Projects I 3.0
- DGM 4330 Corporate Issues in Multimedia 3.0

Complete 6 credits from the following: 6.0
- DGM 312G Digital Media for Intercultural Communication 3.0
- DGM 3130 Digital Storyboarding (3.0)
- DGM 2220 Marketing for Digital Media (3.0)
- DGM 4410 Senior Projects II (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.)

Specialization in Digital Media 45 Credits

Emphasis Requirements: 30 Credits

Complete the following:
- DGM 1110 Digital Media Essentials I 4.0
- DGM 1210 Digital Media Essentials II 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 2220 Marketing for Digital Media 3.0
- DGM 2240 Interaction Design 3.0
- ART 1120 2D Design 3.0
- or DGM 2250 Principles of Digital Design (3.0)

Elective Requirements: 15 Credits

Complete 15 credits from approved DGM electives (see advisor)

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
Earth Science bachelor programs are: exploration geologist, hydrogeologist, engineering geologist, environmental scientist, science manager, science technician, government regulator, environmental technician, and engineering technician. Current employment opportunities for graduates from Earth Science programs are strong.

**PROGRAMS**

Students in Earth Science may receive: Bachelor of Science in Earth Science with an Emphasis in Geology; Bachelor of Science in Earth Science with an Emphasis in Environmental Management; Bachelor of Science in Earth Science Education; Bachelor of Science or Arts in Integrated Studies with an emphasis in Earth Science.

**Certificate in Water and Wastewater Operations**

<table>
<thead>
<tr>
<th>Discipline Core Requirements</th>
<th>31 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENV T 1000 Environmental Worker Safety (3.0)</td>
<td>3.0</td>
</tr>
<tr>
<td>ENV T 1210 Introduction to Water Reclamation (3.0)</td>
<td>3.0</td>
</tr>
<tr>
<td>ENV T 1360 Introduction to Water Treatment (3.0)</td>
<td>3.0</td>
</tr>
<tr>
<td>ENV T 2100 Environmental Lab and Sampling (3.0)</td>
<td>3.0</td>
</tr>
<tr>
<td>ENV T 3280 Environmental Law (3.0)</td>
<td>3.0</td>
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<tr>
<td>ENGL 1010 Introduction to Writing (3.0)</td>
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</tr>
<tr>
<td>ENGL 2810 Business Computer Proficiency Exam (3.0)</td>
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</tr>
<tr>
<td>MAT 1010 Intermediate Algebra (4.0)</td>
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</tbody>
</table>

**Elective Requirements**

9 Credits

**AS Pre Major in Physical Science**

<table>
<thead>
<tr>
<th>Discipline Core Requirements</th>
<th>63 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010 Introduction to Writing (3.0)</td>
<td>3.0</td>
</tr>
<tr>
<td>ENGL 2010 Intermediate Writing—Humanities/Social Sciences (3.0)</td>
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</tr>
<tr>
<td>OR ENGL 2020 Intermediate Writing—Science and Technology (3.0)</td>
<td>3.0</td>
</tr>
<tr>
<td>OR MATH 1050 College Algebra (4.0)</td>
<td>4.0</td>
</tr>
<tr>
<td>Complete one of the following:</td>
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</tr>
<tr>
<td>HIST 2700 History Since 1877 (3.0)</td>
<td>3.0</td>
</tr>
<tr>
<td>OR HIST 2710 American Civilization (3.0)</td>
<td>3.0</td>
</tr>
<tr>
<td>OR HIST 2740 US Economic History (3.0)</td>
<td>3.0</td>
</tr>
<tr>
<td>OR POLS 1000 American Heritage (3.0)</td>
<td>3.0</td>
</tr>
<tr>
<td>OR POLS 1100 American National Government (3.0)</td>
<td>3.0</td>
</tr>
<tr>
<td>Complete the following:</td>
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<tr>
<td>OR PHIL 2060 Ethics and Values (3.0)</td>
<td>3.0</td>
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<tr>
<td>OR HLTH 1100 Personal Health and Wellness (2.0)</td>
<td>2.0</td>
</tr>
<tr>
<td>OR PES 1097 Fitness for Life (2.0)</td>
<td>2.0</td>
</tr>
</tbody>
</table>

Distribution Courses

| Biology | 3.0 |
| PHYS 2210 Physics for Scientists and Engineers I | 4.0 |
| PHYS 2220 Physics for Scientists and Engineers II | 4.0 |
| Humanities Distribution | 3.0 |
| Fine Arts Distribution | 3.0 |
| Social/Behavioral Science | 3.0 |

**Discipline Core Requirements**

17 Credits

| OR CHEM 1210 Principles of Chemistry I | 4.0 |
| OR CHEM 1215 Principles of Chemistry I Laboratory | 1.0 |

**BS in Earth Science**

121-123 Credits

**General Education Requirements**

27 Credits

| OR ENG 1010 Introduction to Writing | 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 History Since 1877 (3.0) | 3.0 |
| OR HIST 2710 American Civilization (3.0) | 3.0 |
| OR HIST 2740 US Economic History (3.0) | 3.0 |
| OR POLS 1000 American Heritage (3.0) | 3.0 |
| OR POLS 1100 American National Government (3.0) | 3.0 |
| Complete the following: | 3.0 |
| OR PHIL 2060 Ethics and Values | 3.0 |
| OR HLTH 1100 Personal Health and Wellness (2.0) | 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**

56 Credits

| OR BIOL 1010 General Biology | 3.0 |
| OR CHEM 1210 Principles of Chemistry I | 4.0 |
| OR CHEM 1215 Principles of Chemistry I Laboratory | 1.0 |
| OR CHEM 1220 Principles of Chemistry II | 4.0 |
| OR CHEM 1225 Principles of Chemistry II Laboratory | 1.0 |
| OR CHEM 3202 Environmental Chemistry | 3.0 |
| OR GEO 1010 Introduction to Geology | 3.0 |
| OR GEO 1015 Introduction to Geology Laboratory | 1.0 |
| OR GEO 3203 Earth Materials | 4.0 |
| OR GEO 3210 Environmental Geology | 4.0 |
| OR MATH 1090 Trigonometry | 3.0 |
| OR MATH 2040 Principles of Statistics | 4.0 |
| Complete 21 credits from the following list: | 21.0 |
| OR BIOL 3800 Conservation Biology | 3.0 |
| OR BIOL 4500 Principles of Evolution | 3.0 |
| OR ENV 2730 Introduction to Soils | 3.0 |
| OR ENV 3280 Environmental Law | 3.0 |
| OR ENV 3290 Environmental Permits and Reports | 3.0 |
| OR ENV 3790 Hydrology | 3.0 |
| OR ENV 482R Geologic/Environmental Internship | 1.0 |
| OR GEO 482R Geologic/Environmental Internship | 1.0 |
Earth Section

Emphasis in Environmental Management 40 Credits

Emphasis Requirements: 22 Credits
- ENVT 1110 Introduction to Environmental Management 3.0
- ENVT 1200 Environmental Worker Safety 3.0
- ENVT 1300 Environmental Lab and Sampling 3.0
- ENVT 1510 Hazardous Materials Emergency Response 3.0
- ENVT 2560 Environmental Health 3.0
- ENVT 2710 Environmental Careers 1.0
- ENVT 1270 Environmental Microbiology 3.0
- ENVT 3350 Environmental Policy 3.0

Emphasis Elective Requirements: 18 Credits
Take 18 credits from the following: 18.0
- ENVT 1210 Introduction to Water Reclamation and Assessment 4.0
- ENVT 1360 Introduction to Water Treatment (3.0)
- ENVT 2650 Skills for Humanitarian Projects (3.0)
- ENVT 2730 Introduction to Soils (3.0)
- ENVT 282R Environmental Internship (1.0)
- ENVT 3010 Environmental Toxicology (3.0)
- ENVT 3320 Hydraulics of Water (3.0)
- ENVT 3330 Water Resources Management (3.0)
- ENVT 3530 Environmental Management Systems (3.0)
- ENVT 3630 Introduction to Geographic Information Systems (4.0)
- ENVT 3550 Site Investigation (3.0)
- ENVT 3700 Current Topics in Environmental Management (3.0)
- ENVT 3750 Land Use Planning (3.0)
- ENVT 3770 Natural Resources Management (3.0)
- ENVT 3800 Energy Use on Earth (3.0)
- ENVT 450R Special Projects in Environmental Management (1.0)
- GEO 4500 Sedimentary Geology (4.0)
- CHEM 2310 Organic Chemistry I (4.0)

Emphasis in Geology 38 Credits

Emphasis Requirements: 38 Credits
- MATH 1210 Calculus I 5.0
- 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
- GEO 3200 Geologic Hazards 4.0
- GEO 3701 Structure and Tectonics 4.0
- GEO 4500 Sedimentary Geology 4.0
- GEO 4510 Paleontology 4.0
- GEO 4600 Field Experience 4.0

BS in Earth Science Education 121 Credits
Matriculation Requirement:
1. Complete the following courses: GEO 1010, GEO 1015, MATH 1050, MATH 1060, BIOL 1610 with a grade of "C" or higher in each.

Graduation Requirements:
1. Complete a minimum of 30 semester hours of college credit.
2. Complete the department of Earth Science for admission.
3. Complete the following:
   - ENGL 1010 Introduction to Writing 3.0
   - ENGL 2010 Intermediate Writing--Humans/ Sciences 3.0
   - ENGL 4020 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)
     - 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:
- 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 4510 Paleontology 4.0

Graduation 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 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.

Minor in Earth Science 23 Credits
Matriculation Requirements:
1. Admitted to a bachelor degree program at UVU

Discipline Core Requirements:
- GEO 1010 Introduction to Geology 3.0
- GEO 1015 Introduction to Geology Laboratory 1.0
- GEO 3080 Earth Materials 4.0

Complete two from:
- GEO 1020 Prehistoric Life (3.0)
- GEO 1080 Introduction to Oceanography (3.0)
- GEO 1085 Introduction to Oceanography Laboratory (1.0)
- METO 1010 Introduction to Meteorology (3.0)
- METO 1020 Introduction to Meteorology Laboratory (1.0)

Complete two from:
- GEO 3200 Geologic Hazards (4.0)
- GEO 3210 Environmental Geology (4.0)
- GEO 3700 Structure and Tectonics (4.0)
- GEO 4500 Sedimentary Geology (4.0)
- GEO 4510 Paleontology (4.0)

BA/BS in Integrated Studies 123 Credits
The following Integrated Studies Emphasis is available (see the Integrated Studies section of this catalog for complete degree requirement listings.)

Emphasis in Earth Science 18 Credits

Emphasis Requirements: 18 Credits
- GEO 1010 Introduction to Geology 3.0
- GEO 1015 Introduction to Geology Laboratory 1.0

Complete one of the following sets (lab is highly recommended):
- GEO 1220 Historical Geology (3.0)
- GEO 1225 Historical Geology Laboratory (1.0)
- GEO 1080 Introduction to Oceanography (3.0)
- GEO 1085 Introduction to Oceanography Laboratory (1.0)
- METO 1010 Introduction to Meteorology (3.0)
- METO 1020 Introduction to Meteorology Laboratory (1.0)

Complete three courses from the following: 12.0
- METO 3100 Climate and the Earth System (3.0)
- GEO 1015 Introduction to Geology Laboratory (1.0)
- GEO 1010 Introduction to Geology (3.0)
- GEO 1225 Historical Geology Laboratory (1.0)
- GEO 3080 Earth Materials (4.0)
- GEO 3200 Geologic Hazards (4.0)
- GEO 3210 Environmental Geology (4.0)
- GEO 3700 Structure and Tectonics (4.0)
- GEO 4500 Sedimentary Geology (4.0)
- GEO 4510 Paleontology (4.0)

See Course Descriptions section of the catalog for detailed course information. This department manages the following course prefixes:
- ENVT, Environmental Management
- GEO, Geology
- METO, Meteorology

Utah Valley University
Catalog 2008–2009
149
Elementary Education

School of Education
Dean: Brian J. Farnsworth
Office: EB117b
Telephone: 801-863-8006

Associate Dean: Linda E. Pierce
Office: EB116a
Telephone: 801-863-8095

Dean’s Assistant: Wendi Hillman
Office: EB117
Telephone: 801-863-6543

Elementary Education Partner Districts
- Alpine 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 carried out at the UVU Children’s Center, where students have the opportunity to work with young children in a closely supervised setting. Full-time faculty, working with students in the Children’s Center, hold teaching licenses through the State of Utah. The Children’s Center is accredited through NAEYC.

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.

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) Minimum ACT scores; 2) Minimum CAAP score; 3) GPA of 3.00 or higher; and 4) 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.

*Candidates seeking to work with children in settings other than early childhood should 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 30 Credits

Discipline Core Requirements: 26 Credits

- EDEC 1640 Childrens Music and Movement 2.0
- EDEC 2300 Including Young Diverse Learners 2.0
- or EESP 3440 Exceptional Students (2.0)
- EDEC 2500 Child Development Birth to Eight Years 3.0
- EDEC 2600 Introduction to Early Childhood Education 2.0
- EDEC 2810 Child Guidance 3.0
- EDEC 2620 Early Childhood Curriculum 3.0
- EDEC 2640 Literacy and Literature for Early Childhood 3.0
- EDEC 2700 Early Childhood Practicum 3.0
- EDEC 2720 Early Childhood Assessment 2.0
- EDEL 2200 Computer Technology in Education 2.0

Elective Requirements: 2 Credits

- Advisor Approval 2.0

Graduation Requirements:
1. Completion of a minimum of 30 semester credits.
2. Overall grade point average of 2.0 (C) or above. C- or higher in all program courses unless otherwise specified.
3. Residency hours – minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.
5. First aid/CPR certification, food handler’s permit, portfolio review and acceptance by Education Committee.

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

Elective Requirements: 5 Credits

- Advisor Approval 5.0

Graduation Requirements:
1. Completion of a minimum of 36 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. First aid/CPR certification, food handler’s permit, portfolio review and acceptance by Education Committee.

AS Pre Major in Pre-Elementary Education 63 Credits

General Education Requirements: 36 Credits

- ENGL 1010 Introduction to Writing 3.0
- ENGL 2010 Intermediate Writing–Humanities/ Social Sciences 3.0
- or ENGL 2020 Intermediate Writing–Science and Technology 3.0
- MATH 1050 College Algebra 4.0

Elective Requirements: 12 Credits

- Advisor Approval 12.0

Graduation Requirements:
1. Completion of a minimum of 63 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours – minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.
5. First aid/CPR certification, food handler’s permit, portfolio review and acceptance by Education Committee.
Education, Elementary

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.

NOTE: Application forms are available at the beginning of each Spring semester, must be completed by March 1st, and can be obtained in the Education Department, 801-883-8527.

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 will be admitted into Professional courses.

### BS in Elementary Education 122 Credits

#### General Education Requirements: 36 Credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing</td>
<td>3.0</td>
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<tr>
<td>ENGL 2010</td>
<td>Intermediate Writing—Humanities/ Soc. Sciences</td>
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</tr>
<tr>
<td>or ENGL 2020</td>
<td>Intermediate Writing—Science and Technology (3.0)</td>
<td>3.0</td>
</tr>
<tr>
<td>MATH 1050</td>
<td>College Algebra</td>
<td>4.0</td>
</tr>
</tbody>
</table>

Complete one of the following:

- HIST 2700 US History to 1877 (3.0)
- HIST 2710 US History since 1877 (3.0)
- HIST 1700 American Civilization (3.0)
- 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
- PSY 1100 Human Development Life Span (C-grade or higher) 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
- EDEC 2640 Literacy and Literature for Early Childhood (.0)
- EDEC 2500 Child Development Birth to Eight Years (.0)
- EDEC 2610 Child Guidance (3.0)
- EDEC 2640 Literacy and Literature for Early Childhood (3.0)
- EDEC 3800 Assessment for Preprimary (1.0)
- Complete any course 1000 or higher 1.0

##### 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 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.

NOTE: Application forms are available at the beginning of each Spring semester, must be completed by March 1st, and can be obtained in the Education Department, 801-883-8527.

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 will be 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

---

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDEL 4890</td>
<td>Student Teaching–Grades 4-6</td>
<td>4.0</td>
</tr>
<tr>
<td>EDEL 4890</td>
<td>Elementary Education Capstone Seminar</td>
<td>2.0</td>
</tr>
<tr>
<td>PETE 3400</td>
<td>Elementary Classroom Teachers as Movement Educators</td>
<td>2.0</td>
</tr>
</tbody>
</table>

#### Elective Requirements: 15 Credits

Complete 14 credits of the following approved electives 14.0

(If not previously taken. Note: the courses required for a Early Childhood License are grouped together):

- ART 3400 Fundamentals of Art Education (3.0)
- DANC 3400 Dance in the Elementary School (2.0)
- MUSC 3400 Music in the Elementary School (2.0)
- THEA 3713 Childrens Theatre in the Elementary School (2.0)

Early Childhood License

- EDEC 2500 Child Development Birth to Eight Years (3.0)
- EDEC 2800 Intro to Early Childhood Education (2.0)
- EDEC 2610 Child Guidance (3.0)
- EDEC 2640 Literacy and Literature for Early Childhood (3.0)
- EDEC 3620 Curriculum Foundations for Preprimary (3.0)
- EDEC 3800 Assessment for Preprimary (1.0)
- Complete any course 1000 or higher 1.0

---

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Secondary Education

Department Chair: Talitha Hudgins
Office: EB 116B
Telephone: 801-863-6573

Department Office Manager:
Wendy Fletcher
Office: EB 116
Telephone: 801-863-8228

Secondary Education Faculty:

Professor
Roger Wise
Glen Clark
Raquel Cook
Numsiri Kunakemakorn
Talitha Hudgins
Axel Ramirez
Bryan Waite

Assistant Professor
Lexi Powell
Leslie Hudson

Field Coordinator: Richard Allred
Office: EB 115
Telephone: 801-863-6580

Advisors: Lexi Powell
Students with last name A-H
Shauna Requilm
Office: EB 114a
Telephone: 801-863-6555

Students with last name I-O
Leslie Hudson
Office: EB 114f
Telephone: 801-863-8527

Student with last name P-Z
Lexi Powell
Office: EB 114b
Telephone: 801-863-8217

School of Education
Dean: Brian J. Farnsworth
Office: EB117b
Telephone: 801-863-8006

Associate Dean: Linda E. Pierce
Office: EB116a
Telephone: 801-863-8095

Dean’s Assistant: Wendi Hillman
Office: EB117
Telephone: 801-863-6543

Secondary Education Partner Districts
Alpine School District
Granite School District
Jordan School District
Nebo School District
North Summit School District
Park City School District
Provo School District
South Summit School District
Wasatch School District

PROFESSIONAL TEACHER EDUCATION PROGRAM
The Professional Teacher Education Program at Utah Valley University is designed to prepare quality, entry-level candidates for teaching in secondary education programs grades 6-12. All students who matriculate in the professional licensure program must have a major in an approved content area.

The UVU teacher education 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 ACT scores; 2) Minimum CAAP score; 3) GPA of 2.75 or higher; and 4) 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 coursework with the School of Education.

Licensure in Secondary Education

<table>
<thead>
<tr>
<th>Matriculation Requirements:</th>
<th>30 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>License. Baccalaureate (BS and BA)</td>
<td>12</td>
</tr>
<tr>
<td>Certification. Initial Teacher License</td>
<td>12</td>
</tr>
<tr>
<td>Endorsement. Minor in Content Area</td>
<td>6</td>
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<tr>
<td>Endorsement. Additional Area of Certification</td>
<td>3</td>
</tr>
<tr>
<td>Endorsement. Additional Endorsement</td>
<td>3</td>
</tr>
</tbody>
</table>

Discipline Core Requirements: 30 Credits
- EDSC 2540 Development of the Adolescent Student
- EDSC 3000 Educational Psychology
- EDSC 3050 Foundations of American Education
- EDSC 3250 Instructional Media
- EDSC 4250 Classroom Management I
- EDSC 4350 Classroom Management II
- EDSC 4440 Content Area Reading and Writing
- EDSC 4450 Multicultural Instruction/ESL
- EDSC 4550 Secondary Curriculum Instruction and Assessment
- EDSP 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
Electrical Automation and Robotics Technology

Department of Engineering Graphics and Design Technology

Department Chair: David Johnson
Office: CS 704
Telephone: 801-863-8085

Program Coordinator: Dave Adams
Office: CS 620
Telephone: 801-863-6052

Faculty:
Professor
Dave Adams
Office Manager: 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 Sales, Inc.; Mel Price, Electrical Automation Specialists; David Dorbaugh, Kenneccott; Amy Rawlinson, IM Flash Technologies; Russ Terry, Codale Electric Supply, Inc.

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

CAREER OPPORTUNITIES
Electrical Automation and Robotics Technology students may be employed in many different occupations found within the electrical trades. 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, testing, 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 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.

Students will be limited to 15 hours of upper division (3000–4000 level) coursework until matriculation requirements are complete and students have been admitted into upper division status. Students will not be allowed to matriculate and graduate in the same semester.

Electrical Apprenticeship
Electrical Apprentice courses are offered for Electrical Apprentices to complete the Utah State or other related instruction requirements. See Apprenticeship section of this catalog for Electrical Apprentice courses. The Electrical Apprentice courses can be used as requirements for an AAS Degree in Apprenticeship. For further information contact the Apprenticeship Advisor.

Due to the technical nature of the material in EART courses, additional reading and math instruction may be required. More information will be given during advisement.

AAS in Electrical Automation and Robotics Technology 63 Credits

General Education Requirements: 16 Credits
• ENGL 1050 College Algebra (4.0)
• MATH 1000 Quantitative Reasoning (1.0)
• ENGL 2010 Intermediate Writing--Humanities/Composition (3.0)
• ENGL 1110 Basic English (1.0)
• ERT 1060 Electrical Science I (2.0)
• ERT 2710 Electrical Science II (2.0)
• ERT 1130 Basic Electrical (4.0)
• ERT 1130 Basic Electronics--DC/AC (4.0)
• ERT 1130 Basic Electronics (2.0)
• ERT 1130 Electrical Science (1.0)
• ERT 1130 Electrical Science (2.0)
• ERT 1130 Electrical Science (3.0)
• ERT 1130 Electrical Science (4.0)
• ERT 1130 Electrical Science (5.0)

Elective Core Requirements: 17 Credits
• ERT 1130 Basic Electrical (4.0)
• ERT 1130 Basic Electronics--DC/AC (4.0)
• ERT 1130 Electrical Science (2.0)
• ERT 1130 Electrical Science (3.0)
• ERT 1130 Electrical Science (4.0)
• ERT 1130 Electrical Science (5.0)
• ERT 1130 Electrical Science (6.0)
• ERT 1130 Electrical Science (7.0)
• ERT 1130 Electrical Science (8.0)
• ERT 1130 Electrical Science (9.0)
• ERT 1130 Electrical Science (10.0)
• ERT 1130 Electrical Science (11.0)
• ERT 1130 Electrical Science (12.0)
• ERT 1130 Electrical Science (13.0)
• ERT 1130 Electrical Science (14.0)
• ERT 1130 Electrical Science (15.0)

Graduation Requirements: 12 Credits

Elective Requirements: 12 Credits

Graduation Requirements:
1. Completion of a minimum of 63 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours: minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

Emphasis in Electrical Automation 30 Credits

Emphasis Requirements: 30 Credits
• ERT 1130 Basic Electrical Lab (5.0)
• ERT 1200 Electrical Wiring and Code (2.0)
• ERT 1200 DC and AC Machines (9.0)
• ERT 2150 Hydraulics and Pneumatics (3.0)
• ERT 2250 Programmable Logic Controllers 1 (5.0)
• ERT 2270 Programmable Logic Controllers 2 (6.0)

Emphasis in Semiconductor Instrumentation and Maintenance 30 Credits

Emphasis Requirements: 30 Credits
• ECT 1010 DC/AC Circuits Laboratory (2.0)
• ERT 1440 DC Motors (3.0)
• ERT 1440 DC Motors Lab (1.0)
• ERT 1450 AC Motors (3.0)
• ERT 245L AC Motors Laboratory (1.0)
• ERT 2450 Hydraulics and Pneumatics (2.0)
• ERT 245L Hydraulics and Pneumatics Fundamentals (1.0)
• ECT 1720 System Configurations (3.0)
• ECT 281R Cooperative Work Experience (must repeat seven times) (1.0)
• ECT 285R Cooperative Correlated Class (1.0)
• ERT 2750 Programmable Controllers (3.0)
and ERT 275L Programmable Controllers Laboratory (2.0)
or ECT 2310 Microprocessor and Computer Systems (4.0)
• ERT 1250 Electrical Wiring and Code (2.0)
• ERT 1340 Electrical Codes (3.0)

AS Pre Major in Electrical Automation and Robotics Technology 63 Credits

General Education Requirements: 35 Credits
• ENGL 1010 Introduction to Writing (3.0)
• ENGL 2010 Intermediate Writing--Humanities/Composition (3.0)
• ENGL 2020 Intermediate Writing--Science and Technology (3.0)
• MATH 1010 College Algebra (4.0)
• MATH 1020 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)
• POLS 1100 American National Government (3.0)
• POLS 1100 American National Government (3.0)
• POLS 1100 American National Government (3.0)
• PHIL 1050 Ethics and Values (3.0)
• HLTH 1100 Personal Health and Wellness (2.0)
• MATH 1000 Quantitative Reasoning (1.0)
• MATH 1020 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)
• PHIL 1050 Ethics and Values (3.0)
• HLTH 1100 Personal Health and Wellness (2.0)
• PES 1097 Fitness for Life (2.0)

Distribution Courses
• Biology (3.0)
• Physical Science (3.0)
• Additional Biology or Physical Science (3.0)
• Humanities Distribution (3.0)
• Fine Arts Distribution (3.0)
• Social/Behavioral Science (3.0)

Discipline Core Requirements: 16 Credits
• PHIL 2050 Ethics and Values (3.0)
• HLTH 1100 Personal Health and Wellness (2.0)
• HLTH 1100 Personal Health and Wellness (2.0)
• PES 1097 Fitness for Life (2.0)
• PHIL 2050 Ethics and Values (3.0)
• HLTH 1100 Personal Health and Wellness (2.0)
• PES 1097 Fitness for Life (2.0)
• PHIL 2050 Ethics and Values (3.0)
• HLTH 1100 Personal Health and Wellness (2.0)

Elective Requirements: 12 Credits

Graduation Requirements:
1. Completion of a minimum of 63 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours: minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.
**BS in Technology Management 125 Credits**

The following Technical Area is available (see the Technology Management section of this catalog for complete degree requirement listings.)

**Specialization in Electrical Automation and Robotics Technology 45 Credits**

<table>
<thead>
<tr>
<th>Emphasis Requirements:</th>
<th>44 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>• EART 1130 Basic Electrical</td>
<td>4.0</td>
</tr>
<tr>
<td>• EART 1050 Applied Electrical Math</td>
<td>5.0</td>
</tr>
<tr>
<td>• EART 1180 Basic Electrical Lab</td>
<td>5.0</td>
</tr>
<tr>
<td>• EART 1260 Logic</td>
<td>2.0</td>
</tr>
<tr>
<td>• EART 1270 DC and AC Machines</td>
<td>9.0</td>
</tr>
<tr>
<td>• EART 2110 Semiconductors Devices</td>
<td>6.0</td>
</tr>
<tr>
<td>• EART 2150 Hydraulics and Pneumatics</td>
<td>3.0</td>
</tr>
<tr>
<td>• EART 2160 Industrial Solid State Circuit</td>
<td>5.0</td>
</tr>
<tr>
<td>• EART 2250 Programmable Logic Controllers</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
Emergency Services

**Department Chair:** Jeff Maxfield  
**Associate Department Chair:** Gary Noll

**Program Coordinators:**  
Barry Stone, Paramedic  
Margaret Mittelman, EMT

**Faculty:**  
**Associate Professor**  
Jeff Maxfield  
Gary Noll  
Barry Stone  
**Assistant Professor**  
Margaret Mittelman

**Advisors:**  
Wendy Farnsworth  
Melanie Olander

**Institute of Emergency Services and Homeland Security**  
**Utah Fire and Rescue Academy (UFRA)**

**Director:** Jeff Maxfield  
**Associate Director:** Hugh Connor  
**Associate Director:** Jim Hunter

**Office and Training Facilities:**  
Provo Airport  
3131 Mike Jense Parkway  
Telephone: 801-863-7700  
Fax: 801-863-7738  
http://www.ufra.uvu.edu

Advisory Committee/Utah Fire Service Standards and Training Council:  
Chief Stephen H. Higgs, Utah State Fire Chiefs’ Association; Brady George, Utah State Fireman’s Association;  
Fire Marshal Jim Guynn, Utah Fire Marshal’s Association; Training Officer Mike Riley, Utah Hazardous Materials Institute; Battalion Chief Eldon Farnsworth, International Association of Arson Investigators; Fire Management Coordinator Tracy Dunford, Utah Division of Forestry, Fire and State Lands; Craig Golden, Professional Firefighters of Utah; Battalion Chief James Bacon, Utah Fire Service Certification Council; Kevin Kemp, Utah Training Officers Association.

Advisory Board/Institute of Emergency Services and Homeland Security:  
Vincent Liddiard, Dugway Proving Grounds; Coy Porter, Provo City Fire Department; Jeff Maxfield, Institute of Emergency Services and Homeland Security;  
Steve Lutz, Utah Valley University; Darryl Pranger, Utah Valley University; Wayne Hanewicz, Utah Valley University; Larry Marsing, Utah Valley University; Ron Morris, Utah State Fire Marshal; Gary Noll, Utah Valley University; Charles Query, Salt Lake City Fire Department; 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**  
Nationally, over 102,000 jobs in emergency services will be available in the 2000’s. In Utah, approximately 100 openings will be available annually in city and county fire departments. In addition, many local industries have private fire brigades with career opportunities. Opportunities for employment are available in fire departments, public safety departments, and ambulance companies for firefighters, driver-operators, EMTs, arson investigators, fire marshals and fire inspectors. Private industry positions are available as safety officers, fire marshals, fire inspectors, and emergency medical personnel.

**CLASS SCHEDULING**  
Emergency Services classes are scheduled to meet the needs of firefighters working various shift assignments. During each semester, classes are offered during the day, afternoons, and evenings. 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.ufra.uvu.edu.

**PROGRAM REQUIREMENTS FOR ENROLLMENT**  
There are departmental enrollment requirements for Recruit Candidate Academy 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 1310, 1320, 1330, and 1340. 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 COMPASS Writing/DRP scores of 80+/77+, or ACT English/ACT Reading scores of 19+/19+, or ACT English/ACT Composite scores of 19+/19+, or SAT English score of 500+, or completion of ENGH 0990 or higher.

5. Obtain COMPASS Pre-Algebra score of 70+, or ACT mathematics score of 17+, 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 COMPASS Writing/DRP scores of 80+/77+, or ACT English/ACT Reading scores of 19+/19+, 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 COMPASS Pre-Algebra score of 70+, or ACT mathematics score of 17+, or SAT mathematics score of 450+, or completion of MAT 0990 or higher, or completion of FSF 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-510 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**  
Five options are available: (1) One-Year Certificate, (2) Associate in Applied Science Degree, Emergency Services major with a Fire Officer Specialization or a Firefighter/Paramedic Specialization or a Wildland Fire Management Specialization, (3) Associate in Science (4) Bachelor of Science Degree, Emergency Services Administration major with an Emergency Services Management Specialization or an Emergency Care Specialization, (5) Bachelor of
Science in Technology Management Degree with a Technical Specialty in Emergency Services

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 30 CREDITS

Discipline Core Requirements: 30 Credits

Complete the following:

- ESEC 1140 Emergency Medical Technician--Basic
- ESFF 1000 Introduction to Emergency Services
- ESFF 1310 Recruit Candidate Academy--Fundamentals
- ESFF 1320 Recruit Candidate Academy--Skills
- ESFF 1330 Recruit Candidate Academy--Operations
- ESFF 1340 Hazardous Materials First Responder

Graduation Requirements:

1. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
2. Completion of 60 semester credits.
3. A Technical Specialty in Emergency Services that is posted to the UVU transcript.

Certificate in Paramedic 31 CREDITS

Discipline Core Requirements: 31 Credits

Complete the following:

- ESEC 3110 Paramedic I
- ESEC 3120 Paramedic II
- ESEC 3130 Paramedic III
- ESEC 4100 Paramedic IV
- ESEC 4120 Paramedic Work Experience

Graduation Requirements:

1. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
2. Completion of 60 semester credits.

AAS in Emergency Services 63 CREDITS

General Education Requirements: 16 Credits

- ENGL 1010 Introduction to Writing
- ENGL 1040 Career Writing for Technology
- ENGL 1350 Mathematics for the Fire Service
- MAT 1010 Intermediate Algebra
- MAT 1000 Integrated Beginning and Intermediate Algebra

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.

Certificate in Firefighter/Emergency Care 48 CREDITS

Emphasis in Fire Officer 47 Credits

Emphasis Requirements: 21 Credits

Choose 21 credits from the following:

- ESFF 2030 Fire Protection and Detection Systems
- ESFF 2060 Building Construction for the Fire Serviceteam
- ESFF 2010 Fire Officer I: Supervision and Leadership
- ESFF 2011 Fire Instructor I and II
- ESFF 2020 Fire Officer III
- ESFF 2031 Fire Investigator I
- ESFF 2032 Fire Investigator II
- ESFF 2050 Fire Officer Work Experience
- ESFW 2500 Wildland/Urban Interface Fire Protection

Emphasis Elective Requirements: 26 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.

Emphasis in Wildland Fire Management 47 Credits

Emphasis Requirements: 29 Credits

- ESFW 1400 Wildland Firefighting Fundamentals
- ESFW 1410 Wildland Firefighter internship I
- ESFW 1420 Wildland Firefighter Internship II
- ESFW 2300 Wildland Firefighter Basics
- ESFW 2400 Advanced Wildland Firefighter III
- ESFW 2430 Wildland Firefighter Internship III

Emphasis Elective Requirements: 18 Credits

- Any Emergency Services or advisor approved courses

BS in Emergency Services Administration 120 CREDITS

General Education Requirements: 35 Credits

- ENGL 1010 Introduction to Writing
- ENGL 2010 Intermediate Writing--Humanities/Social Sciences
- ENGL 2240 Intermediate Writing--Science and Technology

Graduation Requirements:

- MATH 1010 Quantitative Reasoning
- MATH 1040 Introduction to Statistics
- MATH 1050 College Algebra

Complete the following:

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

Distribution Courses:

- Biology
- Social Science

Discipline Core Requirements: 28 Credits

- ESFF 1030 Introduction to Emergency Services
- ESEC 1140 Emergency Medical Technician--Basic
- ESMG 3100 Introduction to Homeland Security
- ESMG 3200 Health and Safety Program Management

Complete the following:

- MATH 1050 College Algebra
- MATH 1070 Political Science Distribution

Elective:

- MATH 4500 Customer and Public Relations
- ESMG 4650 Emergency Services Capstone
## Emergency Services

### Elective Requirements: 32 Credits
- Any Emergency Services or related advisor approved courses.
- Any courses 1000 or higher

### Emphasis
Complete one of the following:
- **Emergency Care**
- **Emergency Management**

### 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 listing, see page 25.

### Emphasis in Emergency Care 31 Credits

### Emphasis Requirements: 31 Credits
- **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 Work Experience 6.0

### Emphasis in Emergency Management 25 Credits

### Emphasis Requirements: 25 Credits
- **ESMG 3150** Public Program Administration 3.0
- **ESMG 3300** Master Planning for Public Emergency Services 3.0
- **ESMG 3350** Analytical Research Approaches to Public Emergency Services 3.0
- **ESMG 4400** Management, Politics, and Regulations for the Emergency Services 3.0
- **ESMG 4550** Principles of Disaster and Emergency Management 3.0
- **ESMG 4600** Public Administration and Emergency Management 3.0
- **ACC 3000** Financial Managerial and Cost Accounting Concepts 4.0
- **ENGL 3320** Grant and Proposal Writing 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.)

### Specialization in Emergency Services 45 Credits

### Emphasis Requirements: 45 Credits
Complete 45 credits from the following: 45.0
- **ESEC 1140** Emergency Medical Technician--Basic (6.0)
- **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 Work Experience (6.0)
- **ESFF 1000** Introduction to Emergency Services (4.0)
- **ESFF 1010** Firefighting Fundamentals I (3.0)
- **ESFF 1210** Firefighting Skills I (4.0)
- **ESFF 1220** Firefighting Fundamentals and Skills II (3.0)
- **ESFF 1310** Recruit Candidate Academy--Fundamentals (6.0)
- **ESFF 1320** Recruit Candidate Academy--Skills (3.0)
- **ESFF 1330** Recruit Candidate Academy--Operations (3.0)
- **ESFF 1340** Hazardous Materials First Responder (3.0)
- **ESFF 1350** Mathematics for the Fire Service (3.0)
- **ESFF 1370** Fundamentals of Apparatus Operation (3.0)
- **ESFF 1800** Fire Apparatus Skill (3.0)
- **ESFF 2410** Hazardous Materials Technician Fundamentals (3.0)
- **ESFF 2420** Hazardous Materials Technician Skills (2.0)
- **ESFF 2430** Hazardous Materials Chemistry (3.0)
- **ESFF 2700** Technical Rescue Principles (3.0)
- **ESFF 2710** Environmental Rescue (3.0)
- **ESFF 2730** Rope Rescue (3.0)
- **ESFF 2020** Incident Command (3.0)
- **ESFF 2030** Fire Inspector I (3.0)
- **ESFF 2050** Fire Protection and Detection Systems (3.0)
- **ESFO 2080** Building Construction for the Fire Services (3.0)
- **ESFO 2100** Fire Officer I: Supervision and Leadership (3.0)
- **ESFO 2110** Fire Instructor I and II (3.0)
- **ESFO 211A** Fire Service Instructor I (1.0)
- **ESFO 211B** Fire Service Instructor II (2.0)
- **ESFO 2200** Fire Officer II (3.0)
- **ESFO 2310** Fire Investigator I (3.0)
- **ESFO 2320** Fire Investigator II (3.0)
- **ESFO 2330** Public Fire Education I (2.0)
- **ESFO 2400** Fire Officer Work Experience (3.0)
- **ESMG 3150** Public Program Administration (3.0)
- **ESMG 3200** Health and Safety Program Management (3.0)
- **ESMG 3250** Managing Emergency Medical Services (3.0)
- **ESMG 3300** Master Planning for Public Emergency Services (3.0)
- **ESMG 4650** Emergency Services Capstone (3.0)
- **ESWF 1400** Wildland Firefighting Fundamentals (4.0)
- **ESWF 2500** Wildland/Urban Interface Fire Protection (3.0)

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

- ESEC, Emergency Services-Emergency Care
- ESFF, Emergency Services - Firefighting
- ESFO, Emergency Services - Fire Officer
- ESMG, Emergency Services - Management
- ESWF, Emergency Services - Wildland Firefighter
Engineering Graphics and Design Technology

Department Chair: David Manning
Office: CS 704f
Telephone: 801-863-8085 or 801-863-8363

Program Coordinator: Robert Price
Office: CS 704c
Telephone: 801-863-8145

Faculty:

Professor
Rod Kendall
David Manning
Darin Taylor

Assistant Professor
Robert Price
Danial Perry
Sid Smith

Visiting Professor
Steven Trane

Office Manager: Christine Bigelow
Office: CS 704
Telephone: 801-863-8363

Advisor: Jessie Stewart
Office: CS 635
Telephone: 801-863-6597

Advisory Committees:

Mechanical: Jackson McCourt, Calderia; Mike Thompson, Flowserve; Dan Olsen, Globalism.

Structural: Steve Comer, CKR Engineering; Terry Beighley, Intermountain Bridge Detailers; Pam Foote, SEI; Steve Holdaway, Tectonic Steel, Inc.

Architectural: Scott Bartlett, Boss Engineering; Glen Barton, CEntr; Kevin Madison, KMA & Associates; Tyson Munford, Log Craft; Paul Magley, Magley Companies Inc.; Steve Sandstrom, Sandstrom Associates Architecture.

Electrical: Keith Hegerhorst, Hegerhorst Power Engineering.

Civil: Alan York, Provo City; Clyde Naylor, Utah County; Matt Brown, M.W. Brown Engineering; Brant Tuttle, Northern Engineering.

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

CAREER OPPORTUNITIES
The Engineering Graphics and Design Technology program prepares students for career opportunities in drafting, drafting technology, drafting office, drafting engineering, drafting engineering office, and related fields. It is imperative that they develop good human relations skills and professional work habits.

JOE 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 winning 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's job requires working closely with both professional and nonprofessional people. They also do liaison work between the shop or field and the engineering office. It is essential they be neat in appearance and develop professional work habits.

JOE DESCRIPTION – LAND SURVEYING

Surveying Technicians work out-of-doors doing surveys of property, roads, pipelines, subdivisions, and all types of construction projects. They may work in specialized fields such as topographic mapping, mine surveying, 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 also work closely with the public so it is imperative that they develop good human relations skills and professional work habits.

AAS in Drafting Technology 63 Credits

General Education Requirements: 16 Credits

- ENGLISH
  - ENGL 1010 Introduction to Writing (3.0)
  - ENGL 1060 Career Writing for Technology (3.0)
  - ENGL 106A Career Writing for Technology--A (2.0)
  - MGMT 2200 Business Communications (3.0)

- SOCIAL AND BEHAVIORAL SCIENCE
  - MGMT 3000 Organizational Behavior (3.0)
  - Any approved Behavioral Science, Social, or Political Science

- PHYSICAL OR SCIENCE
  - ENGT 1810 Principles of Technology (2.0)
  - PHYSICAL EDUCATION/HEALTH/SAFETY OR ENVIRONMENT

Elective Requirements: 8 Credits

Choose three courses from the following list for a minimum of 8 credits:

- EGDT 1040 Computer Aided Drafting--AutoCAD (3.0)
- EGDT 1610 Technical Math--Geometry/Trig (3.0)
- ENGL 1010 Introduction to Writing (3.0)
- ENGL 1060 Career Writing for Technology (3.0)
- ENGL 106A Career Writing for Technology--A (2.0)
- MGMT 2200 Business Communications (3.0)

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.

PROGRAMS

Students in the Engineering Graphics and Design Technology program may earn an Associate in Applied Science Degree, an Associate in Science
### AS Pre Major in Drafting Technology 61 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 (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:
- PHIL 2050 Ethics and Values 3.0
- HLTH 1100 Personal Health and Wellness 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:** 43 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 2610 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)

**Cooperative Education**

Cooperative Education is highly recommended as an elective in these majors. Two credits may be applied towards graduation.

See Course Descriptions section of the catalog for detailed course information. This department manages the following course prefixes:
- ECT, Electronic and Computer Technology
- EGDT, Engineering Graphics and Design Technology
- TCT, Telecommunications Technology

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

Basic Composition/English as a Second Language (ESL)

Department Chair: Forrest G. Williams
Office: LA 234e
Telephone: 801-863-8494

Advisor/Administrative Assistant:
Giovanna Alisa
Office: LA 234a
Telephone: 801-863-8729

Faculty:
Professor
Deborah R. Marrott
Associate Professor
Melinda Bender
Forrest G. Williams
Lecturer
Allison McMurtrey

University College
Dean: Bonnie G. Henrie
Office: LA 210c
Telephone: 801-863-8311

Associate Dean: K.D. Taylor
Office: LA 210e
Telephone: 801-863-8949

Assistant Dean: Michelle Kearns
Office: LA 210d
Telephone: 801-863-6746

Administrative Assistant:
Office: LA 210
Telephone: 801-863-6712

OTHER SERVICES
Writing Center:
Academic Tutoring: LA 201
Telephone: 801-863-8099

Learning Assistance: John Sperry
Office: LA 221p
Telephone: 801-863-7418

The Basic Composition/ESL Department is dedicated to assisting students and community members who wish to improve their writing 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
English and Literature

English courses taken at UVU apply towards Bachelor, AA/AS and AAS degrees, minors, diplomas, and certificates. Courses should transfer to most four-year institutions of higher learning.

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, English Literature, and Technical Communication. A certification in Technical Writing is available for students who have completed a student’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/Literature Department for further information concerning course requirements.

PROGRAMS

AA/AS Pre Major in English as an Emphasis in Technical Communication

General Education Requirements: 35 Credits

- ENGL 1010 Introduction to Writing
- ENGL 1020 Intermediate Writing—Humanities/Social Sciences
- ENGL 2020 Intermediate Writing—Science and Technology

Complete one of the following:

- MATH 1030 Quantitative Reasoning
- MATH 1040 Introduction to Statistics
- MATH 1050 College Algebra
- MATH 1060 Technical Communication

Complete one of the following:

- HIST 2700 US History to 1877
- HIST 2710 US History since 1877
- HIST 1700 American Civilization
- HIST 1740 US Economic History
- POLS 1000 American Heritage
- POLS 1100 American National Government

Complete the following:

- PHIL 2500 Ethics and Values
- PES 1097 Fitness for Life

Distribution Courses:

- Biology
- Physical Science
- Additional Biology or Physical Science
- ENGL 2600 Critical Introduction to Literature
- Fine Arts Distribution
- Social/Behavioral Science

Discipline Core Requirements: 15 Credits

Select one from the following list:

- ART 1400 Graphic Computer Applications
- ART 2410 Typography and Layout II
- INFO 1100 Exploring the Digital Domain

AA/AS Pre Major in English

General Education Requirements: 35 Credits

- ENGL 1010 Introduction to Writing
- ENGL 2010 Intermediate Writing—Humanities
- MATH 1000 Quantitative Reasoning
- MATH 1050 College Algebra
- MATH 2110 Calculus I

Complete one of the following:

- MATH 1030 Quantitative Reasoning
- MATH 1040 Introduction to Statistics
- MATH 1050 College Algebra
- MATH 1060 Technical Communication

Complete one of the following:

- HIST 2700 US History to 1877
- HIST 2710 US History since 1877
- HIST 1700 American Civilization
- HIST 1740 US Economic History
- POLS 1000 American Heritage
- POLS 1100 American National Government

Complete the following:

- PHIL 2500 Ethics and Values
- PES 1097 Fitness for Life

Distribution Courses:

- Biology
- Physical Science
- Additional Biology or Physical Science
- ENGL 2600 Critical Introduction to Literature
- Fine Arts Distribution
- Social/Behavioral Science

Discipline Core Requirements: 15 Credits

Select one from the following list:

- ART 1400 Graphic Computer Applications
- ART 2410 Typography and Layout II
- INFO 1100 Exploring the Digital Domain

College of Humanities and Social Sciences

Interim Dean: David P. Yells
Office: LA 209d
Telephone: 801-863-7435
Elective Requirements: 10 Credits
- FOR AA DEGREE: One Foreign Language 10.0
- 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.
3. Residency hours -- minimum of 20 credit hours through course attendance at UUU.
4. Completion of GE and specified departmental requirements.
5. For the AA degree, completion of 10 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; and ENGL 2610, British Literature before 1800, or ENGL 2620, British Literature after 1800.

General Education Requirements: 35 Credits
- ENGL 1010 English Composition I (3.0)
- or ENGL 1020 Intermediate Writing 3.0
- or ENGL 1030 Intermediate Writing & Communication 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 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)
- **PHIL 2055 Personal Health and Wellness** (2.0)
- **PES 1097 Fitness for Life** (2.0)

**Distribution Courses**
- **Biology** 3.0
- **Physical Science** 3.0
- **Additional Biology or Physical Science** 3.0
- **Humanities Distribution** 3.0
- **Fine Arts Distribution** 3.0
- **Social/Behavioral Science** 3.0

**Discipline Core Requirements: 22 Credits**
- **ENGL 2510 American Literature before 1865 (3.0)**
- **ENGL 2610 British Literature before 1800 (3.0)**
- **ENGL 2620 British Literature after 1800 (3.0)**
- **ENGL 2630 Critical Introduction to Literature (3.0)**
- **ENGL 3090 Professional Considerations for the English Major**
- **ENGL 3091 Advanced Writing for English Majors**
- **ENGL 3890 Contemporary Critical Approaches to Literature (3.0)**
- **ENGL 4950 Senior Seminar**

**Language Core- Complete one of the following:**
- **ENGL 3010 Rhetorical Theory** (3.0)
- **ENGL 3020 Modern English Grammar** (3.0)
- **ENGL 3040 History of the English Language (3.0)**

**Emphasis:**
- Complete one of the following:
  - **Creative Writing** 24.0
  - **Creative Writing** 24.0

**Elective Requirements: 39 Credits**
- **FOR BA DEGREE: One Foreign Language** 16.0
- **FOR BA DEGREE: Complete any courses 1000 level or higher** 16.0
- **FOR BS DEGREE: Complete any courses 1000 level or higher** 36.0
- **Complete any courses upper division courses** 3.0

**Graduation Requirements:**
1. Completion of a minimum of 120 semester credits.
2. Overall grade point average of 2.0 (C) or above.
3. Completion of GE and specified departmental requirements.
4. For the BA degree, completion of 18 credit hours of course work from one language to include the 1010, 1020, 2010, and 2020 levels or transferred equivalents.
5. Residency hours -- minimum of 30 credit hours through course attendance at UUU, 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.

**Footnotes:**
- Should be taken early in the student’s course of study, by the junior year at the latest.
- **Sh** Should be taken early in the student’s junior year, as it serves as crucial preparation for nearly all upper-division English courses.

**Emphasis in Creative Writing 24 Credits**

**Emphasis Requirements:**
1. Complete ALL of the following:
   - **ENGL 3420 Intermediate Fiction Writing** 3.0
   - **ENGL 3440 Intermediate Poetry Writing** 3.0
   - **ENGL 3450 Intermediate Creative Nonfiction Writing** 3.0
   - **ENGL 412R Studies in Literary Genres** 3.0
   - Complete TWO from the following:
     - **ENGL 4420 Advanced Fiction Writing (3.0)**
     - **ENGL 4430 Advanced Poetry Writing (3.0)**
     - **ENGL 4450 Advanced Creative Nonfiction Writing (3.0)**
   - Complete any TWO upper-division ENGL courses 6.0

**Emphasis in Literary Studies 24 Credits**

**Emphasis Requirements:**
1. 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
   - **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 Victorian British Literature** 3.0
   - **ENGL 3660 Modern British Literature** 3.0
   - **ENGL 3670 Contemporary British Literature** 3.0
   - Complete any upper-division ENGL courses 12.0
   - or any upper-division course listed above that has not been previously completed

**BA/BS in English Education 120 Credits**

Matriculation Requirements:
1. Completion of AA/AS degree.
2. Complete the following courses: ENGL 2600, Critical Introduction to Literature; ENGL 2510, American Literature before 1865; ENGL 2610, British Literature before 1800, or ENGL 2620, British Literature after 1800.

General Education Requirements: 36 Credits
- **ENGL 1510 Introduction to Writing** 3.0
- **ENGL 2010 Intermediate Writing--Humanities/ Social Sciences** 3.0

or ENGL 2020 Intermediate Writing--Science and Technology 3.0
- **MATH 1050 College Algebra** 4.0

Complete one of the following:
- **HIST 2700 US History to 1877 (3.0)**
- **HIST 2710 US History since 1877 (3.0)**
- **HIST 1700 American Civilization (3.0)**
- **HIST 1740 US Economic History (3.0)**
- **POLS 1000 American Heritage (3.0)**
- **POLS 1100 American Natural Government (3.0)**

Complete the following:
- **PHIL 2050 Ethics and Values** 3.0
- **PHIL 3150 Rhetorical Theory (3.0)**
- **PHIL 3020 Modern English Grammar** (3.0)
- **PHIL 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
- **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 Victorian British Literature** 3.0
- **ENGL 3660 Modern British Literature** 3.0
- **ENGL 3670 Contemporary British Literature** 3.0

Complete TWO from the following:
- **ENGL 3090 Advanced Writing for English Majors** (3.0)
- **ENGL 3420 Intermediate Fiction Writing** (3.0)
- **ENGL 3440 Intermediate Poetry Writing** (3.0)
- **ENGL 3650 Victorian British Literature** (3.0)
- **ENGL 3660 Modern British Literature** (3.0)
- **ENGL 3670 Contemporary British Literature** (3.0)
- **ENGL 3710 Literature of Cultures and Places** (3.0)
- **ENGL 374G World Literature** (3.0)
- **ENGL 3760 Mormon Literature** (3.0)
- **ENGL 3820 History of Literary Criticism** (3.0)
- **ENGL 4010 Studies in Language** (3.0)
- **ENGL 410R Studies in Literary Genres** (3.0)
- **ENGL 4250 Adolescent Literature** (3.0)
- **ENGL 4420 Advanced Fiction Writing** (3.0)
- **ENGL 4440 Advanced Poetry Writing** (3.0)
- **ENGL 4460 Advanced Creative Nonfiction Writing (3.0)**
- **ENGL 4570 Studies in the American Novel (3.0)**
- **ENGL 4620 Chaucer (3.0)**
Minor in English Education 18 CREDITS
Matriculation Requirements:
1. Complete the following courses: ENGL 260, Critical Introduction to Literature; ENGL 210, American Literature before 1865; and ENGL 220, British Literature before 1800, or ENGL 210, British Literature after 1865.
2. Must be accepted into a Secondary Education major.

Discipline Core Requirements: 18 Credits
- ENGL 210 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 the following:
- ENGL 3800 Contemporary Critical Approaches to Literature
- ENGL 4210 Methods in Teaching Literacy I (3.0)
- ENGL 4220 Methods in Teaching Literacy 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
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 3655 Victorian British Literature (3.0)
- ENGL 3660 Modern British Literature (3.0)
- ENGL 3670 Contemporary British Literature (3.0)
Graduation Requirements:
1. Complete all courses with no grade lower than a C- and no grade lower than a B- in methods courses.

Minor in English Creative Writing 21 CREDITS
Discipline Core Requirements: 18 Credits
- ENGL 2250 Creative Process and Imaginative Writing (3.0)
- ENGL 2340 Intermediate Fiction Writing (3.0)
- ENGL 3430 Intermediate Creative Nonfiction Writing (3.0)
- ENGL 4420 Advanced Fiction Writing (3.0)
- ENGL 4440 Advanced Poetry Writing (3.0)
- ENGL 4430 Playwriting for Creative Writers (3.0)
- ENGL 4450 Advanced Creative Nonfiction Writing (3.0)
- ENGL 2510 Introduction to Literature
- ENGL 2520 American Literature before 1865
- ENGL 2610 British Literature before 1800
- ENGL 2620 British Literature after 1865
Complete the following:
- ENGL 3010 Rhetorical Theory
- ENGL 3610 Medieval Literature
- ENGL 3620 Tudor British Literature
- ENGL 3630 Stuart British Literature
- ENGL 3640 Restoration and 18th Century British Literature
- ENGL 3650 Romantic British Literature
- ENGL 3655 Victorian British Literature
- ENGL 3660 Modern British Literature
- ENGL 3670 Contemporary British Literature
Graduation Requirements:
1. Complete all courses with no grade lower than a C- and no grade lower than a B- in methods courses.

Minor in English Literary Studies 18 CREDITS
Matriculation Requirements:
1. Complete the following courses: ENGL 260, Critical Introduction to Literature; ENGL 210, American Literature before 1865; and ENGL 220, British Literature before 1800, or ENGL 210, British Literature after 1865.

Discipline Core Requirements: 18 Credits
- ENGL 3040 Advanced Writing for English Majors
- ENGL 3890 Contemporary Critical Approaches to Literature
Complete the following:
- ENGL 3510 Early American Literature
- ENGL 3520 Literature of the American Renaissance
- ENGL 3525 American Literary Realism and Naturalism
- ENGL 3530 Modern American Literature
- ENGL 3540 Contemporary American Literature
Complete the following:
- ENGL 3610 Medieval Literature
- ENGL 3620 Tudor British Literature
- ENGL 3630 Stuart British Literature
- ENGL 3640 Restoration and 18th Century British Literature
- ENGL 3650 Romantic British Literature
- ENGL 3655 Victorian British Literature
- ENGL 3660 Modern British Literature
- ENGL 3670 Contemporary British Literature

Minor in Technical Communication 20 CREDITS
Matriculation Requirements:
1. Complete 35 semester credits with a cumulative GPA: 2.5 minimum.
2. Admission to a bachelor degree program at UVU.

Discipline Core Requirements: 20 Credits
- ENGL 2600 Critical Introduction to Literature
- ENGL 3010 Rhetorical Theory
- ENGL 4010 Studies in Language
- ENGL 4010 Advanced Technical Communication
Complete FOUR courses from the following:
- ENGL 3050 Advanced Editing and Design for Print Media
- ENGL 3320 Grant and Proposal Writing
- ENGL 3340 Designing Electronic Documentation
- ENGL 4320 Document Management
- ENGL 436R Topics in Technical Communication
Capstone Course: Complete ONE of the following:
- ENGL 4530 Senior Project
- ENGL 489R Internship

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
Matriculation Requirements: 18 Credits
Complete the following:
- ENGL 2600 Critical Introduction to Literature
Complete 15 hours of upper-division ENGL courses.
Course selection must be approved by English advisor.

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:

- 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
The English as a Second Language Program has three goals:

• To assist international and non-native English-speaking students in becoming proficient in the English communication skills of listening, speaking, writing and reading.

• To prepare international and non-native English-speaking students to succeed either in college or in the job market.

• To familiarize international and non-native English-speaking students with the American culture.

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 college for their 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
Facilities Management

Department of Construction Technologies

Department Chair: Barry Halsted
Office: GT 601
Telephone: 801-863-815

Program Coordinator: Eric Linfield
Office: GT 613D
Telephone: 801-863-8250

Faculty:
Associate Professor
Eric Linfield

Office Manager: Sandra Ozuna
Office: GT 613e
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

• purchasing
• budgeting and accounting
• preventative maintenance and protection of physical property
• scheduling regular maintenance of facilities
• planning and logistics

PROGRAMS
Two options are available: An Associate in Applied Science degree and a Bachelor of Science Degree in Technology Management.

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

AAS in Facilities Management 64 CREDITS

General Education Requirements: 18 Credits
• ENGL 1010 Introduction to Writing 3.0
• EGDT 1600 Technical Math—Algebra (MATH 1050 required for the Bachelors Degree) 3.0
• SOC 1010 Introduction to Sociology 3.0
• PHIL 2050 Ethics and Values 3.0
• PHYS 1010 Elementary Physics 3.0
• ENVT 1200 Environmental Worker Safety 3.0

Discipline Core Requirements: 46 Credits
• ACRT 2420 Heating and Air Conditioning Controls 5.0
• BCCM 1120 Blueprint Reading 2.0
• BCCM 3270 Residential Project Management and 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
• ECT 1000 Survey of Electronics 2.0
• FAC 1010 Survey of Facilities Management 3.0
• FAC 1600 Survey of Grounds and Building Maintenance (optional) (3.0)
• FAC 281R Cooperative Work Experience (1.0)
• FAC 285R Cooperative Correlated Class (1.0)
• DGM 2100 Business Computer Proficiency 3.0
• MGMT 2200 Business Communications 3.0
• MGMT 3170 Entrepreneurship 3.0

Graduation Requirements:
1 Completion of a minimum of 64 semester credits.
2 Overall grade point average of 2.0 (C) or above (department may require a higher GPA).
3 Residency hours: minimum of 20 credit hours through course attendance at UVU
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 Facilities Management 48 Credits

Emphasis Requirements: 46 credits
• ACRT 2420 Heating and Air Conditioning Controls 5.0
• BCCM 1120 Blueprint Reading 2.0
• BCCM 3270 Residential Project Management and 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 1600 Technical Math—Algebra 3.0
• ECT 1000 Survey of Electronics 2.0
• ENVT 1200 Environmental Worker Safety 3.0
• FAC 1010 Survey of Facilities Management 3.0
• FAC 1600 Survey of Grounds and Building Maintenance (optional) (3.0)

Facilities Management

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
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.

A Bachelor of Science Degree (BS) in Business with a Finance and Banking Specialization is available for students interested in this area.

PROGRAMS
Students interested in finance and economics may receive a Bachelor of Science Degree (BS) in Business with a Finance and Banking 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.)

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 1010 Intro to Writing-Humanities/Social Sciences or ENGL 2020 Intermediate Writing-Science and Technology (3.0)
- MATH 1050 College Algebra 4.0
- An Advanced Placement (AP) Mathematics Test with a score of 3 or higher
Complete one of the following:
- HIST 2700 US History to 1877 (3.0)
- 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
- ECON 2020 Macroeconomics *(fulfills Social/Behavioral Science credit)
- Biology 3.0
- Physical Science 3.0
- Additional Biology or Physical Science 3.0
- Humanities Distribution 3.0
- Fine Arts Distribution 3.0

Discipline Core Requirements: 50 Credits

Business Foundation Courses:
- ACC 2100 Financial Accounting 3.0
- ACC 2200 Managerial Accounting 3.0
- Business Computer Proficiency Exam ** or DGM 2100 Business Computer Proficiency 3.0
- MATH 1100 Introduction to Calculus 4.0
- MGMT 2000 Business Communications * 3.0
- ECON 2010 Microeconomics 3.0
- MGMT 2340 Business Statistics I 3.0
- MGMT 2390 Effective Business Presentations 3.0

Business Core Courses:
- INFO 3120 Principles of Information Systems--A Managerial Approach 3.0
- LEGL 3000 Business Law 3.0
- MGMT 3010 Principles of Management 3.0
- MGMT 3100 Principles of Finance* 3.0
- MGMT 3450 Operations Management* 3.0
- MGMT 3600 Principles of Marketing 3.0
- MGMT 3890 Career Preparation 2.0
- MGMT 4800 Strategic Management* 3.0
- MGMT 4830 Strategic Management Capstone Simulation 1.0
- MGMT 493R Entrepreneurship Lecture Series (1.0) or MGMT 495R Executive Lecture Series 1.0

Emphasis Requirements: 15 Credits
- MGMT 330G Survey of International Business 3.0
- MGMT 3150 Financial Management 3.0
- MGMT 3400 Investment Management 3.0
- MGMT 4100 Management of Financial Institutions 3.0
- ECON 3020 Intermediate Microeconomics 3.0

Emphasis Elective Requirements: 12 Credits
Select 12 credits from the following list:
- ECON 4150 Public Finance
- MGMT 4160 Portfolio Management
- ECON 4170 Derivative Securities
- MGMT 4180 International Finance Management
- MGMT 4400 New Venture Financing
- MGMT 4540R Advanced Topics in Finance
- Any Accounting Course Numbered 3010 or higher

Elective Requirements: 10 Credits
Select 10 credits of General Education courses.

Graduation Requirements:
1. Completion of a minimum of 123 semester credits required in the BS degree; at least 40 credit hours must be upper-division courses.
2. Overall grade point average 2.0 or above with a minimum of 2.5 GPA in all Woodbury School of Business courses. No grade lower than a “C-” in core and specialization courses.
3. Residency hours: Minimum of 30 credit hours of business courses through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.
5. 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 on each module or complete the DGM 2010 course or DGM 20A-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 125 CREDITS
General Education Requirements: 36 Credits
- ENGL 1010 Introduction to Writing 3.0
- ENGL 2100 Intermediate Writing-Humanities/ Social Sciences or ENGL 2020 Intermediate Writing-Science and Technology (3.0)
- MATH 1050 College Algebra 4.0
- Complete one of the following:
- 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
- ECON 2020 Macroeconomics (fulfills Social/Behavioral Science credit) 3.0
- Biology 3.0
- Physical Science 3.0
- Additional Biology or Physical Science 3.0

Committees:
- Professor Norman D. Gardner Reed Gooch
- Ian Wilson
- Associate Professor Lynn Adams
- Amir Kia
- Lowell M. Glenn
- Fariid Islam
- Assistant Professor Vaughn S. Armstrong
- G. David Flint
- Ahmad Rahal
- Abdu Samad
- Lecturer Leonard Pavia

Woodbury School of Business:
Dean: Stanley Earl Jenne, Ph.D.
Office: WB 128B
Telephone: 801-863-8239
Associate Dean: Eugene Seeley, Ph.D.
Office: WB 219
Telephone: 801-863-8736
Assistant Dean: Mikki O’Connor
Office: WB 129
Telephone: 801-863-8850

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. 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.
**Finance and Economics**

**Minor in Economics** 18 CREDITS

**Discipline Core Requirements:** 12 Credits
- ECON 3310 Microeconomics (3.0)
- ECON 3320 Macroeconomics (3.0)
- ECON 3330 Managerial Economics (3.0)
- ECON 4200 Mathematical Economics (1.0)
- ECON 8200 Economic Development (1.0)
- ECON 8100 Labor Economics (1.0)
- ECON 0400 Environmental Economics (1.0)
- ECON 0200 Intermediate Microeconomics (1.0)
- ECON 8000 History of Economic Thought (1.0)
- MGMT 4100 Management of Financial Institutions (3.0)
- MGMT 4180 International Finance Management (3.0)

**Elective Requirements:** 6 Credits
Choose six hours from the following courses (6.0)
- ECON 3330 Intermediate Microeconomics (3.0)
- ECON 3340 Managerial Economics (3.0)
- ECON 3350 Managerial Statistics (3.0)
- MGMT 4100 Management of Financial Institutions (3.0)
- MGMT 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** 15 CREDITS

**Discipline Core Requirements:** 12 Credits
- ECON 3310 Microeconomics (3.0)
- ECON 3320 Macroeconomics (3.0)
- ECON 3330 Managerial Economics (3.0)
- ECON 4200 Mathematical Economics (1.0)
- ECON 8200 Economic Development (1.0)
- ECON 8100 Labor Economics (1.0)
- ECON 0400 Environmental Economics (1.0)
- ECON 0200 Intermediate Microeconomics (1.0)
- ECON 8000 History of Economic Thought (1.0)
- MGMT 4100 Management of Financial Institutions (3.0)
- MGMT 4180 International Finance Management (3.0)

See Course Descriptions section of the catalog for detailed course information. This department manages the following core course prefixes:
- ECON, Economics
- MGMT, Business Management
PROGRAMS

AA/AS Pre Major in General Academics  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:
- PHEL 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  3.0
- Fine Arts  3.0
- Social/Behavioral Science  3.0
Discipline Core Requirements:  25 Credits
- Any course(s) 1000 or higher  15.0
- One Language (other than English) to include the 1010, 1020, 2010, 2020 levels, or transferred  10.0
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 10 credit hours of course work from one language.
Geography

Department of History and Political Science

Department Chair:
Department Office: LA 030
Telephone: 801-863-8487
Fax: 801-863-7013

Geography Coordinator: Jon Moore
Administrative Assistant: Paula Wankier

Faculty:
Assistant Professor
Jon Moore

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

Geography is the study of the interaction between human, physical and environmental systems and their distribution across the surface of the Earth. As a scientific field, geography is not simply about discovering where things are, but the theoretical and analytical understanding of concepts such as place, space and connectivity, within several disciplinary subfields such as cultural, economic, political and environmental geographies.

Geography is a multidisciplinary field having important linkages with anthropology, biology, environmental science, geology, history, political science, and sociology. Those with training in geography are prepared to work in a wide variety of career fields, including cultural studies, natural resource management, education, foreign service, law enforcement, marketing, disaster response, humanitarian relief, public administration, real estate, tourism, and urban planning.

GEOG 1300 and GEOG 2100 fulfill general education requirements in the social science distribution area. Several geography courses apply toward the Integrated Studies Social Sciences emphasis and may serve as electives in other programs. (See specific program 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 Social Sciences 18 Credits

Emphasis Requirements:

Complete 3 credits from the following courses:

• GEOG 1300 Introduction to Geographic Information Systems (3.0)
• GEOG 100 Survey of World Geography (3.0)
• GEOG 2100 Geography of the United States (3.0)
• GEOG 3100 Economic Geography (3.0)
• GEOG 3430 Political Geography (3.0)
• GEOG 3630 Introduction to Geographic Information Systems (4.0)
• GEOG 3800 Environmental History of the United States (3.0)

Complete 3 credits from the following courses:

• POLS 1000 American Heritage (3.0)
• 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 2350 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 Executive Branch (3.0)
• POLS 3200 Legislative Process (3.0)
• POLS 3500 International Relations of the Middle East (3.0)
• POLS 3590 American Indian Law and Tribal Government (3.0)
• POLS 3600 International Relations of East Asia (3.0)
• POLS 480R Internship (2.0)

Complete at least 3 credits from the following courses:

• HIST 1500 World History to 1500 (3.0)
• HIST 151G World History from 1500 to the Present (3.0)
• HIST 1700 American Civilization (3.0)
• HIST 2700 US History to 1877 (3.0)
• HIST 2710 US History since 1877 (3.0)

Complete an additional 9 credits from any GEOG, HIST, or POLS course 3000 or higher (see advisor).

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

- ARCH, Archaeology
- GEOG, Geography
- HIST, History
- POLS, Political Science
- SOSC, Social Science
The History Program at UVU is dedicated to providing students with a broad range of opportunities in general education for global awareness and informed citizenship as well as discipline-specific courses for majors. Our classes lie at the heart of the collegiate experience. In them we observe the dynamics of the human condition through diverse and manifold historical perspectives. We endeavor to teach in ways that foster independent thinking, the analysis of human issues through reading and discussion, and the development of writing skills. Students who complete our programs will be well equipped for graduate study, and successful careers in public service or private enterprise.

Lower division courses in U.S. History fill general education requirements for American Institutions; other lower division courses meet the social science distribution requirement. Upper division courses may be applied toward the BA in History, BS in History Education, or an emphasis in the four-year integrated Studies degree.

## History

### Department of History and Political Science

**Department Chair:**
- **Office:** LA 030
- **Telephone:** 801-863-9487
- **Fax:** 801-863-7013
- **Assistant:** Paula Wankier

**Faculty:**
- **Professor**
  - William W. Cobb, Jr.
  - JaNae Brown Haas
  - Keith Snedegar
- **Associate Professor**
  - Lyn Ellen Bennett
- **Assistant Professor**
  - Kathryn A. Brown
  - David R. Wilson
- **Senior Lecturer**
  - Alexander T. Stecker

### College of Humanities and Social Sciences

**Interim Dean:** David P. Yells

**Office:** LA 209d

**Telephone:** 801-863-7435

### BA in History

#### 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:

- **MATH 1030** Quantitative Reasoning (recommended for Humanities or Arts majors) (.3)
- **MATH 1040** Introduction to Statistics (recommended for Social Science majors) (.3)
- **MATH 1050** College Algebra (recommended for Business, Education, Science, and Health Professions majors) (.4)

#### Elective Requirements: 11 Credits

- **FOR AS DEGREE:** Complete any course numbered 1000 or higher
- **FOR AA DEGREE:** Complete any course numbered 1000 or higher

#### Graduation Requirements:

1. Completion of a minimum of 62 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours – minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.
5. For the AA degree, completion of 10 credit hours of course work from one language.

#### Emphasis in General History

**27 Credits**

**Emphasis Requirements:** 6 Credits

- **HIST 3101** The Nature of History (.3)
- **HIST 4990** Senior Research Thesis-Writing Component (.3)

**Emphasis Elective Requirements:** 21 Credits

Complete any three upper-division history courses (9.0) Select at least one course from each Area of Study (.0)

#### A. European History

- **HIST 3110** Greek History (.3)
- **HIST 3130** Roman Republic (.3)
- **HIST 3140** Roman Empire (.3)
- **HIST 3150** Medieval Europe (.3)
- **HIST 3160** Renaissance and Reformation--Europe 1350 to 1560 (.3)
- **HIST 3170** Absolutism and Enlightenment--Europe from 1600 to 1815 (.3)
- **HIST 3180** Nineteenth Century Europe (.3)
- **HIST 3190** Twentieth Century Europe (.3)
- **HIST 3320** Modern Britain (.3)
- **HIST 3360** The History of Modern Russia--1864 to Present (.3)

#### B. United States History

- **HIST 3200** Women in American History to 1870 (.3)
- **HIST 3210** Women in American History since 1870 (.3)
- **HIST 3260** History of Utah (.3)
- **HIST 3460** US Military History (.3)
- **HIST 3520** The United States and Vietnam--1945 to Present (.3)
- **HIST 3730** American Origins to 1780 (.3)
- **HIST 3731** United States History 1790-1890 (.3)
- **HIST 3732** United States History 1890-1945 (.3)
- **HIST 3733** United States History since 1945 (.3)
- **HIST 3800** Environmental History of the United States (.3)
- **HIST 3810** Peculiuman America (.3)
- **HIST 3830** Indians of the Great Plains (.3)
- **HIST 3850** The Struggle for Self-determination--American Indians 1891-present (.3)
- **HIST 3870** Constitutional History to Plessy 1896 (.3)
- **HIST 3880** Constitutional History since Plessy 1896 (.3)
- **HIST 4600** Contemporary American Indian Political and Social Issues (.3)
- **HIST 4620** History of the American West (.3)
- **HIST 4740** American Revolution (.3)
- **HIST 4750** Civil War/Reconstruction (.3)
**BS in History Education** 120 CREDITS

**Matriculation Requirements:**
1. Completion of at least 30 semester hours of college credit, 15 hours of which must be taken at UVU;
2. Completion of the Application for Admission to the Bachelor of Science Degree in History Education;
3. Completion of HIST 2030 and HIST 2040, or HIST 2700 and HIST 2710;
4. Payment of nonrefundable matriculation fee;
5. Minimum G.P.A. of 2.75.

**General Education Requirements:** 36 Credits
- ENGL 1010 Introduction to Writing 3.0
- ENGL 2010 Intermediate Writing--Humanities/ Social Sciences 3.0
- or ENGL 2200 Intermediate Writing--Science and Technology (3.0)
- MATH 1050 College Algebra 4.0
- Complete one of the following (3.0)
  - HIST 1700 American Civilization (3.0)
  - POLS 1000 American Heritage (3.0)
  - POLS 1100 American National Government (3.0)

Complete the following:
- PHIL 2050 Ethics and Values 3.0
- HLTH 1100 Personal Health and Wellness (2.0)
- PES 1097 Fitness for Life 2.0

**Distribution Courses**
- Biology 3.0
- Physical Science 3.0
- Additional Biology or Physical Science 3.0
- Humanities Distribution 3.0
- ENGL 2510 American Literature before 1865 (3.0)
- or ENGL 2530 American Literature after 1865 (3.0)
- or ENGL 2610 British Literature before 1800 (3.0)
- or ENGL 2620 British Literature after 1800 (3.0)
- Fine Arts Distribution 3.0
- Social/Behavioral Science 3.0
- POLS 1010 Introduction to Political Science (3.0)
- or POLS 2200 Introduction to Comparative Politics (3.0)
- or POLS 2110 Introduction to International Relations (3.0)

**Discipline Core Requirements:** 72 Credits

Complete the following:
- GEOG 1300 Survey of World Geography 3.0
- HIST 1740 US Economic History 3.0
- 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
- HIST 3010 The Nature of History 3.0
- HIST 3280 History of Utah 3.0
- HIST 4250 Teaching History in the Secondary Curriculum 3.0

**Professional Education Courses**
- 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 1.0
- EDSC 4250 Classroom Management II 1.0
- EDSC 4460 Content Area Reading and Writing 3.0
- EDSC 4450 Multicultural Instruction/ESL 2.0
- EDSC 4550 Secondary Curriculum Instruction and Assessment 4.0
- EDSP 4950 Special Education--Secondary (4.0) 8.0
- EDSP 3400 Exceptional Students 2.0

Choose one course from each of the following five areas or electives:

**AREAS OF STUDY:**
- United States
  - HIST 3200 Women in American History to 1870 (3.0)
  - HIST 3210 Women in American History since 1870 (3.0)
  - HIST 3260 History of Utah (3.0)
  - HIST 3520 The United States and Vietnam--1945 to Present (3.0)
  - HIST 3730 American Origins to 1790 (3.0)
  - HIST 3731 United States History 1790-1890 (3.0)

- United States History 1890-1945 (3.0)
- HIST 3732 United States since 1945 (3.0)
- HIST 3800 Environmental History of the United States (3.0)
- HIST 381G Precolonial America (3.0)
- HIST 383G Indians of the Great Plains (3.0)
- HIST 385G The Struggle for Self-determination--American Indians 1991-present (3.0)
- HIST 3870 Constitutional History to Plessy 1896 (3.0)
- HIST 3880 Constitutional History since Plessy 1896 (3.0)
- HIST 4600 Contemporary African American Political and Social Issues (3.0)
- HIST 4620 History of the American West (3.0)
- HIST 4740 American Revolution (3.0)
- HIST 4750 Civil War/Reconstruction (3.0)
- Latin America
  - HIST 3040 Colonial Latin America (3.0)
  - HIST 3050 Modern Latin America (3.0)
- HIST 4300 Violence and Social Conflict in Latin America (3.0)
- HIST 4430 History of Iran--1900 to Present (3.0)
- Europe/Russia
  - HIST 3110 Greek History (3.0)
  - HIST 3130 Roman Republic (3.0)
  - HIST 3140 Roman Empire (3.0)
  - HIST 3150 Medieval Europe (3.0)
  - HIST 3160 Renaissance and Reformation--Europe 1350 to 1600 (3.0)
  - HIST 3170 Absolutism Enlightenment and Revolution--Europe from 1600 to 1815 (3.0)
  - HIST 3180 Nineteenth Century Europe (3.0)
  - HIST 3190 Twentieth Century Europe (3.0)
  - HIST 3320 Modern Britain (3.0)
- HIST 3660 The History of Modern Russia--1854 to Present (3.0)
- Comparative/Topical
  - HIST 4330 Machines in the Making of History (3.0)
  - HIST 3450 The History of World War II (3.0)
  - HIST 3800 Environmental History of the United States (3.0)
  - HIST 4110 Empire (3.0)
  - HIST 4130 Anti-Semitism and the Holocaust (3.0)
  - HIST 4200 Issues and Topics in Global History (3.0)
  - HIST 4320 History of Scientific Thought (3.0)
  - HIST 435R Issues and Topics in the History of Science (3.0)
  - HIST 471R Special Issues and Topics in American History (3.0)

**Elective Requirements:** 12 Credits

- Any courses numbered 1000 or higher.

**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. Students completing a bachelor degree following the 2008 or later catalog must complete one course that meets the Global Inter-cultural Requirement, indicated by a course number ending in G. For a complete listing, see page 25.
## History

### 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.

**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)
  - HIST 3260 History of Utah (3.0)
  - See Advisor
- Complete an additional 15 credits from any HIST course 3000 or higher (see advisor) 15.0

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

- ARCH, Archaeology
- GEOG, Geography
- HIST, History
- POLS, Political Science
- SOSC, Social Science
**Honors**

**Director: Michael Marx Shaw**  
Office: LC 204a  
Telephone: 801-863-6265  
Fax: 801-863-6265  
E-mail: michael.shaw@uvsc.edu

**Faculty:**  
Selected from among departmental faculty to meet program/course needs.

**University College**  
Dean: Bonnie Henrie  
Office: LA 210c  
Telephone: 801-863-8311  
Fax: 801-863-7060  
E-mail: bonnie.henrie@uvsc.edu

Associate Dean: K.D. Taylor  
Office: LA 210e  
Telephone: 801-863-8949

Assistant Dean: Michelle Kearns  
Office: LA 210d  
Telephone: 801-863-6746

Administrative Assistant:  
Office: LA 210  
Telephone: 801-863-6712

**PROGRAM**

The Honors Program is a community of engaged scholars — both students and faculty — devoted to learning, and to the wider world. Courses offer an enriched educational experience beyond the expectations of regular students, with outstanding faculty and innovative classroom approaches. They also stress critical thinking and analysis through intensive reading, writing, and discussion. Beginning Fall 2006, the new Honors Program will offer upper-division courses suitable for entering freshmen, transfer, and continuing UVU students interested in graduating with Honors.

The newly expanded Program will also offer cultural and social events, workshops for graduate school preparation, and service and leadership opportunities integrated into the curriculum. At UVU, an Honors Student Advisory Group takes the lead in design and planning of these events, collaborating with faculty and Program administration. Honors students will enjoy access to an on-campus Study Commons and a residential option to live with other Honors students close to campus. Honors collaborates with the Student Organization for Academic Research (SOAR), and Honors students receive mentoring by Honors professors on building careers, designing and conducting original projects, and doing cutting-edge work in the studio, lab, and field.

The Honors Program seeks to build a diverse community open to students from a wide cross-section of academic majors. Its goal is to enhance the educational experience of students, including the student body at large, and to connect what students learn with their professions, their communities, and the wider world.

**Admission and Participation**

Because we look at the whole person, admission to Honors is based on GPA, ACT, high school and college transcripts showing details of coursework, and a written response to one of the admission questions. The Program looks for students who are motivated by intellectual curiosity and who exhibit independence, achievement, and initiative in their studies and in their lives. For detailed application and qualification information, see our website at www.uvu.edu/honors or contact the Program Director.

**Graduation Criteria**

To receive distinction as an Honors Program graduate, students must:

1. Be admitted to the Honors Program
2. Complete 12-25 credits in Honors courses, H-recommended sections of General Education courses, and/or Honors contracts for major courses. Credits required depend on a student’s status at admission to the Program (freshman, transfer, continuing)
3. Attain a cumulative GPA of no less than 3.25
4. Complete an Honors thesis or project (topics must be pre-approved by Director)
5. Complete major and College requirements for graduation
6. Receive approval from the Program Director

**Curriculum**

All Honors students enroll for 1 credit of Honors Colloquium, beginning with their first semester in the Program. They also take at least one of the designated Honors courses: Ancient Legacies, Modern Legacies, Interdisciplinary Seminar. Honors-recommended sections of G.E. and regular department offerings cross-listed with Honors can be identified in the class schedule by letter “H” in the fourth position of the course number. Courses change each semester, based on student needs and requests. The following pages list Honors courses and H-recommended departmental courses approved at time of printing. Contact Program Director for additional course offerings.

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

- HONR, Honors
Hospitality Management

Interim Department Chair: Lowell Glenn
Office: WB 215
Telephone: 801-863-8385
Associate Department Chair: Deborah Baird
Office: WB 203e
Telephone: 801-863-6605

Faculty:
Associate Professor
Yang Huo
Lecturer/Program Coordinator:
D. Craig Huish

Advisor: Terry Acord
Office: WB 257b
Telephone: 801-863-8314
Advisor: Polly Clauson
Office: WB 257d
Telephone: 801-863-6482
Advisor: Diana Johnsen
Office: WB 257f
Telephone: 801-863-8832
Advisor: Mignon Nicol
Office: WB 257g
Telephone: 801-863-8749
Advisor: Shalece Nuttall
Office: WB 257d
Telephone: 801-863-6719

Woodbury School of Business
Dean: Stanley Earl Jenne, Ph.D.
Office: WB 128b
Telephone: 801-863-8736
Associate Dean: Eugene Seeley, Ph.D.
Office: WB 219
Telephone: 801-863-8736
Assistant Dean: Mikki O’Connor
Office: WB 129
Telephone: 801-863-8850

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 addition of several new convention centers in the state have dramatically increased the need for hotel and restaurant facilities. Students are marketable in a wide range of hospitality and tourism areas such as: hotel, resort, and motel management; event planning; restaurant and institutional food service; and a number of other areas such as cruise ship management, amusement park management, convention and visitor facilities, and gaming facilities.

The Hospitality Management program also offers a Bachelor of Science in Hospitality Management with a track in Food and Beverage Management for students interested in food production management. This track is ideal for those training to be executive chefs, restaurant production managers, institutional food service or restaurant managers. The demand for management staff in the restaurant industry is high, particularly for those with culinary skills. The students will be required to have a minimum of 15 credit hours in Culinary Arts courses to complete this track.

*See Culinary Arts Institute section of this catalog for program.

PROGRAMS
Three options are available: Associate in Applied Science Degree (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
or Any approved Departmental Mathematics Course
or Any Departmental Mathematics Course
or Any approved Departmental Mathematics Course
or Any approved Departmental Mathematics Course
or Any approved Humanities/Fine Arts/Foreign Language 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 3.0
BIOLOGY OR PHYSICAL SCIENCE
• Any approved Biology or Physical Science Distribution Course 3.0
PHYSICAL EDUCATION/HEALTH/SAFETY OR ENVIRONMENT
• Any approved Physical Education, Health, Safety, or Environmental Course 1.0
Elective Requirements: 6 Credits
Complete 6 hours of elective credits from HM courses.

• 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 3.0
• 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 65 semester credits.
2. Overall grade point average of 2.0 (C) or above with no grade lower than a “C-” in hospitality or other Woodbury School of Business Courses.
3. Residency hours—minimum of 20 credit hours through course attendance at UVU; at least 16 credits must be in Woodbury School of Business.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.

Footnotes:
* Students will be required to complete the Business Computer Proficiency exam with a score of 80 percent or higher on each module or complete the DGM 2010 course or DGM 201A-D modules as necessary with a score of 80 percent or higher on each module.

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:
• HIST 2700 US History to 1877 (3.0)
and HIST 2710 US History since 1877 (3.0)
• HIST 1700 American Civilization (3.0)
• HIST 1740 US Economic History (3.0)
• POLS 1000 American Heritage (3.0)
• POLS 1100 American National Government (3.0)
Complete the following:
• PHIL 2050 Ethics and Values 3.0
• HLTH 1100 Personal Health and Wellness (2.0)
or PES 1097 Fitness for Life 2.0
Distribution Courses
• Biology 3.0
• Physical Science 3.0
• Additional Biology or Physical Science 3.0
• Humanities Distribution (COMM 1100 recommended) 3.0
• Fine Arts Distribution 3.0
• ECON 2020 Macroeconomics (fulfills Social/ Behavioral Science requirement) 3.0

Discipline Core Requirements: 18 Credits
• ACC 2010 Financial Accounting 3.0
• HM 1010 Introduction to Hospitality Industry 3.0
• HM 1130 Hotel Operations I 3.0
• HM 1180 Food and Beverage Management 3.0
• DGM 2200 Business Computer Proficiency *
or DGM 2010 Business Computer Proficiency 3.0
or MGMT 2200 Business Communications 3.0
or MGMT 2390 Effective Business Presentations 3.0
Elective Requirements: 6 Credits
Complete six hours of elective credits from HM courses.

Graduation Requirements:
1. Completion of a minimum of 60 semester credits.
2. Overall grade point average of 2.0 or above with a minimum of 2.5 GPA in all Woodbury School of Business courses. No grade lower than a “C-” in core and specialization courses.
3. Residency hours—a minimum of 20 credit hours through course attendance at UVU; at least 16 credits must be in Woodbury School of Business.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.

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.

Catalog 2008–2009 Utah Valley University
Footnotes:
1. 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 2010-D modules as necessary with a score of 80 percent or higher on each module.

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

Complete the following:
- PHIL 2050 Ethics and Values 3.0
- HLTH 1100 Personal Health and Wellness (2.0)
- or PES 1097 Fitness for Life 2.0

Distribution Courses
- ECON 2020 Macroeconomics* (fulfills Social/ Behavioral Science credit) 3.0
- Biology 3.0
- Physical Science 3.0
- Additional Biology or Physical Science 3.0
- Humanities Distribution 3.0
- Fine Arts Distribution 3.0

Discipline Core Requirements: 50 Credits

Business Foundation Courses:
- ACC 2010 Financial Accounting 3.0
- ACC 2020 Managerial Accounting 3.0
- or DGM 2010 Business Computer Proficiency Exam 3.0
- MATH 1100 Introduction to Calculus 4.0
- or MGMT 2200 Business Communications* 3.0
- or ECON 2010 Microeconomics 3.0
- MGMT 2340 Business Statistics I 3.0
- MGMT 2390 Effective Business Presentations 3.0

Business Core Courses:
- INFO 3120 Principles of Information Systems—A Managerial Approach 3.0
- or LEGL 3000 Business Law 3.0
- MGMT 3010 Principles of Management 3.0
- MGMT 3100 Principles of Finance* 3.0
- MGMT 3450 Operations Management* 3.0
- MGMT 3650 Principles of Marketing 3.0
- MGMT 3590 Career Preparation 2.0
- MGMT 4800 Strategic Management* 3.0
- MGMT 4830 Strategic Management Capstone Simulation 3.0
- MGMT 493R Entrepreneurship Lecture Series (1.0)
- or MGMT 495R Executive Lecture Series 1.0

Emphasis Requirements: 28 Credits
- MGMT 330G Survey of International Business 3.0
- MGMT 3200 Global Tourism 3.0
- HM 3020 Hospitality Managerial Accounting 4.0
- HM 3390 Hotel Operations II 3.0
- HM 3640 Food and Beverage Controls 3.0
- HM 3710 Marketing of Hospitality Services 3.0
- HM 4550 Hospitality Industry Management 3.0
- HM 482R Internship 6.0

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 on each module or complete the AIM 1050 course or AIM 105A-F modules as necessary with a score of 80 percent or higher in each of the six modules.

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

BS in Hospitality Management 120 CREDITS

General Education Requirements: 36 Credits

- ENGL 1010 Introduction to Writing 3.0
- ENGL 2010 Intermediate Writing—Humanities/ Social Sciences 3.0
- or ENGL 2020 Intermediate Writing—Science and Technology 3.0
- MATH 1050 College Algebra 4.0

Complete one of the following:
- POLS 1000 American Heritage (3.0)
- HIST 1700 American Civilization (3.0)
- HIST 2700 US History to 1877 (3.0)
-and HIST 2710 US History since 1877 (3.0)
- or MGMT 2240 Foundations of Business Statistics 3.0
- or MGMT 890 Career Preparation 2.0

Distribution Courses
- Biology 3.0
- Physical Science 3.0
- Additional Biology or Physical Science 3.0
- Humanities Distribution 3.0
- Fine Arts Distribution 3.0
- ECON 2020 Macroeconomics 3.0

Discipline Core Requirements: 71 Credits

- HM 1010 Introduction to Hospitality Industry 3.0
- HM 1130 Hotel Operations I 3.0
- HM 1180 Food and Beverage Management 3.0
- HM 3020 Hospitality Managerial Accounting 4.0
- HM 3150 Hospitality Finance 3.0
- HM 3390 Hotel Operations II 3.0
- HM 3640 Food and Beverage Controls 3.0
- HM 3710 Marketing of Hospitality Services 3.0
- HM 4550 Hospitality Industry Management 3.0
- HM 482R Internship (2.0)
- or HM 482R Internship (2.0)
- ACC 2010 Financial Accounting 3.0
- or MGMT 2200 Business Communications 3.0
- or MGMT 2240 Foundations of Business Statistics 3.0
- or MGMT 2250 Job Application and Advancement Skills 1.0
- or MGMT 3890 Career Preparation 3.0
- or MGMT 2390 Effective Business Presentations 3.0
- or MGMT 3000 Organizational Behavior 3.0
- or MGMT 4220 Management Communication 3.0

Complete one of the following two groups:
- 40 Foreign Language Group: Complete the following levels of the same language

Elective Requirements: 13 Credits
Complete one of the following two groups: 13.0

Hotel and Restaurant Management Track:
- HM 1110 Food Production Principles (3.0)
- or DGM 2010 Introduction to Writing 3.0
- or ENGL 2010 Intermediate Writing—Humanities/ Social Sciences 3.0
- or MGMT 2200 Business Communications 3.0
- or MGMT 2240 Foundations of Business Statistics 3.0
- or MGMT 2250 Job Application and Advancement Skills 1.0
- or MGMT 3890 Career Preparation 3.0
- or MGMT 2390 Effective Business Presentations 3.0
- or MGMT 3000 Organizational Behavior 3.0
- or MGMT 4220 Management Communication 3.0

Graduation Requirements:
1 Completion of a minimum of 120 semester credits with at least 40 credit hours of upper-division classes.
2. Overall grade point average 2.0 (C) or above with a minimum 2.5 GPA in all Woodbury School of Business courses; no grade below “C-“ in hospitality or other Woodbury School of Business courses.

3. Residency hours: minimum of 30 credit hours of business courses through course attendance at UVU, with at least 10 hours earned in the last 45 hours. At least 12 of the credit hours must be in Hospitality Management courses.

4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.

5. 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.

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:** Christine Weigel  
**Office:** LA 121h  
**Telephone:** 801-863-6191  

**Department Office:** LA 121  
**Department Telephone:** 801-863-8352  

**Assistant Chair:** Nancy Rushforth  
**Office:** LA 121k  
**Telephone:** 801-863-7110

### College of Humanities and Social Sciences

**Interim 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, fine arts, literature, intellectual history, music, foreign languages, theology, 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 60 Credits

<table>
<thead>
<tr>
<th>General Education Requirements: 35 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ENGL 1010</strong> Introduction to Writing 3.0</td>
</tr>
<tr>
<td><strong>ENGL 2010</strong> Intermediate Writing—Humanities/ Social Sciences 3.0</td>
</tr>
</tbody>
</table>

| 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)

<table>
<thead>
<tr>
<th>Complete one of the following:</th>
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<tbody>
<tr>
<td><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>
</tbody>
</table>

<table>
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</thead>
<tbody>
<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</td>
</tr>
<tr>
<td>or PES 1097** Fitness for Life (2.0)</td>
</tr>
</tbody>
</table>

### Elective Requirements: 10 Credits

- Same Foreign Language 10.0

### 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.
5. For the AA degree, completion of 10 credit hours of course work from one language.

### AS Pre Major in Humanities 62 Credits

<table>
<thead>
<tr>
<th>General Education Requirements: 35 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ENGL 1010</strong> Introduction to Writing 3.0</td>
</tr>
<tr>
<td><strong>ENGL 2010</strong> Intermediate Writing—Humanities/ Social Sciences 3.0</td>
</tr>
<tr>
<td>or ENGL 2020 Intermediate Writing—Science and Technology (3.0)</td>
</tr>
</tbody>
</table>

Complete one of the following:
- **MATH 1030** Quantitative Reasoning (3.0)
- **MATH 1040** Introduction to Statistics (3.0)
- **MATH 1050** College Algebra (4.0)

<table>
<thead>
<tr>
<th>Complete one of the following:</th>
</tr>
</thead>
<tbody>
<tr>
<td><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>
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<td><strong>POLS 1100</strong> American National Government (3.0)</td>
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<td>or PES 1097** Fitness for Life (2.0)</td>
</tr>
</tbody>
</table>

### Distribution Courses

- **Biology** 3.0
- **Physical Science** 3.0
- **Additional Biology or Physical Science** 3.0
- **Humanities Distribution** 3.0
- **Fine Arts Distribution** 3.0
- **Social/Behavioral Science** 3.0

### Discipline Core Requirements: 21 Credits

Complete the following:
- **HUM 1010** Humanities Through the Arts 3.0
- **HUM 2010** Arts in Humanistic Traditions I 3.0
- **HUM 2020** Arts in Humanistic Traditions II 3.0
- **HUM 320R** Topics in Humanities (1.0) 3.0

Complete 9 credits from the following: **AVC, ENGL, HUM, MUSC, PHIL, THEA** (1000 level or higher)

### Elective Requirements: 6 Credits

- **HUM 1010** Humanities Through the Arts 3.0

### Graduation Requirements:

1. Completion of a minimum of 62 semester credits.
2. Overall grade point average of 2.0 (C) or above.
3. Residency hours—minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

### Minor in Humanities 18 Credits

**Matriculation Requirements:**
- **1 Enrollment at Utah Valley State College**
- **2 Overall grade point average of a 2.0 (C) or better**
- **3 Admitted to a bachelor degree program at UVU**

**Discipline Core Requirements:**
- **9 Credits**
  - **HUM 2010** Arts in Humanistic Traditions I 3.0
  - **HUM 2020** Arts in Humanistic Traditions II 3.0
  - **HUM 320R** Topics in Humanities 3.0

**Elective Requirements:**
- **9 Credits**
  - **HUM 320R** Period Studies in Humanities (3.0)

**Graduation Requirements:**
- **1 Complete at Humanities courses with a grade of 2.0 (C) or better.**

**Footnotes:**
- * Variable credit course

### 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 2010** Arts in Humanistic Traditions I 3.0
  - **HUM 2020** Arts in Humanistic Traditions II 3.0
  - **HUM 320R** Approaches to Humanities 3.0

**Elective Requirements:**
- **9 Credits**
  - **HUM 320R** Period Studies in Humanities (3.0)

**Footnotes:**
- * Variable credit course

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**
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, Enterprise Systems, and Network Administration and Security. The Database Administration Concentration grooms students for employment as database administrators, data analysts, and enterprise database architects. Students in the Enterprise Systems Concentration pursue careers as the 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 31 CREDITS

<table>
<thead>
<tr>
<th>Discipline Core Requirements</th>
<th>25 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete the following:</td>
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<tr>
<td>• INFO 1120 Information Systems and Technology Fundamentals</td>
<td>3.0</td>
</tr>
<tr>
<td>• INFO 1200 Computer Programming I for IS/IT</td>
<td>3.0</td>
</tr>
<tr>
<td>• INFO 1420 Computer Architecture and Systems Software</td>
<td>3.0</td>
</tr>
<tr>
<td>• INFO 1510 UNIX/Linux Operating System</td>
<td>3.0</td>
</tr>
<tr>
<td>• INFO 2030 Data Communication Fundamentals</td>
<td>3.0</td>
</tr>
<tr>
<td>• INFO 2050 Database Fundamentals</td>
<td>3.0</td>
</tr>
<tr>
<td>Communication Requirement:</td>
<td></td>
</tr>
<tr>
<td>• ENGL 1020 Career Writing for Technology – A or ENGL 1010 Introduction to Writing (3.0)</td>
<td>2.0</td>
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<tr>
<td>Computation Requirement:</td>
<td></td>
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<tr>
<td>• MAT 1010 Intermediate Algebra</td>
<td>4.0</td>
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<tr>
<td>Human Relations Requirement:</td>
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<tr>
<td>• MGMT 2250 Job Application and Advancement Skills</td>
<td>1.0</td>
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<tr>
<td>or MGMT 3890 Career Preparation (2.0)</td>
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<tr>
<td>Elective Requirements:</td>
<td>6 Credits</td>
</tr>
<tr>
<td>Choose 6 credits from the following courses:</td>
<td>6.0</td>
</tr>
<tr>
<td>• INFO 1000 Computer Programming Concepts (3.0)</td>
<td></td>
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<tr>
<td>• INFO 2640 Router Management (3.0)</td>
<td></td>
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<tr>
<td>• INFO 2650 Voice and Data Cabling Fundamentals (3.0)</td>
<td></td>
</tr>
<tr>
<td>• INFO 2660 Information Security – Fundamentals (3.0)</td>
<td></td>
</tr>
<tr>
<td>• INFO 3030 Networks and Internetworking (3.0)</td>
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</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

HUMANITIES/FINE ARTS/FOREIGN LANGUAGE
• Any approved Humanities, Fine Arts, or Foreign Language 3.0

SOCIAL AND BEHAVIORAL SCIENCE
• ECON 2020 Macroeconomics (fulfills Social/Behavioral Science) 3.0

BIOLOGY OR PHYSICAL SCIENCE
• PHYS 1010 Elementary Physics 3.0

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

Discipline Core Requirements: 42 Credits

Written Communication Requirement:
• ENGL 2010 Intermediate Writing--Humanities/ Social Sciences 3.0
or ENGL 2020 Intermediate Writing--Science and Technology 3.0

IT Application Domain Requirement (6.0):
• Accounting Domain Option -
  • ACC 2010 Financial Accounting 3.0
  or ACC 3000 Financial Managerial and Cost Accounting Concepts (4.0)

• Any approved Accounting--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 UNIX/Linux (3.0)
• INFO 1420 Computer Architecture and Systems Software 3.0
• INFO 1510 Introduction to System Administration--UNIX/Linux 3.0
• INFO 2200 Computer Programming II for IS/IT UNIX/Linux 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

Electives: 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-- UNIX/Linux (3.0)
• INFO 3620 System Administration--Windows (3.0)
• INFO 3630 Advanced System Administration-- Windows Server (3.0)
• INFO 3650 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 2700 US History to 1877 (3.0)

or HIST 2710 US History since 1877 (3.0)
• HIST 1700 American Civilization (3.0)
• HIST 1740 US Economic History (3.0)
• POLS 1000 American Heritage (3.0)
• PALS 1100 American National Government (3.0)

Complete the following:

• PHIL 2050 Ethics and Values (3.0)
• HLTH 1100 Personal Health and Wellness (2.0)
or PES 1097 Fitness for Life 2.0

Distribution Courses
• ECON 2020 Macroeconomics (fulfills Social/Behavioral Science) 3.0
• Biology Distribution 3.0
• Physical Science Distribution 3.0
• An Additional Biology or Physical Science Course 3.0
• Fine Arts Distribution 3.0
• Humanities Distribution 3.0

Discipline Core Requirements: 25 Credits

• MATH 1110 Introduction to Calculus 4.0
• INFO 1120 Information Systems and Technology Fundamentals 3.0
• INFO 1200 Computer Programming I for IS/IT UNIX/Linux (3.0)
• INFO 1420 Computer Architecture and Systems Software 3.0
• INFO 1510 Introduction to System Administration--UNIX/Linux 3.0
• INFO 2050 Database Fundamentals 3.0
• INFO 2200 Computer Programming II for IS/IT UNIX/Linux 3.0
• INFO 2450 Web Application Design 3.0

Graduation Requirements:
1. Completion of a minimum of 61 semester credits.
2. Overall grade point average of 2.0 or above.
3. Residency hours: minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.

BS in Information Systems

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

Complete the following:

• PHIL 2050 Ethics and Values 3.0
• HLTH 1100 Personal Health and Wellness (2.0)
or PES 1097 Fitness for Life (2.0)

Distribution Courses
• ECON 2020 Macroeconomics (fulfills Social/ Behavioral Science) 3.0
• Biology Distribution 3.0
• Physical Science Distribution 3.0
• An Additional Biology or Physical Science Distribution Course 3.0
• Fine Arts Distribution 3.0
• Humanities Distribution 3.0

Discipline Core Requirements: 71 Credits

Math Requirements:
• MATH 1100 Introduction to Calculus 4.0
• MGMT 2340 Business Statistics I 3.0
or MATH 2040 Principles of Statistics (4.0)

IS Environment/Business Foundation Requirements:
• ACC 2010 Financial Accounting 3.0
and/or ACC 2020 Managerial Accounting 3.0
or ACC 3000 Financial Managerial and Cost Accounting Concepts (4.0)

and Any approved Accounting--Business-related course (2.0)

• MGMT 2210 Business Communications 3.0
• MGMT 3000 Organizational Behavior 3.0
• MGMT 3100 Principles of Finance 3.0
• MGMT 3600 Principles of Marketing 3.0

IS Core Requirements:
• INFO 1120 Information Systems and Technology Fundamentals 3.0
• INFO 1200 Computer Programming I for IS/IT UNIX/Linux (3.0)
• INFO 1420 Computer Architecture and Systems Software 3.0
• INFO 1510 Introduction to System Administration-- UNIX/Linux 3.0
• INFO 2030 Database Fundamentals 3.0
• INFO 2050 Database Fundamentals 3.0
• INFO 2200 Computer Programming II for IS/IT UNIX/Linux 3.0
• INFO 2450 Web Application Design 3.0
• INFO 301R Digital Lecture Series 1.0
• INFO 3120 Principles of Information Systems-- A Managerial Approach 2.0
• INFO 3410 Database Systems 3.0
• INFO 3420 Web Systems Development I 3.0
• INFO 3430 Systems Analysis Design and Integration 3.0
• INFO 405G Global Ethical and Professional Issues in Technology 3.0
or TECH 405G Global Ethical and Professional Issues in Technology (3.0)

Project Experience:
• INFO 3400 Project Management 3.0
or TECH 3400 Project Management (3.0)
• INFO 4550 Senior Project (3.0)
or INFO 481R Internship (1.0)
or INFO 489R Undergraduate Research in Information Systems & Technology (1.0)

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 3530 Networks and Internetworking (3.0)
• INFO 3440 Enterprise Database Development (3.0)
• INFO 3510 Advanced System Administration-- UNIX/Linux (3.0)
• INFO 3620 System Administration--Windows (3.0)
• INFO 3630 Advanced System Administration--Windows Server (3.0)
• INFO 3650 Information Security--Network Defense and Countermeasures (3.0)
• INFO 4410 Database 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)
or Other approved electives (3.0)

Graduation Requirements:
1. Completion of at least 122 semester credits required in the BS degree; at least 40 credit hours must be upper-division courses.

Utah Valley University

Catalog 2008–2009

180
BS in Information Technology 124 Credits

General Education Requirements: 40 Credits
- ENGL 1010 Introduction to Writing 3.0
- ENGL 2100 Intermediate Writing—Humanities 3.0
or ENGL 2020 Intermediate Writing—Science and Technology (3.0)
- MATH 1050 College Algebra 4.0
Complete one of the following: 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)

Distribution Courses 36 Credits
- Biology Distribution 3.0
- Fine Arts Distribution 3.0
- Social/Behavioral Science Distribution 3.0
- ENSC 2310 Technical Communication (fulfills Humanities) 3.0
- PHYS 2010 College Physics I (fulfills Physical Science) 4.0
or PHYS 2020 College Physics I Lab 1.0
or PHYS 2025 College Physics II Lab 1.0

Information Systems and Technology 54 Credits

Discipline Core Requirements: 69 Credits
- MATH 1100 Introduction to Calculus 4.0
- INFO 2230 Data and Discrete Structures (3.0)
- INFO 2240 Discrete Structures I 3.0
- MATH 2040 Principles of Statistics 4.0
or MGMT 2400 Business Statistics I (3.0)

IT Core Requirements: 21 Credits
- 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
- CS 3410 Human Factors in Software Engineering 3.0
or DGM 2240 Interaction Design (3.0)

IT Pillar Courses: 17 Credits
- 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: 5 Credits
- INFO 2200 Computer Programming II for IS/IT 3.0
- INFO 3030 Networks and Internetworking 3.0
- INFO 3410 Information Systems 3.0
- INFO 3420 Web Systems Development I 3.0
Project Experience: 15 Credits
- INFO 3400 Project Management 3.0
or TECH 3460 Project Management (3.0)
- INFO 4550 Senior Project 3.0
or INFO 481R Internship (1.0)

Emphasis in Database Administration 15 Credits

Emphasis Elective Requirements: 15 Credits
Select 15 credits from the following: 21.0
- INFO 3440 Enterprise Development (3.0)
- INFO 3510 Advanced System Administration--Linux/UNIX (3.0)
- INFO 3630 Advanced System Administration--Windows Server (3.0)
- INFO 4410 Database Administration (3.0)
- INFO 4420 Web Systems Development II (3.0)
- INFO 4440 Enterprise Computing Environments (3.0)
- Approved Business Elective (3.0)

Emphasis in Enterprise Systems 15 Credits

Emphasis Elective Requirements: 15 Credits
Select 15 credits from the following: 15.0
- ACC 2010 Financial Accounting (3.0)
and ACC 2020 Managerial Accounting (3.0)
- or ACC 3000 Financial Managerial and Cost Accounting Concepts (4.0)
- or MGMT 3000 Organizational Behavior (3.0)
- or MGMT 3100 Principles of Finance (3.0)
- INFO 3120 Principles of Information Systems--A Managerial Approach (3.0)
- INFO 3440 Enterprise Database Development (3.0)
- INFO 4420 Web Systems Development II (3.0)
- INFO 4440 Enterprise Computing Environments (3.0)
- Approved business elective (3.0)

Minor in Information Systems and Technology 21 Credits

Discipline Core Requirements: 9 Credits
- INFO 1120 Information Systems and Technology Fundamentals (3.0)
Complete the following: 12 Credits
- INFO 2030 Data Communication Fundamentals (3.0)
- INFO 2200 Computer Programming II for IS/IT (3.0)
- INFO 2450 Web Application Design (3.0)
- INFO 2660 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 3630 System Administration--Windows (3.0)
- INFO 3660 Information Security—Network Defense and Countermeasures (3.0)

Graduation Requirements: 54 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 2030 Data Communication Fundamentals (3.0)
  - INFO 2200 Computer Programming II for IS/IT (3.0)
  - INFO 2450 Web Application Design (3.0)
  - INFO 2660 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 3630 System Administration--Windows (3.0)
  - INFO 3660 Information Security—Network Defense and Countermeasures (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.)
Information Systems and Technology

- INFO 2680 Information Security-- Fundamentals 3.0
Complete 9 credits from the following: 9.0
- INFO 3030 Networks and Internetworking (3.0)
- INFO 3310 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 4030 Enterprise Network Architectures and Administration (3.0)
- INFO 405G Global Ethical and Professional Issues in Technology (3.0)
or TECH 405G Global Ethical and Professional Issues in Technology (3.0)
- INFO 3800 Computer Forensics and Cybercrime (3.0)

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: 45 Credits

Specialty Core Requirements (33.0):
- 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 2030 Data Communication Fundamentals 3.0
- INFO 2050 Database Fundamentals 3.0
- INFO 2200 Advanced 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
Complete a minimum of 6 credits from the following: 6.0
- INFO 1000 Computer Programming Concepts (3.0)
- INFO 1100 Exploring the Digital Domain (3.0)
- INFO 2100 Business Computer Productivity with IS Technology (3.0)
- INFO 2840 Router Management (3.0)
- INFO 2650 Voice and Data Cabling Fundamentals (3.0)
- INFO 2860 Information Security--Fundamentals (3.0)
- INFO 281R Internship (1.0)
- INFO 301R Digital Lecture Series (1.0)
- INFO 3420 Web Systems Development I (3.0)
- INFO 3440 Enterprise Database Development (3.0)
- INFO 3500 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)
- 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
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.

**SUMMARY OF THE DEGREE**

- After becoming familiar with the material on the IS website (http://www.uvu.edu/is/), meet with 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 colleges/schools: College of Humanities and Social Sciences; College of Science and Health; College of Technology and Computing; School of the Arts; Woodbury School of Business.
- 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 2022 class in the chosen foreign language. For a Bachelor of Science degree, students must complete either MATH 1210 or MATH 2040.

**AA Pre Major in Integrated Studies 60 CREDITS**

### General Education Requirements: 35 Credits

- **ENGL 1010** Introduction to Writing 3.0
- **ENGL 2010** Intermediate Writing--Humanities/ Social Sciences 3.0
- **MATH 1050** College Algebra 3.0
- **PHIL 2050** Ethics and Values 3.0
- **PHIL 2070** Personal Health and Wellness 2.0
- **POLS 1000** American Heritage 3.0
- **POLS 1100** American National Government 3.0
- **POLS 2050** Ethics and Values 3.0
- **POLS 2070** Personal Health and Wellness 2.0
- **POLS 3050** American Heritage 3.0
- **POLS 3100** American National Government 3.0

### Discipline Core Requirements: 25 Credits

- **Complete any courses 1000 or higher** 25.0

**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.
5. For the AA degree, completion of 10 credit hours of course work from one language.

**Integrated Studies**

- **Additional Biology or Physical Science** 3.0
- **Humanities Distribution (any 2020 Foreign language course recommended)** 3.0
- **Fine Arts Distribution** 3.0
- **Social/Behavioral Science** 3.0

**Elective Requirements:** 10 Credits

- **One Language (other than English) to include** 10.0
  - the 1010,1020, 2010, 2020 levels, or transferred equivalents

**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.
5. For the AA degree, completion of 10 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 2010** Intermediate Writing--Humanities/ Social Sciences 3.0
- **MATH 100** 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
- **PHIL 2050** Ethics and Values 3.0
- **PHIL 2070** Personal Health and Wellness 2.0
- **POLS 1000** American Heritage 3.0
- **POLS 1100** American National Government 3.0

### Discipline Core Requirements: 25 Credits

- **Complete any courses 1000 or higher** 25.0

**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.

**BA in Integrated Studies 123-126 CREDITS**

### Matriculation Requirements:

- An associate in arts or associate in science degree, or
- Junior status in college with approximately 60 or more credits.
- 2.5 GPA minimum.

### General Education Requirements: 35 Credits

- **ENGL 1010** Introduction to Writing 3.0
- **ENGL 2010** Intermediate Writing--Humanities/ Social Sciences 3.0
General Education Requirements: 6 Credits

- Complete one of the following: 3.0
  - MATH 1030 Quantitative Reasoning
    (recommended for Humanities or Arts majors) (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: 3.0

- PHIL 2650 Ethics and Values
- HLTH 1100 Personal Health and Wellness
- or PES 1097 Fitness for Life (2.0)

Distribution Courses: 3.0

- Biology
- Physical Science
- Additional Biology or Physical Science
- Any 2020 Foreign Language course
- Fine Arts Distribution
- Social/Behavioral Science

Discipline Core Requirements: 21 Credits

- ENGL 3030 Writing and Communicating
- Effectively In/Across Contexts*
- IS 3000 Introductory Topics in Integrated Studies
- IS 3500 Topics in Integrated Studies
- PHIL 3000+ 3.0
- PHIL 3000+ 3.0
- ASL or LANG courses not already taken.

Emphasis Requirements: 36 Credits

- Complete one approved Integrated Studies 18.0
- Emphasis
- Complete another approved Integrated Studies 18.0

Discipline Core Requirements: 25 Credits

- ENGL 3030 Writing and Communicating
- Effectively In/Across Contexts*
- IS 3000 Introductory Topics in Integrated Studies
- IS 3500 Topics in Integrated Studies
- PHIL 3000+ 3.0
- IS 4980 Integrated Studies Capstone I
- IS 499R Integrated Studies Capstone II

Emphasis Requirements: 36 Credits

- Complete 1 approved Integrated Studies 18.0
- Emphasis
- Complete another approved Integrated Studies 18.0

Elective Requirements: 26 Credits

- Complete any 1000-level, or higher, course 26.0

Graduation Requirements:

- 1 Completion of a minimum of 123 semester credits; a
  minimum of 40 credits must be upper-division.
- 2 Overall grade point average of 2.0 (C) or above.
  (Departments may require a higher GPA.)
- 3 Residency hours: minimum of 30 credit hours through
  course attendance at UVU, at least 10 hours
  earned in the last 45 hours.
- 4 Completion of GE and specified departmental
  requirements; students must have “C” or higher in
  the Discipline Core courses (except for the
  Foreign Language classes).
- 5 For the BA degree, completion of 18 credit hours
  of coursework 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-
  ing, see page 25.

Note: All Emphases are required to have a minimum of 9
upper-division credits (with 12 preferred).

Footnotes:

- Students demonstrating evidence of excellent research
  and writing skills in IS 3500 may be exempted from
  ENGL 3030.

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 one of the following: 3.0
  - ENGL 1010 Introduction to Writing

- Complete one of the following: 3.0
  - MATH 1030 Quantitative Reasoning
    (recommended for Humanities or Arts majors) (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: 3.0

- PHIL 2650 Ethics and Values
- HLTH 1100 Personal Health and Wellness
- or PES 1097 Fitness for Life (2.0)

Distribution Courses: 3.0

- Biology
- Physical Science
- Additional Biology or Physical Science
- Social/Behavioral Science

Discipline Core Requirements: 21 Credits

- ENGL 3030 Writing and Communicating
- Effectively In/Across Contexts*
- IS 3000 Introductory Topics in Integrated Studies
- IS 3500 Topics in Integrated Studies
- PHIL 3000+ 3.0
- PHIL 3000+ 3.0
- ASL or LANG courses not already taken.

Emphasis Requirements: 36 Credits

- Complete one approved Integrated Studies 18.0
- Emphasis
- Complete another approved Integrated Studies 18.0

Elective Requirements: 26 Credits

- Complete any 1000-level, or higher, course 26.0

Graduation Requirements:

- 1 Completion of a minimum of 123 semester credits; a
  minimum of 40 credits must be upper-division.
- 2 Overall grade point average of 2.0 (C) or above.
  (Departments may require a higher GPA.)
- 3 Residency hours: minimum of 30 credit hours through
  course attendance at UVU, at least 10 hours
  earned in the last 45 hours.
- 4 Completion of GE and specified departmental
  requirements; students must have “C” or higher in
  the Discipline Core courses.
- 5 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.

Note: All Emphases are required to have a minimum of 9
upper-division credits (with 12 preferred).

Footnotes:

- Students demonstrating evidence of excellent research
  and writing skills in IS 3500 may be exempted from
  ENGL 3030.

Emphasis in American Sign Language 18 Credits

Emphasis Requirements: 18 Credits

- Prerequisites (see advisor)
  - ASL 1010 Beginning American Sign Language I (3.0)
  - ASL 1020 Beginning American Sign Language II (3.0)
  - ASL 2010 Intermediate American Sign Language I (3.0)
  - ASL 2020 Intermediate American Sign Language II (3.0)

Complete the following: 12 Credits

- ASL 3500 Advanced American Sign Language 3.0
- ASL 3530 Deaf Culture from 1970 (3.0)

Elective Requirements: 12 Credits

- Complete 12 credits from any 3000 or 4000 level
  12.0 or ASL or LANG courses not already taken.

Emphasis in Anthropology 19 Credits

Emphasis Requirements: 19 Credits

- Prerequisites:
  - ANTH 101G Social/Cultural Anthropology** (3.0)

Complete the following: 18 Credits

- ANTH 1020 Biological Anthropology (3.0)
- SOC 301L Statistics for the Behavioral Sciences (4.0)
- ANTH 4150 Contemporary Theory and Debates (3.0)
- ANTH 4160 History of Anthropological Thought (3.0)
- ANTH 4850 Ethnographic Methods (3.0)

Complete 6 additional credits in Anthropology. 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.

Emphasis in Ballet 20 Credits

Emphasis Requirements: 20 Credits

Prerequisites:

- DANC 1330 Studio Workshop—Creative Pro-
  cess in Dance (1.0)
- DANC 2110 Orientation to Dance (3.0)
- DANC 2270 Introduction to Laban Studies (2.0)
- DANC 3560 World Dance Forms (2.0)

Complete the following:

- DANC 2340 Composition
- DANC 3630 Dance History
- DANC 3670 Movement Analysis
- DANC 4880 Current Issues in Dance
- DANC 4920 Dance as Cultural Practice

Complete 6 credits from the following classes:

- DANC 227R Ballet Technique II (3.0)
- DANC 327R Ballet Technique III (3.0)
- DANC 427R Ballet Technique IV (3.0)
- DANC 428R Ballet Technique V (3.0)

Emphasis in Ballroom Dance 20 Credits

Emphasis Requirements: 20 Credits

Prerequisites:

- DANC 1330 Studio Workshop—Creative Pro-
  cess in Dance (1.0)
- DANC 2110 Orientation to Dance (3.0)
- DANC 2270 Introduction to Laban Studies (2.0)
- DANC 3560 World Dance Forms (2.0)

Complete the following:

- DANC 2340 Composition
- DANC 3630 Dance History
- DANC 3670 Movement Analysis
- DANC 4880 Current Issues in Dance
- DANC 4920 Dance as Cultural Practice

Complete 6 credits from the following classes:

- DANC 227R Ballet Technique II (3.0)
- DANC 327R Ballet Technique III (3.0)
- DANC 427R Ballet Technique IV (3.0)
- DANC 428R Ballet Technique V (3.0)
Footnotes:
- Must complete the 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 in each of the six modules.

Emphasis in Communication 18 Credits
Emphasis Requirements: 18 Credits

Complete six credits from the following:
- COMM 3505 Theories of Communication and Culture (3.0)
- COMM 3310 Non-Fiction Cinema History (3.0)
- COMM 3350 Film Theory (3.0)
- COMM 3323 Cross-Cultural Communications for International Business (3.0)
- COMM 3341 Fundamentals of Mediation and Negotiation (3.0)
- COMM 3509 Special Topics in Mass Communication (3.0)

Complete the following:
- COMM 3350 Case Studies in Public Relations (3.0)
- COMM 3650 Mass Media Ethics and Law (3.0)
- COMM 3625 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-Format Video Journalism (3.0)
- COMM 4100 Advanced Mediation and Negotiation (3.0)

Emphasis in Computer Networking 18 Credits
Emphasis Requirements: 18 Credits

Prerequisites:
- 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 2660 Information Security--Fundamentals (3.0)

Complete 9 credits from the following:
- INFO 3030 Networks and Internetworking (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 4030 Enterprise Network Architectures and Administration (3.0)
- INFO 405G Global Ethical and Professional Issues in Telecommunications (3.0)
- INFO 405G Global Ethical and Professional Issues in Technology (3.0)
- INFO 3800 Computer Forensics and Cybercrime (3.0)

Note: A minimum of 2.5 GPA in all Specialty Core courses with no grade lower than a C- required for graduation.

Emphasis in Computer Science 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 (.0)
- CS 3250 Java Software Development (3.0)
- CS 3330 Windows Programming (3.0)
- CS 3770 C-plus-plus Software Development (3.0)
- CS 2450 Software Engineering (3.0)
- CS 4380 Advanced/High-Performance Computer Architecture (3.0)
- CS 4450 Analysis of Programming Languages (3.0)
- CS 4490 Compiler Construction (3.0)

Note: A minimum GPA of 2.5 in all Specialty Core courses with no grade lower than a C- required for graduation.

Emphasis in Digital Media 18 Credits
Emphasis Requirements: 18 Credits

Prerequisite courses:
- DGM 1110 Digital Media Essentials I (4.0)
- DGM 1210 Digital Media Essentials II (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)
- DGM 2240 Interaction Design (3.0)

Complete the following:
- DGM 3220 Digital Media Project Management (3.0)
- DGM 4000 Writing for Digital Media (3.0)
- ENGL 4310 Advanced Technical Communication (3.0)
- DGM 4310 Senior Projects (3.0)
- DGM 4330 Corporate Issues in Multimedia (3.0)
Complete 6 credits from the following:
- DGM 312G Digital Media for Intercultural Communication (3.0)
- DGM 3130 Digital Storyboarding (3.0)
- DGM 2220 Marketing for Digital Media (3.0)
- DGM 4410 Senior Projects II (3.0)

**Emphasis in Earth Science** 18 Credits

**Emphasis Requirements:** 18 Credits

Earth Science Emphasis
- GEO 1910 Introduction to Geology 3.0
- GEO 1915 Introduction to Geology Laboratory (highly recommended) 1.0

Complete one of the following sets (lab is highly recommended) 3.0
- and GEO 1220 Historical Geology (3.0)
- and GEO 1225 Historical Geology Laboratory (1.0)
- and GEO 1083 Introduction to Oceanography (3.0)
- or METO 1010 Introduction to Meteorology (3.0)
- and METO 1020 Introduction to Meteorology Laboratory (1.0)

Complete three courses from the following:
- METO 3100 Climate and the Earth System (3.0)
- or METO 1020 Introduction to Meteorology Laboratory (1.0)
- or GEO 1015 Introduction to Geology Laboratory (1.0)
- or GEO 1225 Historical Geology Laboratory (1.0)
- or GEO 3080 Earth Materials (4.0)
- or GEO 3200 Geologic Hazards (4.0)
- or GEO 3210 Environmental Geology (4.0)
- or GEO 3700 Structure and Tectonics (4.0)
- or GEO 4500 Sedimentary Geology (4.0)
- or GEO 4510 Paleontology (4.0)

**Emphasis Economics** 18 Credits

**Discipline Core Requirements:** 12 Credits
- ECON 2010 Microeconomics 3.0
- ECON 2020 Macroeconomics 3.0
- ECON 3200 Intermediate Microeconomics 3.0
- or ECON 3830 History of Economic Thought 3.0

**Elective Requirements:** 6 Credits
Choose six hours from the following courses 6.0
- ECON 3303 Intermediate Macroeconomics (3.0)
- ECON 3400 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)
- or MGMT 4180 International Finance Management (3.0)

**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. 15.0
Course selection must be approved by English advisor.

**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 Colleges/Schools
- College of Humanities and Social Sciences
  - ANTH 3150 Culture Ecology and Health (3.0)
- or HLTN 3150 Culture Ecology and Health (3.0)
- or COMM 3150 The Culture of Nature and Technology (3.0)
- or ENST 3520 Environmental Psychology (3.0)
- or PSTY 3520 Environmental Psychology (3.0)
- or ENVT 3630 Arts to Introduction to Geographic Information Systems (4.0)
- or GEOG 3630 Introduction to Geographic Information Systems (4.0)
- or GEOG 3010 Economic Geography (3.0)
- or GEOG 3610 Environmental History of the United States (3.0)
- or HIST 3800 Environmental History of the United States (3.0)
- or HIST 3260 History of Utah (3.0)
- or HIST 4330 Machines in the Making of History (3.0)
- or HIST 4620 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)
- or Any other advisor-approved courses

**Emphasis in French** 18 Credits

**Emphasis Requirements:** 18 Credits

**Prerequisites (see Advisor):**
- FREN 1010 Beginning French I (5.0)
- FREN 1020 Beginning French II (5.0)
- FREN 2010 Intermediate French I (5.0)
- FREN 2020 Intermediate French II (3.0)
- FREN 2050 Advanced French Grammar and Composition (3.0)

Choose 18 credits from the following:
18.0
- FREN 3040 Introduction to Literary Genres in French* (3.0)
- or FREN 3050 Advanced French* (3.0)
- or FREN 3200 Business French (3.0)
- or FREN 3510 Culture and Civilization to 1700 (3.0)
- or FREN 3520 Culture and Civilization from 1700 (3.0)
- or FREN 3610 French Literature to 1700 (3.0)
- or FREN 3620 French Literature from 1700 (3.0)
- or FREN 4200 Advanced Business French (3.0)

Footnotes:
- * Variable credit course

**Emphasis in History** 18 Credits

**Emphasis Requirements:** 18 Credits

**History Emphasis** Complete one of the following:
3.0
- HIST 3260 History of the United States (3.0)
- or HIST 3260 History of Utah (3.0)
- or See Advisor

Complete an additional 15 credits from any HIST course 15.0
3000 or higher (see advisor).

**Emphasis in Hospitality Management** 18 Credits

**Emphasis Requirements:** 18 Credits

Hospitality Management Emphasis Complete the following:
12.0
- HM 3130 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 3000 Global Tourism (3.0)
- HM 3640 Food and Beverage Controls (3.0)
- HM 7100 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.

**Emphasis in Humanities** 18 Credits

**Emphasis Requirements:** 18 Credits

**Humanities Emphasis** Complete the following:
9.0
- HUM 1010 Humanities Through the Arts (3.0)
- or HUM 3202R Area Studies in Humanities (3.0)
- or HUM 330R Period Studies in Humanities (3.0)

Footnotes:
- * Variable credit course

**Emphasis in Leadership** 18 Credits

**Emphasis Requirements:** 18 Credits

**Leadership (Upper Division) Emphasis**

Prerequisites:
- ACC 3000 Financial Managerial and Cost Accounting Concepts (4.0)
- or ACC 2100 Financial Accounting (3.0)
- or ACC 2200 Managerial Accounting (3.0)

Complete the following:
3.0
- INFO 3120 Principles of Information Systems
- or MGMT 3010 Principles of Management (3.0)
- MGMT 3550 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 Military Science** 18 Credits

**Emphasis Requirements:** 18 Credits

**Leadership** Complete the following:
3.0
- MILS 3200 Small Unit Leadership I (3.0)
- or 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 4350 The History of World War II (3.0)
- HIST 3520 The United States and Vietnam--1945 to Present (3.0)
- HIST 7470 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 Adult Learning for Instructional Design (3.0)
- DGM 3290 Developing Digital Media for Instruction and Training (3.0)
- MGMT 335G Survey of International Business (3.0)
- MGMT 332G Cross-Cultural Communications for International Business (3.0)
- MGMT 3430 Human Resource Management (3.0)
- MGMT 3440 Managing Organizations (3.0)
- POLS 3100 Survey of International Terrorism (3.0)
- POLS 3400 American Foreign Policy (3.0)
- POLS 3600 International Relations of East Asia (3.0)

Notes:
1. Contracted Army ROTC Cadets must also satisfy the leadership laboratory and physical fitness terms of their contract in order to be commissioned officers in the US Army.
2. Military Science students who select this emphasis may not choose Physical Education, Outdoor Leadership, Leadership, or Office Management as their second emphasis.

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* Catalog 2008–2009
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* Catalog 2008–2009
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Integrated Studies
Emphasis in Modern Dance
Emphasis Requirements:

20 Credits
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)
• DANC 3560 World Dance Forms (2.0)
Complete the following:  
• DANC 2340 Composition     
• DANC 3630 Dance History     
• DANC 3670 Movement Analysis     
• DANC 4880 Current Issues in Dance     
• DANC 4920 Dance as Cultural Practice     
Complete 6 credits from the following classes:  
• DANC 143R Modern Dance Technique and
Theory I (3.0)
• DANC 144R Modern Dance Technique and
Theory I (3.0)
• DANC 243R Modern Dance Technique and
Theory II (3.0)
• DANC 244R Modern Dance Technique and
Theory II (3.0)
• DANC 341R Modern Dance Technique and
Theory III (3.0)
• DANC 342R Modern Dance Technique and
Theory III (3.0)
• DANC 441R Modern Dance Technique and
Theory IV (3.0)
• DANC 442R Modern Dance Technique and
Theory IV (3.0)

Emphasis in Music

Emphasis Requirements:

Emphasis in Office Management
Emphasis Requirements:

Emphasis Requirements:

2.0  
3.0  
3.0  
3.0  
3.0  
6.0

Emphasis Requirements:

4.0
4.0

19 Credits
19 Credits

Outdoor Leadership Emphasis  
Complete the following:  
• REC 2200
Foundations of Recreation
• REC 2400
Principles of Experiential Education
in Recreation
• REC 3100
Recreation Program Planning     
• REC 4000
Outdoor Leadership     
Complete 6 credits from the following:  
• REC 1350
Scuba Diving I (2.0)
• REC 1351
Scuba Diving II (2.0)
• REC 1500
Canoeing I (2.0)
• REC 1505
Whitewater Kayaking I (2.0)
• REC 1525
Mountaineering (2.0)
• REC 1527
Rock Climbing I (2.0)
• REC 1528
Rock Climbing II (2.0)
• REC 1550
Mountain Biking (2.0)
• REC 2005
Ropes Course Facilitation (2.0)
• REC 2010
Avalanche Awareness (2.0)
• REC 3300
Wilderness Skills (2.0)

Emphasis in Philosophy

3.0  
3.0  
3.0  
4.0  
6.0

18 Credits
18 Credits

Complete the following:  
• PHIL 1250
Logical Thinking and Philosophical 3.0  
Writing     
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
ntroduction to Eastern Religions  
(3.0)
• PHIL 2110
Ancient Philosophy (3.0)
• PHIL 2130
Medieval Philosophy (3.0)
• PHIL 2150
Early Modern Philosophy (3.0)
• PHIL 290R Independent Study (1.0)
• PHIL 295R Directed Readings (1.0)
Complete 12 credits from any 3000 or 4000 level PHIL 12.0
courses     

Emphasis in Physical Education
Emphasis Requirements:

18 Credits
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  
3.0  
7.0

19 Credits
19 Credits

• DGM 2350 Word Processing (3.0)
Prerequisites (can fulfill elective requirements):
• 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
• DGM 2230 Exploring Digital Communication
Tools (3.0)
• DGM 4350 Information Workflow Management
• DGM 3220 Digital Media Project Management
Complete 8 or more credits from the following:  
• ACC 3000
Financial Managerial and Cost
Accounting Concepts (4.0)
• DGM 3870 Web Graphics Applications (3.0)
• LEGL 3000 Business Law (3.0)
• MGMT 2390 Effective Business Presentations
(3.0)
• MGMT 3430 Human Resource Management
(3.0)

Utah Valley University

Emphasis in Outdoor Leadership

18 Credits
18 Credits

Prerequisites (see advisor)  
• MUSC 1110 Basic Music Theory I (3.0)
• MUSC 1120 Basic Music Theory II (3.0)
• MUSC 1130 Aural Music Skills I (2.0)
• MUSC 1140 Aural Music Skills II (2.0)
Complete the following:
• MUSC 250R Private Lessons for Music Majors   
(Must be repeated 4 times)  
Complete 4 credits from the following (enrollment in
upper-division performing groups require instructor
approval):   
• MUSC 120R Master Works Chorale (1.0)
• MUSC 124R UVU Concert Choir (1.0)
• MUSC 130R Symphonic Band (1.0)
• MUSC 170R Symphony Orchestra (1.0)
• MUSC 320R Advanced Master Works Chorale
(1.0)
• MUSC 322R Chamber Choir (1.0)
• MUSC 330R Advanced Symphony Band (1.0)
• MUSC 331R Percussion Ensemble (1.0)
• MUSC 332R Jazz Ensemble (1.0)
• MUSC 370R Advanced Symphony Orchestra
(1.0)
• MUSC 372R Chamber Orchestra (1.0)
Complete the following:  
• MUSC 2110 Advanced Music Theory I     
Complete 7 additional credit hours of music courses
(four of these credits must be upper division)   

• 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.  

3.0  
2.0  
3.0  
3.0  
8.0

Emphasis in Psychology
Emphasis Requirements:

19 Credits
19 Credits

Prerequisites:  
• PSY 1010
General Psychology** (3.0)
Complete the following:  
• PSY 2250
Psychology of Interpersonal
Relationships (3.0)
or PSY 2400
Positive Psychology     
3.0  
• PSY 3010
Statistics for the Behavioral
4.0  
Sciences*
• PSY 3020
Research Methods for the
3.0  
Behavioral Sciences     
• Advanced Research (complete one of the
3.0
following):  
• PSY 4010
Experimental Psychology (3.0)
or PSY 4020
Survey Research Design (3.0)
or PSY 4030
Introduction to Practice Evaluation
and Grant Writing (3.0)
or PSY 4040
Applied Psychology (3.0)
or PSY 4050
Clinical Research (3.0)
• Complete 6 additional credits in Psychology
6.0
(PSY). 3 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.

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* 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.

Emphasis in Religious Studies
Emphasis Requirements:

18 Credits
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     
• RLST 3650 Approaches to Religious Studies     
• RLST 366R Issues in Religious Studies     
Complete 9 credits from the following:  
• ANTH 3400 Myth Magic and Religion (3.0)
• ANTH 3450 Shamanism and Indigenous
Religion (3.0)
• ANTH 3460 Anthropology of Mormonism (3.0)
• COMM 3780 Mormon Cultural Studies (3.0)
• ENGL 374G Literature of the Sacred (3.0)
• ENGL 3780 Mormon Literature (3.0)
• HIST 4100
Jewish History (3.0)
• RLST 3540 Christian Ethics (3.0)
• RLST 3610 Introduction to Christian
Theology (3.0)
• SOC 3400
Sociology of Religion (3.0)

Emphasis in Social Sciences
Emphasis Requirements:

3.0  
3.0  
3.0  
9.0

18 Credits
18 Credits

Complete 3 credits from the following courses:  
• ARCH 1100 Introduction to Archaeology (3.0)
• ECON 1010 Economics as a Social Science
(3.0)
• HIST 1740
US Economic History (3.0)
• GEOG 1300 Survey of World Geography (3.0)
• GEOG 2100 Geography of the United States
(3.0)
• GEOG 3010 Economic Geography (3.0)
• GEOG 3430 Political Geography (3.0)
• GEOG 3630 Introduction to Geographic
Information Systems (4.0)
• GEOG 3800 Environmental History of the United
States (3.0)
Complete 3 credits from the following courses:  
• POLS 1000 American Heritage (3.0)
• 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 2350 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 Executive Branch (3.0)
• POLS 3200 Legislative Process (3.0)
• POLS 3500 International Relations of the Middle
East (3.0)
• POLS 3590 American Indian Law and Tribal
Government (3.0)
• POLS 3600 International Relations of East
Asia (3.0)
• POLS 480R Internship (2.0)
Complete at least 3 credits from the following courses:  
• HIST 1500 World History to 1500 (3.0)
• HIST 151G World History from 1500 to the
Present (3.0)
• HIST 1700 American Civilization (3.0)
• HIST 2700 US History to 1877 (3.0)
• HIST 2710
US History since 1877 (3.0)
Complete an additional 9 credits from any GEOG,
HIST, or POLS course 3000 or higher (see advisor).  

3.0

3.0

3.0

9.0

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Integrated Studies

### 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 340 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.

### Emphasis in Spanish 18 Credits

**Emphasis Requirements:** 18 Credits

**Prerequisites (see Advisor):**
- SPAN 1010 Beginning Spanish I (5.0)
- SPAN 1020 Beginning Spanish II (5.0)
- SPAN 2010 Intermediate Spanish I (5.0)
- SPAN 2020 Intermediate Spanish II (3.0)
- SPAN 2050 Advanced Spanish Grammar and Composition (3.0)

Complete 18 credits from the following: 18.0

- SPAN 3640 Spanish American Literature to 1890 (3.0)
- SPAN 3660 Spanish American Literature from 1890 (3.0)
- SPAN 4050 Special Topics in Grammar Usage and Style (3.0)
- SPAN 4200 Advanced Business Spanish (3.0)
- SPAN 4900 Capstone Seminar (3.0)

**Footnotes:**
* SPAN 3040 or 3050 is the prerequisite to all higher-numbered courses listed in Discipline Core Requirements.

### Emphasis in Technology Management 18 Credits

**Emphasis Requirements:** 18 Credits

Complete 18 credits from the following: 18.0

- TECH 3000 Introduction to Technology Management (3.0)
- TECH 3010 Creativity Innovation and Change Management (3.0)
- TECH 3400 Project Management (3.0)
- TECH 3700 Materials Management (3.0)
- TECH 3850 Quality Assurance in Technology (3.0)
- TECH 4000 Reliability Engineering and Safety (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 4420 Organization Information Technologies (3.0)
- TECH 4820 Current Topics in Technology Management (2.0)

See Course Descriptions section of the catalog for detailed course information. This department manages the following course prefixes:
- IS, Integrated Studies
Utah Valley University encourages students to extend learning beyond the classroom by participating in Internships, Cooperative Education, 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 or Cooperative Education–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, and college that outline responsibilities of the parties

All departments in the university have integrated Internship or Cooperative Educational experience in their curriculum either as a required component or as an elective. Generally these courses are designated as 261R (lower division) or 481R (upper division). Some departments require an associated co-requisite.

Academic programs either offer Internship or Cooperative Education experience depending on their fields. Cooperative Education is generally associated with technical or engineering fields, but both Internships and Cooperative Education experience can be paid or unpaid applied learning opportunities. Please refer to specific programs in the catalog for detailed information.

Approval for enrollment must be obtained from the Internship Department Coordinator. A list of current coordinators can be obtained from the internship website or by contacting the department directly. Students declared as a General Academics 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).

Academic credit for internships or cooperative work experience is granted according to learning objectives with the academic department and the number of hours a student works during the semester. Generally, internships and cooperative education credits can be determined according to the following formula:

<table>
<thead>
<tr>
<th>Credit Hours</th>
<th>Minimum Hours of Work</th>
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<tr>
<td>1</td>
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<tr>
<td>8</td>
<td>600</td>
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</tbody>
</table>

Grading for Internship or Cooperative Education varies from department to department. In some departments the internship courses is CR (credit granted) or NC (credit not granted) and in others the student will receive a letter grade. The maximum number of Internship or Cooperative Education credits that may be applied toward a certificate or graduation requirement is also determined by the individual department. Students interested in international internships must also meet with the International Center to obtain a travel card, cultural recommendations and security clearance.

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 and Cooperative Education 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 Internship/Cooperative Education orientation provided by the Director of Internship Services. Information for participation and scheduling of the Internship Orientation can be obtained through your Academic Internship Coordinator or through the Career Services and Student Employment Center (863-6364).
Languages

Department of Languages
Department Office: LA 003a
Department Telephone: 801-863-8518

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

Faculty:
Professor
Liliana Riboldi (Spanish)

Associate Professor
Bryan K. Eldridge (ASL & Deaf Studies)
Douglas C. Jensen (Spanish)

Assistant Professor
Gregory Briscoe (Spanish)
Débora R. S. Ferreira (Portuguese)
Flavia S. Fleischer (ASL & Deaf Studies)
William G. Garrow (ASL & Deaf Studies)
Gloria Thomas Gilmore (French)
Baldomero Lago (Spanish)
Jorge L. Nisguritzer (Spanish)
Jeffrey Packer (German)
Sara Ulloa (Spanish)

Lecturer
Ana Maria Chaparro (Spanish)

Visiting Assistant Professor
Dale Boam (ASL & Deaf Studies)
Cynthia Plue (ASL & Deaf Studies)

Language Advisor: Laura Shelley
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
Interim 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
UVU offers beginning (1000 level) and intermediate (2000 level) courses in American Sign Language, Chinese, French, German, Japanese, Portuguese, Russian, and Spanish, as well as upper division (3000-4000 level) language classes in all but Chinese. UVU courses support programs and degrees that require languages (e.g., Associate in Arts and Bachelor of Arts).

Language courses numbered 2020 apply to Humanities Distribution requirements.

Some Language courses fulfill the Global/Intercultural graduation requirement.

Language courses fulfill language requirements for any BA degree.

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, as well as minors in Spanish and Deaf Studies and Integrated Studies Emphases in Spanish, ASL, and French.

BA in Deaf Studies 123 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)

Choose 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)

Choose one of the following: 3.0

• HIST 1750 American Civilization (3.0)
• HIST 2700 US History from 1877 (3.0)
• and HIST 2710 US History since 1877 (3.0)
• POLS 1010 American National Government (3.0)
• POLS 1110 American National Government (3.0)

Complete the following: 3.0

• PHIL 2050 Ethics and Values
• HLTH 1100 Personal Health and Wellness
• or PES 1097 Fitness for Life

Distribution Courses 3.0

• Humanities Distribution
• ANTH 101G Social/Cultural Anthropology
• Fine Arts Distribution
• Biology
• Physical Science
• Biological or Physical Science

Discipline Core Requirements: 31 Credits

• ASL 2040 ASL Numbers *
• ASL 3310 Advanced American Sign Language
• ASL 3310 Interpreting I
• ASL 3510 Deaf Culture to 1817
• ASL 3520 Deaf Culture 1817 to 1970
• ASL 3530 Deaf Culture from 1970
• ASL 3610 ASL Literature
• ASL 4140 ASL Linguistics
• Any other 4000-level class with an ASL prefix

Complete at least 6 credits from the following courses: 6.0

• ANTH 106G 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 356O Sociology of Deviance (3.0)
• SOC 370O Social Inequality (3.0)
• SOC 440O Social Change (3.0)
• EDEC 3330 Multicultural Understanding (2.0)
• ANTH 3050 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

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.

Complete at least 6 credits from the following 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 2020. See advisor for more information.

Emphasis in General Deaf Studies 57.0 Credits

Emphasis Requirements: 15 Credits

Complete the following courses:

• LANG 3000 Language and Culture 3.0
• ASL 4450 Deaf-World Discourse 3.0
• ASL 4560 Deafness and the Law 3.0
• ASL 4550 Multicultural Issues in the Deaf-World 3.0

Emphasis Elective Requirements: 42 Credits

Complete 18 credits from among the following:

• ASL 1020 Intermediate ASL 3.0
• ASL 4560 Deafness and the Law 3.0
• ASL 4570 Introduction to ASL 3.0
• ASL 2040 ASL Numbers * 1.0
• ASL 3310 Advanced American Sign Language 3.0
• ASL 3310 Interpreting I 3.0
• ASL 3510 Deaf Culture to 1817 3.0
• ASL 3520 Deaf Culture 1817 to 1970 3.0
• ASL 3530 Deaf Culture from 1970 3.0
• ASL 3610 ASL Literature 3.0
• ASL 4140 ASL Linguistics 3.0
• Any other 4000-level class with an ASL prefix 3.0

Complete at least 6 credits from the following courses: 6.0

• ANTH 106G 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 356O Sociology of Deviance (3.0)
• SOC 370O Social Inequality (3.0)
• SOC 440O Social Change (3.0)
• EDEC 3330 Multicultural Understanding (2.0)
• ANTH 3050 Discourse Semiotics and Representation (3.0)
• ANTH 360R People and Cultures of the World (3.0)

Footnotes:

* Students are encouraged to apply these credits toward the completion of a minor (in something other than Deaf Studies).

CULTURE ELECTIVES 3.0

Complete at least 3 credits from the following courses:

• ANTH 106G 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 356O Sociology of Deviance (3.0)
• SOC 370O Social Inequality (3.0)
• SOC 440O Social Change (3.0)
• EDEC 3330 Multicultural Understanding (2.0)
• ANTH 3050 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. *
Emphasis in Interpreting 57.0 Credits

Emphasis Requirements 23 Credits

Complete the following courses:
- ASL 3310 Interpreting I (3.0)
- ASL 3320 Ethics for Interpreters (3.0)
- ASL 3340 Interpreting I—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:

- Complete 18 credits from the following:
- Electives (totaling at least 4 credits)

- Choose one of the following:
- MATH 1050 College Algebra
- MATH 1700 American Civilization (3.0)
- HIST 2710 US History since 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
- HLTH 1100 Personal Health and Wellness
- or PES 1097 Fitness for Life (2.0)

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

Discipline Core Requirements: 69 Credits

- ASL 3505 Advanced American Sign Language
- ASL 3310 Interpreting I
- ASL 4410 ASL Linguistics (3.0)
- ASL 3510 Deaf Culture to 1817
- ASL 3520 Deaf Culture from 1817 to 1970 (3.0)
- ASL 3530 Deaf Culture from 1970 (3.0)
- LANG 4200 Methods of Teaching a Foreign Language
- ASL 3610 ASL Literature
- ASL 3620 ASL Language
- ASL 3630 Other 300+ class with an ASL or LANG prefix

Education Courses:
- EDSC 3050 Educ. Psychological Development
- EDSC 2540 Development of the Adolescent Student

Graduation Requirements:
- Complete a minimum of 120 credit hours with a minimum of 40 upper-division credits.
- Complete all graduation requirements.
- Complete all upper-division English courses.
- Complete all General Education requirements.
- Complete all other department requirements.

BA in ASL and Deaf Studies Education 123 Credits

Matriculation Requirements:
1. ACT score: 20 composite minimum, no sub-test below 19
2. Passing score on the CAAP exam (3 or higher)
3. Pass a criminal background check, student’s junior year
4. Receive approval from Secondary Ed Selection and Retention Committee—formal interview required
5. Meet all other requirements for Secondary Education Program

General Education Requirements: 36 Credits

- ENGL 1010 Introduction to Writing
- ENGL 2010 Intermediate Writing—Humanities/Arts
- Social Sciences
- or ENGL 2010 Intermediate Writing—Science and Technology

BA in Spanish 120 Credits

General Education Requirements: 35 Credits

- ENGL 1010 Introduction to Writing
- ENGL 2010 Intermediate Writing—Humanities/Arts

Languages

- MATH 1050 College Algebra
- MATH 1700 American Civilization (3.0)
- HIST 2710 US History since 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)

- Choose the following:
  - PHIL 2050 Ethics and Values
  - HLTH 1100 Personal Health and Wellness
  - or PES 1097 Fitness for Life (2.0)

- Distribution Courses:
  - Humanities Distribution [non-language courses only]
  - Social/Behavioral Science
  - Fine Arts Distribution
  - Biology
  - Physical Science
  - Psychology

- Discipline Core Requirements: 15 Credits

- SPAN 3040 Introduction to Literary Genres in Spanish
- SPAN 3050 Advanced Spanish (3.0)
- SPAN 3510 Culture and Civilization—Spain (3.0)
- SPAN 3520 Culture and Civilization—Spanish America (3.0)
- SPAN 3680 Oral Proficiency (1.0)
- or Oral Proficiency Interview (OP)
- SPAN 4050 Special Topics in Grammar Usage and Style
- SPAN 4900 Capstone Seminar
- Any upper division Spanish literature course

- Elective Requirements: 70 Credits

- Choose 15 credits from the following:
  - SPAN 3220 Business Spanish (3.0)
  - SPAN 3220 Pronunciation Phonetics and Phonology (3.0)
  - SPAN 3510 Culture and Civilization—Spain (3.0)
  - SPAN 3520 Culture and Civilization—Spanish America (3.0)
  - SPAN 3610 Spanish Peninsular Literature to 1850 (3.0)
  - SPAN 3620 Spanish Peninsular Literature from 1850 (3.0)
  - SPAN 3630 Spanish American Literature to 1850 (3.0)
  - SPAN 3640 Spanish American Literature from 1850 (3.0)
  - SPAN 4200 Advanced Business Spanish (3.0)

- Graduation Requirements:
  - Complete all upper-division electives
  - Complete all major core and elective requirements
  - Residency hours—minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours

- Footnotes:
  - * For eligible students, the lower division courses 1010, 1020, 2010, and 2020, worth 15 hours will apply here.

BA in Spanish Education 120 Credits

Matriculation Requirements:
1. ACT score: 20 composite minimum, no sub-test below 18
2. Passing score on the CAAP exam (3 or higher)
3. Pass a criminal background check, student’s junior year
Languages

4 Receive approval from Secondary Ed Selection and Retention Committee—formal interview required

5 Meet all other requirements for Secondary Education Program

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/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 2710 US History to 1877 (3.0)
- and HIST 2710 US History since 1877 (3.0)
- or POLS 1000 American Heritage (3.0)
- or PES 1091 Fitness for Life (2.0)

Distribution Courses:

- Humanities Distribution [non-language courses only] 3.0
- Social/Behavioral Science 3.0
- Fine Arts Distribution 3.0
- Biology 3.0
- Physical Science 3.0
- Biological or Physical Science 3.0

Fundamental Core Requirements: 18 Credits

- SPAN 3040 Introduction to Literary Genres in Spanish 3.0
- or SPAN 3050 Advanced Spanish (3.0)
- or SPAN 3510 Culture and Civilization—Spain (3.0)
- or SPAN 3520 Culture and Civilization—Spain America (3.0)
- or SPAN 3600 Oral Proficiency (1.0)
- or Oral Proficiency Interview (OPI) 1.0
- or SPAN 4050 Special Topics in Grammar Usage and Style 3.0
- or SPAN 4900 Capstone Seminar 3.0
- or 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 3.0
- EDSC 4220 Classroom Management I 1.0
- EDSC 4250 Classroom Management II 1.0
- EDSC 4440 Content Area Reading and Writing 2.0
- EDSC 4450 Multicultural Instruction/ESL 2.0
- EDSC 4550 Secondary Curriculum Instruction and Assessment 4.0
- EDSC 4560 Student Teaching—Secondary (4.0)
- or Any upper division Spanish Literature course 3.0

Elective Requirements: 36 Credits

Complete 15 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 120 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. Complete residency and maximum years in program requirements and any other requirements stated in the College Catalog or established by the department.

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 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 Spanish 18 CREDITS

Prerequisites: (see Advisor):
- SPAN 040 or 050 Introduction to Literary Genres in Spanish (3.0)
- or SPAN 3050 Advanced Spanish (3.0)
- or SPAN 3510 Culture and Civilization—Spain (3.0)
- or SPAN 3520 Culture and Civilization—Spain America (3.0)

Complete 9 credits from the following:

- SPAN 3200 Business Spanish (3.0)
- SPAN 3220 Pronunciation Phonetics and Phonology (3.0)
- SPAN 3510 Culture and Civilization—Spain (3.0)
- SPAN 3520 Culture and Civilization—Spain America (3.0)
- SPAN 3610 Spanish Peninsular Literature to 1800 (3.0)
- SPAN 3620 Spanish Peninsular Literature from 1800 (3.0)
- SPAN 3630 Spanish American Literature to 1880 (3.0)
- SPAN 3640 Spanish American Literature from 1880 (3.0)
- SPAN 4200 Advanced Business Spanish (3.0)
- SPAN 4900 Capstone Seminar (3.0)

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 the catalog for complete degree requirement listings.)

Emphasis in Spanish 18 CREDITS

Prerequisites: (see Advisor):
- SPAN 1010 Beginning Spanish I (5.0)
- or SPAN 1020 Beginning Spanish II (5.0)
- or SPAN 2010 Intermediate Spanish I (5.0)
- or SPAN 2020 Intermediate Spanish II (5.0)
- or SPAN 2050 Advanced Spanish Grammar and Composition (3.0)

Complete 18 credits from the following:

- SPAN 3040 Introduction to Literary Genres in Spanish (3.0)
- or SPAN 3050 Advanced Spanish (3.0)
- or SPAN 3510 Culture and Civilization—Spain (3.0)
- or SPAN 3520 Culture and Civilization—Spain America (3.0)
- or SPAN 3610 Spanish Peninsular Literature to 1800 (3.0)
- or SPAN 3620 Spanish Peninsular Literature from 1800 (3.0)
- or SPAN 3630 Spanish American Literature to 1880 (3.0)
- or SPAN 3640 Spanish American Literature from 1880 (3.0)
- or SPAN 4200 Advanced Business Spanish (3.0)
- or SPAN 4900 Capstone Seminar (3.0)

Footnotes:
- SPAN 3040 or 3050 is the prerequisite to all higher-numbered courses listed in Discipline Core Requirements.

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
- JPN, Japanese
- LANG, Languages
- PORT, Portuguese
- RUS, Russian
- SPAN, Spanish
Paralegal Studies Advisory Committee:
Steve Averett, Central Utah Bar Association
President, Practicing Lawyer, and J. Reuben Clark Law School Librarian; Laurie Hart, Practicing Lawyer, Callister, Nebeke & McCullough; Randy S. Kester, Practicing Lawyer, Young, Kester & Petro; Jonathan Golightly, Private Sector Paralegal, Altiris, Inc.; Lesleigh Toews, Public Sector Paralegal, Fourth District & Juvenile Courts; Diane Samudio, CLA, Manager of Paralegals, Symantec Corporation; Carolyn Howard, J.D., Legal Studies Assistant Professor, UVU; Cameron Martin, Ph.D., Assistant to the President, UVU School Administrator; Hunt Willoughby, Mayor, Alpine City, UVU; Sharon Hassan, Student.

Woodbury School of Business
Dean: Stanley Earl Jenne, Ph.D.
Office: WB 128b
Telephone: 801-863-8260

Associate Dean: Eugene Seeley, Ph.D.
Office: WB 219
Telephone: 801-863-8736

Assistant Dean: Mikki O’Connor
Office: WB 129
Telephone: 801-863-8850

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.

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 to not only 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 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 1020 Intermediate Writing—Humanities/ Social Sciences 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>
</tr>
<tr>
<td>Complete one of the following:</td>
</tr>
<tr>
<td>• HIST 2700 US History to 1877 (3.0) and HIST 2710 US History since 1877 (3.0)</td>
</tr>
<tr>
<td>• HIST 1700 American Civilization (3.0)</td>
</tr>
<tr>
<td>• HIST 1740 US Economic History (3.0)</td>
</tr>
<tr>
<td>• POLS 1000 American Heritage (3.0)</td>
</tr>
<tr>
<td>• POLS 1100 American National Government (3.0)</td>
</tr>
<tr>
<td>Complete the following:</td>
</tr>
<tr>
<td>• PHIL 2050 Ethics and Values 3.0</td>
</tr>
<tr>
<td>• HLTH 1100 Personal Health and Wellness 2.0</td>
</tr>
<tr>
<td>or PES 1097 Fitness for Life (2.0)</td>
</tr>
<tr>
<td>Distribution Courses</td>
</tr>
<tr>
<td>• Biology 3.0</td>
</tr>
<tr>
<td>• Physical Science 3.0</td>
</tr>
<tr>
<td>• Additional Biology or Physical Science 3.0</td>
</tr>
<tr>
<td>• Humanities Distribution 3.0</td>
</tr>
<tr>
<td>• Fine Arts Distribution 3.0</td>
</tr>
<tr>
<td>• Social/Behavioral Science 3.0</td>
</tr>
</tbody>
</table>

Discipline Core Requirements: 21 Credits
| • LEGL 1000 Law and the Paralegal 3.0 |
| • LEGL 1110 Civil Litigation and Preparation 4.0 |
| • LEGL 1220 Legal Research in the Library 3.0 |
| • CJ 1330 Criminal Law 3.0 |
| • LEGL 2190 Legal Ethics 2.0 |
| • LEGL 2300 Computerized Legal Research 3.0 |
| • LEGL 2330 Computer Applications in Law 3.0 |

Elective Requirements: 6 Credits
| • Electives may consist of DGM 2100 and any Paralegal (LEGL) course that is not part of the core requirements. |

Graduation Requirements:
1. Completion of a minimum of 62 or more semester credits
2. Overall grade point average of 2.0 (C) or above. Must have a grade of C+ or higher in all Core and elective requirements.
3. Residency hours: Minimum of 20 credit hours through course attendance at UVU. At least 12 of these credits must be in LEGL or CJ courses.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.

BS in Paralegal Studies 120 CREDITS

General Education Requirements: 35 Credits
| • ENGL 1010 Introduction to Writing 3.0 |
| • ENGL 2010 Intermediate Writing—Humanities/ Social Sciences 3.0 |
| or ENGL 2020 Intermediate Writing—Science and Technology (3.0) |
| Complete one of the following: |
| • MATH 1030 Quantitative Reasoning (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: |
| • HIST 2700 US History to 1877 (3.0) and HIST 2710 US History since 1877 (3.0) |
| • HIST 1700 American Civilization (3.0) |
| • HIST 1740 US Economic History (3.0) |
| • POLS 1000 American Heritage (3.0) |
| • POLS 1100 American National Government (3.0) |
| Complete the following: |
| • PHIL 2050 Ethics and Values 3.0 |
| • HLTH 1100 Personal Health and Wellness 2.0 |
| or PES 1097 Fitness for Life (2.0) |
| Distribution Courses |
| • Biology 3.0 |
| • Physical Science 3.0 |
| • Additional Biology or Physical Science 3.0 |
| • Humanities Distribution 3.0 |
| • Fine Arts Distribution 3.0 |
| • Social/Behavioral Science 3.0 |

Discipline Core Requirements: 65 Credits
| • DGM 2100 Business Computer Proficiency 3.0 |
| • MGMT 2250 Job Application and Advancement Skills 1.0 |
| or MGMT 3890 Career Preparation (2.0) |
| • LEGL 1000 Law and the Paralegal 3.0 |
| • LEGL 1110 Civil Litigation and Preparation 4.0 |
| • LEGL 1220 Legal Research in the Library 3.0 |
| • CJ 1330 Criminal Law 3.0 |
| • LEGL 2190 Legal Ethics 2.0 |
| • LEGL 2300 Computerized Legal Research 3.0 |
| • CJ 2350 Laws of Evidence 3.0 |
| • LEGL 2330 Computer Applications in Law 3.0 |
| • LEGL 3000 Business Law 3.0 |
| • LEGL 481R Internship 1.0 |
| • CJ 4160 Constitutional Rights and Responsibilities 3.0 |
| • SOC 3200 Race and Minority Relations 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 |

Area of Specialization: 15.0
Legal Studies

• 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; 19.0 must be upper division courses)

Graduation Requirements:
1 Completion of a minimum of 120 or more semester credits with 40 semester credits from 3000 and 4000 level courses.
2 Overall grade point average of 2.0 (C) or above. Must have a grade of (C+) or higher in all core and elective requirements.
3 Residency hours—minimum of 30 credit hours 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.

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 2000 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:
• 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.

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

- LEGL, Legal Studies
Lineman Technology

Department of Construction Technologies

Department Chair: David Johnson
Office: GT 616c
Telephone: 801-863-6152

Program Coordinator: Max Christofferson
Office: GB 242
Telephone: 801-863-7982

Faculty:
Associate Professor
Max Christofferson
Office Manager/Advisor: Jenny Hoover
Office: GB 243
Telephone: 801-863-7980

Advisory Committee: David Atkinson, Provo City Power; Brent Thomas, Bountiful City Light; Steve Crosby, City of Logan; Leon Fredrickson, Springville City Power; Jim Brass, Codale; Byron Howells, Ritter Engineering; Ken White, Murray City.

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

CAREER OPPORTUNITIES

Today both men and women are training for jobs in the electrical trades — power generation, transmission, and distribution. Technicians may work in different types of jobs within the lineman trades. They may work in generating plants, or within the telecommunication industry, or installing overhead and/or underground fiber optic cables. They may be required to interpret and use electrical and electronic test equipment. They may work in substations with large power transformers, relaying equipment, voltage regulators, instrument transformers, and oil circuit breakers.

They may perform duties as electrical inspectors and consultants. They use blue prints, wiring diagrams, schematics and circuits of all types for troubleshooting, repair, and maintenance or installation of electrical components. They may be required to work in power transmission and distribution, installation and line maintenance, and line equipment with voltage from 120 volts to 500 KV. They may learn the techniques of live line maintenance to maintain continuity of service to the customer. They may be involved in residential, commercial, and industrial metering and may maintain and calibrate the metering equipment.

PROGRAMS

Three options are available: Diploma, Associate in Applied Science degree, and the Bachelor of Science Degree in Technology Management.

Diploma in Lineman Technology 54 CREDITS

<table>
<thead>
<tr>
<th>Discipline Core Requirements: 54 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>• ENGL 106A Career Writing for Technology—A 2.0</td>
</tr>
<tr>
<td>• LINE 1110 Lineman DC Theory and Lab 4.0</td>
</tr>
<tr>
<td>• LINE 1120 Residential Wiring 2.0</td>
</tr>
<tr>
<td>• LINE 1130 Lineman Applied DC Math 3.0</td>
</tr>
<tr>
<td>• LINE 1140 Basic Skill Development and Safety 4.0</td>
</tr>
<tr>
<td>• LINE 1210 AC Theory and Transformer Applications 4.0</td>
</tr>
<tr>
<td>• LINE 1220 Commercial Wiring 2.0</td>
</tr>
<tr>
<td>• LINE 1230 Lineman Applied AC Math 3.0</td>
</tr>
<tr>
<td>• LINE 1240 Single/Three-Phase Lines and Safety 4.0</td>
</tr>
<tr>
<td>• LINE 2310 Powerline Technician and Safety Code I 4.0</td>
</tr>
<tr>
<td>• LINE 2320 Industrial Wiring 2.0</td>
</tr>
<tr>
<td>• LINE 2330 Single and Polyphase Metering 2.0</td>
</tr>
<tr>
<td>• LINE 2340 Three-Phase Lines and Safety 5.0</td>
</tr>
<tr>
<td>• LINE 2410 Powerline Technician and Safety Code II 4.0</td>
</tr>
<tr>
<td>• LINE 2430 Substation Equipment 4.0</td>
</tr>
<tr>
<td>• LINE 2440 High Voltage Substation and Safety 4.0</td>
</tr>
<tr>
<td>• Social/Behavioral Science 1.0</td>
</tr>
</tbody>
</table>

Graduation Requirements:
1 Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)

AAS in Lineman Technology 64 CREDITS

<table>
<thead>
<tr>
<th>General Education Requirements: 16 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>• ENGLISH 1010 Introduction to Writing (3.0)</td>
</tr>
<tr>
<td>• ENGLISH 1060 Career Writing for Technology* (3.0)</td>
</tr>
<tr>
<td>• ENGLISH 106A Career Writing for Technology—A (2.0)</td>
</tr>
<tr>
<td>• MGMT 2200 Business Communications (3.0)</td>
</tr>
<tr>
<td>• LINE 1130 Lineman Applied DC Math (3.0)*</td>
</tr>
<tr>
<td>• MAT 1010 Intermediate Algebra (4.0)</td>
</tr>
<tr>
<td>• Any higher Mathematics Course</td>
</tr>
<tr>
<td>• HUMANITIES/FINE ARTS/FOREIGN LANGUAGE 2.0</td>
</tr>
<tr>
<td>• PHIL 2050 Ethics and Values (Highly recommended) (3.0)</td>
</tr>
<tr>
<td>• Any approved Humanities, Fine Arts, or Foreign Language Distribution Course</td>
</tr>
<tr>
<td>• SOCIAL AND BEHAVIORAL SCIENCE 2.0</td>
</tr>
<tr>
<td>• MGMT 3000 Organizational Behavior (3.0)</td>
</tr>
<tr>
<td>• Any approved Behavioral Science, Social, or Political Science Distribution Course</td>
</tr>
<tr>
<td>• BIOLOGY OR PHYSICAL SCIENCE 2.0</td>
</tr>
<tr>
<td>• EGDT 1810 Principles of Technology (2.0)</td>
</tr>
<tr>
<td>• Any approved Biology or Physical Science Distribution Course</td>
</tr>
<tr>
<td>• PHYSICAL EDUCATION/HEALTH/SAFETY OR ENVIRONMENT 1.0</td>
</tr>
<tr>
<td>• Any approved Physical Education, Health, Safety, or Environment Course</td>
</tr>
</tbody>
</table>

ADDITIONAL CREDITS FROM ANY OF THE ABOVE 5.0

<table>
<thead>
<tr>
<th>Discipline Core Requirements: 48 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>• LINE 1110 Lineman DC Theory and Lab 4.0</td>
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<tr>
<td>• LINE 1120 Residential Wiring 2.0</td>
</tr>
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<td>• LINE 1140 Basic Skill Development and Safety 4.0</td>
</tr>
<tr>
<td>• LINE 1210 AC Theory and Transformer Applications 4.0</td>
</tr>
<tr>
<td>• LINE 1220 Commercial Wiring 2.0</td>
</tr>
<tr>
<td>• LINE 1230 Lineman Applied AC Math* 3.0</td>
</tr>
<tr>
<td>• LINE 1240 Single/Three-Phase Lines and Safety 4.0</td>
</tr>
<tr>
<td>• LINE 2310 Powerline Technician and Safety Code I 4.0</td>
</tr>
<tr>
<td>• LINE 2320 Industrial Wiring 2.0</td>
</tr>
</tbody>
</table>

Lineman Technology

Department of Construction Technologies

Department Chair: David Johnson
Office: GT 616c
Telephone: 801-863-6152

Program Coordinator: Max Christofferson
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Faculty:
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They may perform duties as electrical inspectors and consultants. They use blue prints, wiring diagrams, schematics and circuits of all types for troubleshooting, repair, and maintenance or installation of electrical components. They may be required to work in power transmission and distribution, installation and line maintenance, and line equipment with voltage from 120 volts to 500 KV. They may learn the techniques of live line maintenance to maintain continuity of service to the customer. They may be involved in residential, commercial, and industrial metering and may maintain and calibrate the metering equipment.

PROGRAMS

Three options are available: Diploma, Associate in Applied Science degree, and the Bachelor of Science Degree in Technology Management.

Diploma in Lineman Technology 54 CREDITS

<table>
<thead>
<tr>
<th>Discipline Core Requirements: 54 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>• ENGL 106A Career Writing for Technology—A 2.0</td>
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<tr>
<td>• LINE 1110 Lineman DC Theory and Lab 4.0</td>
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<td>• LINE 1120 Residential Wiring 2.0</td>
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<tr>
<td>• LINE 1130 Lineman Applied DC Math 3.0</td>
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<tr>
<td>• LINE 1140 Basic Skill Development and Safety 4.0</td>
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<td>• LINE 1210 AC Theory and Transformer Applications 4.0</td>
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<td>• LINE 1220 Commercial Wiring 2.0</td>
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<td>• LINE 1230 Lineman Applied AC Math 3.0</td>
</tr>
<tr>
<td>• LINE 1240 Single/Three-Phase Lines and Safety 4.0</td>
</tr>
<tr>
<td>• LINE 2310 Powerline Technician and Safety Code I 4.0</td>
</tr>
<tr>
<td>• LINE 2320 Industrial Wiring 2.0</td>
</tr>
</tbody>
</table>

Graduation Requirements:
1 Completion of a minimum of 64 semester credits.
2 Overall grade point average of 2.0 (C) or above. (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:
* ENGL 1060, LINE 1130, and LINE 1230 do not meet the General Education requirements for an AS/AA.

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 Lineman Technology 51 Credits

<table>
<thead>
<tr>
<th>Emphasis Requirements: 51 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>• LINE 1110 Lineman DC Theory and Lab 4.0</td>
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<tr>
<td>• LINE 1120 Residential Wiring 2.0</td>
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<tr>
<td>• LINE 2410 Powerline Technician and Safety Code II 4.0</td>
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<tr>
<td>• LINE 2430 Substation Equipment 4.0</td>
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<tr>
<td>• LINE 2440 High Voltage Substation and Safety 4.0</td>
</tr>
</tbody>
</table>

LINEMAN APPRENTICESHIP

The Lineman Apprentice courses are offered for Lineman Apprentices to complete the Federal Bureau of Apprenticeship and Training’s other-related instruction requirements. See Apprenticeship section of the catalog for Lineman Apprentice classes. The Lineman Apprentice courses may substitute for a portion of the Lineman Technology Program requirements for an AAS Degree. For further information contact the Lineman Advisor.

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.

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

- ACRT, Air Conditioning & Refrigeration Technology
- BCCM, Building Construction & Construction Management
- BIT, Building Inspection Technology
- CABIN, Cabinet & Architectural Woodworking
- FAC, Facilities Management
- LINE, Lineman Technology
- WELD, Welding Technology
Marketing and International Business

CAREER OPPORTUNITIES
For those trained in international business, many opportunities exist in private industry, government, and entrepreneurship fields. Possible occupational areas may include shipping departments of large and small corporations, freight forwarding, import/export, international sales, foreign relations, communications, or government trade offices.

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, retailing management, Internet marketing, and sales and sales management.

JOB OUTLOOK
In international business, job demand is high, particularly in metropolitan areas; and the employment outlook is excellent. Those trained in international business with fluency in one or more foreign languages may enter the fast-growing areas of international business management, marketing, finance, import/export, or government services. 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 new 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 new sales and sales management.

PROGRAMS
Students in Marketing and International Business may receive a Bachelor of Science Degree in Business with a Marketing or an International Business 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.)

BS in Business Management with an Emphasis in Marketing and International Business

General Education Requirements: 38 Credits

- ENGL 1010 Introduction to Writing 3.0
- ENGL 2010 Intermediate Writing--Humanities 3.0
- or ENGL 2020 Intermediate Writing--Science and Technology (3.0)
- MATH 1050 College Algebra 4.0
- or an Advanced Placement (AP) Mathematics Test with a score of 3 or higher

Complete one of the following:

- HIST 2100 US History to 1877 (3.0)
- and HIST 2110 US History since 1877 (3.0)
- HIST 1700 American Civilization (3.0)
- HIST 1740 US Economic History (3.0)
- POLS 1000 American Heritage (3.0)
- POLS 1100 American National Government (3.0)

Distribution Courses:
- ECON 2020 Macroeconomics * (fulfills Social/ Behavioral Science credit) 3.0
- Biology 3.0
- Physical Science 3.0
- Additional Biology or Physical Science 3.0
- Humanities Distribution 3.0
- Fine Arts Distribution 3.0

Discipline Core Requirements: 50 Credits

Business Foundation Courses:
- ACC 2010 Financial Accounting 3.0
- ACC 2020 Managerial Accounting 3.0
- Business Computer Proficiency Exam ** 1.0
- or DGM 2010 Business Computer Proficiency 3.0
- MATH 1110 Introduction to Calculus 4.0
- MGMT 2200 Business Communications * 3.0
- ECON 2100 Microeconomics 3.0
- MGMT 2340 Business Statistics I 3.0
- MGMT 2390 Effective Business Presentations 3.0

Business Core Courses:
- INFO 3100 Principles of Information Systems— ** 3.0
- LEGL 3000 Business Law 3.0
- MGMT 3010 Principles of Management 3.0
- MGMT 3100 Principles of Finance* 3.0
- MGMT 3450 Operations Management* 3.0
- MGMT 3600 Principles of Marketing 3.0
- or MGMT 3890 Career Preparation 2.0
- MGMT 4800 Strategic Management* 3.0
- MGMT 4830 Strategic Management Capstone Simulation 1.0
- MGMT 4930 Entrepreneurship Lecture Series (1.0) or MGMT 495R Executive Lecture Series 1.0

Elective Requirements: 10 Credits

Graduation Requirements:

1. Completion of a minimum of 123 semester credits required in the BS degree; at least 40 credit hours must be upper-division courses.
2. Overall grade point average 2.0 or above with a minimum of 2.5 GPA in all Woodbury School of Business courses. No grade lower than a “C-” in core and specialization courses.
3. Residency hours: Minimum of 30 credit hours of business courses through course attendance at UUV, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.
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 on each module or complete the DGM 2010 course or DGM 2010-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.

Emphasis in International Business

Emphasis Requirements: 27 Credits

- MGMT 3320 Cross-Cultural Communications for International Business 3.0
- MGMT 3350 International Marketing 3.0
- MGMT 4100 International Finance Management* 3.0
- MGMT 4970 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 3305 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:  15.0
  • 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 6 credits)

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

- HM, Hospitality Management
- MGMT, Business Management
Mathematics

Assistant Dean: Gary Measom
Office: BA 205d
Telephone: 801-863-8192

Assistant Dean: Louise Illies
Office: PS 201d
Telephone: 801-863-6040

Assistant Dean: David Jordan
Office: PS 201c
Telephone: 801-863-7160

The UVU mathematics programs are designed to provide a strong foundation in mathematics that will support students in many disciplines. The Department of Mathematics offers a wide range of courses to the student planning to complete an AS or BS degree in mathematics or the sciences.

The Department of Developmental Mathematics offers MAT 1010, Intermediate Algebra, as well as review and preparatory nontransferable mathematics courses for students who need to strengthen their mathematics skills. See the Developmental Mathematics section of this catalog for a complete listing of these courses.

CAREER OPPORTUNITIES

A career in mathematics, except for teaching at the secondary level, generally requires a graduate degree. However, graduates with a bachelor degree in mathematics and a strong background in a related discipline, such as computer science, statistics, 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.

BS in Mathematics 125 Credits

Mathematical Requirements:
1. Student must meet with the mathematics advisor and declare an intent to major in Mathematics.

General Education Requirements: 40 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 one of the following:
- HIST 2700 US History to 1877 (3.0)
- HIST 2710 US History since 1877 (3.0)
- HIST 2740 US Economic History (3.0)
- POLS 1000 American Heritage (3.0)
- POLS 1100 American National Government (3.0)

Complete the following:
- PHIL 2050 Ethics and Values (3.0) or HTH 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: 46 Credits

Complete the following:
- MAT 1210 Calculus I (5.0)
- MAT 1220 Calculus II (5.0)

Complete 6 credits from the following:
- MAT 2210 Calculus III (3.0)
- MATH 2040 Principles of Statistics (4.0)
- MATH 2270 Linear Algebra (3.0)
- MATH 2280 Ordinary Differential Equations (3.0)
- MATH 3410 Partial Differential Equations (3.0)

Elective Requirements: 12 Credits

• FOR AS DEGREE: Any course 1000 or higher (12.0)
• FOR AA DEGREE: Same Foreign Language (10.0) and FOR AA DEGREE: Any course 1000 or higher (2.0)

Graduation Requirements:
1. Completion of a minimum of 63 semester credits.
2. Overall grade point average of 2.0 (C) or above.
3. Residency hours—minimum of 20 credit hours through course attendance at UVU
4. Completion of GE and specified departmental requirements
5. For the AA degree, completion of 10 credit hours of coursework from one language.

AA/AS Pre Major in Mathematics 63 Credits

General Education Requirements: 35 Credits

- ENGL 1010 Introduction to Writing (3.0)
- ENGL 1020 Intermediate Writing--Humanities/ Social Sciences (3.0)
- ENGL 2010 Intermediate Writing--Science and Technology (3.0)

Complete one of the following:
- MAT 1030 Quantitative Reasoning (recommended for Humanities or Arts majors) (3.0)
- MAT 1040 Introduction to Statistics (recommended for Social Science majors) (3.0)
- MAT 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 2740 US Economic History (3.0)
- POLS 1000 American Heritage (3.0)
- POLS 1100 American National Government (3.0)

Complete the following:
- PHIL 2050 Ethics and Values (3.0) or HTH 1100 Personal Health and Wellness (2.0) or PES 1097 Fitness for Life (2.0)

Distribution Courses
- Biology (3.0)
- PHYS 2211 Physics for Scientists and Engineers I (4.0)
- PHYS 2215 Physics for Scientists and Engineers I Lab (1.0)
- PHYS 2221 Physics for Scientists and Engineers II (4.0)
- PHYS 2225 Physics for Scientists and Engineers II Lab (1.0)
- Humanities Distribution (3.0)
- Fine Arts Distribution (3.0)
- Social/Behavioral Science (3.0)

Discipline Core Requirements: 46 Credits

Complete the following:
- MAT 1210 Calculus I (5.0)
- MAT 1220 Calculus II (5.0)

Complete 6 credits from the following:
- MAT 2210 Calculus III (3.0)
- MATH 2040 Principles of Statistics (4.0)
- MATH 2270 Linear Algebra (3.0)
- MATH 2280 Ordinary Differential Equations (3.0)
- MATH 3200 Foundations of Analysis (3.0)
- MATH 3300 Foundations of Abstract Algebra (3.0)
- MATH 4210 Advanced Calculus I (3.0)
Complete one of the following: 3.0
• 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)

Complete 15 credits from the following: * 15.0
• MATH 3210 Complex Variables (3.0)
• MATH 3400 Partial Differential Equations (3.0)
• MATH 4000 Introduction to Probability (3.0)
• MATH 4220 Advanced Calculus II (3.0)
• MATH 4310 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
  II (3.0)
• MATH 4620 Introduction to Numerical Analysis
  II (3.0)
• MATH 490R Topics in Mathematics (2.0)

Elective Requirements: 9 Credits
Complete 15 credits of upper division electives 15.0
Complete 24 credits of upper or lower division electives 24.0

Graduation Requirements:
1. Completion of a minimum of 125 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 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 UUV, 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.

Footnotes:
** Requires completion of a prerequisite course, which fulfills elective requirements.
* Students planning to do graduate work in mathematics should take both of the year-long sequences MATH 4210, 4220, and MATH 4310, 4320, and acquire a reading knowledge of at least one foreign language chosen from French, German, or Russian.

BS in Mathematics Education 120 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. Completion of Matriculation application
4. Minimum Cumulative GPA of 2.75

General Education Requirements: 34 Credits
• ENGL 1010 Introduction to Writing 3.0
• ENGL 2010 Intermediate Writing—Humanities/ Social Sciences or ENGL 2020 Intermediate Writing—Science and Technology (3.0)

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 3700 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
• HTHL 1100 Personal Health and Wellness 2.0
or PES 1097 Fitness for Life (2.0)
Distribution Courses
• Biology 3.0
• PHYS 2210 Physics for Scientists and Engineers I 4.0
• PHYS 2215 Physics for Scientists and Engineers I Lab 1.0
• 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: 86 Credits
• MATH 1210 Calculus I 5.0
• MATH 1220 Calculus II 5.0
• MATH 2210 Calculus III 3.0
• MATH 2040 Principles of Statistics 4.0
• MATH 2270 Linear Algebra 3.0
• MATH 2280 Ordinary Differential Equations 3.0
• MATH 3000 History of Mathematics 3.0
• MATH 3010 Methods of Secondary School Mathematics Teaching
• MATH 3020 Computer-Based Mathematics for Secondary School Mathematics Teachers
• MATH 3100 Foundations of Geometry 3.0
• MATH 3200 Foundations of Analysis 3.0
• MATH 3300 Foundations of Abstract Algebra 3.0
• MATH 4000 Introduction to Probability 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 3290 Instructional Media 2.0
• EDSC 4200 Classroom Management I 1.0
• EDSC 4250 Classroom Management II 1.0
• EDSC 4440 Content Area Reading and Writing 3.0
• EDSC 4450 Multicultural Instruction/ESL 2.0
• EDSC 4550 Secondary Curriculum Instruction and Assessment 2.0
• EDSC 4550 Student Teaching—Secondary 8.0
• EDS 3400 Exceptional Students 2.0
• Complete an approved minor 18.0

Graduation Requirements:
1. Completion of a minimum of 124 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 a “C” in MATH 1210 or above, and no grade lower than a “C” in PHYS 2210 and PHYS 2215. Also, a grade of “B-” or higher is required in MATH 3010.
3. Residency hours—minimum of 30 credit hours through course attendance at UUV, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements
5. Completion of a minor in a discipline other than mathematics.
6. 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 UUV.

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 Analysis I and II), are recommended for students pursuing majors in the physical sciences, engineering, or computer science. Another recommended pair for computer science majors is MATH 3300 (Foundations of Abstract Algebra) and MATH 4340 (Introduction to Number Theory).
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
Academic Tutoring: LA 201
Manager: Kathy Van Wagoner
Office: LA 201d
Telephone: 801-863-8411

Learning Assistance
Learning Strategist: John Sperry
Office: LA 221p
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: Bryce Ryting
Department Office: GT 336
Department Telephone: 801-863-6480

Faculty:
Professor Wayne E. Erickson
G. Larry Johnson
Associate Professor Bryce Ryting
Assistant Professor Donna Fairbanks
David Fullmer
Dyanne Riley

School of the Arts
Interim Dean: Kathie Debenham
Office: GT 605a
Telephone: 801-863-6820

Graduates of the Department of Music pursue careers as diverse as conducting, performing, composing, film music, arts administration, sound recording and teaching. Music graduates are also attractive to schools of medicine and law. All UVU students are invited to audition for our choirs, orchestras, bands (including jazz band), percussion ensemble, and chamber groups. Students may take private lessons on most instruments. Our courses satisfy general education requirements, transfer to other four-year institutions, and can be used in the Integrated Studies degree. Our academic classes in music theory and music history aim to help students understand how the disciplines of the mind can enrich our experience of the “language of the heart.”

AS Pre Major in Music
62 Credits

General Education Requirements: 35 Credits

- ENGL 1010 Introduction to Writing 3.0
- ENGL 1020 Intermediate Writing–Humanities/ Social Sciences 3.0
- or ENGL 2020 Intermediate Writing–Science and Technology (3.0)
- Complete one of the following: 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 1700 American Civilization (3.0)
  - HIST 1700 American Civilization (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)

BA 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: 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)
- Choose one of the following: 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 (3.0)
- Complete the following: 3.0
  - PHIL 2050 Ethics and Values (3.0)
  - HLTH 1100 Personal Health and Wellness (2.0)
  - or PES 1097 Fitness for Life 2.0

Distribution Courses

- Biology 3.0
- Physical Science 3.0
- Additional Biology or Physical Science 3.0

Discipline Core Requirements: 27 Credits

Complete the following:

- MUSC 1110 Basic Music Theory I 3.0
- MUSC 1120 Basic Music Theory II 3.0
- MUSC 1130 Aural Music Skills II 2.0
- MUSC 1140 Aural Music Skills II 3.0
- MUSC 2350 Fundamentals of Conducting 2.0
- MUSC 2110 Advanced Music Theory I 3.0
- MUSC 2120 Advanced Music Theory II 3.0

Complete 4 credits from the following: 4.0

- MUSC 129R Master Works Chorale (1.0)
- MUSC 124R UUV Concert Choir (1.0)
- MUSC 130R Symphonic Band (1.0)
- MUSC 170R Symphony Orchestra (1.0)
- MUSC 320R Advanced Master Works Chorale (1.0)
- MUSC 322R Chamber Choir (1.0)
- MUSC 330R Advanced Symphony Band (1.0)
- MUSC 372R Chamber Orchestra (1.0)

Individual Musicianship Studies

Complete 25 credits for Music Majors

- MUSC 250R Private Lessons for Music Majors (Must be repeated 4 times) (1.0)
- MUSC 450R Private Lessons for Music Majors (Must be repeated 4 times) (1.0)

Complete the following: 8.0

- MUSC 320R Advanced Master Works Chorale (1.0)
- MUSC 322R Chamber Choir (1.0)
- MUSC 330R Advanced Symphony Band (1.0)
- MUSC 332R Jazz Ensemble (1.0)
- MUSC 370R Advanced Symphony Orchestra (1.0)
- MUSC 372R Chamber Orchestra (1.0)

Elective Requirements: 29 Credits

- One Foreign Language 15.0
- Complete any courses 1000 level or higher (at least 8 credits must be upper-division, see graduation requirements) 14.0

Graduation Requirements:

1. Completion of a minimum of 120 semester credits, 40 credits must be upper-division.
2. Overall grade point average of 2.0 (C) or above.
3. Residency hours--minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

Footnotes:

* May be repeated four (4) times toward graduation.

Music

Graduation Requirements (fulfilled by completing Foreign Language course 2020)

- Humanities Distribution 3.0
- Fine Arts Distribution 3.0
- Social/Behavioral Science 3.0

Discipline Core Requirements: 56 Credits

Musicianship Courses

- MUSC 1110 Basic Music Theory I 3.0
- MUSC 1120 Basic Music Theory II 3.0
- MUSC 1130 Aural Music Skills I 2.0
- MUSC 1140 Aural Music Skills II 2.0
- MUSC 2110 Advanced Music Theory I 3.0
- MUSC 2120 Advanced Music Theory II 3.0
- MUSC 3010 Music History and Literature I 3.0
- MUSC 3020 Music History and Literature II 3.0
- MUSC 3120 Form and Analysis 3.0

Complete 11 credits of upper-division MUSC courses not already required for the degree.

Individual Musicianship Studies

- MUSC 250R Private Lessons for Music Majors 4.0
- MUSC 450R Private Lessons for Music Majors 4.0

Complete the following:

- MUSC 1150 Group Piano I (with a grade of “B” or higher) (2.0)
- MUSC 1160 Group Piano II (with a grade of “B” or higher) (2.0)

or Departmental Board Proficiency exam (an additional 4 credits of electives may be required)

Ensembles

Complete 8 credits from the following:

- MUSC 320R Advanced Master Works Chorale (1.0)
- MUSC 322R Chamber Choir (1.0)
- MUSC 330R Advanced Symphony Band (1.0)
- MUSC 332R Jazz Ensemble (1.0)
- MUSC 370R Advanced Symphony Orchestra (1.0)
- MUSC 372R Chamber Orchestra (1.0)

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: 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)
- Choose one of the following: 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 (3.0)
- Complete the following: 3.0
  - PHIL 2050 Ethics and Values (3.0)
  - HLTH 1100 Personal Health and Wellness (2.0)
  - or PES 1097 Fitness for Life 2.0

Distribution Courses

- Biology 3.0
- Physical Science 3.0
- Additional Biology or Physical Science 3.0

Footnotes:

* May be repeated four (4) times toward graduation.

Graduation Requirements:

1. Completion of a minimum of 120 semester credits, 40 credits must be upper-division.
2. Overall grade point average of 2.0 (C) or above.
3. Residency hours--minimum of 30 credit hours through course attendance at UVU, with at least 10 hours in the last 45 hours.
4. Completion of GE and specified departmental requirements including a sophomore jury.
5. For the BA degree, 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 listing, see page 25.
Music

Complete the following:
• PHI 2030 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: 56 Credits
MusicianShip Courses
• MUSC 1120 Basic Music Theory II (3.0)
• MUSC 1110 Basic Music Theory I (3.0)
• MUSC 1130 Aural Music Skills II (2.0)
• MUSC 1140 Aural Music Skills I (2.0)
• MUSC 2110 Advanced Music Theory I (3.0)
• MUSC 2120 Advanced Music Theory II (3.0)
• MUSC 3010 Music History and Literature I (3.0)
• MUSC 3020 Music History and Literature II (3.0)
• MUSC 3120 Form and Analysis (3.0)
• Complete 11 credits of upper-division MUSC courses not already required for the degree.

Individual MusicianShip Studies
• MUSC 259R Private Lessons for Music Majors (4.0)
• MUSC 459R Private Lessons for Music Majors (4.0)
Complete the following:
• MUSC 1150 Group Piano I (with a grade of "B" or higher)
• MUSC 1160 Group Piano II (with a grade of "B" or higher)
• Complete 8 credits from the following:
  • MUSC 320R Advanced Master Works Chorale (1.0)
  • MUSC 322R Chamber Choir (1.0)
  • MUSC 330R Advanced Symphony Band (1.0)
  • MUSC 332R Jazz Ensemble (1.0)
  • MUSC 370R Advanced Symphony Orchestra (1.0)
• Complete 8 credits from the following:
  • MUSC 332R Chamber Choir (1.0)
  • MUSC 317R Advanced Symphony Orchestra (1.0)
• Complete 8 credits from the following:
  • MUSC 320R Advanced Master Works Chorale (1.0)
  • MUSC 332R Chamber Choir (1.0)
  • MUSC 333R Advanced Symphony Band (1.0)
  • MUSC 331R Percussion Ensemble (1.0)
  • MUSC 332R Jazz Ensemble (1.0)
  • MUSC 370R Advanced Symphony Orchestra (1.0)
• Complete 10 credits from the following:
  • MUSC 372R Chamber Orchestra (1.0)

Graduation Requirements: 123 Credits
1. Completion of a minimum of 120 semester credits, 40 credits must be upper-division.
2. Overall grade point average of 2.0 (C) or above.
3. Residency hours- minimum of 30 credit hours through course attendance at UVU, with at least 10 hours in the last 45 hours.
4. Completion of GE and specified departmental requirements, including a sophomore jury.
5. Students completing a bachelor degree following the 2008 or later catalog must complete one course that meets the Global/Intercultural Requirement, indicated by a course number ending in G. For a complete listing, see page 25.

BS in Music Education 126 Credits

General Education Requirements: 35 Credits
• ENGL 2010 Intermediate Writing—Humanities/ Social Sciences (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)
• MATH 2050 College Algebra (recommended for Humanities or Arts majors) (3.0)

Choose one of the following:

Complete the following:
• MUSC 1170 American Civilization (3.0)
• MUSC 1140 American National Government (3.0)
• MUSC 2150 Advanced Choral Conducting (2.0)
• MUSC 2200 Choral Literature and Methods (2.0)
• MUSC 2400 Marching Band Techniques (1.0)
• MUSC 2500 Advanced Instrumental Conducting (2.0)

Minor in Music 18 Credits

GEC (General Education Core) 40 credits (minimum)

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 Basic Music Theory I (3.0)
• MUSC 1120 Basic Music Theory II (3.0)
• MUSC 1130 Aural Music Skills I (2.0)
• MUSC 1140 Aural Music Skills II (2.0)

Complete the following:
• MUSC 250R Private Lessons for Music Majors (4.0)
Not be repeated 4 times.

Complete 4 credits from the following (enrollment in upper-division performing groups require instructor approval):
• MUSC 120R Master Works Chorale (1.0)
• MUSC 124R UVU Concert Choir (1.0)
• MUSC 130R Symphonic Band (1.0)
• MUSC 170R Symphony Orchestra (1.0)
• MUSC 320R Advanced Master Works Chorale (1.0)
• MUSC 322R Chamber Choir (1.0)
• MUSC 333R Advanced Symphony Band (1.0)
• MUSC 331R Percussion Ensemble (1.0)
• MUSC 332R Jazz Ensemble (1.0)
• MUSC 337R Advanced Symphony Orchestra (1.0)
• MUSC 372R Chamber Orchestra (1.0)

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Complete the following:

- MUSC 2110  Advanced Music Theory I  3.0
- Complete 7 additional credit hours of music courses  7.0
  (four of these credits must be upper division)

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

- MUSC, Music
The Associate Degree and Bachelor Degree programs are accredited by the National League for Nursing Accreditation Commission, 61 Broadway, New York, NY 10006, 212-363-5555 Ext. 153.

JOB OUTLOOK
Job demand is high; the current shortage of nurses is predicted to increase over the next 15-20 years.

NURSING PROGRAMS
Students in Nursing may receive an Associate in Science and Bachelor of Science Degree in Nursing. The Associate in Science Degree program prepares the graduate to function individually as a member of the health care team in structured health care settings in which clients have common health problems. The graduate is eligible to write the National Council Licensure Examination to qualify as a Registered Nurse. The Bachelor Degree program prepares graduates to design, coordinate and manage health care, to assume leadership roles, to enter graduate education in nursing, and to develop leadership and management skills.

ADMISSION REQUIREMENTS
Admission to each program is by competitive application. Acceptance to any UVU nursing program 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 admission to either level, applicants must apply for admission to UVU and to the Nursing Program. Transcripts for High School (or GED test scores) and all Colleges/Universities attended must be submitted to Admissions. See the Nursing Department for application materials and deadlines. For students who are English language learners, TOEFL scores must be submitted at or above the Department of Nursing minimum.

OTHER REQUIREMENTS
A minimum grade of “C” is required for ZOOL 2320, ZOOL 2420, MICR 2060, CHEM 1110, MATH 1050, PSY 1100, ENGL 1010, ENGL 2020, NURS 1020 and all nursing courses. Most nursing courses must be taken in sequence. 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 course exams and an overall course average of 74% or above. Admission to UVU’s Nursing program does not guarantee eligibility to write the NCLEX-RN exam.

PROGRAMS

AS in Nursing 70 CREDITS
Matriculation Requirements:
1. Acceptance of Nursing Application (see advisor)
2. High School transcripts (or GED test scores) and College/University transcripts to Admissions as well as the Nursing Department.
3. Completion of BIOL 1010, CHEM 1110, ENGL 1010, MATH 1050, NURS 1400, NUTR 1020, MICR 2060, PSY 1100, and ZOOL 2320 with a grade of “C” or better
4. Acceptance into Nursing program (see Advisor)

General Education Requirements: 27 Credits
- BIOL 1010 General Biology 3.0
- CHEM 1110 Elementary Chemistry for the Health Sciences 4.0
- ENGL 1010 Introduction to Writing 3.0
- MATH 1050 College Algebra 4.0
- NUTR 1020 Foundations of Human Nutrition 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: 43 Credits
- NURS 1400 Introduction to Nursing 2.0
- NURS 2300 Nursing Health Assessment 3.0
- NURS 2310 Nursing Pharmacology 3.0
- NURS 2320 Nursing Interventions 3.0
- NURS 2400 Clinical Reasoning in Nursing 2.0
- 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 2.0
- NURS 3320 Nursing Care of Child-Rearing Families 2.0
- NURS 3330 Nursing Care of Persons with Complex Disorders 4.0
- NURS 3400 Nursing Care Coordination and Management 3.0
- MICR 2060 Microbiology for Health Professions 4.0
- ZOOL 2420 Human Physiology 4.0

Graduation Requirements:
1. Completion of a minimum of 70 semester credits.
2. Overall grade point average of 2.0 (“C”) or above. (Departments may require a higher GPA.)
3. Residency hours-- minimum of 20 credit hours through course attendance at UVU.
4. Completion of specified departmental requirements.

BS in Nursing 120 CREDITS
Matriculation Requirements:
1. Acceptance of Nursing Application (see advisor)
2. High School transcripts (or GED Test Scores) and College/University transcripts to Admissions as well as the Nursing Department.
3. Completion of CHEM 1110, ENGL 1010, ENGL 2020, MATH 1050, NURS 1400, NUTR 1020, MICR 2060, PSY 1100 and ZOOL 2320 with a grade of “C” or better.
4. 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: 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)
• POLS 1000 American Heritage (3.0)
• POLS 1100 American National Government (3.0)
Complete the following:
• PHIL 2050 Ethics and Values 3.0
Distribution Courses
• BIOL 1010 General Biology 3.0
• CHEM 1110 Elementary Chemistry for the Health Sciences 4.0
• PSY 1100 Human Development Life Span 3.0
• ZOOL 2320 Human Anatomy 4.0
• Humanities Distribution 3.0
• Fine Arts Distribution 3.0
Discipline Core Requirements: 84 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 3.0
• NURS 2400 Clinical Reasoning in Nursing 2.0
• 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 2.0
• NURS 3320 Nursing Care of Child-Rearing Families 2.0
• NURS 3330 Nursing Care of Persons with Complex Disorders 4.0
• NURS 3400 Nursing Care Coordination and Management 3.0
• NURS 3410 Professional Standards of Nursing 1.0
• 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 4410 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
• MICR 2060 Microbiology for Health Professions 4.0
• NUTR 1020 Foundations of Human Nutrition 4.0
• ZOOL 2420 Human Physiology 4.0
• ZOOL 4400 Pathophysiology 4.0
And a minimum of 4 credits from any upper-division nursing courses not otherwise required for BSN degree.
RNs returning to complete BS in Nursing take ZOOL 4400, NURS 2300, and NURS 2310, then proceed to NURS 4400 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 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.
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
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**

<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 2020 Intermediate Writing—Science and Technology 3.0</td>
</tr>
<tr>
<td>or ENGL 2150 Early Modern Philosophy 3.0</td>
</tr>
<tr>
<td>Complete one of the following:</td>
</tr>
<tr>
<td>MATH 1040 Quantitative Reasoning (recommended for Humanities or Arts majors) 3.0</td>
</tr>
<tr>
<td>MATH 1050 College Algebra (recommended for Business, Education, Science, and Health Professions majors) 3.0</td>
</tr>
</tbody>
</table>

**Discipline Core Requirements: 16 Credits**

Complete the following: |
| PHIL 2050 Ethics and Values 3.0 |
| or PES 1097 Fitness for Life 2.0 |
| or HLTH 1100 Personal Health and Wellness 2.0 |

**Graduation Requirements**

1. Completion of a minimum of 61 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours—minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

**BS in Philosophy**

<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 2150 Early Modern Philosophy 3.0</td>
</tr>
<tr>
<td>Complete one of the following:</td>
</tr>
<tr>
<td>MATH 1040 Quantitative Reasoning (recommended for Humanities or Arts majors) 3.0</td>
</tr>
<tr>
<td>MATH 1050 College Algebra (recommended for Business, Education, Science, and Health Professions majors) 3.0</td>
</tr>
</tbody>
</table>

**Graduation Requirements**

1. Completion of a minimum of 61 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours—minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

**Elective 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 10 credit hours of course work from one language.

**AS Pre Major in Philosophy**

<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 2020 Intermediate Writing—Science and Technology 3.0</td>
</tr>
<tr>
<td>or ENGL 2150 Early Modern Philosophy 3.0</td>
</tr>
<tr>
<td>Complete one of the following:</td>
</tr>
<tr>
<td>MATH 1040 Quantitative Reasoning (recommended for Humanities or Arts majors) 3.0</td>
</tr>
<tr>
<td>MATH 1050 College Algebra (recommended for Business, Education, Science, and Health Professions majors) 3.0</td>
</tr>
</tbody>
</table>

**Graduation Requirements**

1. Completion of a minimum of 61 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours—minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.
5. For the AA degree, completion of 10 credit hours of course work from one language.

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 ideas 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.
Discipline Core Requirements: 37 Credits
Complete the following:
- PHIL 120R Philosophy Forum 1.0
- PHIL 210L Ancient 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 4140 History of Analytic Philosophy (3.0)
- PHIL 4150 History of Continental Philosophy (3.0)
- PHIL 4370 Pragmatism and American Philosophy (3.0)
- PHIL 3750 Marxist Philosophy (3.0)
- PHIL 3810 Existentialism and Phenomenology (3.0)
- PHIL 386R Topics in Ancient Philosophy (3.0)
- PHIL 4130 Nineteenth Century European Philosophy (3.0)
- PHIL 4150 History of Continental Philosophy (3.0)
Complete 12 additional credits of Philosophy course work, at least 9 of which must be upper-division (excluding those courses taken to fulfill categories listed above). 12.0
Elective Requirements: 48 Credits
- One Foreign Language 18.0
- Any course 1000 or higher; 16 credits must be completed, from the following 30.0
Graduation Requirements:
1. Completion of a minimum of 120 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours—minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. 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.
Note: It is recommended that students planning on earning a Baccalaureate Degree in Philosophy take a foreign language, preferably French or German, in their Freshman and Sophomore academic years. PHIL 120R, PHIL 295R, PHIL 401R, PHIL 429R, PHIL 450R, and PHIL 451R can be repeated for credit.

BS in Philosophy 120 Credits
General Education Requirements: 35 Credits
- ENGL 1010 Introduction to Writing 3.0
- ENGL 2010 Intermediate Writing—Humanities/ Social Sciences 3.0
or ENGL 2020 Intermediate Writing—Science and Technology (3.0)

Complete one of the following: 3.0
- MATH 1030 Quantitative Reasoning (recommended for Humans or Arts majors) (3.0)
- MATH 1040 Introduction to Statistics (required 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 since 1877 (3.0)
- AND HIST 2710 US History since 1977 (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 PE 1097 Fitness for Life (2.0)

Distribution Courses
- Geography 3.0
- Physics 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: 37 Credits
Complete the following:
- PHIL 120R Philosophy Forum 1.0
- PHIL 2110 Ancient 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 4140 History of Analytic Philosophy (3.0)
- PHIL 4150 History of Continental Philosophy (3.0)
- PHIL 4370 Pragmatism and American Philosophy (3.0)
- PHIL 3750 Marxist Philosophy (3.0)
- PHIL 3810 Existentialism and Phenomenology (3.0)
- PHIL 386R Topics in Ancient Philosophy (3.0)
- PHIL 4130 Nineteenth Century European Philosophy (3.0)
- PHIL 4150 History of Continental Philosophy (3.0)

Graduation Requirements:
1. Completion of a minimum of 120 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours—minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. Completion of 40 hours 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.

Note: It is recommended that students planning on earning a Baccalaureate Degree in Philosophy take a foreign language, preferably French or German, in their Freshman and Sophomore academic years. PHIL 120R, PHIL 295R, PHIL 401R, PHIL 429R, PHIL 450R, and PHIL 451R can be repeated for credit.

Minor in Philosophy 18 Credits
Matriculation Requirements:
1. Enrollment at Utah Valley State College
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: 3.0
- PHIL 2110 Ancient Philosophy (3.0)
- PHIL 2150 Early Modern Philosophy (3.0)
Complete 15 additional credit hours of philosophy courses (9 credit hours must be 3000 level or above; no more than 6 credit hours may be at the 1000 level; Philosophy 2050 does not count for this requirement.)

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 120R 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 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

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 366R Issues in Religious Studies 3.0
Complete 9 credits from the following: 9.0
- ANTH 3450 Myth and Magic (3.0)
- ANTH 3450 Shamanism and Indigenous Religion (3.0)
- ANTH 3460 Anthropology of Mormonism (3.0)
- COMM 3780 Mormon Cultural Studies (3.0)
- ENGL 374G Literature of the Sacred (3.0)
- ENGL 3780 Mormon Literature (3.0)
- HIST 4100 Jewish History (3.0)
- RLST 3540 Christian Ethics (3.0)
Philosophy

- 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
Physical Education and Recreation

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M. Vinson Miner
Thomas M. Perkins
Associate Professor
Kemal Makasci
Jason Slack
Assistant Professor
Michael Bohne
Bret Boyer
Betsy Lindley
Instructor
Andrew Nelson
Scott Williams
Lecturer
Clay Anderson
Risk Manager
Garth Tino
Administrative Assistant:
Shauna Roberts

College of Science and Health
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Telephone: 801-863-8980

Associate Dean: Dan Fairbanks
Office: PS 201e
Telephone: 801-863-6440

Assistant Dean: Gary Meason
Office: BA 205d
Telephone: 801-863-8192

Assistant Dean: Louise Illes
Office: PS 201d
Telephone: 801-863-6040

Assistant Dean: David Jordan
Office: PS 201c
Telephone: 801-863-7160

MISSION STATEMENT
The Mission of the Department of Physical Education and 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. These degrees are supported by associate degrees (AA/AS) offered in Physical Education or 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:

- Coaching
- Exercise Science
- Experiential Education
- Health and Fitness Promotion
- Kinesiology
- Outdoor Leadership
- Physical Education Pedagogy
- Recreation
- Resource Management

In addition to preparing students for professional opportunities or graduate study in related fields, the program is intended to prepare all students for a variety of professional certifications offered in their respective fields of study. The faculty in the department work collaboratively and strive to support the Mission through our commitment to outstanding teaching, mentorship, service, and professional and scholarly development.

PROGRAMS
The Department of Physical Education and Recreation offers two new 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 a variety of jobs including personal training, 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 Physical Education and 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 avalanche awareness, off-road cycling, scuba diving 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 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 61-62 CREDITS

General Education Requirements: 35 Credits
- ENGL 1010 Intermediate Writing—Humanities 3.0
- ENGL 2010 Intermediate Writing—Science and Technology (3.0)
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) (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:
- PHIL 2050 Ethics and Values 3.0
- PHIL 1110 Personal Health and Wellness 2.0
or PES 1097 Fitness for Life (2.0)
Distribution Courses:
- Biology (ZOOL 1090 strongly recommended) 3.0
- Physical Science 3.0
- Additional Biology or Physical Science (ZOOL 2420 strongly recommended) 3.0
- Humanities Distribution 3.0
- Fine Arts Distribution 3.0
- Social/Behavioral Science 3.0

Emphasis Requirements: 26-27 credits
Complete one of the following emphases (see detail below):
- Physical Education 26.0
- Recreation 27.0
Graduation Requirements:
1. Completion of a minimum of 61 semester credits.
2. Overall grade point average of 2.0 (C) or above.
3. Residency 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 10 credit hours of course work from one language.

Emphasis in Physical Education 26 Credits

Emphasis Requirements: 16 Credits
- PES 2700 Foundations of Physical Education 3.0
- Complete 13 credits from the following: 13.0
- CHEM 1110 Elementary Chemistry for the Health Sciences (4.0)
- ZOOL 2320 Human Anatomy (4.0)
- ZOOL 2420 Human Physiology (4.0)
- MATH 2040 Principles of Statistics (4.0)
- PES 2500 Sports Medicine (3.0)
and PES 2510 Sports Medicine Lab (1.0) or PES 2400 Sports Injuries (1.0)
- PETE 2101 Skill Analysis I (3.0)
- PETE 2200 Skill Analysis II (3.0)
- Any PES or PETE courses approved by department (maximum of 2 hours)

Emphasis Elective Requirements: 10 Credits
FOR AS DEGREE: Complete any 1000-level or higher
FOR AA DEGREE: Same Foreign Language
Footnote: Recommended for PE Teacher Education Majors

Emphasis in Recreation 27 Credits

Emphasis Requirements: 17 Credits
- REC 3100 Recreation Program Planning 3.0
- REC 3400 Risk Management 3.0
- REC 2200 Foundations of Recreation 3.0
Complete 8 credits from the following:
- REC 1350 Scuba Diving I (1.0)
- REC 1351 Scuba Diving II (1.0)
- REC 1500 Canoeing I (2.0)
- REC 1505 Whitewater Kayaking I (2.0)
- REC 1525 Mountaineering (2.0)
- REC 1527 Rock Climbing I (2.0)
- REC 1550 Mountain Biking (2.0)
- REC 2500 Introduction to Adventure Recreation (2.0)
Any other REC course 1110 to 3300, a maximum of 4 credits may be applied to graduation

Emphasis Elective Requirements: 10 Credits
FOR AS DEGREE: Complete any 1000-level or higher
FOR AA DEGREE: Same Foreign Language

BA in Physical Education and Recreation 120 Credits

General Education Requirements: 46 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
- HIST 1050 College Algebra 4.0
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)
Distribution Courses:
- BIOL 1010 General Biology 3.0
- ZOOL 1090 Introduction to Human Anatomy and Physiology 3.0
- Humanities Distribution (any foreign language 3.0 or 2020 course)
- Fine Arts Distribution 3.0
- Social/Behavioral Science 3.0

Emphasis 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 Exercise 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:
- Exercise Science 52.0
- Outdoor Recreation Management 52.0

Elective Requirements: 15 Credits
Complete 15 credit hours of course work from 15.0 one language to include the 1010, 1020, and 2010 levels (2020 level completed in GE requirements).
Graduation Requirements:
1. Completion of a minimum of 120 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours: minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 15 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. No grades below C- in Discipline Core or Emphasis 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. For a complete list, see page 25.

Note: Students must obtain the department advisor's signature on an approved program plan prior to enrollment in their second semester of study.

Emphasis in Exercise Science 52 Credits

Emphasis Requirements: 42 Credits
- CHEM 1110 Elementary Chemistry for the Health Sciences (4.0)
- or CHEM 1210 Principles of Chemistry I (4.0)
- ZOOL 2320 Human Anatomy 4.0
- ZOOL 2420 Human Physiology 4.0
- PES 2500 Sports Medicine 3.0
- PES 2510 Sports Medicine Lab 1.0
- PES 3270 Methods of Teaching Fitness 3.0
- PES 3700 Exercise Physiology 4.0
- PES 3730 Biomechanics 3.0
- PES 4000 Exercise Testing and Prescription 3.0
- PES 4100 Fitness Across the Lifespan 3.0
- PES 4500 Physical Activity Promotion in the Community 3.0
- PES 4410 Promoting Physical Activity in the Community Field Experience 1.0
- PES 4950 Senior Seminar 2.0
- MATH 2040 Principles of Statistics 4.0
- or SOC 3010 Statistics for the Behavioral Sciences 3.0

Emphasis Elective Requirements: 10 Credits
- Any course 1000-level or higher 10.0

Emphasis in Outdoor Recreation Management 52 Credits

Emphasis Requirements: 45 Credits
- REC 1535 Backpacking 2.0
- REC 1542 Wilderness First Responder 2.0
- REC 2400 Principles of Experiential Education in Recreation 3.0
- REC 2600 Principles of Outdoor and Adventure Education 3.0
- REC 3100 Recreation Program Planning 3.0
- REC 3300 Wilderness Skills 2.0
- REC 3400 Risk Management 3.0
- REC 3500 Recreation Administration 3.0
- REC 420R Outdoor Leadership and Management Practicum 2.0
- REC 4400 Park and Protected Area Management 3.0
- REC 481R Senior Internship 1.0
- REC 4950 Senior Seminar 3.0
- MGMT 3650 Principles of Marketing 3.0
Complete four credits from the following land-based skills courses:
- REC 1525 Mountaineering (2.0)
- REC 1527 Rock Climbing I (2.0)
or REC 1521 Indoor Rock Climbing II (2.0)
or REC 1522 Indoor Rock Climbing II (2.0)
or REC 1550 Mountain Biking (2.0)
or REC 2005 Ropes Course Facilitation (2.0)
or REC 2010 Avalanche Awareness (2.0)
or REC 2700 Leave No Trace Trainer (1.0)
Complete two credits from the following water-based skills courses:
- REC 1500 Canoeing I (2.0)
or REC 1501 Canoeing II (2.0)
or REC 1505 Whitewater Kayaking I (2.0)
or REC 1506 Whitewater Kayaking II (2.0)
Complete two of the following classes:
- REC 2450 Rock Climbing Site Management and Facilitation (3.0)
or REC 2650 Principles of Challenge Education (3.0)
or REC 2750 Principles of Water-Based Adventure Education (3.0)
- REC 3700 Resource Interpretation (3.0)
- REC 4000 Outdoor Leadership (4.0)
- REC 4400 Park and Protected Area Management (3.0)
or REC 4500 Visitor Behavior (3.0)
or REC 490R Topics in Recreation (3.0)
Complete one of the following: 4.0
- REC 1525 Mountain Trekkering (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 2005 Rock Course Facilitation (2.0)
- REC 2010 Avalanche Awareness (2.0)
- REC 2700 Leave No Trace Trainer (1.0)

Complete two credits from the following water-based skills courses: 2.0
- REC 1500 Canoeing I (2.0)
- REC 1501 Canoeing II (2.0)
- REC 1505 Whitewater Kayaking I (2.0)
- REC 1506 Whitewater Kayaking II (2.0)

Complete two of the following classes: 6.0
- REC 2450 Rock Climbing Site Management and Facilitation (3.0)
- REC 2650 Principles of Challenge Course Facilitation (3.0)
- REC 3700 Resource Interpretation (3.0)
- REC 4000 Outdoor Leadership (4.0)
- REC 490R Topics in Recreation (3.0)
- REC 410R Experiential Learning (1.0)
- REC 4500 Visitor Behavior (3.0)

**Emphasis Elective Requirements:** 22 Credits
- Any courses 1000-level or higher

### BS in Physical Education Teacher Education
**122 Credits**

#### Matriculation Requirements:
1. Acceptance to the Secondary Education Program.
2. Complete the following with a grade of "C" or better: PES 1097, PETS 2100, PETS 2300, PETS 3100, and PES 2700.
3. Submit and pass matriculation exam with departmental evaluation and approval (see advisor).

#### General Education Requirements: 36 Credits
- ENGL 1010 Introduction to Writing 3.0
- ENGL 2020 Intermediate Writing—Science and Technology 3.0
- MATH 1050 College Algebra 4.0
- Complete one of the following: 3.0
  - HIST 2700 US History since 1877 (3.0)
  - HIST 2710 US History since 1877 (3.0)

**Minor in Physical Education**
**24 Credits**

#### Discipline Core Requirements: 24 Credits
- PETS 2100 Skill Analysis I 3.0
- PES 2400 Sports Injuries 2.0
- PES 2700 Foundations of Physical Education 3.0
- PES 3500 Kinesiology 3.0
- PES 3550 Motor Learning and Development 3.0
- PES 3700 Exercise Physiology 4.0
- PES 3750 Psychosocial Aspects of Human Performance 2.0
- DANC 3440 Dance in the Elementary School (or a dance course approved by PETE coordinator) 2.0
- PETS 2400 Methods of Teaching Elementary Physical Education 3.0
- PETS 4120 Elementary Physical Education Field Experience 1.0
- PETS 4260 Secondary Physical Education 1.0
- PETS 4400 Assessment in Physical Education 2.0
- PETS 4980 Student Teaching in Physical Education 2.0
- 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
- EDSP 3440 Exceptional Students 2.0
- EDSC 4250 Classroom Management I 1.0
- EDSC 4250 Classroom Management II 1.0
- EDSC 4440 Content Area Reading and Writing 3.0
- EDSC 4450 Multicultural Instruction/ESL 2.0
- EDSC 4550 Secondary Curriculum Instruction 4.0
- EDSC 4850 Teacher Effectiveness—Secondary (4.0) 8.0

**Elective Requirements:** 8 Credits
- Any 1000-level or higher

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**Physical Education And Recreation**

**Graduation Requirements:**
1. Completion of a minimum of 122 semester credits.
2. Overall grade point average of 2.5 or above, with no grades below C- in Core or Education 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.

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**Emphasis in Exercise Science**
**67 Credits**

**Emphasis Requirements:** 42 Credits
- CHEM 1110 Elementary Chemistry for the Health Sciences 4.0
- or CHEM 1210 Principles of Chemistry I (4.0)
- ZOOL 2320 Human Anatomy 4.0
- ZOOL 2420 Human Physiology 4.0
- PES 2500 Sports Medicine 3.0
- PES 2510 Sports Medicine Lab 1.0
- PES 3270 Methods of Teaching Fitness 3.0
- PES 3700 Exercise Physiology 4.0
- PES 3730 Biomechanics 3.0
- PES 4000 Exercise Testing and Prescription 3.0
- PES 4100 Fitness Across the Lifespan 3.0
- PES 4400 Manual Activity Promotion in the Community 3.0
- PES 4410 Promoting Physical Activity in the Community Field Experience 1.0
- PES 4950 Senior Seminar 2.0
- MATH 2040 Principles of Statistics 4.0
- or SOC 3010 Statistics for the Behavioral Sciences (4.0)

**Emphasis Elective Requirements:** 25 Credits
- Any courses 1000-level or higher

**Emphasis in Outdoor Recreation Management**
**67 Credits**

**Emphasis Requirements:** 43 Credits
- REC 1525 Mountain Trekkering (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 2005 Rock Course Facilitation (2.0)
- REC 2010 Avalanche Awareness (2.0)
- REC 2700 Leave No Trace Trainer (1.0)

Complete two credits from the following water-based skills courses: 2.0
- REC 1500 Canoeing I (2.0)
- REC 1501 Canoeing II (2.0)
- REC 1505 Whitewater Kayaking I (2.0)
- REC 1506 Whitewater Kayaking II (2.0)

Complete two of the following classes: 6.0
- REC 2450 Rock Climbing Site Management and Facilitation (3.0)
- REC 2650 Principles of Challenge Course Facilitation (3.0)
- REC 3700 Resource Interpretation (3.0)
- REC 4000 Outdoor Leadership (4.0)
- REC 490R Topics in Recreation (3.0)
- REC 410R Experiential Learning (1.0)
- REC 4500 Visitor Behavior (3.0)

**Emphasis Elective Requirements:** 22 Credits
- Any courses 1000-level or higher

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**BS in Physical Education**

**122 Credits**

**Emphasis Requirements:** 7 Credits
- Any courses 1000-level or higher

**Emphasis in General Education Requirements:** 36 Credits
- ENGL 1010 Introduction to Writing 3.0
- ENGL 2020 Intermediate Writing—Science and Technology 3.0
- MATH 1050 College Algebra 4.0
- Complete one of the following: 3.0
  - HIST 2700 US History since 1877 (3.0)
  - HIST 2710 US History since 1877 (3.0)

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**BS in Physical Education and Recreation**

**120 Credits**

**Emphasis Requirements:** 36 Credits
- ENGL 1010 Introduction to Writing 3.0
- ENGL 2020 Intermediate Writing—Science and Technology (3.0)
- MATH 1050 College Algebra 4.0
- Complete one of the following: 3.0
  - ZOOL 2320 Human Anatomy 4.0
  - ZOOL 2420 Human Physiology 4.0
  - PES 2500 Sports Medicine 3.0

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**BS in Physical Education**

**122 Credits**

**Emphasis Requirements:** 42 Credits
- CHEM 1110 Elementary Chemistry for the Health Sciences 4.0
- or CHEM 1210 Principles of Chemistry I (4.0)
- ZOOL 2320 Human Anatomy 4.0
- ZOOL 2420 Human Physiology 4.0
- PES 2500 Sports Medicine 3.0
- PES 2510 Sports Medicine Lab 1.0
- PES 3270 Methods of Teaching Fitness 3.0
- PES 3700 Exercise Physiology 4.0
- PES 3730 Biomechanics 3.0
- PES 4000 Exercise Testing and Prescription 3.0
- PES 4100 Fitness Across the Lifespan 3.0
- PES 4400 Manual Activity Promotion in the Community 3.0
- PES 4410 Promoting Physical Activity in the Community Field Experience 1.0
- PES 4950 Senior Seminar 2.0
- MATH 2040 Principles of Statistics 4.0
- or SOC 3010 Statistics for the Behavioral Sciences (4.0)

**Emphasis Elective Requirements:** 25 Credits
- Any courses 1000-level or higher
Physical Education And Recreation

- PETE 4250 Methods of Teaching Secondary Physical Education 3.0
- PETE 4260 Secondary Physical Education Field Experience 1.0

Choose one of the following: 2.0
- PES 3220 Teaching and Coaching Basketball (2.0)
- PES 3230 Teaching and Coaching Football (2.0)
- PES 3240 Teaching and Coaching Volleyball (2.0)
- PES 3250 Teaching and Coaching Aerobics and Cheerleading (2.0)
- PES 3260 Teaching and Coaching Baseball and Softball (2.0)

BA/BS in Integrated Studies 124 Credits

Emphasis in Outdoor Leadership 19 Credits

Emphasis Requirements: 19 Credits
Outdoor Leadership Emphasis
Complete the following:
- REC 2200 Foundations of Recreation 3.0
- REC 2400 Principles of Experiential Education in Recreation 3.0
- REC 3100 Recreation Program Planning 3.0
- REC 4000 Outdoor Leadership 4.0

Complete 6 credits from the following: 6.0
- REC 1350 Scuba Diving I (2.0)
- REC 1351 Scuba Diving II (2.0)
- REC 1500 Canoeing I (2.0)
- REC 1505 Whitewater Kayaking I (2.0)
- REC 1525 Mountaineering (2.0)
- REC 1527 Rock Climbing I (2.0)
- REC 1528 Rock Climbing II (2.0)
- REC 1550 Mountain Biking (2.0)
- REC 2005 Ropes Course Facilitation (2.0)
- REC 2010 Avalanche Awareness (2.0)
- REC 3300 Wilderness Skills (2.0)

BA/BS in Integrated Studies 123 Credits

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
Physics

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Astronomy Lab Manager:
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PHYSICS AT UVU
The whole universe is a fair topic for study in physics. No facet is too small or too big to be considered. Physics is the assembly and application of the rational rules by which nature operates. Every action is played out according to its rules. Physicists seek to learn these rules and often apply them in solving problems in technology and in the environment.

CAREER OPPORTUNITIES
Physicists are valued for their ability to rationally approach complex problems and to construct practical solutions. They find fulfilling and satisfying employment not only in the academic world of teaching and research, but in business, industry, consulting and government. Typically half of all B.S. Physics degree recipients enter the work force immediately in such occupations as those just listed. The rest continue on to graduate school, not only in physics, but in engineering, computer science, medicine and even law or business programs.

Physicists and those trained in physics have been extraordinarily successful in the development of the computer software industry and in the invention and marketing of many key measurement devices widely used in all parts of industry.

PROGRAM
Physics at UVU is a very personal endeavor. The small size of our department means that a physics major will benefit by working closely with faculty and fellow students. The faculty will often act as personal tutors and mentors, providing opportunities in research and problem solving that may be more difficult to obtain in a larger department. Access to all the requisite computing facilities and research equipment is available. Our program seeks to match our students' interests and meet the requirements of future employers.

Skills learned as a physics student:
• Rational problem solving and logic
• Computational skills
• Computer programming
• Numerical analysis
• Instrumentation, data collection and analysis
• Electronics
• Writing and presentation skills

The program leading to a Bachelor of Science in Physics is outlined below. There are three parts to the degree, consisting of the General Education Requirements (26 credits), the Discipline Core Requirements (71 credits), and the Elective Requirements (23 credits in elective physics and physics related courses). Students intending to pursue graduate studies in physics should plan on filling the Elective Requirements with courses denoted in the following list with a single asterisk. Such students are particularly advised to complete their studies with a senior project and senior thesis. For those intending to enter graduate school in other disciplines, or to enter the job market directly upon graduation, the Elective Requirements may be tailored to suit the student's particular needs or interests. For example, a student wishing to attend medical school may wish to focus elective credit in biology and chemistry, a student wishing to pursue an advanced engineering degree may wish to emphasize engineering courses, etc.

PROGRAMS

BS in Physics 120 Credits

General Education Requirements: 26 Credits
• ENGL 1010 Introduction to Writing 3.0
• ENGL 2020 Intermediate Writing–Science and Technology 3.0

Complete 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)
• PES 1097 Fitness for Life 2.0

Distribution Courses
• Biology 3.0
• Humanities Distribution 3.0
• Fine Arts Distribution 3.0
• Social/Behavioral Science 3.0

Discipline Core Requirements: 71 Credits
• PHYS 2210 Physics for Scientists and Engineers I 4.0
• PHYS 2215 Physics for Scientists and Engineers I Lab 1.0
• PHYS 2220 Physics for Scientists and Engineers II 4.0
• PHYS 2225 Physics for Scientists and Engineers II Lab 1.0
• PHYS 3210 Introduction to Experimental Physics I 2.0
• PHYS 3220 Introduction to Experimental Physics II 2.0
• PHYS 3230 Principles of Electronics for the Physical Sciences 3.0
• PHYS 3300 Mathematical Physics 3.0
• PHYS 3400 Classical Mechanics 3.0
• PHYS 3500 Thermodynamics 3.0
• PHYS 3740 Modern Physics 3.0
• PHYS 4210 Advanced Experimental Techniques 3.0
• PHYS 4300 Computational Physics 3.0
• PHYS 4410 Electrostatics and Magnetism 3.0
• PHYS 4600 Optics 3.0
• PHYS 490R Seminar (0.5 credits, taken 4 times) (0.5)
• CS 1400 Fundamentals of Programming 3.0
• MATH 1210 Calculus I 5.0
• MATH 1220 Calculus II 5.0
• MATH 2210 Calculus III 3.0
• MATH 2280 Ordinary Differential Equations 3.0

Complete 9 credits from the following:
• PHYS 3050 Astrophysics (3.0)
• PHYS 4420 Electrodynamics (“3.0)
• PHYS 4510 Quantum Mechanics I (3.0)
• PHYS 4520 Quantum Mechanics II (3.0)
• PHYS 4700 Acoustics (3.0)

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.
Physics

- PHYS 4800 Solid State Physics* (3.0)
- PHYS 499A Senior Project* (2.0)
- PHYS 499B Senior Thesis* (1.0)

Elective Requirements: 23 Credits

- Complete all 100 level or higher
- Complete 22 credits from the following courses not used above (SEE ADVISOR). The selection of elective course work must present a coherent theme such as engineering physics, geophysics, environmental physics, computational physics, etc.

- BIOL 1810 College Biology I (4.0)
- BIOL 1815 College Biology I Laboratory (1.0)
- BIOL 1820 College Biology II (4.0)
- BIOL 1825 College Biology II Laboratory (1.0)
- Any BIOL course 3400 or higher except internship and independent study type courses.
- CHEM 1210 Principles of Chemistry I** (4.0)
- CHEM 1215 Principles of Chemistry I Laboratory (1.0)
- CHEM 1220 Principles of Chemistry II** (4.0)
- CHEM 1225 Principles of Chemistry II Laboratory (1.0)
- Any CHEM course 2310 or higher except internship and independent study type courses.
- Any CS course 1410 or higher except internship and independent study type courses.
- Any ENGG course 2700 or higher except internship and independent study type courses.
- Any ENGR course 2010 or higher except internship and independent study type courses.
- GEO 1010 Introduction to Geology (3.0)
- GEO 1015 Introduction to Geology Laboratory (1.0)
- GEO 1220 Historical Geology (3.0)
- GEO 1225 Historical Geology Laboratory (1.0)
- Any GEO course 3020 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 3950 Astrophysics (3.0)
- PHYS 3800 Energy use on Earth (3.0)
- PHYS 4100 Biophysics (3.0)
- PHYS 4420 Electrodymanics* (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 492R Topics in Physics (may only be taken once toward degree credit) (3.0)
- PHYS 495R Independent Readings (1.0)
- PHYS 496A Senior Project* (2.0)
- PHYS 496B Senior Thesis* (1.0)
- ZOOL 2300 Human Anatomy (4.0)
- ZOOL 4240 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.

** Suggested elective option for the student intent on continuing physics studies in graduate school. ** Strongly recommended for inclusion in any elective option.

BS in Chemistry/Physics Education 124 Credits

Matriculation Requirements:

Students are admitted directly to the Baccalaureate degree program in Chemistry and Physics Education upon acceptance to the Secondary Education Program.

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 2710 US History Since 1877 (3.0)
- HIST 1740 US Economic History (3.0)
- POLS 1010 American Heritage (3.0)
- POLS 1100 American National Government 3.0

Complete the following:

- PHYS 2050 Ethics and Values 3.0
- HLTH 1100 Personal Health and Wellness (2.0)
- PES 1097 Fitness for Life 2.0

Distribution Courses:

- Biology 3.0
- 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
- Humansities 3.0
- Fine Arts 3.0
- Social/Behavioral Science 3.0

Discipline Core Requirements: 83 Credits

- CHEM 2310 Organic Chemistry I 4.0
- CHEM 2320 Organic Chemistry II 4.0
- CHEM 2315 Organic Chemistry I Laboratory 1.0
- CHEM 2325 Organic Chemistry II Laboratory 1.0
- CHEM 3000 Analytical Chemistry 4.0
- CHEM 4220 Teaching Methods in Science 3.0
- CHEM 4320 History of Scientific Thought 3.0
- MATH 1220 Calculus II 5.0
- PHYS 2210 Physics for Scientists and Engineers I 4.0
- PHYS 2215 Physics for Scientists and Engineers I Lab 1.0
- PHYS 2220 Physics for Scientists and Engineers II 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 2540 Development of the Adolescent 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 1.0
- EDSC 4250 Classroom Management II 1.0
- EDSC 4440 Content Area Reading and Writing 2.0
- EDSC 4450 Multicultural Instruction/ESL 2.0
- EDSC 4550 Secondary Curriculum Instruction and Assessment 4.0
- EDSC 4550 Student Teaching--Secondary (4.0)
- EDSP 3400 Exceptional Students 2.0

Complete one of the following sets:

CHIMISTRY:

- CHEM 3060 Physical Chemistry I (4.0)
- CHEM 3100 Advanced Inorganic Chemistry (4.0)
- PHYS 3050 Astrophysics (3.0)

PHYSICE:

- PHYS 3210 Introduction to Experimental Physics I (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. Completion of a minimum of 124 semester credits with a minimum of 40 upper-division credits.

- Overall grade point average of 2.0 (C) or above with a minimum of 2.25 in Major.
- 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.
- A minimum of 52 credit hours must be in the major with a minimum of 20 credits taken at UVU. A minimum of 24 chemistry and physics credits must be upper-division.
- Complete all chemistry and physics courses with a minimum grade of "C-" or better.
- 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:

* Must be repeated two times.

Minor in Physics 20 Credits

Matriculation Requirements:

- 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 3740 Modern Physics 3.0
- PHYS 3210 Introduction to Experimental Physics I 2.0

Complete a minimum of 5 credits from the following:

- PHYS 3220 Introduction to Experimental Physics II (2.0)
- PHYS 3230 Principles of Electronics for the Physical Sciences (3.0)
- PHYS 3300 Mathematical Physics (3.0)
- PHYS 3400 Classical Mechanics (3.0)
- PHYS 3500 Thermodynamics (3.0)
- PHYS 3800 Energy use on Earth (3.0)
- PHYS 4210 Advanced Experimental Techniques (3.0)
- PHYS 4300 Computational Physics (3.0)
- PHYS 4410 Electrostatics and Magnetism (3.0)
- PHYS 4420 Electrodynamics (3.0)
- PHYS 4510 Quantum Mechanics I (3.0)
- PHYS 4520 Quantum Mechanics II (3.0)
- PHYS 4630 Optics (3.0)
- PHYS 4700 Acoustics (3.0)
- PHYS 4800 Solid State Physics (3.0)
- PHYS 490R Seminar (0.5)
- ASTR 3050 Astrophysics (3.0)
- PHYS 3950 Astrophysics (3.0)
- METO 3100 Climate and the Earth System (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
- PHSC, Physical Science
- PHYS, Physics
Political Science

Department of History
and Political Science

Department Chair:
Department Office: LA 030
Telephone: 801-863-8487
Fax: 801-863-7013

Political Science Coordinator:
Alexander T. Stecker

Administrative Assistant:
Paula Wankier

Faculty:
Professor
F. Dennis Farnsworth, Jr.
Assistant Professor
Geoffrey Cockerham
Jay A. DeSart
Rick A. Griffin
Senior Lecturer
Alex Stecker

College of Humanities and Social Sciences

Interim Dean: David P. Yells
Office: LA 209d
Telephone: 801-863-7435

Political science enjoys a central position among the social sciences. Aristotle characterized politics as the "queen of the sciences." It is a broad discipline that encompasses philosophical, historical and analytical studies of governments, politics and policies. Political science students learn not only the concepts, theories and methods associated with the discipline, but also gain the cognitive and presential 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 area. Upper division courses apply toward a BA/BS in Political Science and the Integrated Studies Social Sciences emphasis and may serve as electives in other programs. (See specific program requirements.)

BA in Political Science 120 Credits

General Education Requirements: 35 Credits

• ENGL 1010 Introduction to Writing 3.0
• ENGL 2010 Intermediate Writing--Humanities/ Social Sciences 3.0
or ENGL 2020 Intermediate Writing--Science and Technology 3.0

Complete one of the following:

• MATH 1030 Quantitative Reasoning (recommended for Humanities or Arts majors) (3.0)
• MATH 1040 Introduction to Statistics (recommended for Social Science majors) (3.0)
• MATH 1050 College Algebra (recommended for Business, Education, Science, and Health Professions majors) (4.0)

Complete one of the following:

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

Complete the following:

• PHIL 2050 Ethics and Values 3.0
• 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 Core) (3.0)
• 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 3300 Political Analysis 3.0
• POLS 4990 Senior Seminar (3.0) or 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
• Complete courses numbered 1000 or higher (at least 16 credits must be upper-division)

Graduation Requirements

1 Completion of a minimum of 120 or more semester credits, 40 credits must be upper-division.
2 Overall grade point average of 2.0 (C) or above (departments may require a higher GPA).
3 Residency hours: minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4 Completion of GE and specified departmental requirements.
5 Completion of 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 listing, see page 25.

Emphasis in American Government 18 Credits

Emphasis Requirements:

Complete 18 credits from the following courses: 18.0

• POLS 3003 State and Local Government (3.0)
• POLS 3150 Executive Branch (3.0)
• POLS 3180 Public Opinion and Political Behavior (3.0)
• POLS 3200 Legislative Process (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 4980R Independent Study (1.0)
• HIST 3370 Constitutional History to Plessy 1896 (3.0)
• HIST 3380 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 3710 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: 18.0

• POLS 1440 Introduction to Middle East Politics (3.0)
• POLS 3800 Our Global Community (3.0)
• POLS 3100 Survey of International Terrorism (3.0)
• POLS 3400 American Foreign Policy (3.0)
• POLS 3500 International Relations of the Middle East (3.0)
• POLS 3600 International Relations of East Asia (3.0)
• POLS 420R Issues and Topics in Political Science (3.0)
• POLS 4980R 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 4300 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 3100 Language and Culture (3.0)
• MGMT 3350 Survey of International Business (3.0)
• MGMT 332G Cross-Cultural Communications for International Business (3.0)
• PHIL 1610 Introduction to Western Religions (3.0)
• PHIL 1620 Introduction to Eastern Religions (3.0)

Emphasis in Political Philosophy/Public Law 18 Credits

Emphasis Requirements:

Complete 18 credits from the following: 18.0

• POLS 2350 Introduction to Political Theory (3.0)
• POLS 3003 State and Local Government (3.0)
• POLS 3180 Public Opinion and Political Behavior (3.0)
• POLS 3200 Legislative Process (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 4980R Independent Study (1.0)
• HIST 3370 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 320G 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) 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)

Complete the following: 0.0
- PHIL 2050 Ethics and Values
- 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
- Humanities 3.0
- Fine Arts 3.0
- Social/Behavioral Science 3.0

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

Complete the following: 3.0
- POLS 2200 Introduction to Comparative Politics
- POLS 3300 Political Analysis
- POLS 4900 Senior Seminar (3.0)
- or POLS 480R Internship (2.0) 3.0

Quantitative Requirement: Complete 15 credits from the following courses:
- CLSS 1050 Library Research (1.0)
- COMM 1150 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 3300 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 18.0
- International Relations 18.0
- Political Philosophy/Public Law 18.0

Elective Requirements: 30 Credits
- Complete courses numbered 1000 or higher (at least 16 credits must be upper-division)

Graduation Requirements:
1. Completion of a minimum of 120 or more semester credits, 40 credits must be upper-division.
2. Overall grade point average of 2.0 (C) or above (departments may require a higher GPA).
3. Residency hours: minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified Departmental requirements.
5. Completion of 18 credit hours of course work from one language to include the 1010, 1020, 2010, and 2020 levels or transferred equivalents.

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 Executive Branch (3.0)
- POLS 3180 Public Opinion and Political Behavior (3.0)
- POLS 3200 Legislative Process (3.0)
- POLS 3250 Introduction to Law and Politics (3.0)
- POLS 420R Issues and Topics in Political Science (3.0)
- POLS 498R Independent Study (1.0)

Minor in Political Science 18 Credits

Matriculation Requirements:
1. Completion of one of the following prerequisites: POLS 1000, American Heritage; POLS 1010, 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: 6.0
  - POLS 1020 Political Ideologies (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)

Complete TWO of the following: 6.0
- POLS 3300 State and Local Government (3.0)
- POLS 3150 Executive Branch (3.0)
- POLS 3200 Legislative Process (3.0)
- POLS 3250 Introduction to Law and Politics (3.0)

Graduation Requirements:
1. Complete all history courses with a grade of “C-” or better.
2. Footnote: Only 3 credits of Internship will be accepted.

Emphasis in Political Philosophy/Public Law 18 Credits

Emphasis Requirements: Complete 18 credits from the following courses: 18.0
- POLS 2350 Introduction to Political Theory (3.0)
- POLS 3030 State and Local Government (3.0)
- POLS 3180 Public Opinion and Political Behavior (3.0)
- POLS 3200 Legislative Process (3.0)
## Pre-Engineering Science

**Department of Computer Science and Pre-Engineering**

**Department Chair:** Abraham Teng  
**Office:** CS 520J  
**Telephone:** 801-863-6201

**Administrative Support**  
**Hedy Howerton**  
**Office:** CS 520h  
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**Faculty:**
- **Associate Professor**  
  - Masood Amin  
  - Afshan Miniaie
- **Assistant Professor**  
  - Abraham Teng

**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 for professional status at an institution of the student's choice.

Students can choose from two degree plans. The Associate of Pre-Engineering degree is comprised of those math, science, and engineering courses normally taken by first and second year students in a four-year program, along with a small number of general education courses. If a student adds appropriate general education courses, an Associate of Science Degree with a pre-engineering pre-major may be obtained. This option normally takes longer, unless the student has advanced placement or concurrent enrollment from high school; however, it has the added benefit of possible waiving of general education requirements at the student's follow-on school.

Pre-engineering programs will vary markedly from student to student depending on several factors including: high school preparation, engineering discipline of interest, and the intended four-year transfer school. The pre-engineering advisor will consider these factors when designing a program to fit the needs of each individual student. It is therefore important that pre-engineering students consult with the pre-engineering advisor concerning classes appropriate for their educational experience at UVU. Call 801-863-8648 for a personal appointment.

The normal entry-level mathematics class for pre-engineering students is Calculus I (MATH 1210). Prerequisites for Calculus I are College Algebra (MATH 1050) and Trigonometry (MATH 1060) or placement through the ACT and/or UVU New Student Assessment Test. Remedial course work is available for students with inadequate high school preparation and achievement. Inadequately prepared students should see a pre-engineering advisor for recommended remedial courses which must be completed in addition to the normal pre-engineering requirements.

### AAS in Mechatronics Technology 69 Credits

**General Education Requirements:** 19 Credits

- **ENGL 1010** Introduction to Writing 3.0
- **MATH 1050** College Algebra 4.0
- **COMM 1020** Public Speaking 3.0
  
Completed 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)
- **POLI 1000** American Government (3.0)
- **POLI 1100** American National Government (3.0)

Physical Education/Health/Safety or Environment 1.0
- Any approved Physical Education, Health, Safety, or Environment course.

Completed the following:  
- **PHYS 2015** College Physics I (4.0)
- **PHYS 2015** College Physics I Lab 1.0

**Discipline Core Requirements:** 50 Credits

- **CS 1410** Introduction to Programming 3.0
- **CS 1400** Fundamentals of Programming 3.0
- **CS 2420** Introduction to Algorithms and Data Structures 3.0
- **CS 2810** Computer Organization and Architecture 3.0
- **EECT 1010** Basic Electronics--DC/AC 4.0
- **EECT 1180** Advanced Hardware Tools for Electronics 3.0
- **EECT 1210** Analog Circuits 3.0
- **EENG 2700** Digital Design I 3.0
- **EENG 2705** Digital Design II Lab 1.0
- **EENG 3720** Interface to Microprocessors 3.0
- **MATH 1060** Trigonometry 3.0
- **MECH 2070** Introduction to Mechatronics 3.0
- **MECH 2250** Technical Calculus with Analytic Geometry 4.0
- **MECH 2520** Programmable Logic Controllers 3.0
- **MECH 3170** Mechatronics Foundations 3.0
- **PHYS 2200** College Physics II 4.0
- **PHYS 2205** College Physics II Lab 1.0

**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 Pre-Engineering** 63 Credits

**General Education Requirements:** 39 Credits

- **ENGL 1010** Introduction to Writing 3.0
- **ENGL 2020** Intermediate Writing--Science and Technology 3.0
- **MATH 1210** Calculus I 5.0

Completed 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)
- **POLI 1000** American Government (3.0)
- **POLI 1100** American National Government (3.0)

Completed the following: 3.0

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

**Distribution Courses:**
- **CHEM 1210** Principles of Chemistry I (3.0)
- **PHYS 2210** Physics for Scientists and Engineers I (3.0)
- **HUMS 86** Humanities 3.0
- **Fine Arts 3.0
- **Social/Behavioral Science 3.0
- **Biology 3.0

**Discipline Core Requirements:** 24 Credits

- **PHYS 2215** Physics for Scientists and Engineers I Lab (1.0)
- **CHEM 1215** Principles of Chemistry I Laboratory (1.0)
- **ENGR 1000** Introduction to Engineering (3.0)
- **CS 2810** Computer Organization and Architecture (3.0)
- **EGDT 1040** Aided Drafting--Auto-CAD (3.0)

Complete eight credits of Pre-Engineering electives

**Mechanical/Civil Courses:**
- **PHYS 2220** Physics for Scientists and Engineers II (4.0)
- **ENGR 2030** Engineering Dynamics (3.0)
- **ENGR 2010** Engineering Statics (3.0)
- **ENGR 2140** Mechanics of Materials (3.0)
- **Complete three credits of Pre-Engineering electives

**Electrical/Computer Courses:**
- **PHYS 2220** Physics for Scientists and Engineers II (4.0)
- **EENG 2270** Circuit Theory (3.0)
- **EENG 2275** Circuit Theory I (4.0)
- **EENG 2270** Digital Design I (3.0)
- **EENG 2275** Digital Design I Lab (1.0)
- **Complete four credits of Pre-Engineering electives

**Chemical/Biological Courses:**
- **PHYS 2220** Physics for Scientists and Engineers II (4.0)
- **CHEM 2310** Organic Chemistry I (4.0)
- **ENGR 2010** Engineering Statics (3.0)
- **Complete five credits of Pre-Engineering electives

**Elective Requirements:**
Students should carefully select electives based on the engineering discipline they are interested in and the college or university they want to attend to finish their BS degree.

- **ENGR 1000** Introduction to Engineering (3.0)
- **ENGR 2450** Computational Methods for Engineers (3.0)
- **ENGR 295R** Special Topics (1.0)
Pre-Engineering Science

Math and Science Electives (required by most engineering programs):
• 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 Lab (1.0)
• PHYS 2225 Physics for Scientists and Engineers II Lab (1.0)
• CHEM 1215 Principles of Chemistry I Laboratory (1.0)

General Engineering Electives:
• MATH 1050 College Algebra (4.0)
• MATH 1060 Trigonometry (3.0)
• BIOL 1615 College Biology I Laboratory (1.0)
• BIOL 1620 College Biology II (3.0)
• BIOL 1625 College Biology II Laboratory (1.0)
• MICR 2560 Microbiology for Health Professions (4.0)
• CHEM 1220 Principles of Chemistry II (4.0)
• CHEM 2230 Organic Chemistry I Laboratory (1.0)
• CHEM 2320 Organic Chemistry II Laboratory (1.0)

Civil and Mechanical Engineering Electives:
• EENG 2210 Fundamentals of Electric Circuit Analysis (3.0)
• ENGR 2300 Engineering Thermodynamics (3.0)
• EGDT 1040 Computer Aided Drafting--AutoCAD (3.0)
• EGDT 1400 Surveying (4.0)
• CS 2810 Computer Organization and Architecture (3.0)
• CS 2300 Discrete Structures I (3.0)
• CS 2420 Introduction to Algorithms and Data Structures (3.0)

Graduation Requirements:
1. Completion of a minimum of 63 semester credits.
2. Overall grade point average of 2.0 (C) or above in Math, Science, and Engineering courses.
3. Residency hours—minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

APE in Associate in Pre-Engineering 68-69 Credits

General Education Requirements: 20 Credits
• ENGL 1010 Introduction to Writing 3.0
• ENGL 2010 Intermediate Writing—Science and Technology 3.0

Complete the following Natural and Physical Science courses:
• BIOL 1010 General 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 Lab 1.0

Complete any combination of the following with no more than 1 course each from Humanities, Fine Arts, and Social/Behavioral Science:
• Humanities (from list)
• Fine Arts (from list)
• Social/Behavioral Sciences (from list)

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

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

Graduation Requirements:
1. Completion of a minimum of 68 semester credits.
2. Overall grade point average of 2.0 (C) or above in Math, Science, and Engineering courses.
3. Residency hours—minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

Emphasis in Biological and Chemical Engineering 23 Credits

Emphasis Requirements: 8 Credits
• CHEM 1220 Principles of Chemistry II 4.0
• CHEM 1225 Principles of Chemistry II Laboratory (1.0)
• ENGR 2010 Engineering Statics 3.0

Emphasis Elective Requirements: 15 Credits
Students should carefully select electives from the following list, based on the engineering discipline (Biological or Chemical) they are interested in and the college or university they want to attend to finish their BS degree. See your advisor.
• BIOL 1610 College Biology I (4.0)
• BIOL 1615 College Biology I Laboratory (1.0)
• BIOL 1620 College Biology II (3.0)
• BIOL 1625 College Biology II Laboratory (1.0)
• MICR 2060 Microbiology for Health Professions (4.0)
• CHEM 1220 Principles of Chemistry II 4.0
• CHEM 1225 Principles of Chemistry II Laboratory (1.0)
• CHEM 2310 Organic Chemistry I (4.0)
• CHEM 2315 Organic Chemistry I Laboratory (1.0)
• CHEM 2320 Organic Chemistry II (4.0)
• CHEM 2325 Organic Chemistry II Laboratory (1.0)
• EENG 1000 Introduction to Engineering (3.0)
• EENG 2450 Computational Methods for Engineering Analysis (3.0)
• EENG 295R Special Topics (1.0)
• MATH 2210 Calculus III (3.0)
• MATH 2270 Linear Algebra (3.0)
• MATH 2280 Ordinary Differential Equations (3.0)

Emphasis in Civil and Mechanical Engineering 22 Credits

Emphasis Requirements: 9 Credits
• ENGR 2010 Engineering Statics 3.0
• ENGR 2030 Engineering Dynamics 3.0
• ENGR 2140 Mechanics of Materials 3.0

Emphasis Elective Requirements: 13 Credits
Students should carefully select electives from the following list, based on the engineering discipline (Civil or Mechanical) they are interested in and the college or university they want to attend to finish their BS degree. See your advisor.
• EGD1 1040 Computer Aided Drafting--AutoCAD (3.0)
• ENGR 1000 Introduction to Engineering (3.0)
• EENG 2210 Fundamentals of Electric Circuit Analysis (3.0)
• ENGR 2215 Fundamentals of Electric Circuit Analysis Lab (1.0)
• ENGR 2300 Engineering Thermodynamics (3.0)
• ENGR 2450 Computational Methods for Engineering Analysis (3.0)
• ENGR 295R Special Topics (Must be taken 3 times) (1.0)

See Course Descriptions section of the catalog for detailed course information. This department manages the following course prefixes:
- EENG, Electrical Engineering
- ENGR, Engineering Science
- MECH, Mechatronics Technology
The traditional ROTC program extends over four years of college and consists of two phases: a two-year basic course during the freshman and sophomore years, and a two-year advanced course covering the junior and senior years of college.

To receive a commission as a second lieutenant in the U.S. Air Force, U.S. Army, Army Reserve or Army National Guard, students must earn a baccalaureate degree prior to age 30. An exception will be made for prior service, which may extend the age limit to 34. If designated for Air Force pilot or navigator training, all commissioning requirements must be met prior to age 29. Students must be citizens of the United States to be commissioned.

Physical and academic standards for the basic course are the same as for those of the university. To qualify for the advanced program, students must pass a mental 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 or university from which the students received their baccalaureate degree. ROTC military and leadership training provides ROTC graduates with many special skills and experiences which will enable them to compete as leaders in the military and/or business, civic, and community affairs.

SCHOLARSHIPS

ROTC offers many two, three, and four-year scholarships for which students may compete, awarded on merit. The scholarships pay full tuition, textbook costs, lab, and other required college fees, related education expenses such as classroom materials, and a $350-500 per month subsistence allowance. These scholarships are among the finest scholarships offered and can be used at hundreds of other universities and colleges across the United States for students to complete their baccalaureate training at a four-year school. ROTC scholarships are offered on a competitive basis and applications must be submitted through either the Air Force or Army ROTC Detachments. In most cases, deadline for scholarship applications is January of the year prior to enrollment. However, it is suggested that interested parties check with specific ROTC departments since in certain instances deadlines may vary. ROTC scholarships are not affected by other grants, loans, or VEA. To be eligible for a scholarship, a student must be eligible to receive a baccalaureate degree by his or her 30th birthday, be a U.S. Citizen, be at least age 17 at the time the scholarship is to be used, and be willing to serve on active duty for a period of years if a scholarship is utilized by a student. There are also Reserve Component Scholarships awarded each year for National Guard and Reserve duty.

AEROSPACE STUDIES (AIR FORCE)

All students in the Air Force ROTC program must attend a four- or six-week field training camp at an Air Force base, usually in the summer between sophomore and junior years.

All Air Force ROTC students are required to attend a leadership laboratory for two hours each week. Practical experience in leadership and command techniques are emphasized during all laboratory periods.

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.)

<table>
<thead>
<tr>
<th>Emphasis in Military Science</th>
<th>18 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emphasis Requirements: 18 Credits</td>
<td></td>
</tr>
<tr>
<td>• MILS 3210 Small Unit Leadership I 3.0</td>
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<tr>
<td>• MILS 3210 Small Unit Leadership II 3.0</td>
<td></td>
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<tr>
<td>• MILS 4200 The Profession of Arms I 3.0</td>
<td></td>
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<tr>
<td>• MILS 4210 The Profession of Arms II 3.0</td>
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<tr>
<td>Complete one of the following: 3.0</td>
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<tr>
<td>• HIST 3450 The History of World War II (3.0)</td>
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<tr>
<td>• HIST 3520 The United States and Vietnam--1945 to Present (3.0)</td>
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<tr>
<td>• HIST 4740 American Revolution (3.0)</td>
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<tr>
<td>Complete 3 credits from the following: 3.0</td>
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<tr>
<td>• COMM 3520 Case Studies in Public Relations (3.0)</td>
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<tr>
<td>• CJ 3040 Community Policing (3.0)</td>
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<tr>
<td>• ENGL 2310 Technical Communication (3.0)</td>
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<tr>
<td>• DGM 3265 Instructional Design for Digital Media (3.0)</td>
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<tr>
<td>• DGM 3290 Developing Digital Media for Instruction and Training (3.0)</td>
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<tr>
<td>• MGMT 3300 Survey of International Business (3.0)</td>
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<tr>
<td>• MGMT 3320 Cross-Cultural Communications for International Business (3.0)</td>
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<tr>
<td>• MGMT 3430 Human Resource Management (3.0)</td>
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<tr>
<td>• MGMT 3440 Managing Organizations (3.0)</td>
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<tr>
<td>• POLS 3100 Survey of International Terrorism (3.0)</td>
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<tr>
<td>• POLS 3400 American Foreign Policy (3.0)</td>
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</tbody>
</table>
- POLS 3600 International Relations of East Asia (3.0)

Notes:
1. Contracted Army ROTC Cadets must also satisfy the leadership laboratory and physical fitness terms of their contract in order to be commissioned officers in the US Army.
2. Military Science students who select this emphasis may not choose Physical Education, Outdoor Leadership, Leadership, or Office Management as their second emphasis.

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

- AERO, Aerospace Studies
- MILS, Military Studies
While the Technology Management Degree was one of the first four-year degrees to be offered at UVU, it is also designed 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 a survey conducted in 2005, 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**

<table>
<thead>
<tr>
<th>General Education Requirements: 16 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>• ENGL 1010 or ENGL 1015 Introduction to Writing (.0)</td>
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<tr>
<td>• EGDT 1600 Technical Math—Algebra (3.0)</td>
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<tr>
<td>• MATH 1033 Quantitative Reasoning (3.0)</td>
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<td>• MATH 1040 Introduction to Statistics (3.0)</td>
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<td>• MATH 1053 College Algebra (4.0)</td>
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<tr>
<td>• Biology / Physical Science (3.0)</td>
</tr>
<tr>
<td>• Health / PE / Safety / Environment (1.0)</td>
</tr>
<tr>
<td>• Humanities / Fine Arts (3.0)</td>
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<tr>
<td>• TECH 2000 Technology and Human Life (3.0)</td>
</tr>
</tbody>
</table>

**Discipline Core Requirements: 23 Credits**

| • TECH 1000 Experiential Credit Portfolio Development and Assessment (2.0) |
| • INFO 1100 Exploring the Digital Domain (3.0) |
| • TECH 110R Technical Experiential Credit (1.0) |
| • TECH 1010 Understanding Technology (3.0) |
| • TECH 2010 Supervision in Technology (3.0) |
| • Technical Area Credits - With advisor approval, students must select a minimum of 6 credits. |

See catalog for 2-year AAS programs for course selections.

**Elective Requirements: 24 Credits**

Students must select a minimum of 24 credits of electives from the following or other advisor approved course work:

| • TECH 110R 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) |
| • BIOI 1010 General Biology (3.0) |
| • BIOI 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 1115 Elementary Chemistry Laboratory (1.0) |
| • CLSS 1000 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 2010 Mass Communication and Society (3.0) |
| • ENGR 1000 Introduction to Engineering (3.0) |
| • ENVT 1110 Introduction to Environmental Management (3.0) |
| • ENV 1150 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) |
| • PHSC 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.

**Bachelor of Applied Technology 123 Credits**

**Matriculation Requirements:**

1. Have completed an AAT degree from UCAT in a sponsoring School at UVU (60 credit hours)
2. Meet with an advisor in the AAT-emphasis discipline-related program and develop an academic contract specifying discipline-related courses, BAT core, BAT support courses, and BAT electives

**General Education Requirements: 23 Credits**

Complete one of the following:

| • HIST 2700 US History to 1877 (3.0) |
| • HIST 2710 US History since 1877 (3.0) |
| • HIST 1700 American Civilization (3.0) |
| • HIST 1740 US Economic History (3.0) |
| • POLS 1000 American Heritage (3.0) |
| • POLS 1100 American National Government (3.0) |
| • PHIL 2050 Ethics and Values (3.0) |
Technology Management

- HLTH 1100 Personal Health and Wellness (2.0)
- or ENGL 1078 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)

Discipline Core Requirements: 84 Credits
- Complete an AAT Degree in Community Health or Information Technology
- ENGL 4310 Advanced Technical Communication (3.0)
- DGM 3820 Presentation Applications (3.0)
- TECH 3000 Introduction to Technology Management (3.0)
- MGMT 3000 Organizational Behavior (3.0)
- TECH 3850 Quality Assurance in Technology (3.0)

COMMUNICATION: Complete one of the following courses:
- MGMT 332G Cross-Cultural Communications for International Business (3.0)
- MGMT 4220 Management Communication (3.0)

SUPERVISION: Complete one of the following courses:
- DGM 3290 Developing Digital Media for Instruction and Training (3.0)
- TECH 3400 Leadership in Technology Management (3.0)

TEAM BUILDING/DIV:
- MGMT 3550 Leadership Process (3.0)

Elective Requirements: 16 Credits
- Complete a minimum of one of the following courses:
  - INFO 3120 Principles of Information Systems—A Managerial Approach (3.0)
  - LESL 3000 Business Law (3.0)
  - MGMT 3000 Organizational Behavior (3.0)
  - MGMT 3170 Entrepreneurship (3.0)
  - MGMT 3440 Managing Organizations (3.0)
  - MGMT 3560 Principles of Marketing (3.0)
  - MGMT 3620 Consumer Behavior (3.0)
  - MGMT 3630 Services Marketing (3.0)
  - MGMT 3650 Selling and Sales Management (3.0)
  - PHIL 3510 Business and Professional Ethics (3.0)
  - SOC 3460 Political Sociology (3.0)
  - SOC 4400 Social Change (3.0)
  - TECH 4000 Reliability Engineering and Safety (3.0)
  - TECH 4210 Technology Marketing and Distribution (3.0)

Upper-Division Information-Related Courses:
- Coursework planned with advisor (13.0)

Graduation Requirements:
1. Completion of a minimum of 123 semester credits, 40 of which must be upper division.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours—a minimum of 30 credit hours through course attendance at UVU with at least 10 hours earned 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.

Notes: ENGL 1010, MATH 1500, Social/Behavioral Science completed in the AAT degree. Students desiring to take more than three Woodbury School of Business courses at or above the 3000 level must have a minimum accumulated GPA of 2.5 and have successfully completed the core foundation courses in the Woodbury School of Business Information Technology program.

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)

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 2720 US History from 1877 (3.0)
- and 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)

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)

- TECH 2000 Technology and Human Life (fulfills Social/Behavioral Science)

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 Creative/Innovation and Change Management (3.0)
- or MGMT 3370 Entrepreneurship (3.0)
- TECH 3400 Project Management (3.0)
- TECH 3850 Quality Assurance in Technology (3.0)
- TECH 405G Global Ethical and Professional Issues in Technology (3.0)
- TECH 4420 Organization Information Technologies (3.0)
- TECH 4850 Current Topics in Technology Management (3.0)
- TECH 4910 Senior Capstone Project (3.0)
- ACC 3000 Financial Managerial and Cost Accounting Concepts (3.0)
- 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:
- TECH 3700 Materials Management (3.0)
- TECH 4000 Reliability Engineering and Safety (3.0)
- TECH 4200 Technology Marketing and Distribution (3.0)
- TECH 4400 Advanced Project Management (3.0)
- TECH 481R Internship (Up to 3 credits may be selected) (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)
- Up to 6 credits toward Leadership Certification with the Center for the Advancement of Leadership.

Graduation Requirements:
1. Completion of a minimum of 123 semester credits
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. No grade lower than a C- in any TECH course.
4. Residency hours—minimum of 30 credit hours through course attendance at UVU with at least 10 hours earned in the last 45 hours.
5. Completion of GE and specified departmental requirements
6. 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.

Specialization in Art and Visual Communications 45 Credits

Emphasis Requirements: 45 Credits
- 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 AVV courses.

Specialization in Automotive Technology 45 Credits

Emphasis Requirements: 45 Credits
- AUT 1120 Brake Systems Lab (2.0)
- AUT 111L Brake Systems Lab (1.0)
- AUT 112L 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 118L 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 122L 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 Automotive HVACCR (2.0)
- AUT 2250 Electronic Fuel Management Systems (2.0)
- or AUT 2350 Electronic Diesel Fuel Management Systems (2.0)

Complete 5 credits from the following:
- AUT 201L Automotive Service Practicum (2.0)
- AUT 202L Automotive Service Practicum (2.0)
- AUT 203L Automotive Service Practicum (2.0)
- AUT 204L Automotive Service Practicum (2.0)
- AUT 204L Automotive Service Practicum (2.0)
-AUT 281R Cooperative Work Experience (1.0)

Specialization in Aviation Science 45 Credits

Emphasis Requirements: 33 Credits
- AVSC 1010 Survey of Aviation Science (2.0)
- AVSC 1100 Ground Pilot License (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 1240 Ground Instrument Pilot (4.0)
- AVSC 1250 Flight Instrument Pilot Rating (2.0)
- AVSC 2150 Air Transportation Management (3.0)
- 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 (1.0)
- 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 CPI Instrument (1.0)
Overall Refinishing and Problem

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.

Specialization in Building Construction and Construction Management 46 CREDITS

Emphasis Requirements:
- BCCM 1110 Principles of Residential Framing 3.0
- BCCM 1120 Blueprint Reading 2.0
- BCCM 1130 Concrete and Masonry 1.0
- BCCM 1150 Building Construction Safety 1.0
- BCCM 1160 Stair Design and Construction 1.0
- 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 Roof Framing 2.0
- BCCM 1250 Utah Contractors License 2.0
- BCCM 2260 Computer Estimating 2.0
- BCCM 3270 Residential Project Management and Scheduling 3.0
- BCCM 299R VICA 1.0
- BIT 1010 Building Codes 3.0
- BIT 1020 Residential Codes (3.0)
- EGDT 1040 Computer Aided Drafting--AutoCAD 3.0
- EGDT 1090 Introduction to Architecture Drafting 3.0
- EGDT 1400 Surveying 4.0

Specialization in Building Inspection Technology 45 CREDITS

Emphasis Requirements:
- 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 1130 Concrete and Masonry 1.0
- BCCM 1150 Building Construction Safety 1.0
- BCCM 1160 Stair Design and Construction 1.0
- BCCM 1190 Framing and Concrete Lab 5.0
- BCCM 1240 Roof Framing 2.0
- EGDT 1040 Computer Aided Drafting--AutoCAD 3.0
- EGDT 1400 Surveying 4.0
- EGDT 1600 Technical Math--Algebra 3.0
- ESFO 2030 Fire Inspector I 3.0

Specialization in Cabinetry and Architectural Woodwork 45 CREDITS

Emphasis Requirements:
Complete 45 credits from the following:
- CAVW 1130 Residential Cabinetry (4.0)
- CAVW 1140 Millwork and Safety Shop I (5.0)
- CAVW 1150 Design Drafting and Billing (3.0)
- CAVW 1170 Finish Technology (2.0)
- CAVW 1210 Cabinetmaking Materials and Hardware (1.0)
- CAVW 1240 Millwork Milling Shop II (5.0)
- CAVW 1250 Drafting and Applications for Cabinetmakers (4.0)
- CAVW 2300 Counter-top Technology (3.0)
- CAVW 2310 Cabinetry Math (2.0)
- CAVW 2340 Millworking Shop III (5.0)
- CAVW 2440 Millworking Shop IV (5.0)
- CAVW 2450 Machine Maintenance and Upkeep (2.0)
- CAVW 2430 Commercial Cabinetry Technology (4.0)
- CAVW 299R Skills USA (1.0)
- EGDT 1040 Computer Aided Drafting--AutoCAD (3.0)
- DFT 2310 Fluid Power Theory (4.0)

Specialization in Digital Media 45 CREDITS

Emphasis Requirements:
Complete the following:
- DGM 1110 Digital Media Essentials I 4.0
- DGM 1210 Digital Media Essentials II 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 2220 Marketing for Digital Media 3.0
- DGM 2240 Interaction Design 3.0
- ART 1120 2D Design 3.0
- or DGM 2250 Principles of Digital Design (3.0)

Elective Requirements: 15 Credits
Complete 15 credits from approved DGM electives (see advisor) for a total of 45 credits.

Specialization in Drafting Technology 45 CREDITS

Emphasis Requirements:
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 Pipining Drafting 2.0
- EGDT 2050 Plate Layout 2.0
- EGDT 2600 Statics 3.0
- EGDT 2610 Strength of Materials 3.0
- EGDT 1080 MicroStation (2.0)
- EGDT 2100 Advanced Electrical--CAD (2.0)
- EGDT 2120 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)

Specialization in Electrical Automation and Robotics Technology 45 CREDITS

Emphasis Requirements:
Complete the following:
- EART 1100 Basic Electrical 4.0
- EART 1050 Applied Electrical Math 5.0
- EART 1180 Basic Electrical Lab 5.0
- EART 1260 Logic 5.0
- EART 1270 DC and AC Machines 9.0
- EART 2110 Semiconductors Devices 6.0
- EART 2150 Hydraulics and Pneumatics 3.0
- EART 2160 Industrial Solid State Circuits 5.0
- EART 2250 Programmable Logic Controllers 1.0

Elective Requirements: 1 Credits
Electives in EART based on chosen option (students must see advisor for list of approved course options).

Specialization in Electrical Construction Apprentice 45 CREDITS

Emphasis Requirements:
Complete the following:
- APPR 281R Cooperative Work Experience (Must be repeated 4 times) (1.0)
- APPR 285R Cooperative Correlated Class 1.0
- EART 1110 Electrical Apprentice I 1.0
- EART 1120 Electrical Apprentice I 1.0
- 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
- DM 231L Fluid Power Lab 2.0
- DM 2320 Fluid Power Transmission Theory 2.0
- DM 232L Fluid Power Transmission Lab 1.0
- DM 2410 Chassis Theory 4.0
- DM 241L Chassis Lab 2.0
- DM 2420 Power Trains Theory 4.0
- DM 242L Power Trains Lab 2.0

Technology Management
Specialization in Firefighting Fundamentals and Wildland Firefighting 45 Credits

Emphasis Requirements: 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
- EART 2370 Electrical Union Apprentice 5A 5.0

Specialization in Emergency Services 45 Credits

Emphasis Requirements: 45 Credits

Complete 45 credits from the following: 45.0

- ESEC 1140 Emergency Medical Technician--Basic (6.0)
- ESEC 3110 Fundamentals (3.0)
- ESEC 3130 Paramedic II (7.0)
- ESEC 3140 Paramedic III (4.0)
- ESEC 4110 Paramedic IV (6.0)
- ESEC 4120 Paramedic Work Experience (6.0)
- ESFF 1000 Introduction to Emergency Services (4.0)
- ESFF 1010 Firefighting Fundamentals I (3.0)
- ESFF 1210 Firefighting Skills I (4.0)
- ESFF 1220 Firefighting Fundamentals and Haz. Materials Skills II (3.0)
- ESFF 1310 Recruit Candidate Academy--Fundamentals (8.0)
- ESFF 1320 Recruit Candidate Academy--Fundamentals (8.0)
- ESFF 1330 Recruit Candidate Academy--Operations (3.0)
- ESFF 1340 Hazardous Materials First Responder (3.0)
- ESFF 1350 Mathematics for the Fire Service (3.0)
- ESFF 1370 Fundamentals of Apparatus Operation (3.0)
- ESFF 1380 Fire Apparatus Skill (3.0)
- ESFF 2410 Hazardous Materials Technician Fundamentals (3.0)
- ESFF 2420 Hazardous Materials Technician Skills (2.0)
- ESFF 2430 Hazardous Materials Chemistry (3.0)
- ESFF 2700 Technical Rescue Principles (3.0)
- ESFF 2710 Environmental Rescue (3.0)
- ESFF 2730 Rope Rescue (3.0)
- ESFO 2020 Incident Command (3.0)
- ESFO 2030 Fire Inspector (1.0)
- ESFO 2050 Fire Protection and Detection Systems (3.0)
- ESFO 2080 Building Construction for the Fire Services (3.0)
- ESFO 2100 Fire Officer I: Supervision and Leadership (3.0)
- ESFO 2110 Fire Instructor I and II (3.0)
- ESFO 211A Fire Service Instructor I (1.0)
- ESFO 212B Fire Service Instructor II (2.0)
- ESFO 2200 Fire Officer II (3.0)
- ESFO 2310 Fire Investigator I (3.0)
- ESFO 2320 Fire Investigator II (3.0)
- ESFO 2330 Public Fire Education I (2.0)
- ESFO 2400 Fire Officer Work Experience (3.0)
- ESMG 3150 Public Program Administration (3.0)
- ESMG 3200 Health and Safety Program Management (3.0)
- ESMG 3250 Managing Emergency Medical Services (3.0)
- ESMG 3300 Planning for Public Emergency Services (3.0)
- ESMG 4500 Emergency Services Capstone (3.0)
- ESFF 1400 Wildland/Urban Fire Protection (3.0)
- ESFW 2500 Wildland/Urban Interface Fire Protection (3.0)

Specialization in Facilities Management 46 Credits

Emphasis Requirements: 46 Credits

- ACRT 2420 Heating and Air Conditioning Controls 5.0
- BCCM 1120 Blueprint Reading 2.0
- BCCM 3270 Residential Project Management and 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
- EGT 1600 Technical Math--Algebra 3.0
- ECT 1000 Survey of Electronics 2.0
- ENVY 1200 Environmental Safety Risk Management 3.0
- FAC 1010 Survey of Facilities Management 3.0
- FAC 1600 Survey of Grounds and Building Maintenance (optional) (3.0)
- FAC 281R Cooperative Work Experience (take twice) (1.0)
- FAC 285R Cooperative Correlated Class (take twice) (1.0)
- GGMT 2200 Business Communications 3.0

Specialization in HVAC Apprentice 45 Credits

Emphasis Requirements: 45 Credits

- ACRT 281R Cooperative Work Experience 4.0
- ACRT 285R Cooperative Correlated Class (Must be repeated 4 times) (1.0)
- HVAC 1130 HVAC 1A 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

Specialization in Industrial Maintenance Apprentice 45 Credits

Emphasis Requirements: 45 Credits

- APPR 281R Cooperative Work Experience 4.0
- APPR 285R Cooperative Correlated Class (Must be repeated 4 times) (1.0)
- DMT 1440 Industrial Maintenance 3B (5.0)
- MET 1470 Plumbing Independent 4A (5.0)
- LINE 1600 HVAC 1A (5.0)
- LINE 1620 HVAC 2A (5.0)
- LINE 1650 HVAC 3A (5.0)
- LINE 1655 HVAC 4A (5.0)
- LINE 1700 HVAC 1B (5.0)
- LINE 1720 HVAC 2B (5.0)
- LINE 1750 HVAC 3B (5.0)
- LINE 1755 HVAC 4B (5.0)

Specialization in Information Systems Technology 45 Credits

Emphasis Requirements: 45 Credits

- FAC 281R Cooperative Work Experience (take twice) (1.0)
- FAC 285R Cooperative Correlated Class (take twice) (1.0)
- GGMT 2200 Business Communications 3.0

Specialization 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

Specialization 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

Specialization 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 2.0
- 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 Three Phase 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

Specialization in Plumber Apprentice 45 Credits

Emphasis Requirements: 45 Credits

- APPR 1410 Plumbing Independent 1A 5.0
- APPR 1420 Plumbing Independent 1B 5.0
- APPR 1430 Plumbing Independent 2A 5.0
- APPR 1440 Plumbing Independent 2B 5.0
- APPR 1450 Plumbing Independent 3A 5.0
- APPR 1460 Plumbing Independent 3B 5.0
- APPR 1470 Plumbing Independent 4A 5.0
- APPR 1480 Plumbing Independent 4B 5.0

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 I (3.0)
INFO 3440 Enterprise Database Development (3.0)
INFO 3510 Advanced System Administration--Linux/UNIX (3.0)
INFO 3560 System Administration--Windows (3.0)
INFO 3630 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
Technology Management

• BCCM 281R Cooperative Work Experience 4.0
  (Must be repeated 4 times) (1.0)
• BCCM 285R Cooperative Correlated Class 1.0

Specialization 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 3.0
• TECH 4001 Reliability Engineering and Safety 3.0
• TECH 4420 Organization Information Technologies 3.0

Elective Requirements: 6 Credits
Select 6 credits from the following: 6.0
• TECH 3010 Creativity Innovation and Change Management (3.0)
• TECH 3700 Materials Management (3.0)
• TECH 4050 Global Ethical and Professional Issues in Technology (3.0)
• TECH 4200 Technology Marketing and Distribution (3.0)
• TECH 4400 Advanced Project Management (3.0)
• TECH 4820 Current Topics in Technology Management (2.0)
• TECH 497R Independent Study - May select between 1 and 4 credits (1.0)

BA/BS in Integrated Studies 123 CREDITS

The following 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: 18.0
• 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 (3.0)
• TECH 4001 Reliability Engineering and Safety (3.0)
• TECH 4050 Global Ethical and Professional Issues in Technology (3.0)
• TECH 4200 Technology Marketing and Distribution (3.0)
• TECH 4400 Advanced Project Management (3.0)
• TECH 4420 Organization Information Technologies (3.0)
• TECH 4820 Current Topics in Technology Management (2.0)

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

- TECH, Technology Management
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 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)

**BA in Theatre Arts**

120 Credits

**General Education Requirements:** 35 Credits

- ENGL 1101 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)
- HIST 1740 US Economic History (3.0)
- POLS 1009 American Civilization (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 (2020 foreign language course)
- THEA 1013 Introduction to Theatre
- Social/Behavioral Science

**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 II (1.0)
- THEA 2715 Introduction to Writing for the Stage and Screen (3.0)
- THEA 3613 Directing Actors I (3.0)
- THEA 3633 Introduction to Stage and Theatre Management (3.0)

**Elective Requirements:** 3 Credits

- Select any THEA course(s) 1000 level or higher for a total of 3 credits.

**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.

**NOTES**

- **PRODUCTION PARTICIPATION:** THEA 159R and THEA 259R - Production Practicum courses are required for all AS Theatrical Arts majors and theatre scholarship recipients. Credit for these 1-credit, repeatable courses is awarded for crew work completed on UVU Theatrical Arts productions. Students should ideally diversify their crew experiences. Students should enroll for THEA 159R two times for the first 2 semesters and THEA 259R two times for the 3rd and 4th semesters for a maximum of 4 credits toward graduation. Students should contact the course instructor for specifics.
- **PERFORMANCE PARTICIPATION:** All AS Theatrical Arts students are required to attend department auditions at the beginning of each semester. Students who are cast in a production are awarded one credit of THEA 219R - Performance Practicum - per production. Add cards are available in the Theatre Office, FA 705. It is the responsibility of the student to obtain the necessary instructor signature and to return the signed card to the Production Stage Manager or to the Theatre Office.
See the department advisor for further refinements of this track.

Footnotes:
- * See the department advisor for further refinements of this track.

BS in Theatre Arts 120 Credits

General Education Requirements: 35 Credits
- ENGL 1010 Introduction to Writing 3.0
- ENGL 2010 Intermediate Writing—Humanities 3.0
- ENGL 2020 Intermediate Writing—Science and Technology 3.0

Elective Requirements: 30 Credits
- Any courses 1000 or higher, 1 credit must be upper-division

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.

Footnotes:
- * See the department advisor for further refinements of this track.

BS in Theatre Arts Education 120 Credits

Discipline Core Requirements: 55 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 2117 Script and Text Analysis 3.0
- THEA 2311 Introduction to Stage and Theatre Management 3.0
- THEA 497R Professional Topics (1.0)

Design/Technical Area of Study:
- THEA 3203 Costume Construction II (3.0)
- THEA 3223 Makeup II (3.0)
- THEA 3513 Set and Prop Construction and Painting (3.0)
- THEA 3533 Lighting and Sound Design I (3.0)
- THEA 3355 Period Styles for Theatre Design (3.0)
- THEA 4213 Costume Design I (3.0)
- THEA 4513 Sets and Properties Design (3.0)
- THEA 4533 Advanced Lighting Design (3.0)
- THEA 457R Special Projects in Design for Stage and Screen (1.0)

Elective Requirements: 30 Credits
- Any one Foreign Language 15.0
- Any courses 1000 or higher, 1 credit must be upper-division

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.

Footnotes:
- * See the department advisor for further refinements of this track.

General Education Requirements: 36 Credits
- ENGL 1010 Introduction to Writing 3.0
- ENGL 2010 Intermediate Writing—Humanities 3.0
- ENGL 2020 Intermediate Writing—Science and Technology 3.0
- MATH 1050 College Algebra 4.0

Elective Requirements: 30 Credits
- Any courses 1000 or higher, 1 credit must be upper-division

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.

Footnotes:
- * See the department advisor for further refinements of this track.

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 4250 Classroom Management I 1.0
- EDSC 4251 Classroom Management II 1.0
- EDSC 4440 Content Area Reading and Writing 3.0
- EDSC 4450 Multicultural Instruction/ESL 2.0
- EDSC 4550 Secondary Curriculum Instruction and Assessment 4.0
### Theatrical Arts for Stage and Screen

- **EDSC 4850** Student Teaching—Secondary 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 120 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 2513** Introduction to Design for Stage and Screen 3.0
- **THEA 2713** Introduction to Writing for the Stage and Screen 3.0
- **THEA 3613** Directing Actors I (3.0)
- **THEA 3633** Introduction to Stage and Theatre Management 3.0

**Graduation Requirements:**
1. Complete all theatre courses with a grade of C- or better.

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
The School of Continuing Education has specially designed courses and programs to serve non-traditional students through anytime-anyplace learning. Continuing Education offers non-credit education to provide lifelong learning opportunities for the many diverse educational needs of the individual and the community.

**DEAN/ASSISTANT VICE PRESIDENT:**

Pamela J. Gardner
Office: Continuing Education Center
Telephone: 801-863-8779

Assistant Dean, Marketing, Diana Hunter
Office: CE 208
Telephone: 801-863-7427

**PROGRAMS OFFERED**

**Center for Lifelong Learning**
Diana Hunter
Office: Continuing Education Center
Telephone: 801-863-8450

**Non-Credit Registration Center**
Supervisor: Olena Hunt
Office: CE 104
Telephone: 801-863-8399

**Command Spanish ®**
Administrator: Diana Hunter
Office: CE 301
Telephone: 801-863-7429

**Community and Adult Education**
Manager: Diana Hunter
Office: Continuing Education Center
Telephone: 801-863-8012
Website: www.uvu.edu/ce/commed/

**Conferences**
Coordinator: Connie Vincent
Program Coordinators:
Administrative Assistant: Driver Education: Susan Palmer
Office: Continuing Education Center 2
Telephone: 801-863-8485

**Elderhostel**
Coordinator: Gary Nielsen
Program Assistant: Jillana Ahloe
Office: Continuing Education Center 2
Telephone: 801-863-8495

**Utah Valley Elder Quest**
Program Assistant: Jillana Ahloe
Office: Continuing Education Center 2
Telephone: 801-863-8490
School of Continuing and Adult Education

Equity in Education: Training and Resource Center
Director: Sarah Parson
Office: FA 701
Telephone: 801-863-8498
Website: www.uvu.edu/ce/equity

Professional Development
Assistant Dean: Diana Hunter
Coordinator: Louis Allen
Office: CE 211
Telephone: 801-863-7426
Website: www.uvu.edu/ce/training

Turning Point
Director: Carol Verbecky
Assistant Director: Dixie Sevison
Office: MT 116
Telephone: 801-863-7580
Website: www.uvu.edu/ce/turningpoint/

The Wee Care Center
Coordinator: Mary Ellen Larsen
Location: 1140 South 400 West
Telephone: 801-863-7266

Child Care Resource and Referral
Coordinator: Julia Mohr
Office: GB
Telephone: 801-863-8220

Turning Point Women's Resource Center
Coordinator: Peggy Pasin
Office: WB 146r
Telephone: 801-863-8080

USU/UVU Horticulture Program
Program Coordinator/Advisor: Mike Caron
Office: CE 105
Teaching Greenhouse: 935 S. 400 W.
Telephone: 801-863-8042
Continuing and Adult Education

School of Continuing and Adult Education
Dean/Assistant VP: Pamela J. Gardner
Office: CE 205
Telephone: 801-863-8779

Purpose:
The School of Continuing Education has designed courses and programs to provide lifelong educational opportunities for people with diverse educational needs—

- to provide anytime - any place learning.
- to advance their careers by keeping them informed of new developments in their field.
- to enhance the quality of their personal and intellectual lives.
- to offer opportunities for educational travel and the creative enjoyment of leisure time.
- to offer courses via technology regardless of location.

Tuition and Fees:
Tuition and student fees are established by the State Board of Regents for credit bearing courses. Specific information is contained in the “Tuition and Fees” section of this catalog as well as in each semester’s class schedule.

Fees for special courses, workshops and conferences vary, depending on enrollment, location, and special instructional costs. Please consult the current class schedule for detailed information.

Financial Aid:
A varied and comprehensive program of financial aid is available to all students at the University who meet the criteria for financial assistance. For detailed information, please consult the “Financial Aid” section of this catalog.

Courses and Programs:
A large selection of noncredit courses, as well as special seminars, training programs and workshops are offered through Continuing Education. All credit courses are sponsored by the academic departments of the University, and classes are offered in the evening, on weekends, at off-campus centers, through the Internet and on television to meet the special needs of individuals and groups in the community and throughout the State of Utah. Please visit ce.uvsc.edu for detailed information on course offerings, or contact Continuing Education 801-863-8450.

Center for Lifelong Learning:
Diana Hunter
Office: Continuing Education Center
Telephone: 801-863-8450

The mission of the Center for Lifelong Learning is to provide learning opportunities that improve skills and enrich the lives of students of all ages and all walks of life. Such opportunities are provided for children and youth, traditional college-age students, adults including the ever-increasing mature population, and populations with particular needs. Assessing and addressing community wants and needs are a continual priority within each of the Center’s program areas. Excellent program content and skilled management give the Center for Lifelong Learning a first-class reputation throughout the state, region and, in some instances, the nation. The Center for Lifelong Learning continually strives to remain at the forefront of exciting new and ongoing educational programming.

Command Spanish®
Administrator: Diana Hunter
Coordinator: Email: command@uvsc.edu
Office: CE 301
Telephone: 801-863-7429

The School of Continuing Education at Utah Valley University (in Orem, Utah) is Utah’s only Licensed Official Registered Provider of Command Spanish®, the nation’s leading provider of customized Spanish language programs for professionals. Command Spanish® will prepare professionals – from automobile sales to nursing – to work with Spanish-speaking customers and patients.

Professionals who enroll in Command Spanish® classes do not need a prior knowledge of Spanish; learn only the specific Spanish phrases and commands for their jobs. Students retain more Spanish because Command Spanish® courses eliminate tedious and use special learning techniques. Students receive researched textbooks made specifically for the professionals’ work and CDs to review the Spanish as often as needed.

UVU has Command Spanish® trained instructors, who are available to teach classes throughout the state of Utah for businesses, groups or individuals. The non-credit courses vary in length from 8 to 30 hours. Command Spanish® materials and classes are available only through certified providers and instructors and certification requirements are stringent.

Community Education:

UVU/Alpine School District
Community Education Manager:
Diana Hunter
Office: CE 208
Telephone: 801-863-7427

UVU Coordinator: DeLayna Crockett
Office: CE 102
Telephone: 801-863-8010

Office Manager: Sally Menefee
Office: CE 102
Telephone: 801-863-8012

UVU and Alpine School District: A unique and effective partnership exists between UVU and Alpine School District which provides extensive outreach to communities within Utah Valley.

A variety of non-credit courses are offered at several locations throughout the community including UVU main campus, UVU West Education Center, at several school buildings within Alpine School District and at other sites. In addition, classes are available online. Areas of focus include topics in general, vocational, professional, recreational, and avocational education. All subject matter is developed and offered with the needs and interests of the community in mind. Seasonal classes/activities are provided in the fall, winter and summer.

Continuing Education Units (CEUs) are granted for some courses and a transcript is generated for each student. Certificates are given for appropriate courses/activities.

Community Education non-credit classes are advertised in the DISCOVER brochure published by the School of Continuing Education prior to the beginning of each semester. This brochure is distributed by mail. It is also available online on the UVU web site, at the Continuing Education Offices on the Main Campus, at the Education Center at UVU West, and at all public libraries throughout Utah County. For additional information, call 801-863-8012.

Child Care Resource & Referral:
Coordinator: Julia Mohr
Office: GB
Telephone: 801-863-8220

Child Care Resource & Referral’s mission is to improve the lives of children and families by promoting quality child care. To meet this goal, the department assists the community in three primary areas. First, families can contact the department when trying to locate child care providers close to either their work or home. They can also receive assistance in evaluating child care needs as well as gaining information about financial assistance. Second, providers can obtain information about how to start a child care program, quality improvement grants, technical assistance with policies, procedures and other business tips. They can also sign up for training and professional development classes. Third,
Continuing and Adult Education

the department helps to educate businesses about work/life issues, policies and tax benefits, assisting employees with child care needs and educating employers and employees on how to select quality child care.

CONFERENCES
Department Coordinator: Connie Vincent
Driver Education: Susan Palmer
Administrative Assistant: Lindsay Oldroyd
Office: Continuing Education II
1066 South 400 East
Orem, UT
Telephone: 801-863-8894
Website: www.uvu.edu/ce/cw

Conferences is committed to offering workshops and conferences that encompass educational needs and/or career enhancement opportunities. Often these events are held in conjunction with on-campus departments, educational associations or businesses in the community.

DRIVER EDUCATION
Program Coordinator: Susan Palmer
Office: CE 2-1017
Telephone: 801-863-7553
E-mail: dreduc@uvsc.edu
Website: www.uvu.edu/ce/drivered/

The School of Continuing and Adult Education offers intensive adult Driver Education courses that emphasize safe driving practices, understanding the Utah Traffic Code, proper attitude, courtesy, and concern for human life. This course is available not only in a live classroom setting but also on the Internet.

The internet-based portion of this course covers only the classroom instruction. The driving portion of this course will be done in a vehicle with a licensed driver education instructor. The course consists of:

- Accessing the course on the internet
- Completing 9 lessons online
- Viewing 9 CDs containing lesson videos
- Passing 18 quizzes online at 90% or above
- Passing the 100 question Practice Exam online at 80% or above
- Passing the 100 question Final Exam online at 80% or above

Registration is completed online at: www.uvu.edu/ce/drivered

The live Driver Education classes are open entry and students may begin the course each week night. Vehicle sessions are scheduled with each individual student and should be completed within a month. The course consists of:

- 18 classroom hours (nine 2-hour sessions)
- 6 driving hours
- 6 observation hours

Students must successfully complete all of the classroom sessions and driving/observation sessions.

Each student must be at least 15 years and 6 months of age, have verbal and written expertise in the English language, be able to read and understand highway signs, and be able to understand verbal directions in English.

ELDERHOSTEL
Coordinator: Gary Nielsen
Office: Continuing Education II
Telephone: 801-863-8495
Program Assistant: Jillana Ahloe
Telephone: 801-863-8490

Elderhostel is a short-term education/travel program for adults 55 and over who want to expand their horizons and to develop new interests and enthusiasms. It is a non-profit educational organization offering short-term academic programs hosted by educational institutions around the world. The Center for Lifelong Learning offers Elderhostel programs on campus, at Park City, Vernal, Delta and Salt Lake City with a new concept program entitled “Sample Utah.” “Sample Utah” provides a historical and geological exploration as the students move from site to site exploring Utah history, geology and cultures. Intergenerational (2 and 3 generation) programs are held throughout each summer for parents, children, and grandchildren to enjoy the spectacular beauty and outdoor adventures that Utah offers. UVU Elderhostel hosts over 35 programs per year with active outdoor activities and fascinating evening courses.

ELDER QUEST
Program Assistant: Jillana Ahloe
Telephone: 801-863-8490

Utah Valley State Elder Quest was organized in 1992 and offers a wide range of college level academic courses, field trips, and community service opportunities. Elder Quest sponsors concerts and operates an environmental monitoring project collaboration with Utah State University. Utah Valley University Elder Quest reaches out to all seniors in Utah County.

EQUITY IN EDUCATION: TRAINING AND RESOURCE CENTER
Director: Sarah Parson
Office: FA 701
Telephone: 801-863-8498
Website: www.uvu.edu/ce/equity/
Mission Statement: The Equity in Opportunity Training and Resource Center was established to 1) promote inclusion, tolerance and respect for diversity in Utah classrooms, work environments, and communities and to 2) assist Utah’s workforce and future workforce in becoming economically self-sufficient through knowledge of opportunities and positive decision-making. The Equity Center does not discriminate on the basis of race, color, national origin, age, sex or disability.

The Equity Center serves as a training and resource center for the community, secondary school districts and post-secondary schools in Utah. The Equity Center offers nationally recognized MECCA (Making Equity Count for Classroom Achievement) workshops and training materials covering a wide range of topics impacting issues in education and employment. The topics covered include: 1) fairness does not mean sameness—focusing on evaluating and shifting paradigms to recognize and address personal biases, 2) bias as a pattern hurts—builds empathy while identifying unconscious biases, 3) classroom teacher/student interaction—identifies interaction patterns and evaluates classroom practices while identifying essential skills for the future workforce, 4) equity and language analyzes language and its impact on individuals and attitudes, 5) communication and humor—illustrates effective methods of communicating and working through conflict, 6) achievement issues—helping all students to learn and ask their own questions, 7) critical thinking and integration—encourages the development of higher-order thinking and connects, 8) media and stereotyping—examines the impacts of media messages on students and provides skills to critically analyze the media, 9) cultural diversity—examines the origins of prejudice and builds understanding to enable individuals to function effectively with others different from themselves, 10) preparation for the future, 11) sexual harassment, bullying, and other violence issues—presents strategies to prevent and address these issues and 12) partnership and working together—analyzes common barriers and models skills to encourage cooperation among students and co-workers.

The Equity Center also houses a free resource library available to the public. The resources include videos, a collection of books, newsletters, posters, brochures and hand-outs dealing with a variety of issues impacting and developing an understanding of equity concerns (as outlined in the training topics.)

PROFESSIONAL DEVELOPMENT
Assistant Dean: Diana Hunter
Coordinator: Louis Allen
Office: CE 211
Telephone: 801-863-7426

Professional Development provides courses and seminars for the talent-force including career training, certifications, and job upgrading to meet individual needs, support the community, and boost economic development of the area.
COURSES INCLUDE:

Health Care Professional Programs
In partnership with Condensed Curriculum International, Inc. (CCI) a variety of health care professional training programs are available to prepare individuals for specific careers including any applicable certification tests required for practice or licensing. Available courses include Pharmacy Technician Certification, EKG Technician, Phlebotomy Technician, Medical Billing & Coding, Medical Administrative Assistant, Medical Terminology, Physical Therapy Aide, Dental Assisting, Dialysis Technician, Home Health Aide, and Physician Office Administration.

Human Resource Certification
The School of Continuing Education is a partner with the Society of Human Resource Management (SHRM) and is authorized to offer SHRM Learning System(R) and SHRM Global Learning System(R) courses for Human Resource professionals. The SHRM(R) human resource preparation program consistently has the highest national HR exam pass rates. Authorized courses offered include Professional in Human Resources(R) (PHR®), Senior Professional in Human Resources (R)(SPHR®), and Global Professional in Human Resources(R) (GPHR) certification.

Personal Training Certification
In partnership with World Instructor Training Schools, Personal Training Certification teaches individuals how to get in shape and help others fulfill their fitness goals with hands-on, practical teaching and lecture to prepare individuals to take the personal trainer certification exam and work 1-on-1 with clients.

Anytime-anywhere Learning
The School of Continuing Education will develop a private course or seminar for businesses or individuals upon request.

TURNING POINT/CENTER FOR THE STUDY OF PERSONAL AND PROFESSIONAL DEVELOPMENT
Director: Carol Verbecky
Office: MT 116
987 South Geneva Rd.
Telephone: 801-863-7580

The Turning Point/Center for the Study of Personal and Professional Development is a resource for individuals who want to improve on a personal and/or professional level. Turning Point is dedicated to delivering quality services that increase the emotional, social, educational and economic well-being of the participants. Some participants may qualify for services at little or no cost. Individuals who can benefit from the program include:

- Low-income families, single parents, dislocated workers, displaced homemakers, educationally disadvantaged or economically disadvantaged.
- Individuals who are making education or career decisions.
- Those who are re-entering the workforce after a long absence or who are retraining for new positions.
- Individuals and couples wanting to increase communication skills and enhance relationships.
- Those wanting to improve their responses to anger.
- Those adjusting to marriage or divorce.

Services include:
- Assessment/Remediation
- Educational/Career Information
- GED
- Financial Resources for Training/Education
- Inter-Agency Referrals
- Personal Counseling/Therapy
- Job-Seeking Information
- Resume/Application Assistance
- Scholarships
- Supportive Services/Daycare
- Professional Clothing Source

CLASSES INCLUDE:

Personal Development
Based on assertiveness skills, participants learn about communication styles, listening skills, body language, centering, personal empowerment, conflict resolution, negotiation skills and creating loving relationships.

Professional Development
Professional Development is for the individual seeking information about education or employment opportunities. The curriculum focuses on understanding personal strengths and abilities, the current labor market and specific job-seeking skills. Topics covered include transitional skills, networking, informational interviewing, resume writing, interviewing techniques, non-traditional jobs, sexual harassment, dress for success, etc.

Successful Life Management
Successful Life Management is a class that combines both personal and professional development. It is designed to help participants improve both communication and job-seeking skills. The class is taught in a relaxed, informal atmosphere.

Continuing and Adult Education

Anger Management
Increased rates of abuse in the community led to the development of the Anger Management curriculum. The course focuses on understanding what triggers anger and appropriate methods of resolving conflict. The class combines lecture, experiential learning and practical application. Time is given in class for participants to practice newly acquired skills.

Marriage Workshop
This workshop is taught on a quarterly basis and is designed specifically for couples who want to learn to communicate effectively. The class involves both learning theory and practical application and is facilitated by well-trained instructors. The course is offered to anyone planning on getting married and for married couples who want to learn to communicate effectively.

Managing Life’s Transitions
Designed to help those who are adjusting to the challenges of new life circumstances, such as divorce or the death of a spouse, this class covers topics such as forgiveness, setting and maintaining boundaries, problem solving, understanding the child’s divorce experience, redefining roles, readjusting to life, and is designed specifically for couples who are adjusting to the challenges of new life circumstances. The class is offered on a quarterly basis and is designed specifically for couples who want to learn to communicate effectively.

ADDITIONAL TURNING POINT SERVICES:

Wee Care Childcare Center
Coordinator: Mary Ellen Larsen
Office: Wee Care Center
1140 S 400 W
Orem, UT
Telephone: 801-863-7266

The Wee Care Center is designed to meet the childcare needs of student parents. Children may receive care during the hours their parent attends UVU, MATC or Turning Point classes. First priority is given to those who are low-income single parents, and all services are based on a sliding scale. Quality care is provided to children ages six weeks to twelve years.

Turning Point Women’s Resource Center
Coordinator: Peggy Pasin
Office: WB 146f
Telephone: 801-863-8080

The Turning Point Women’s Resource Center provides student support to both women and men seeking a UVU education. An on-site coordinator provides advocacy, mentoring, scholarship information, tutoring information and community referrals to those in need.

Adult School to Careers
Turning Point also provides services to non-traditional adult students who are either non-high school graduates, self-supporting youths not in school, limited English-speaking adults or unemployed or underemployed adults with limited
training. This portion of the program, known as School-to-Careers, offers a variety of services such as comprehensive assessment of personal, educational and career needs, educational and occupational counseling, appropriate level educational placement services, high school completion and GED preparation, work-based learning experiences and coordination of local resources.

USU/UVU HORTICULTURE PROGRAM

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

The USU/UVU Horticulture Program is a partnership between Utah State University and Utah Valley University. Horticulture is the study of plant culture and their practical application and use in indoor and outdoor environments. Courses in Plant Science (Horticulture) are offered through USU on the UVU campus and surrounding area. 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 the Associate degree program, the horticulture classes are offered on a two-year rotating basis. All approved classes taken for the AAS degree will also count toward a Bachelor of Science degree. Class registrations are done through a local USU Registration Center, not through the UVU registration system. It is not necessary to be admitted to USU to begin taking the Horticulture classes, but students should apply for admission as soon as possible to facilitate advising, financial aid and graduation. It is anticipated that UVU students can earn the USU AAS in Horticulture while also working on their Bachelors degree from UVU, with adequate planning.

Horticulture in Utah is a billion-dollar industry with jobs available in many areas, including retail nurseries, golf course/turf management, floral shops, greenhouse production, and indoor/outdoor landscape maintenance and design. Many entrepreneurial opportunities also exist for those who desire business ownership.

Degree Requirements:
- One-Year Certificate (27 credits). The 27 credits are distributed as follows:
  - PLSC 2600 and 2620* - 4.5
  - Core Classes - 18.5-20
  - Courses selected from Approved Electives - 3-5
- Associate in Applied Science Degree (60 credits). The 60 credits are distributed as follows:
  - University Studies Requirements - 15 credits including:
    - 6 credits from ENGL WC 1010 and 2010, 6 credits Breadth Social Sciences/ Humanities/American Institutions
  - OR Fine Arts - 3 credits Breadth Life Sciences OR Physical Sciences
  - Professional Requirement (45 credits)
    - Core Courses 35-38
    - Courses Selected from Approved Electives (USU or UVU) 7 - 10
    - Core Courses 35-38 credits* indicates a required class
    - BIS 1400 Microcomputer Application in Business 3 (OSS 1400)
    - PSB 1050 Horticulture Orientation 1
    - PLSC 2100 BLS Introduction to Horticulture 3
    - PLSC 2200 Pest Management 3
    - PLSC 2250 Occupational Experience in Horticulture 1-4
    - PLSC 2600 Annual & Perennial Plants* 1.5
    - PLSC 2620 Woody Plant Materials* 3
    - PLSC 2650 Identification of Plants in Production Agriculture 1
    - PLSC 3050 Greenhouse Management and Crop Production 4
    - PLSC 3300 Residential Landscapes 3
    - PLSC 3400 Sustainable Landscapes 3
    - PLSC 3700 Plant Propagation 4
    - PLSC 3800 Turfgrass Management 3
    - USU Approved Electives (Or Other Electives as Approved by Advisor) 7 - 10 credits
    - PLSC 2900 Special Problems in Horticulture 1-4
  - SOIL 3000 Fundamental Soil Science 4
  - PLSC 4500 Fruit Production 4

USU/UVU HORTICULTURE CLASSES

Go to www.uvu.edu/ce/horticulture to view the class schedule.

Course Descriptions:

PSB 1050 HORTICULTURE ORIENTATION
Orientation to the teaching, research, and extension programs of the department, and to career opportunities. Optional orientation to a specific major: Horticulture, Crop Science, or Environmental Soil/Water Science. (1 credit, F)

PLSC 2100 INTRODUCTION TO HORTICULTURE (BLS)
An introductory course covering, in brief, the major divisions in the horticulture industry. Also covers the scientific basis of gardening, landscape, plant anatomy and biology, soils, pruning, planting, and horticulture technology. (3 credits, F)

PLSC 2200 PEST MANAGEMENT PRINCIPLES AND PRACTICES
Overview of pest control considerations, procedures, and principles. Topics include integrated pest management, organic and chemical pest control, environmental considerations, safety, life cycles of pests, and commercial pesticide licensing. (3 credits, Sp).

PLSC 2250 OCCUPATIONAL EXPERIENCE IN HORTICULTURE
Provides credit for on-the-job training in agronomic or horticultural industries. (1-4 credits, F, Sp, Su). Students must contact program coordinator. Call 801-863-8042

PLSC 2600 ANNUAL AND PERENNIAL

PLANT MATERIALS

Identification, culture, and utilization of herbaceous ornamental plants in the landscape, including annual and perennial flowering plants, herbaceous ground covers, ornamental grasses, bulbous plants, and herbs. (1.5 credits, SU).

PLSC 2620 WOODY PLANT MATERIALS: TREES AND SHRUBS FOR THE LANDSCAPE
Identification, culture, and utilization of woody ornamental plants in the landscape, including shade trees, flowering trees and shrubs, hedge plants, and vines. Review of native plants commonly used in the landscape. (3 credits, F).

PLSC 2650 IDENTIFICATION AND SELECTION OF PLANTS IN PRODUCTION AGRICULTURE
Identification of plants important in horticulture and agronomy. Morphological features making them useful for various agricultural purposes. (1 credit, F)

PLSC 2900 SPECIAL PROBLEMS IN PLANT SCIENCE
Student-SELECTED practical problems in horticulture and/or agronomy. Some specialized classes will also be offered under this section. (1-4 credits, F, Sp. Su)

PLSC 3050 GREENHOUSE MANAGEMENT AND CROP PRODUCTION
Design and management of commercial greenhouse facilities. Production requirements of primary greenhouse crops (4 credits, Sp).

PLSC 3300 RESIDENTIAL LANDSCAPES
Functional and aesthetic relationships of plants and structures in the landscape in connection with installation considerations. (3 credits, Sp). Prerequisite: PLSC 2620 or advisor permission. Michael Caron 801-863-8042.

PLSC 3400 SUSTAINABLE LANDSCAPES
Interaction of expectations, maintenance needs, cost/benefit analysis, physiology and ecology in managing landscapes on a sustainable basis. (3 credits Sp). recommended (but not essential) prerequisite: PLSC 2620.

PLSC 3700 PLANT PROPAGATION (Biology & Application of Plant Propagation)
Propagation of plants by sexual and asexual means. Covers fundamental physiology of propagation, as well as cultural practices and techniques used in plant science (4 credits, F). PLSC 2100 or College Biology for Science Majors is a prerequisite.

PLSC 3800 TURFGRASS MANAGEMENT
Fundamentals of turfgrass science: species adaptation, identification, and cultural requirements; turfgrass growth and development; establishment; primary cultural practices (fertilization, irrigation, mowing); secondary cultural practices; pest management; integrated management planning for turfgrass systems. (3 credits, F)

SOIL 3000 FUNDAMENTALS OF SOIL SCIENCE
Fundamentals of soil science, emphasizing physical, chemical, mineralogical, and biological
properties of soils, and how these properties relate to plant growth and environmental quality. (4 credits, Sp). Chem 1110 is a prerequisite or advisor permission. Michael Caron 801-863-8042

- PLSC, Plant Science
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<td>ZOOL</td>
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</table>
The following descriptions may include other important information regarding each course, such as: general education (GE) code, terms offered (Su=Summer, F=Fall, Sp=Spring), or pre- and/or corequisite requirements. Courses marked with a double asterisk (**) indicate an honors course is available. Some sections of courses marked with a dagger (†) may be applied toward Service Learning credit (see the Student Services section of the catalog for more information).

This sample course is modeled after an actual course, but has been modified for demonstration purposes.

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
General Psychology
3:3:0

Cross-listed with SOC 1010

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.

Course that is cross-listed with the described course.

Indicates that an honors course is available.

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:

- American Institutions
- Biology
- English Composition
- Fitness for Life
- Fine Arts
- Humanities
- Ethics and Values
- Foreign Language
- Mathematics
- Physical Science
- Social Science
- Personal Health
- Must be taken with another course to equal FF (see department)

In addition to the courses listed above, the courses listed below also fulfill the minimum requirements in general education for the Associate in Applied Science Degree:

- Biology
- English Composition
- Health or Physical Education
- Fine Arts
- Humanities
- Mathematics
- Physical Science
- Social Science

The "G" coding also identifies courses which count as general education electives for the Associate in Arts/Science Degrees or Bachelor of Arts/Science Degrees.

Distance Education Course

Terms this course may be offered:
Su - Summer
F - Fall
Sp - Spring

General Education Distribution Course
Course Descriptions

ACC—ACCOUNTING

ACC 1150 Fundamentals of Business Math
3:3:0 F, Sp; DE
- 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): ENGH 0990, CLSS 0900, and (MAT 0990 or ACC 1150)
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; DE
- Prerequisite(s): ENGH 0990, CLSS 0900, and MAT 0990 or equivalent
- 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 2510 Managerial Accounting
3:3:0 Su, F, Sp; DE
- Prerequisite(s): ACC 2010
Covers methods and tools of generating information for decision making by managers within an organization. Includes determining the cost of products, services, and segments within the organization (job order and process costing, activity-based costing, and cost allocation), the planning role of management (cost behavior, cost-volume-profit analysis, short-term budgeting, and long-term/capital budgeting), the control function of management (responsibility accounting, performance measurement and evaluation, and variance analysis), and current issues in management accounting. Integrates management decision making throughout the course.

ACC 2610 Accounting Systems Applications
3:3:0 Su, F, Sp; DE
- 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 281R Cooperative Work Experience
2 to 8:0:10 to 40 Su, F, Sp
- Prerequisite(s): Approval of Woodbury School of Business Career and Corporate Manager
Corequisite(s): MGMT 2250 or MGMT 4250 if first time
Designed for accounting majors to provide on-the-job work experience that will utilize the student's skills and abilities in the field of accounting. Requires a portfolio of acquired work experience and enhanced skills. Includes student, employer, and coordinator evaluations; on-site coordinator visits; written assignments; and oral presentations. Provides experience in formulating and completing individualized work experience objectives.

ACC 3000 Financial Managerial and Cost Accounting Concepts
4:4:0 Su, F, Sp; DE
- Prerequisite(s): ENGL 2010 or ENGL 2020 and MAT 1010 or higher
Provides 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 and ACC 2020
Includes the conceptual framework of accounting; review of the accounting process; review of accounting statements including the income statement, balance sheet, and statement of cash flows; in-depth coverage of operating activities, financing activities, and investing activities.

ACC 3020 Intermediate Accounting II
3:3:0 Su, F, Sp
- Prerequisite(s): ACC 3010
Includes revenue recognition, long-term assets, accounting for leases, deferred income taxes, employee compensation (payroll and pensions), contingencies, earnings per share, accounting changes and error corrections, and analysis of financial statements.

ACC 3030 Cost Management
3:3:0 Su, F, Sp
- Prerequisite(s): ACC 2020
Provides a strategic approach to cost management and illustrates how accounting adds value to an organization. Provides training in determining the cost of products, organization segments, and customers. Costing techniques include job order and process costing, activity-based costing, joint-product costing, and cost allocation. Studies how costs are used for decision-making purposes.

ACC 3400 Individual Income Tax
3:3:0 Su, F, Sp; DE
- Prerequisite(s): ACC 2010
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; DE
- Prerequisite(s): Instructor Approval
Students learn to use tax preparation software to prepare federal and state income tax returns. Module selections are available to learn to prepare individual income tax returns that vary from the simple 1040EZ to complex individual tax returns with multiple forms. Students may also learn to prepare income tax returns for corporations, partnerships, trusts, gifts, and estates. This course may be taken multiple times. May apply a maximum of 3 credits toward graduation. Will be graded credit/no credit.

ACC 3510 Accounting Information Systems
3:3:0 Su, F, Sp
- Prerequisite(s): ACC 3010 and DGM 2010 or business computer proficiency exam
Teaches analysis design and implementation of accounting information systems. Emphasizes accounting cycles, internal controls, and computerized environments.

ACC 4020 Advanced Financial Accounting
3:3:0 Su, F, Sp
- Prerequisite(s): ACC 3020 and Matriculation into the Bachelor's Degree Program
Presents accounting concepts and methods for business combinations, foreign currency transactions, foreign state translation, and partnerships.

ACC 4030 Governmental and Not-For-Profit Accounting
3:3:0 Su, F, Sp
- Prerequisite(s): ACC 3010 and Advanced Standing in the BS Accounting degree program
Covers areas of governmental and not-for-profit accounting and reporting. Includes fund accounting, the budgetary process, governmental financial reporting, not-for-profit organizations, health care organizations, colleges and universities, and public sector auditing.

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ACC 4110
Auditing
3:3:0  Su, F, Sp
Prerequisite(s): ACC 3010 and ACC 3300 and Advanced Standing in the BS Accounting degree program
Teaches auditing concepts and procedures covering examination of financial statements, internal control, disclosure, statistical sampling concepts, and EDP auditing techniques.

ACC 4350
Management Control
3:3:0  Sp
Prerequisite(s): ACC 2020 and Advanced Standing in the BS Accounting or Management degree program
Covers the management control environment and the structure of management control systems (responsibility center, transfer pricing, and measuring/controlling assets). Addresses the management control process (strategic planning, budgeting, performance measurement and analyzing operational and financial performance, and management compensation). Discusses variations in management control (controls for differentiated strategies, service organizations, and multinational organizations).

ACC 4400
Taxation of Corporations/Partnerships/Estates and Trusts
3:3:0  Su, F, Sp; DE
Prerequisite(s): ACC 3400 and Matriculation into the Bachelor’s Degree Program
For accounting majors and other business students. Studies federal and state taxation of corporations, S-corporations, partnerships, estates, and trusts. Teaches practical application of income tax laws and regulations. Researches source of tax law through the use of electronic medium. Uses computers for preparation of tax returns. Successful completers should be qualified to prepare federal and state tax returns for small businesses, estates, and trusts.

ACC 4420
Corporate Tax
3:3:0  F, Sp
Prerequisite(s): ACC 3400
Covers accounting theory and practices of the federal income taxation laws, rules and regulations relating to the formation and operation of corporations and S corporations, and their effects upon the corporation’s shareholders.

ACC 4440
Partnership Tax
3:3:0  Sp
Prerequisite(s): ACC 3400
Covers accounting theory and practices of the federal income taxation laws, rules and regulations relating to the formation and operation of partnerships, and their effects upon partners.

ACC 4410
Tax Research
3:3:0
Prerequisite(s): ACC 3400
Studies theory and practice of tax research as it applies to federal income taxation laws, rules and regulations. Applies ethical considerations and standards to tax practice. Emphasizes computerized tax research techniques which will be explored through cases dealing with administrative aspects of the IRS, court cases, client communications and a wide variety of tax topics.

ACC 4460
Estate and Gift Tax
3:3:0  Prerequisite(s): ACC 3400
Teaches the law and theory of federal taxation of estates and gifts based on a study of the sources of the law including the code, regulations, and digest of official income tax decisions.

ACC 4510
Advanced Accounting Information Systems
3:3:0  On Sufficient Demand
Prerequisite(s): ACC 3510 and Matriculation into the Bachelor’s Degree Program
Focuses on the integration of database design skills and accounting information systems design skills. Covers designing database systems to track accounting transactions through the various transaction cycles. Includes internal control design, fraud detection, and computerized auditing. Project-based course.

ACC 470R
Current Topics in Accounting
1 to 3:1 to 3:0  On Sufficient Demand
Prerequisite(s): Department Chair approval
Course varies from semester to semester. Provides opportunities for students to become exposed to emerging technology and topics of current interest and demand in Accounting. Repeatable for a maximum of 3 credits toward graduation.

ACC 4800 (Cross-listed with LEGL 4800)
FRAUD EXAMINATION
3.0 : 3.0 : 0.0  F
Prerequisite(s): ACC 2010 and ACC 2020
Introduces accounting and business students to the seriousness of fraud and its impact on business and society. Examines the elements of fraud, detection, prevention, and resolution.

ACC 481R
Internship
2 to 8:0 to 10:40  Su, F, Sp
Prerequisite(s): Approval of Woodbury School of Business Career and Corporate Manager
For upper-division students in accounting. Provides a transition from school to work where learned theory is applied to actual practice through meaningful on-the-job paid experience commensurate with upper-division classroom instruction. Includes student, employer, and coordinator evaluations, on-site work visits, written assignments, and oral presentations. Completers should obtain experience in establishing and accomplishing individualized work objectives that improve work performance.

ACC 4870
International Accounting
3:3:0  On Sufficient Demand
Prerequisite(s): ACC 3020, all international business courses, Senior standing and Matriculation into Business Management degree program
For accounting majors and other interested students. Examines accounting functions from an international perspective. Focuses on flow of information in multiple currencies, complying with reporting requirements in the U.S. and abroad. Studies setting budgets and monitoring performance and controlling the use of corporate assets through reports and audits. Successful completers should have a thorough knowledge of organizational structure and services provided by large public accounting firms with international clients.

ACC 4880
Accounting Policy
3:3:0  On Sufficient Demand
Prerequisite(s): ACC 3020 and ACC 3300
A capstone course for accounting majors. Integrates economics, finance and management, financial accounting and reporting, analysis and behavior issues, operational auditing/internal control, research (FASB), and decision analysis, and information systems. Prepares students for the dynamic role that management accountants and financial managers play in business, public, and governmental accounting.

ACC 4890
CMA Review
3:3:0  On Sufficient Demand
Prerequisite(s): ACC 3020 and ACC 3300

ACC 490R
Accounting Seminar
1 to 3:1 to 3:0 to 9  On Sufficient Demand
Prerequisite(s): Department Chair approval
Designed to provide short courses, workshops, and special programs on accounting-related topics. Repeatable up to 3 credits toward graduation.

ACC 491R
Independent Study
1 to 4:0 to 4:0 to 12  On Sufficient Demand
Prerequisite(s): Department Chair approval
For bachelor’s degree students and other interested persons. Offers independent study as directed in reading, individual projects, etc., at the discretion and approval of the department chairperson. Repeatable up to three credits toward graduation.

ACRT—AIR CONDITIONING AND REFRIGERATION TECHNOLOGY

ACRT 1000
Survey of Air Conditioning and Refrigeration
1:1:0  Not 08-09
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.
Course Descriptions

ACRT 1110 Refrigeration I
10:5:15   Not 08-09
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 08-09
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 111B Refrigeration I
5:2.5:7.5   Not 08-09
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 08-09

ACRT 1210 Refrigeration II
9:4:15   Not 08-09
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 08-09
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 08-09
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 08-09
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   F, Sp
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 2200 Motors—Controls and Wiring Diagrams
5:5:0   Not 08-09
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. Emphasizes safety practices. Should be taken concurrently with ACRT 2310.

ACRT 2330 Sheet Metal Layout
1:0:3   Not 08-09
For heating, ventilation, and air conditioning students. Includes hands-on experience in layout, fabrication, and assembly of sheet metal ducts.

ACRT 2340 Commercial Refrigeration Theory
4:4:0   Not 08-09
- Prerequisite(s): ACRT 1110, ACRT 1210 or equivalent
For third semester Air Conditioning and Refrigeration Technology majors and those interested in upgrading commercial refrigeration knowledge and or skills. Covers various types of current commercial refrigeration systems and controls. Includes theory of installing, operating, servicing, and troubleshooting equipment. Emphasizes electrical and electronic controls that are used on these systems.

ACRT 234L Commercial Refrigeration Lab
5:0:15   Not 08-09
- Prerequisite(s): ACRT 1110, ACRT 1210 or equivalent
Lab class for third semester Air Conditioning and Refrigeration Technology majors and those interested in upgrading commercial refrigeration skills. Covers various types of current commercial refrigeration systems and controls. Includes lab hands-on experience with installing, operating, servicing, and troubleshooting equipment. Emphasizes electrical and electronic controls that are used on these systems.

ACRT 2420 Heating and Air Conditioning Controls
5:0:0   Not 08-09
- 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 08-09
- 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 08-09
- 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 on hands-on troubleshooting electrical
and mechanical problems. Lab activities cover start-up, preventative maintenance, service, repair, and installation of gas systems, heat pumps, and electric heat for residential and light commercial applications. With departmental approval, students may be eligible for cooperative work experience or an internship opportunity as another method of earning lab credit.

ACRT 281R Cooperative Work Experience 1 to 8:0:5 to 40 Not 08-09
- Corequisite(s): ACRT 285R the first time only
For Air Conditioning and Refrigeration Technology majors. Provides paid, on-the-job work experience in the student’s major. Work experience, the correlated class and enrollment are coordinated by the Cooperative Coordinator. Includes student, employer, and coordinator evaluation, on-site work visits, written assignments, and oral presentations. Provides experience in writing and completing individualized work objectives that improve present work performance.

ACRT 285R Cooperative Correlated Class 1:1:0 Not 08-09
- Corequisite(s): ACRT 281R the first time only
For Air Conditioning and Refrigeration 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. Completes should be better able to perform in their field of work or study.

ACRT 299R SkillsUSA 1:1:0 Not 08-09
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 trouble shooting and diagnostic training and experience.

AER—AEROSPACE SCIENCE

AERO 1000 Leadership Laboratory 1A 0.5:0:2 F
Studies basic fundamentals of military leadership: drill, courtesy, planning, and organizing at various levels of responsibility.

AERO 1010 Leadership Laboratory 1B 0.5:0:2 Sp
Studies basic fundamentals of military leadership: drill, courtesy, planning, and organizing at various levels of responsibility.

AERO 1100 The Air Force Today 1:1:0 F
- Corequisite(s): AERO 1000
Teaches development, organization, and doctrine of the U.S. Air Force. Emphasizes Strategic Force requirements.

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<th>Course Title</th>
<th>Credits</th>
<th>Notes</th>
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<td>Aerospace Defense General Purpose and Support Forces 1:1:0</td>
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<td>AERO 143R</td>
<td>Air Force Physical Training 0.5:0:2</td>
<td>F, Sp</td>
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<td>AERO 2000</td>
<td>Leadership Laboratory 2A 0.5:0:2</td>
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<td>AERO 2100</td>
<td>The Developmental Growth of Air Power–A 1:1:0</td>
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<td>AERO 2110</td>
<td>The Development and Growth of Air Power–B 1:1:0</td>
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<td>AERO 3000</td>
<td>Leadership Laboratory 3A 0.5:0:2</td>
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<td>AERO 305R</td>
<td>Leadership Laboratory Honor Guard 1:0:3</td>
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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 339R Academic Internship–Leadership Intern Program 4:0:8 Su
- 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
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
Studies the military profession, civil-military interaction, and the forming of defense strategy.

AERO 4110 National Security Affairs–B 3:3:0 Sp
Studies the military profession, civil-military interaction, and the forming of defense strategy.
## Course Descriptions

### AMST—American Studies

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<th>Title</th>
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<td>Introduction to American Studies</td>
<td>3:3:0</td>
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<td>AMST 300R</td>
<td>Topics in American Studies</td>
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### ANTH—Anthropology

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<td>ANTH 101G</td>
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<td>3:3:0</td>
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<td>ANTH 1020</td>
<td>Biological Anthropology</td>
<td>3:3:0</td>
<td>F</td>
<td>-</td>
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<tr>
<td>ANTH 1030</td>
<td>World Prehistory</td>
<td>3:3:0</td>
<td>F</td>
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<tr>
<td>ANTH 107G</td>
<td>Multicultural Societies</td>
<td>3:3:0</td>
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<tr>
<td>ANTH 180G</td>
<td>Introduction to American Indian Studies</td>
<td>3:3:0</td>
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<tr>
<td>ANTH 275R</td>
<td>Survey of Current Topics</td>
<td>3:3:0</td>
<td>On Sufficient Demand</td>
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<td>ANTH 3000</td>
<td>Language and Culture</td>
<td>3:3:0</td>
<td>Sp</td>
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<tr>
<td>ANTH 3100</td>
<td>Anthropology of Gender and Sexuality</td>
<td>3:3:0</td>
<td>F</td>
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<tr>
<td>ANTH 3130</td>
<td>Gender and Biomedicine</td>
<td>3:3:0</td>
<td>On Sufficient Demand</td>
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<tr>
<td>ANTH 3150</td>
<td>Culture Ecology and Health</td>
<td>3:3:0</td>
<td>Sp</td>
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<tr>
<td>ANTH 3200</td>
<td>Anthropology of Food</td>
<td>3:3:0</td>
<td>On Sufficient Demand</td>
<td>-</td>
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<tr>
<td>ANTH 3220</td>
<td>Women Food and the Body</td>
<td>3:3:0</td>
<td>On Sufficient Demand</td>
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<tr>
<td>ANTH 3300</td>
<td>Development and Rural Societies</td>
<td>3:3:0</td>
<td>On Sufficient Demand</td>
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<tr>
<td>ANTH 3400</td>
<td>Myth Magic and Religion</td>
<td>3:3:0</td>
<td>Sp</td>
<td>-</td>
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<tr>
<td>ANTH 3450</td>
<td>Shamanism and Indigenous Religion</td>
<td>3:3:0</td>
<td>On Sufficient Demand</td>
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For additional information, students should consult the university's catalog or course catalog online.
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.

**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.

**Anthropology of Shamanism**
3:3:0  On Sufficient Demand
- Prerequisite(s): ANTH 101G and (ENGL 2010 or ENGL 2020)
Develops classical theoretical positions on representation, meaning, discourse, poetics, and performance of culture and their implications for scientific epistemology and methodology. Also surveys recent work by anthropologists in a range of settings responding to questions raised by these concerns.

**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 times to the present. Explores the development of aspects of modern evolutionary theory, effects of cultural contexts, and both scientific and public controversies.

**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.

**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.

**Anthropology and Health**
3:3:0  On Sufficient Demand
- Prerequisite(s): ANTH 101G 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.

**Applied Anthropology**
3:3:0  On Sufficient Demand
- Prerequisite(s): ANTH 101G and (ENGL 2010 or ENGL 2020)
Presents selected topic in Anthropology and will vary each semester. Requires a project demonstrating competency in the specific topic. May be repeated three times with different topics.

**Ethnographic Methods**
3:3:0  F
- Prerequisite(s): ANTH 101G and (ENGL 2010 or ENGL 2020) and (PSY 3010 or SOC 3010)
Teaches qualitative research design and execution using ethnographic techniques. Includes the development and practice of person-centered interviewing, observational techniques, field research, focus groups, and case studies. Analyzes past and present ethnographic literature, and the writing and presentation of research results. Students construct, carry out and professionally present an original research project. Develops skills in problem-solving, thinking analytically, interacting with people different from oneself, reading critically and writing effectively.

**Independent Studies**
1 to 3:1 to 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.

**APPAR—APPRENTICE**

**APPAR 1110**  
**Sheet Metal 1A**  
6:0:0  
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 constructs sheet metal seams to blueprint specification.

**APPAR 1120**  
**Sheet Metal 1B**  
6:0:0  
Introduces parallel line, radial line, and triangulation layout methods. Addresses layout and fabrication of basic sheet metal duct system fitting to blueprint specifications. Introduces field installation practices, emergency procedures, and hazardous communication.

**APPAR 1210**  
**Sheet Metal 2A**  
6:0:0  
- Prerequisite(s): APPAR 1120  
Teaches the basics of bidding jobs and job costing, making pictorial drawings and free hand sketches. Features building intermediate duct system fittings to blueprint specifications. Introduces architectural sheet metal work and roof drainage systems.

**APPAR 1220**  
**Sheet Metal 2B**  
6:0:0  
- Prerequisite(s): APPAR 1120  
Teaches construction and installation of louvers and ventilators, selection and installation of duct hangers and anchor, selection and installation of fire and smoke dampers and introduction to computer operations.

**APPAR 1300**  
**Apprentice Math**  
3:0:0  
- Prerequisite(s): APPAR 140  
For apprentices. Covers math used in apprentice trades. Teaches fractions, decimals, percents, interest, volume and metric. Studies special trade formulas.

**APPAR 1410**  
**Plumbing Independent 1A**  
5:0:0  
- Prerequisite(s): APPAR 1410  
For plumbing apprentices. Introduces plumbing definitions, Uniform Plumbing Code chapters 1, 2, and 3, mathematics for plumbers. Studies installation practices and IAPMO standards, related science, pipe threading, and mechanical piping systems.

**APPAR 1420**  
**Plumbing Independent 1B**  
5:0:0  
- Prerequisite(s): APPAR 1410  
For plumbing apprentices. Covers Uniform Plumbing Code as it relates to fixtures, faucets, valves, overflows, strainers, connections, floor drains, whirlpool bathtubs, cast-iron soil, drainage, glass, clay and concrete pipe. Studies basic emergency and first aid, solder and brazed joint, copper pipe, caulked joint, mathematics units 7-16 and blue print reading.

**APPAR 1430**  
**Plumbing Independent 2A**  
5:0:0  
- Prerequisite(s): APPAR 1420  
For plumbing apprentices. Covers Uniform Plumbing Code chapters 5 and 6, Appendix A-recommended rules for sizing water supply system, mathematics and backflow prevention.

**APPAR 1440**  
**Plumbing Independent 2B**  
5:0:0  
- Prerequisite(s): APPAR 1430  
For plumbing apprentices. Teaches blue print reading for plumbers units 11-34, Uniform Plumbing Code chapters 7, 8, and 9, plumbing safety NAPHC lessons 27A, 97-104.

**APPAR 1450**  
**Plumbing Independent 3A**  
5:0:0  
- Prerequisite(s): APPAR 1440  

**APPAR 1460**  
**Plumbing Independent 3B**  
5:0:0  
- Prerequisite(s): APPAR 1450  
For plumbing apprentices. Covers Uniform Plumbing Code chapters 5, 6, 8, 12, Appendix B, and Appendix H. Studies gas piping and appliances, good practices for gas piping and appliances, and mathematics.

**APPAR 1470**  
**Plumbing Independent 4A**  
5:0:0  
- Prerequisite(s): APPAR 1460  
For plumbing apprentices. Covers plumbing math review, installation practices, Uniform Plumbing Code chapters 6, 7, 8, 10, Appendices D and H. Studies heating systems, hydraulic theory, pump systems, brazing, soldering, PVC pipe and pipe dies.

**APPAR 1480**  
**Plumbing Independent 4B**  
5:0:0  
- Prerequisite(s): APPAR 1470  
For plumbing apprentices. Covers blue print reading, PVC pipe and copper joining techniques, and review and preparation for state license exam.

**APPAR 1810**  
**Carpenter Apprentice 1B**  
5:0:0  
- Prerequisite(s): APPAR 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.

**APPAR 1820**  
**Carpenter Apprentice 2A**  
5:0:0  
- Prerequisite(s): APPAR 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.

**APPAR 1830**  
**Carpenter Apprentice 2B**  
5:0:0  
- Prerequisite(s): APPAR 1820 or Departmental Written Approval  
For members of the Carpenters Joint Apprenticeship Training Committee. Covers forms, pile caps, form hardware, tilt up and precast.

**APPAR 1840**  
**Carpenter Apprentice 3A**  
5:0:0  
- Prerequisite(s): APPAR 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.

**APPAR 1850**  
**Carpenter Apprentice 3B**  
5:0:0  
- Prerequisite(s): APPAR 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.

**APPAR 1860**  
**Carpenter Apprentice 4A**  
5:0:0  
- Prerequisite(s): APPAR 1850 or Departmental Written Approval  
For members of the Carpenters Joint Apprenticeship Training Committee. Covers scheduling, MSDS, leadership skills, concrete testing, computer keyboard, trade tips and scaffold safety.

**APPAR 1870**  
**Carpenter Apprentice 4B**  
5:0:0  
- Prerequisite(s): APPAR 1860 or Departmental Written Approval  
For members of the Carpenters Joint Apprenticeship Training Committee. Covers MSHA, clean rooms, comet, foundations, heavy construction and highway.
Course Descriptions

ART 1430 Digital Prepress 3:2:2 F, Sp
- Prerequisite(s): ART 1400
  For AVC majors specializing in graphic design.
  Introduces production techniques of the publishing industry.
  Teaches traditional and digital layout, paste-up, trapping, image assembly, proofing and plating.
  Also includes basic offset presswork.
  Provides a historical overview of the important figures and processes in the evolution of print.

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, dying, 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 Su, F, Sp
  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 1815 Historical Architecture and Interior Design 3:3:0 Su, 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
  - 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 On Sufficient Demand
  - 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 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 3:2:2 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 3:2:2 F
  - Prerequisite(s): ART 1110
  Introduces the study of techniques and media used in the production of illustration art.
  Develops skills in the application and combination of a variety of painting processes.
  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 3:2:2 Su, F, Sp
  - Prerequisite(s): ART 2230
  Introduces the study of techniques and media used in the production of illustration art.
  Develops skills in the application and combination of a variety of painting processes and techniques.
  Focuses on acrylic and gouache painting techniques.
  In addition, develops mixed media processes and techniques using gouache and acrylic in combination with other materials.

ART 2250 Drawing for Animation 3:2:2 On Sufficient Demand
  - Prerequisite(s): ART 1110
  Introduces the drawing of basic shapes and forms used to create solidly-constructed, computer-animated characters.
  Emphasizes understanding and communicating movement of the human form as shapes and drawing imaginatively.

ART 2340 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, bas relief, and figurative sculpture based on human and animal form.
  Includes mold construction for casting in vari-
Course Descriptions

ART 2350 Ceramics II 3:2:2 F, Sp
• 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 1400, ART 1410
  Develops advanced skills in the use of typography
  and layout to communicate the printed word.
  Teaches principles of design and communication
  by creating designs for brochures, newsletters and
  editorial design. Also, teaches technical skills such as
  formatting, style sheets, pagination, importing
  images, interaction of type with visuals, etc.

ART 2430 Graphic Design I 3:2:2 F, Sp
• Prerequisite(s): ART 1120, ART 1430, ART 2410
  Addresses the concept and development of
  corporate identities (logos, etc.) for businesses
  and organizations. Teaches research skills and the
  influence research has on the creation of brand
  identities. Teaches brainstorming and conceptual
  skills. Covers design and reproduction of an identity
  across a broad range of media, including business
  cards, letterheads, envelopes, signage, etc.
  Students will use state-of-the-art software to assist
  them in executing their designs.

ART 2450 Digital Imaging 3:2:2 F, Sp
• Prerequisite(s): ART 1400
  Teaches the creation and manipulation of computer
  images using Adobe Photoshop. Provides
  an understanding of how and what images
  communicate. Emphasizes the ability to create
  images using a variety of techniques. Also 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, ART 2450
  Provides a thorough experience in the conceptual
  and technological aspects of designing a visual
  interface 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 meets the goals and needs of the
  client. Includes learning the basics behind XHTML,
  image manipulation and formatting for use on the
  web; and using a WYSIWYG application to assist in
  the implementation of student designs for web sites.

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 On Sufficient Demand
• Prerequisite(s): ART 1110 and 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 On Sufficient Demand
• Prerequisite(s): ART 1650
  Corequisite(s): ART 1110 recommended
  Emphasizes development of technical skills,
  composition at an intermediate level in a variety
  of watermedia. 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 Su, 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 3:2:2 On Sufficient Demand
• Prerequisite(s): ART 1050
  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. Processes of
  archival printing and presentation are also taught.
  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 Alternative Photography I 3:2:2 F
• Prerequisite(s): 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 3:2:2 F
• Prerequisite(s): ART 2700
  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 3:2:2 Sp
• Prerequisite(s): ART 2700
  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 8:0:5 to 40 F, Sp
• Prerequisite(s): Departmental Approval
  Actual on-the-job training in cooperation with
  businesses and firms in the local area. Work
  experience credit is offered in conjunction with a
  correlated job preparation course (ART 285R).
  For job qualified students only, with department
  Internship coordinator permission.

ART 285R Art and Visual Communications Correlated
Class 1:1:0 F, Sp
• For Art and Visual Communications students who
  wish to complete an internship experience.
  Emphasizes job seeking skills such as resume
  writing, cover letters, interviewing techniques and
  portfolio development. May be repeated once for
  credit.

ART 291R Independent Study
1 to 3:0 to 3:0 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 299R
VICA 1:1:0 F, Sp
For Art and Visual Communications 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. May be repeated once for credit.

ART 311R
Drawing III 3:2:2 F, Sp
- Prerequisite(s): ART 2110
Continues the exploration of the technical skills and conceptual development of drawing as a creative medium. Focuses on the mastery of drawing skills in color and includes demonstrations, lectures and active participation in the critical process. Emphasizes cultivating personal expression and independent serial work. May be repeated for a maximum of 6 credits toward graduation.

ART 3210
Illustration I 3:2:2 F, Sp
- Prerequisite(s): ART 3110 or ART 2210
- Corequisite(s): ART 361R recommended Provides experiences in creating mood and visualizing ideas through illustration. Emphasizes creativity and technical ability. Addresses narrative illustration and visual storytelling.

ART 3220
Illustration II 3:2:2 F, Sp
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 3290
Rendering the Human Head 3:2:2 F, Sp
On Sufficient Demand
- Prerequisite(s): ART 1110
Designed to develop proficiency in rendering the human head in a variety of approaches and techniques. Addresses geometric and planar construction, proportion, lighting, features, and expression.

ART 3340
Sculpture III 3:2:2 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.

ART 3350
Ceramics III 3:2:2
- 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.

ART 3400
Fundamentals of Art Education 3:2:2 F, Sp
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 3:2:2 F
- Prerequisite(s): ART 1410, ART 2430, ART 2450
- Prerequisite(s): ART 410
Editorial design is the term used to refer to layouts and designs for magazines and newspapers. Covers understanding the target audience for the publication and its effect on design. Teaches concepts and principles related to masthead and cover design, regular columns in a publication and creating unique layouts for feature articles. Class will cover layout and typography in relation to editorial design. Students who complete the course will understand editorial terminology and be able to execute designs that are appropriate for the scope of the publication and its audience. Technical competence will be taught including pagination, style sheets, and state-of-the-art page layout software.

ART 3430
Graphic Design II 3:2:2 F, Sp
- Prerequisite(s): ART 2420, ART 2430, ART 2450
- Prerequisite(s): ART 240
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 1120, ART 1410, ART 2450, ART 2460
Teaches basic principles and concepts behind visual communication using motion design and animation. Includes preparing and editing computer generated animation sequences, video clips and sound tracks for multimedia presentations. Uses state-of-the-art software applications such as Macromedia Director and Soundtrack.

ART 3470
Digital Painting 3:2:2 F, Sp
- Prerequisite(s): ART 1120, ART 1110, ART 1400
Develops advanced skills in producing pixel-based computer generated artwork for illustrations and other graphic communication. Teaches conceptual problem solving from a visual standpoint. Uses state-of-the-art software, covers surface control, layers, masking, working with shapes, special effects, color control.

ART 361R
Figure Drawing I 3:2:2 F, Sp
- Prerequisite(s): ART 1110
Presents skills and techniques related to drawing the human figure. Uses live models. May be repeated for up to six credits toward graduation.

ART 363R
Painting III 3:2:2 Su, F, Sp
- Prerequisite(s): ART 2640
Emphasizes independent and creative development as a painter. Provides an opportunity for students to explore their own creative ideas in a class context with feedback and critical evaluation. Repeatable for a maximum of 6 credit hours toward graduation.

ART 364R
Figure Painting 3:2:2 Su, F, Sp
- Prerequisite(s): ART 361R, ART 2640
Explores fundamental methods and techniques of oil painting from the figure using life models. Emphasizes mastery of representational depictions of the figure. Includes themes of abstraction, interpretation, and narrative uses of the figure. May be repeated for a maximum of 6 credits toward graduation.

ART 365R
Watermedia III 3:2:2 Su, F, Sp
- Prerequisite(s): ART 2650
Explores experimental approach to watermedia, acrylic, and mixed media. Provides opportunity for independent exploration and development of personal style coupled with refinement of technical skills. May be repeated for a maximum of 6 credits toward graduation.

ART 3680
Advanced Printmaking 3:2:2 Su, F, Sp
- Prerequisite(s): ART 2680
Continues the processes begun in Intro to Printmaking. Covers creative woodcuts, intaglio-etching, and/or silkscreen. Emphasizes fine print quality and technical development.

ART 370R
Figure Structure 3:2:2 On Sufficient Demand
- Prerequisite(s): ART 361R
Studies the human figure in dynamic posing and motion. Emphasizes figure-drawing skills such as extreme foreshortening, perspective, and drawing the human form in motion. May be repeated for a maximum of six credits toward graduation.

ART 371R
Alternative Photography II 3:2:2 Su, F, Sp
- Prerequisite(s): ART 2710, ART 2730, ART 2450, ARTH 2790
Emphasizes the process of photography from a conceptual stand point. Expands issues and techniques learned in Alternative Photography I. 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
ART 3750  
Digital Imaging II  
3:2:2  
Prerequisite(s): ART 1050, ART 1400, ART 2730  
Integrates Photoshop as a development and manipulation tool for image making. Investigates technical concerns of digital workflow, capture, and output for commercial and fine art applications. 

ART 412R  
Advanced Illustration  
3:2:2  
Prerequisite(s): ART 3220  
Provides advanced studies in producing a senior level portfolio. Encourages students to find a personal style and voice in communicating images. Requires advanced problem solving skills and advanced abilities in the creation of images. May be repeated for up to 6 credits toward graduation.

ART 4230  
Advanced 3D Computer Modeling  
3:2:2  
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  
Prerequisite(s): ART 1120, ART 1130, ART 2340  
Covers both theory and practice of sculptural mold making and casting of sculptural designs of multiple original's 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  
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, sagger, high fire, and overglaze, in addition to normal firing methods.

ART 443R  
Special Topics in Graphic Design  
3:2:2  
Prerequisite(s): ART 2410, ART 2430, ART 2450  
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  
Prerequisite(s): ART 1120, ART 1410, ART 2450, ART 3460  
Teaches advanced concepts and techniques in developing interactive design. Focuses on creating unique, usable and effective interactive experiences for users. Technical instruction includes 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 up to 6 credits toward graduation.

ART 449R  
Advanced Graphic Design Studio  
3:2:2  
Prerequisite(s): ART 1120, ART 1410, ART 1430, ART 2410, ART 2420, ART 2460, ART 3430  
Presented advanced instruction in executing graphic design from concept to layout in formats that include advertising, collateral, editorial, package and web design. Helps students improve and refine their portfolios in preparation for employment. Students will also develop a corporate identity for themselves to further enhance their employability.

ART 470R  
Interpretive Drawing  
3:2:2  
Prerequisite(s): ART 370R  
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  
3:2:2  
Prerequisite(s): ART 2700, ART 2710, ART 2720, ART 3750, ARTH 2790  
Develops skills in illustrating concepts through photographic processes. Students are encouraged to work through assignments from their own personal emphasis of commercial or fine art image making styles. The student is made aware of contemporary trends, styles, and critical issues through slide presentations, readings, critiques and class discussions. Focuses on the development of interpretation and conceptual image making.

ART 474R  
Advanced Photo Studies  
3:2:2  
Prerequisite(s): ART 2700, ART 2710, ART 2720, ART 3750, ARTH 2790  
Integrates all previous image making skills acquired into the students’ visual vocabulary. Students are encouraged to further develop their own personal vision through more developed projects. The student is made aware of contemporary trends, styles, and critical issues through slide presentations, readings, critiques and class discussions. Skills in running a business as a commercial, and Fine Art photographer are discussed. Emphasizes conceptual image making.

ART 481R  
Art and Visual Communications Internship  
1 to 6:0:5 to 30  
Prerequisite(s): Junior status or above and departmental approval  
Combines classroom theory with related, practical job experience. Students work as employees of a business, agency, or institution while enrolled at UVU 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 department internship advisor. A maximum of 6 credits may apply to graduation.

ART 4890  
Senior Seminar  
3:3:0  
Prerequisite(s): Senior Status in A/C Major  
For A/C 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  
3:2:2  
Prerequisite(s): Department Approval  
Provides an opportunity for upper division students to do individual research and experimentation within the areas of the A/C 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  
3:3:0  
Prerequisite(s): Senior Status in A/C Major  
For A/C majors with senior status. Combines and integrates concepts, methodologies and skills developed in previous A/C 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 A/C Major with BFA degree  
For A/C 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.

ARTH — Art History

ARTH 2710  
History of Art to the Renaissance  
3:3:0  
Prerequisite(s): ART 1120, ART 1410, ART 2450, ART 3460  
Integrates all previous image making skills acquired into the students’ visual vocabulary. Students are encouraged to further develop their own personal vision through more developed projects. The student is made aware of contemporary trends, styles, and critical issues through slide presentations, readings, critiques and class discussions. Skills in running a business as a commercial, and Fine Art photographer are discussed. Emphasizes conceptual image making.

Course Descriptions
Course Descriptions

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  FF  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 2730 The History of Photography**
3:3:0  Su, F, Sp
- **Prerequisite(s):** ARTH 2710 or ARTH 2720
Traces the different directions photography has taken since its invention, 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 "invention" of photography and how photography changed the role of the artists of the 19th- and 20th-centuries. Covers documentary photography and the rise of photography as a separate art form. Also discusses photography’s characteristics as an art form and how it has changed our perceptions of the world. Explores how photographs have become a discreet language of signs, symbols, and metaphors with implied narratives in the 20th-century.

**ARTH 3010 History of Design and Visual Arts**
3:3:0  F
- **Prerequisite(s):** AVC Sophomore status or departmental approval.
Presents a history of graphic design, illustration, and photography apart from the study of traditional art history. Explores the impact of major movements, technologies, and innovations on present-day graphic design. Includes lectures, group projects, and field trips.

**ARTH 3020 Classical Art and Architecture History**
3:3:0  On Sufficient Demand
- **Prerequisite(s):** ARTH 2710 or ARTH 2720 or (HUM 2010 and HUM 2020)
For Art and Visual Communications majors and other students interested in art history. Studies the art and architecture of Ancient Greece, Etruria, and Rome. Explores the influences on classical culture as well as the influences of Greco-Roman culture over the centuries. Includes lectures and class discussion about classical art within its broad cultural framework.

**ARTH 3040 Renaissance Art History**
3:3:0  On Sufficient Demand
- **Prerequisite(s):** ARTH 2710 or ARTH 2720 or (HUM 2010 and HUM 2020)
For AVC majors and other interested students with an interest in art history. 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)
For Art and Visual Communications majors and other students with an interest in art history. 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. Includes lectures 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)
For students interested in art history and the modern era. 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.

**ASL—AMERICAN SIGN LANGUAGE**

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Days</th>
<th>Units</th>
<th>Type</th>
</tr>
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<tbody>
<tr>
<td><strong>ASL 1000</strong></td>
<td>Introduction to the Deaf-World</td>
<td>F</td>
<td>3:3:0</td>
<td>F</td>
</tr>
<tr>
<td><strong>ASL 1010</strong></td>
<td>Beginning American Sign Language I</td>
<td>Su, F, Sp</td>
<td>5:5:1</td>
<td>LH</td>
</tr>
<tr>
<td><strong>ASL 1020</strong></td>
<td>Beginning American Sign Language II</td>
<td>Su, F, Sp</td>
<td>5:5:1</td>
<td>LH</td>
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<tr>
<td><strong>ASL 2010</strong></td>
<td>Intermediate American Sign Language I</td>
<td>Su, F, Sp</td>
<td>5:5:1</td>
<td>LH</td>
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<td><strong>ASL 2030</strong></td>
<td>Advanced Fingerspelling</td>
<td>1:1:0</td>
<td>On Sufficient Demand</td>
<td>HH</td>
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<td><strong>ASL Numbers</strong></td>
<td></td>
<td>1:1:0</td>
<td>On Sufficient Demand</td>
<td>HH</td>
</tr>
<tr>
<td><strong>ASL 2050</strong></td>
<td>Advanced ASL Grammar</td>
<td>3:3:0</td>
<td>On Sufficient Demand</td>
<td>HH</td>
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<tr>
<td><strong>ASL 3050</strong></td>
<td>Advanced American Sign Language</td>
<td>3:3:0</td>
<td>On Sufficient Demand</td>
<td>HH</td>
</tr>
</tbody>
</table>

**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.

**Intermediate American Sign Language II**
3:3:0  F, Sp
- **Prerequisite(s):** Students should have equivalent knowledge of ASL 1020
Continues applied conversation use of ASL through literature, narratives, poetry, and creative sign play. Analyzes ASL grammatical principles and Deaf cultural experiences to explore and understand various underlying metaphors found in ASL literature. Requires Deaf community exposure and involvement.

**Advanced American Sign Language**
3:3:0  On Sufficient Demand
- **Prerequisite(s):** ARTH 2710 or ARTH 2720
Baroque Art and Architecture History
- **Prerequisite(s):** (ARTH 2710 or ARTH 2720) or (HUM 2010 and HUM 2020)
For Art and Visual Communications majors and other students with an interest in art history. 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. Includes lectures and class discussions.

**TT, Lh, hh, HH**

**Prerequisite(s):** (ARTH 2710 or ARTH 2720) or (HUM 2010 and HUM 2020)

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.

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- **Prerequisite(s):** (ARTH 2710 or ARTH 2720) or (HUM 2010 and HUM 2020)
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**TT, Lh, hh, HH**

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**Advanced American Sign Language**
3:3:0  On Sufficient Demand
- **Prerequisite(s):** ARTH 2710 or ARTH 2720
Baroque Art and Architecture History
- **Prerequisite(s):** (ARTH 2710 or ARTH 2720) or (HUM 2010 and HUM 2020)
For Art and Visual Communications majors and other students with an interest in art history. 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. Includes lectures and class discussions.

**TT, Lh, hh, HH**

**Prerequisite(s):** (ARTH 2710 or ARTH 2720) or (HUM 2010 and HUM 2020)

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.
inflectional morphology. Includes considerable study of the culture of Deaf people.

**ASL 3310**
**Interpreting I**
3:3:0  On Sufficient Demand
- Prerequisite(s): Any 3000 level ASL course
  Introduces bidirectional (ASL-to-English and English-to-ASL) interpreting between Deaf and hearing people. Studies the profession and skills necessary to be an interpreter. Includes history, models, and professional certification procedures of interpreting; cognitive processes, physical and psychological factors, intercultural communication, ethics, and situational interpreting. Deaf students are encouraged to enroll.

**ASL 3320**
**Physiology of Interpreting**
3:3:0  Su, F, Sp
- Prerequisite(s): ASL 2020
  Introduces students to skills and processes required to maintain health and well-being in the physically demanding and high stress field of interpreting. Develops cognitive, ergonomic, and dual tasking abilities required to interpret without stress or physical injury. Helps students better understand how a healthy lifestyle and developing good habits can improve their skills and prevent injury.

**ASL 3330**
**Cross-Cultural Communication and Interpreting**
3:3:0  On Sufficient Demand
- Prerequisite(s): ASL 3310 and Instructor Approval
  Builds on the principles (ASL-to-English and English-to-ASL) for interpreting between Deaf and hearing people taught in Interpreting I. Studies the profession and skills necessary to be an interpreter in more specialized settings such as medical, legal, mental health, and theatre. Includes history, models, and professional certification procedures of interpreting; cognitive processes, physical and psychological factors, intercultural communication, ethics, and situational interpreting. Deaf students are encouraged to enroll. Taught in ASL.

**ASL 3340**
**Interpreting II—Advanced Techniques**
3:3:0
- Prerequisite(s): ASL 3310
  Builds on the principles (ASL-to-English and English-to-ASL) for interpreting between Deaf and hearing people taught in Interpreting I. Studies the profession and skills necessary to be an interpreter in more specialized settings such as medical, legal, mental health, and theatre. Includes history, models, and professional certification procedures of interpreting; cognitive processes, physical and psychological factors, intercultural communication, ethics, and situational interpreting. Deaf students are encouraged to enroll.

**ASL 3350**
**Consecutive Interpreting**
3:3:1  On Sufficient Demand
- Prerequisite(s): ASL 3310 or Instructor Approval
  Introduces students to skills and processes required to produce consecutive interpretations. Focuses on developing basic cognitive, semantic, and dual tasking abilities required to interpret rehearsed and/or spontaneous texts. Also teaches students to incorporate semantic choice, register, and ethical behavioral decisions and understand how they impact their interpretations. Develops sets of technical or field-specific signs and applying these to interpretive work. Includes one-hour per week lab. Taught in ASL.

**ASL 3360**
**Simultaneous Interpreting**
3:3:1  On Sufficient Demand
- Prerequisite(s): ASL 3350 or Instructor Approval
  Introduces students to skills and processes required to produce simultaneous interpretations. Focuses on transitioning students from consecutive interpreting to time-limited simultaneous interpreting. Develops cognitive, semantic, and dual tasking abilities required to interpret spontaneous texts. Teaches and incorporates more advanced semantic choices and negotiation techniques, work with a variety of audience sizes and types. Helps students better understand how ethics impact behavioral decisions and interpretations. Gives more consideration to developing sets of technical or field-specific signs and applying these to interpretive work. Includes one-hour per week lab. Taught in ASL.

**ASL 3370**
**Sign to Voice Interpreting**
3:3:1
- Prerequisite(s): ASL 3350 or Instructor Approval
  Introduces students to skills and processes required to produce conceptually accurate and linguistically appropriate voice interpretations of ASL texts. Develops cognitive, semantic, and dual tasking abilities required to interpret spontaneous texts. Teaches and incorporates more advanced semantic choices and negotiation techniques, work with a variety of audience sizes and types. Helps students better understand how ethics impact behavioral decisions and interpretations. Gives more consideration to developing sets of technical or field-specific signs and applying these to interpretive work. Includes one-hour per week lab.

**ASL 3380**
**Transliteration**
3:3:0
- Prerequisite(s): ASL 3310
  Introduces students to skills and processes required to produce conceptually accurate and linguistically appropriate messages using ASL signs in an English word order. Develops cognitive, semantic, and dual tasking abilities required to interpret spontaneous texts. Teaches and incorporates more advanced semantic choices and negotiation techniques, work with a variety of audience sizes and types. Helps students better understand how ethics impact behavioral decisions and interpretations. Gives more consideration to developing sets of technical or field-specific signs and applying these to interpretive work. Includes one-hour per week lab.

**ASL 3390**
**Professional Issues in Interpreting**
3:3:0
- Prerequisite(s): ASL 3310
  Provides students advanced study and skills development in the business and profession of interpreting, decision making while interpreting between Deaf (including Deaf-blind) and hearing populations, and negotiation of the complex and growing field of interpreting. Students develop the understanding of the day to day demands of the work needed become truly professional interpreters. Provides extensive individual feedback.

**ASL 3510**
**Deaf Culture to 1817**
3:3:0  On Sufficient Demand
- Prerequisite(s): ASL 2020 or equivalent
  Explores chronologically to 1817 the formation and treatment of the Deaf community and culture. Completers should acquire an understanding of the ethic development and linguistic history of the Deaf. Presentations and class instruction conducted entirely in ASL.

**ASL 3520**
**Deaf Culture 1817 to 1970**
3:3:0  On Sufficient Demand
- Prerequisite(s): ASL 2020 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 ethic development and linguistic history of the Deaf. Presentations and class instruction conducted entirely in ASL.

**ASL 3530**
**Deaf Culture from 1970**
3:3:0  On Sufficient Demand
- Prerequisite(s): ASL 2020 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 ethic development and linguistic history of the Deaf. Presentations and class instruction conducted entirely in ASL.

**ASL 3610**
**ASL Literature**
3:3:0  On Sufficient Demand
- Prerequisite(s): ASL 50 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 4800**
**LH Deaf Culture Studies**
3:3:0  On Sufficient Demand
- Prerequisite(s): ASL 3530 or equivalent, or instructor consent
  Explores various aspects of American Deaf culture, including the identity of the Deaf community, causes and implications of deafness, and important contemporary Deaf issues such as the state of Deaf education and fundamental rights of Deaf people. Improves advanced conversational ASL through daily association with native Deaf signers.

**ASL 4330**
**Visual Linguistic Analysis for Interpreters**
3:3:1
- Prerequisite(s): ASL 3330 and Instructor Approval
  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.
Course Descriptions

challenges related to interpreting for parties within the system. Examines both the law and Deafness and the areas of language and cultural mediation required to effectively facilitate communication between people who are Deaf and people who are hearing in legal settings.

ASL 4370 Ethics for Interpreters 3:3:0
- Prerequisite(s): ASL 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
- Prerequisite(s): ASL 3360 or Department Approval 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 On Sufficient Demand
- Prerequisite(s): ASL 3050 Introduces basics of linguistic properties of American Sign Language (ASL). Includes phonology, morphology, syntax, and language in use. Encourages students to think critically about the structure of ASL and the claims researchers make about that structure. Taught entirely in ASL.

ASL 4450 Deaf-World Discourse 3:3:0
- Prerequisite(s): ASL 4410 or LANG 3000 or ANTH 3000 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 4550 Multicultural Issues in the Deaf-World 3:3:0
- Prerequisite(s): ASL 2020 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
- 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.

ASTR—Astronomy

ASTR 1040 (Cross-listed with: PHYS 1040) Elementary Astronomy 3:3:0
Introduces astronomy and cosmology. Explores interesting concepts such as the big bang and black holes. Includes observational exercises including the use of binoculars and telescopes.

ASTR 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) 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.

AUT—Automotive Technology

AUT 1000 Survey of Automotive Technology 2:2:0 F, Sp
An introductory course for those interested in Automotive Technology. Presents basic automotive repair lessons on ignition and fuel systems, brakes, CV joints, and emissions for state inspections. Discusses electrical accessories, computerized engine controls, and chassis components.

AUT 1110 Brake Systems 2:2:0 F, Sp
- Corequisite(s): AUT 111L Recommended For automotive majors and other interested community members. Covers the principles of automotive braking including hydraulic theory, diagnosis, and service of brake systems. Studies drum, disc, and power units. Includes wheel bearing adjustments, packing, and troubleshooting. Discusses tire construction including both lateral and radial run out and wheel balancing techniques.

AUT 111L Brake Systems Lab 1:0:3 F, 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/ transaxles 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 transaxles, differentials, drive shafts, and four wheel drive components. Operation of clutches with torque and gear application.

AUT 1130 Engine Repair 2:1:3 F, Sp
For automotive majors and other interested community members. Studies construction, operation, and performance of various types of engines. Covers the theory of combustion, and characteristics of fuels, lubrication systems, cooling systems, timing valves, and wear problems with all other parts of the engine. Includes lab experience.

AUT 113A Engine Repair 2:1:3 F, Sp
For automotive majors and other interested community members. Studies construction, operation, and performance of various types of engines. Covers the theory of combustion, and characteristics of fuels, lubrication systems, cooling systems, timing valves, and wear problems with all other parts of the engine. Includes lab experience.

AUT 113B Engine Repair 2:1:3 F, Sp
Designed for anyone interested in small-engine repair. Includes hands-on application with shop time. Offers practical information about small engines, theory, operations, and maintenance. Provides information, troubleshooting and service techniques for snowmobiles, 4-wheelers, personal watercraft, mowers, tillers, and other small engine applications.
AUT 113L
Engine Repair Lab
1:0:3 F, 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
• Prerequisite(s): AUT 1160
• Corequisite(s): AUT 117L Recommended
Studies the function, construction, operation, testing, diagnosis and servicing of automotive ignition systems, starting, charging/generator systems and battery testing using a variety of diagnostic test equipment.

AUT 117L
Engine Electrical Systems Lab
1:0:3 F, Sp
Studies the function, construction, operation, testing, diagnosis and servicing of automotive ignition systems, cranking, charging 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

AUT 122L
Automatic Transmissions and Transaxles Lab
1:0:3 F, Sp
• Pre-or Corequisite(s): AUT 1220
Provides a laboratory experience enhanced by following the Automatic Transmissions and Transaxles ASE task list. Emphasizes demonstrations, observations and hands-on participation. Utilizes actual vehicle systems of major manufacturers to supplement training.

AUT 1230
Engine Performance
2:2:0 F, Sp
• Corequisite(s): AUT 123L Recommended
Studies electrical and fuel systems fundamentals found on passenger cars, light-trucks, and marine applications of theory, operation, and construction. Includes solid state electronic ignition systems. Teaches tune-up including diagnosis and troubleshooting. Computerized fuel injection found on gasoline and diesel engines will also be studied.

AUT 123A
Engine Performance
2:1:3 F
For automotive majors and other interested community members. Studies electrical and fuel system fundamentals including theory, construction and principles of operation. Covers batteries, lighting, starting, and charging. Includes all solid state electronic and ignition systems. Teaches tune-up including diagnosis and troubleshooting. Studies computerized ignition and fuel injection. Includes lab experience.

AUT 123B
Engine Performance--2nd Half
2:1:3 Sp
Includes advanced instruction in engine performance, starting systems, charging systems, and indicator circuits. Discusses all mechanical and electronic parts of the vehicle relative to quality engine tune-up and diagnostic instruction. Includes lab experience.

AUT 123L
Engine Performance Lab
1:0:3 F, Sp
• Pre-or Corequisite(s): AUT 1230
Provides a laboratory experience enhanced by following the Engine Performance ASE task list. Emphasizes demonstrations, observations and hands-on participation. Utilizes actual vehicle systems of major manufacturers to supplement training.

AUT 1260
Tech Math for Mechanics
3:3:0 F, Sp
For students in Automotive, Collision Repair, and Diesel Mechanics technology majors. Covers principles of math as required by the industry. Studies pressures, measuring engine and horsepower output, hydraulics, torque, and electrical flow. Includes solving equations in percent, proportion, variation, formula rearrangement, function and graphs with right and oblique triangles. Successful completers should be able to solve problems on the job using technical and mathematical data.

AUT 1700
Brakes and Wheels
3:1:0 On Sufficient Demand
For automotive apprentices. Covers the principles of automotive braking including hydraulic theory, diagnosis and service of brake systems. Studies drum, disc, and power units. Includes wheel bearing adjustments, packing and troubleshooting. Discusses tire construction including both lateral and radial runout and wheel balancing techniques. Covers acetylene and mig welding with emphasis on welding safety.

AUT 1710
Suspensions and Steering and Air Conditioning
3:3:1 On Sufficient Demand

AUT 1720
Engine Repair
3:3:1 On Sufficient Demand
For automotive apprentices. Studies construction, operation and performances of various types of engines, and teaches ethics of customer relations. Covers the theory of combustion and characteristics of fuels, lubrication systems, cooling systems, timing, valves, and wear problems with all other parts of the engine.

AUT 1730
Engine Performance
3:3:1 On Sufficient Demand
For automotive apprentices. Studies electrical and fuel systems fundamentals including theory, construction, and principles of operation. Covers batteries, lighting, starting, and charging. Includes all solid state electronic and ignition systems. Teaches tune-up including diagnosis and troubleshooting. Studies computerized ignition and fuel injection.

AUT 1740
Automotive Computer Literacy
3:3:1 On Sufficient Demand
For automotive apprentices. Performs basic operations on PC compatible computers including keyboarding and key functions using typical shop management software. Emphasizes components found on computerized automobile systems. Identifies various common automotive computer components by type and function. Includes hands-
AUT 201L
Automotive Service Practicum Engine Performance and Steering Suspension 2:0:6 F
- Prerequisite(s): AUT 1210, AUT 1230 with a grade of C- or better
Includes field type service work in an instructional setting. Emphasizes vehicle service needs which are most frequently required in modern commercial service centers. Requires the diagnosis and repair of computerized vehicle systems. Includes standards for quality and quantity of work produced. Studies parts procurement, estimates, repair orders, and customer relations. Follows ASE P2 Performance Tasks for Steering/Suspension and Engine Performance.

AUT 202L
Automotive Service Practicum Emission Controls and Chassis Electronics 2:0:6 F
- Prerequisite(s): AUT 1160, AUT 1230 with a grade of C- or better
Includes field type service work in an instructional setting. Emphasizes vehicle service needs which are most frequently required in modern commercial service centers. Requires the diagnosis and repair of computerized vehicle systems. Includes standards for quality and quantity of work produced. Studies parts procurement, estimates, repair orders, and customer relations. Follows ASE P2 Performance Tasks for Emission Control Systems and Chassis Electrical.

AUT 204L
Automotive Service Practicum Fuel Management Systems and HVAC 2:0:6 Sp
- Prerequisite(s): AUT 1160, AUT 1230 with a grade of C- or better
Includes field type service work in an instructional setting. Emphasizes vehicle service needs which are most frequently required in modern commercial service centers. Requires the diagnosis and repair of computerized vehicle systems. Includes standards for quality and quantity of work produced. Studies parts procurement, estimates, repair orders, and customer relations. Follows ASE P2 Performance Tasks for Engine Performance and Heating, Ventilation and Air Conditioning Systems.

AUT 210L
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 2210
Advanced Braking and Control Systems 2:2:0 Sp
- Prerequisite(s): AUT 1110, AUT 1160 with a grade of C- or better
- Corequisite(s): AUT 203L Recommended
An in-depth study of the theory, diagnosis, and repair of computerized 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
Automotive HVAC 2:2:0 Sp
- Prerequisite(s): AUT 1160 with a grade of C- or better
- Corequisite(s): AUT 204L Recommended
Offers an in-depth study of automotive heating, ventilation, air conditioning (A/C), and refrigeration systems. Includes theory of operation, diagnosis and repair of HVACR systems. Environmental safety issues are stressed including laws and regulations, CFC recovery and recycling, ozone depletion, and new, environmentally friendly systems. Computerized automatic temperature controlled systems are also covered. Stresses service, diagnosis and troubleshooting using electronic test equipment.

AUT 2250
Electronic Fuel Management Systems 2:2:0 Sp
- Prerequisite(s): AUT 1230, AUT 1160 with a grade of C- or better
- Corequisite(s): AUT 204L Recommended
Studies automotive fuel controls with particular emphasis placed on micro-processor control systems. Studies electronic and mechanical sensors of fuel and ignition systems. Also covers alternative fuel systems. Stresses service, diagnosis and troubleshooting using electronic test equipment.
AUT 2700  
Advanced Alignment and Electrical Theory  
3:3:1  On Sufficient Demand  
- Prerequisite(s): AUT 1700 through AUT 1770
For automotive apprentices. Presents advanced theory of laser alignment and electrical accessories. Studies mechanical, electronic, and electrical parts of automotive engine including fuel injection and electronic emission controls.

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
- Prerequisite(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 Co-operative 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.

AUT 285R  
Cooperative Correlated Class  
1:1:0  Su, F, Sp  
- Corequisite(s): AUT 281R
- Prerequisite(s): AUT 281R
Designed for Automotive Technology majors. Identifies on-the-job problems and provides remediation of those problems through in-class discussion and study. Includes the study of identifying and maximizing service opportunities. Students register for this class with approval of the Coop coordinator. Included lecture, guest speakers, video tapes, role playing, case analysis, oral presentations, and written assignments. Completers should be better able to perform in their field of work or study. May be repeated as desired for interest.

AUT 299R  
SkillsUSA  
1:1:0  F, Sp  
- Prerequisite(s): Junior Standing and AUT 2250 or AUT 2260
- Corequisite(s): AVSC 1100 recommended
Designed for Automotive Technology majors. Supports and facilitates the goals and objectives of SkillsUSA. SkillsUSA is a pre-professional student organization that develops social awareness, civic, recreational, and social activities. Students may participate in local, state, and national contests. May be repeated as desired for interest.

AUT 3230  
High Performance Engines  
3:2:3  Sp  
- Prerequisite(s): AUT 1130, AUT 1230
Offers a more in-depth study of the design factors that are unique to high output engines and how to modify engines to obtain the desired outcome. Studies the characteristics of various fuels used in high performance engines and their effects. Discusses the implications of service learning and ethics in high performance engine applications.

AUT 3350  
Alternative Fuel Systems  
3:3:0  F  
- Prerequisite(s): Junior Standing and AUT 2250 or AUT 2260 recommended
- Corequisite(s): AUT 2240 Recommended
This course is open to all interested students and community members with departmental approval. Studies current and upcoming alternatives to gasoline as a fuel for the transportation industry that are being promoted, used, and developed by sources within and without the mainstream production system. Includes new alternatives such as CNG/Propane, hydrogen, electric, hybrid (both plug-in and non-plug-in), bio-fuels (both diesel and alcohol), diesel, and fuel cells. Discusses the implications of service learning and ethics in alternative fuel powered vehicles.
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  
- Prerequisite(s): AVSC 1100  
F; DE  
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 glider towing, launching, powered gliders, thermals, weather, landing, mountain waves, regulations, and emergency procedures. Teaches aerodynamic theory associated with more efficient flight and aircraft control.

**AVSC 1150**
**Mountain and Desert Flying**
1:1:1  
On Sufficient Demand  
- 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**
3:1:5  
Su, F, Sp; DE  
- 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 performance data.

**AVSC 1246**
**Ground Instrument Pilot**
4:4:0  
Su, F, Sp; DE  
- 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; DE  
- 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  
DE  

**AVSC 2150**
**Air Transportation Management**
3:3:0  
F; DE  
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 completers should have a basic knowledge of aviation management.
### AVSC 2160 Aviation Law  3:3:0  Sp; DE
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. Discussed 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; DE
- 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  3:3:0  DE
- 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  DE
- 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 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  DE
- Prerequisite(s): ENGL 1010
Teaches principles of aviation marketing and promotional concepts. Covers planning and coordination, advertising and media as well as sales presentations. Explores aviation trade shows, trade events, and networking as industry marketing tools. 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 grade of C- or better
For Aviation Maintenance Technician Apprentice Students. Final airframe class prepares students to take FAA AMT Airframe Examination. Discusses landing gear systems, hydraulics, fuel systems, pneumatics, fuel dumping, pressurization, environmental controls, and indicator systems. Includes examinations of example aircraft systems in operation.

### 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 Power Plant Knowledge Examination.

### AVSC 2300 Ground Commercial Pilot--Phase II  3:3:0  Su, F, Sp; DE
- Prerequisite(s): AVSC 1220, AVSC 1230
- Corequisite(s): AVSC 120
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 pylons 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; DE
- 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, pylons 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; DE
- 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 experience in normal flight. Presented in three phases: for the experience level of the 1) Private Pilot Student, 2) Instrument Pilot Student, 3) Commercial Pilot Student and for the Certified Flight Instructor Student. Course enhances overall pilot skill and increases confidence in all flight conditions. May be repeated for a maximum of 2 credits toward graduation.

### AVSC 2400 Ground Certified Flight Instructor  3:3:0  F; DE
- 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; DE
- 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 night maneuvers and airplane operations from the right seat of the training airplane. Student will discuss each maneuver while precisely performing
Course Descriptions

the maneuver and maintaining proper operation practice in flight. Includes identifying common student errors and correcting them. Prepares the student for the Federal Aviation Administration’s CFI flight test.

**AVSC 2420**
Ground CFI Instrument 1:1:0 Sp; DE
- Prerequisite(s): AVSC 2400, AVSC 2410
- Corequisite(s): AVSC 2430
Designed for instructor pilots preparing for the addition of an Instrument Instructor rating. Stresses in-depth study of gyroscopic and pressure instruments, attitude instrument flying techniques, IFR departure, en route, arrival and approach procedures, and the teaching of this to other pilots. Discusses Federal Aviation Regulations that apply to instrument flight instruction, flight log book endorsements and entries, and other directives and publications that apply to instrument flight. Studies the correct procedures for teaching and analyzing student errors while performing the required instrument flight maneuvers. Upon successful completion, the student will be recommended for the FAA Certified Flight Instructor/Instrument written exam.

**AVSC 2430**
Flight CFI Instrument 1:1:1 Su, F, Sp; DE
- Prerequisite(s): AVSC 2400, AVSC 2410
Designed for instructor pilots seeking the CFI Instrument rating. Includes 20 hours of dual flight instruction and experience in teaching instrument flight skills. Covers all required instrument flying maneuvers from the right seat of the instrument training airplane such as instrument departures, en route navigation, and instrument approach to landings. Prepares the student for the CFI Instrument Pilot rating flight test.

**AVSC 2440**
Ground Multi-Engine 1:1:0 Su, F, Sp; DE
- Prerequisite(s): Instructor’s recommendation
- Corequisite(s): AVSC 2450

**AVSC 2450**
Flight Multi-Engine 1:1:1 Su, F, Sp; DE
- 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 Sp; DE
- 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. Stresses the unique responsibilities of an instructor demonstrating flight at minimal control speed.

**AVSC 2510**
Flight Multi-Engine Instructor 1:1:0 Su, F, Sp; DE
- 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 8:0:5 to 40 F, Sp; DE
- 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 F, Sp; DE
- 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 F
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 F; DE
- 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 DE
- 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 F; DE
Teaches tower, approach, and center techniques and terminology. Covers radar and non-radar control environments and the pilot’s responsibility in each. Explains effective use of the Air Traffic Control System. Includes lecture, discussion, small group practice, and evaluation.

**AVSC 3040**
Air Traffic Control II 3:3:0 DE
- 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 DE
- 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 DE
- 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.
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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Type</th>
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<tbody>
<tr>
<td>AVSC 3070</td>
<td>Aviation Cargo Operations</td>
<td>3:3:0</td>
<td>DE</td>
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<td></td>
<td>• Prerequisite(s): AVSC 2150</td>
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<td></td>
<td>Studies air cargo history and industry development.</td>
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<td>Teaches air cargo scheduling and supply chain administration.</td>
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<td>Explores aircraft options and conversions and airport and logistical considerations.</td>
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<td>Discusses shipping and air cargo regulations including hazmat and security issues.</td>
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<td>Explores domestic and international air cargo considerations.</td>
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<td>AVSC 3100</td>
<td>Corporate Aviation Management</td>
<td>3:3:0</td>
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<td>• Prerequisite(s): AVSC 2150</td>
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<td></td>
<td>Introduces basic principles of corporate flight department management.</td>
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<td>Discusses regulatory requirements in corporate aviation, acquisition procedures, insurance requirements, and pilot certification programs.</td>
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<td>Explores fractional ownership programs and management.</td>
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<td>AVSC 3120</td>
<td>Airport Management</td>
<td>3:3:0</td>
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<td>• Prerequisite(s): AVSC 2150</td>
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<td>Explores airport management at both small and large airports.</td>
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<td>Emphasizes basic requirements and attributes of successful airport managers.</td>
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<td>Course includes discussion of local and state airport finance and regulatory issues.</td>
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<td>Discusses pertinent Federal Aviation Regulations and security issues.</td>
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<td>AVSC 3140</td>
<td>Fixed Base Operations Management</td>
<td>3:3:0</td>
<td>Sp; DE</td>
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<td>• Prerequisite(s): AVSC 2150</td>
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<td>Prepares students for employment and management at a fixed base operation and related general aviation management.</td>
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<td>Covers the organization, profit, maintenance, and safety systems concerning fixed base operators.</td>
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<td>Presents pertinent Federal Aviation Regulations, facility management, and advertising issues.</td>
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<tr>
<td>AVSC 3200</td>
<td>Flight Physiology</td>
<td>3:3:0</td>
<td>F; DE</td>
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<td>For pilots with a career goal in commercial Aviation.</td>
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<td></td>
<td>Teaches physiological and psychological factors that affect pilot performance.</td>
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<td>Studies issues such as human error, fatigue, fitness, attitudes, training devices, controls, cabin space, and human payload.</td>
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<td>Includes lecture, demonstration, experiments, group projects, class discussion, and possible guest lecturers.</td>
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<tr>
<td>AVSC 3210</td>
<td>Aircraft Crash and Emergency Management</td>
<td>3:3:0</td>
<td>DE</td>
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<td></td>
<td>• Prerequisite(s): AVSC 2160</td>
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<td></td>
<td>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.</td>
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<td>Emphasizes post crash/aircraft incident preservation of forensic evidence.</td>
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<td>AVSC 3220</td>
<td>Aircraft Accident Investigation</td>
<td>3:3:0</td>
<td>DE</td>
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<tr>
<td></td>
<td>• Prerequisite(s): AVSC 2160</td>
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<td></td>
<td>Explores the fundamental requirements of aircraft mishap and accident investigation.</td>
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<td></td>
<td>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.</td>
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<td>AVSC 3230</td>
<td>Accident Witness Interview</td>
<td>3:3:0</td>
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<td>• Prerequisite(s): AVSC 3210 or AVSC 3220</td>
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<td>Teaches the currently recommended techniques for conducting an accident witness interview and common mistakes.</td>
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<td>Presents methods of evaluating and analysis of interview information. Case studies and role playing will be used in classroom exercises.</td>
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<tr>
<td>AVSC 3240</td>
<td>Aviation Accident Reporting</td>
<td>3:3:0</td>
<td>DE</td>
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<td>• Prerequisite(s): AVSC 3210 or AVSC 3220</td>
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<td>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.</td>
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<td>Involves turning accident investigation data into an accident report.</td>
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<tr>
<td>AVSC 3300</td>
<td>Jet Transport Systems</td>
<td>3:3:0</td>
<td>F; DE</td>
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<td></td>
<td>• Prerequisite(s): AVSC 2440, Commercial Pilot Certificate</td>
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<td>For the commercial pilot desiring training in turbine driven engines, thrust vectoring, pneumatics, electrical, hydraulic, and auxiliary systems.</td>
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<td>Includes subjects such as pressurization, de-ice and anti-ice, environmental, and warning systems.</td>
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<td>Utilizes schematic drawings, computer based trainers, and various jet operating manuals. Includes lecture, class discussion, demonstrations, group practice, and possible guest lecturers.</td>
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<tr>
<td>AVSC 3400</td>
<td>High Altitude Navigation/International Flight Operations</td>
<td>3:3:0</td>
<td>Sp; DE</td>
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<td>• Prerequisite(s): AVSC 3300</td>
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<td>Covers the advanced navigation systems of commercial aircraft.</td>
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<td>Explores VOR/DME, Loran-C, IRS (three ring laser gyro), and GPS navigational aids.</td>
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<td>Teaches the operation of the “Glass Cockpit” flight data center. Explains international flight operations.</td>
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<td></td>
<td>Uses in class lectures, demonstrations, individual experimentation, and computer based trainer experience.</td>
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<tr>
<td>AVSC 3530</td>
<td>Advanced Aerodynamics</td>
<td>3:3:0</td>
<td>Sp; DE</td>
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<td>• Prerequisite(s): AVSC 3300</td>
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<tr>
<td></td>
<td>For commercial pilots. Teaches the aerodynamics involved in commercial aircraft.</td>
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<td>Includes aircraft turning and accelerated climb performance, take off velocity, load factors, hypersonic flight, and laminar flow airfoils.</td>
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<td>Includes demonstration, examples, experiments, and class discussion.</td>
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<tr>
<td>AVSC 3600</td>
<td>Crew Resource Management/Human Factors</td>
<td>3:3:0</td>
<td>F; DE</td>
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<td></td>
<td>• Prerequisite(s): Commercial Pilot Certificate</td>
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<td>Explores concepts of Crew Resource Management (CRM) employed by commercial airlines.</td>
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<td>Covers crew coordination, communication, and resource management in a professional airline atmosphere.</td>
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<td>Utilizes class discussions, role plays, lecture, guest lecturers, and group experiences.</td>
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<tr>
<td>AVSC 3610</td>
<td>Aviation Safety and Security</td>
<td>3:3:0</td>
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<td></td>
<td>• Prerequisite(s): AVSC 2050</td>
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<td></td>
<td>Explores aviation safety and security in the 21st century.</td>
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<td>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.</td>
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<td>AVSC 3740</td>
<td>Advanced Methods in Aviation Investigation</td>
<td>3:3:0</td>
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<td>• Prerequisite(s): AVSC 3220</td>
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<td></td>
<td>Teaches current scientific techniques for the analysis of aircraft materials, components, performance and design.</td>
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<td>Considers aircraft crashworthiness. Discusses the process of establishing facts from analysis and of the findings of an aircraft investigation and probable vs. proximate cause.</td>
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<tr>
<td>AVSC 410G</td>
<td>Global Ethical and Professional Issues in Aviation</td>
<td>3:3:0</td>
<td>DE</td>
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<td>• Prerequisite(s): ENGL 1010, PHIL 2050</td>
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<td>Designed for aviation managers and pilots to develop a global perspective and understanding of key intercultural issues facing aviation.</td>
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<td>Studies the role of multi-culturalism and globalization, especially where these issues impact safety and the business environment.</td>
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<td>Includes a study of aviation regulation and scenario-based problem solving skills.</td>
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<td>AVSC 4200</td>
<td>Ground Turbine Transition</td>
<td>3:3:0</td>
<td>Sp; DE</td>
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<td></td>
<td>• Prerequisite(s): AVSC 3300, AVSC 3530</td>
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<td></td>
<td>• Corequisite(s): AVSC 4210</td>
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<td>For commercial pilots desiring a Citation type rating.</td>
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<td>Teaches operating practices of the Citation jet, along with systems indoctrination, and procedures training.</td>
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<td>Utilizes lecture, demonstration, and cockpit procedures trainers. Successful completers should be prepared to pass the FAA Citation type rating oral exam.</td>
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<tr>
<td>AVSC 4210</td>
<td>Flight Turbine Transition</td>
<td>1:0:3</td>
<td>Sp; DE</td>
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<td>Provides practical experience in preparation for the FAA Citation type rating practical exam.</td>
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<td>Teaches start up, taxi-off, en-route, approach, landing, shutdown, and emergency procedures.</td>
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<td>Utilizes individualized instruction in a cockpit procedures trainer, simulator, and Citation jet.</td>
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Course Descriptions

AVSC 4300
Ground Airline Transport
Pilot/Airport Dispatcher
3:3:0  On Sufficient Demand; DE
- 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. Covers FAA part 121 and 135 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; DE
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
- Corequisite(s): AVSC 485R
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  F, Sp; DE
- Prerequisite(s): Instructor approval
For upper division Aviation majors. Provides 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  F, Sp; DE
- Prerequisite(s): Instructor approval
- Corequisite(s): AVSC 481R
For upper division Aviation Science majors. Identifies 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  DE
- 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  DE
- 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.

BCCM—BUILDING CONSTRUCTION AND CONSTRUCTION MANAGEMENT

BCCM 1110
Principles of Residential Framing
3:3:0  F, Sp
For first year Building Construction and Construction Management students and interested community members. Studies basic principles of wood framing from sill plate through rafters. Includes guest lectures, field trips, and associated lab.

BCCM 1120
Blueprint Reading
2:2:0  F, Sp
Studies theory of projection, architectural symbols, relationships of views and measurements, plans and elevation views, sections, and details. Covers residential and commercial blueprint reading.

BCCM 1130
Concrete and Masonry
1:1:0  F, Sp
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
Includes OSHA and common safety rules for 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  F, Sp
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 1190
Framing and Concrete Lab
5:0:15  F
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
For second-year Building Construction students and interested community members. Covers installation of doors, window casings, moldings, paneling, gypsum board, floor materials, cabinets, siding, and roofing.

BCCM 1220
Finishing Lab
5:0:15  Sp
Provides practical lab experience in interior finishing including doors, windows, moldings, gypsum board, cabinets, siding, and roofing.

BCCM 1230
Construction Estimating
2:2:0  F, Sp
Studies step-by-step procedures used to estimate and prepare material and labor. Makes complete estimating data sheets from working drawings and specifications. Completers should be able to enter the field as estimating trainees.

BCCM 1240
Roof Framing
2:2:0  Su, F, Sp
Studies basic principles of all types of roof framing. Includes practical lab experience in laying out and cutting rafters. Completers of the first semester courses and this course should be able to enter the construction field as trainees.

BCCM 1250
Utah Contractors License Regulation and Procedure
2:2:0  F, Sp
Focuses on student preparation for the Utah Contractors Business Law Exam. Surveys legal business entities. Studies Utah license law, good construction management practices, liens laws, labor laws, and tax laws.

BCCM 1260
Computer Estimating
2:2:0  F, Sp
- Prerequisite(s): BCCM 1230 or estimating experience, EGDT 1600 or Math 1050 College Algebra
For Building Construction majors and other students interested in estimating using computer applications based on Timberline Software. Studies different industry data bases, performing takeoffs, creating estimates, bids, and reports.

BCCM 281R
Cooperative Work Experience
1 to 8:0:5 to 40  Su, F, Sp
- Corequisite(s): BCCM 285R first time only
For Building Construction and Construction Management 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 taken twice for credit.
BCCM 285R
Cooperative Correlated Class
1:1:0 Su, F, Sp
• Corequisite(s): BCCM 281R first time only
For Building Construction and Construction Management majors. Identifies on-the-job problems and provides remediation of those problems through in-class discussion and study. Includes the study of identifying and maximizing service opportunities. Students register for this class with approval of the Coop coordinator. 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 taken twice for credit.

BCCM 299R
VICA
1:1:0 F, Sp
For Building Construction and Construction Management 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 taken once a year for two years (two credits total).

BCCM 3270
Residential Project Management and Scheduling
3:3:0 F, Sp
• Prerequisite(s): BCCM 1230
For Building Construction majors and other students interested in scheduling using computer applications based on scheduling software. Emphasizes planning, scheduling, and controlling resources and costs.

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
2:2:0 F, Sp
• Corequisite(s): (ANTH 101G or PSY 1010 or SOC 1010 or SW 1010) and (ENGL 2010 or ENGL 2020) and (PSY 020 or SOC 020)
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 Su, F, Sp
• 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 (ENGL 2010 or ENGL 2020)
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 6 credits toward graduation.

BIOL—BIOLOGY

BIOL 1010**
General Biology
3:3:0 Su, F, Sp; DE
• Prerequisite(s): ACT, or equivalent, reading score of 19 or higher, or any college-level reading or English course with a C- or better
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
• Prerequisite(s): ACT, or equivalent, reading score of 19 or higher, or any college-level reading or English course with a C- or better
• 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 Su, F, Sp
• Prerequisite(s): None, BIOL 1010 and an assessment DRP score of at least 77 are strongly recommended
Introduces genetics for non-majors. Addresses patterns of inheritance from generation to generation (with an emphasis on human heredity), DNA structure and function as well as other aspects of molecular genetics.

BIOL 1200 (Cross-listed with: GEO 1020)
Prehistoric Life
3:3:0 Su, F, Sp
• Prerequisite(s): BIOL 1010 or GEO 1010 recommended
Studies prehistoric life. Uses the concepts of biology and physical science. Studies major groups of ancient animals and plants as found in the rock record. Includes aspects and fundamental concepts of biology, ecology, and geology.

BIOL 1500 (Cross-listed with: ANTH 1020)
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 humankind.

BIOL 1610
College Biology I
4:4:0 F, Sp
• Prerequisite(s): An assessment DRP score of at least 85
• Corequisite(s): BIOL 1615
Designed to give biology majors a broad exposure to many aspects of the life sciences. Covers topics of biochemistry, energetics, cell structure and function, genetics, and evolution.

BIOL 1615
College Biology I Laboratory
1:0:2 F, Sp
• Corequisite(s): BIOL 1610
A 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 1620
College Biology II
3:3:0 F, Su, Sp
• Prerequisite(s): BIOL 1610
• Corequisite(s): BIOL 1625
Provides the second semester material in the two semester introductory course designed for biology majors. Covers origin and early evolution of life, plant structure and function, plant diversity, animal structure and function, animal diversity, and animal behavior.
Course Descriptions

**BIOL 1625**
College Biology II Laboratory
1:0:2  Su, F, Sp
- Corequisite(s): BIOL 1620
Laboratory course to accompany BIOL 1620. Topics covered include animal biology and diversity and plant biology and diversity.

**BIOL 202R** (Cross-listed with: GEO 202R)
Science Excursion
1:0:2  Su, F, Sp
For students interested in the natural world. Explores a wide variety of topics in science, including geology, botany, astronomy, zoology, ecology, and archeology. Consists of a minimum of a four-day field trip. Participants should gain an increased understanding of several fields of scientific study. May be repeated as many times as desired for interest.

**BIOL 204R** (Cross-listed with: GEO 204R)
Natural History Excursion
3:1:6  Su, F, Sp
For students interested in the natural world. Promotes an in-depth look at a wide variety of topics in science, including geology, botany, astronomy, zoology, ecology, and archeology. Consists of 15 hours of lecture plus an appropriate field trip. Participants should gain an interdisciplinary understanding of science and nature. May be repeated for up to six credits toward graduation.

**BIOL 2500**
Environmental Biology
3:3:0  F, Sp
- Prerequisite(s): An assessment DRP score of at least 85, BIOL 1010 or BIOL 1610 is recommended
Designed to acquaint students with the principles of ecology emphasizing population dynamics, energetics, structural components, and concepts of niche and succession. Discusses the interactions of ecological principles and humanity's technology relative to the world today and factors that influence the quality of life.

**BIOL 290R**
Special Topics in Biology
3:3:0  On Sufficient Demand
Examines and explores special topics relating to the field of Biology. Emphasizes areas of rapid growth in Biology or current importance to society. May be repeated for a total of six credits toward graduation.

**BIOL 295R**
Independent Studies in Life Sciences
1 to 4:0:3 to 12  Su, F, Sp
- Prerequisite(s): At least 3 credit hours of college level biology, approval of a faculty mentor, and approval of the department chair
Provides individual studies in biology under the direction of a faculty mentor. May include literature reviews, original research, and participation in ongoing departmental projects. Introduces students to the methodology of life science research. Students will prepare oral and written reports of their projects.

**BIOL 3000**
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.

**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
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  Sp
- Prerequisite(s): BIOL 1620 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  Sp
- Corequisites(s): BIOL 3550
Performs experiments in molecular biology including cDNA synthesis, gene cloning, DNA sequencing, polymerase chain reaction (PCR), computer analysis of nucleic acid and protein sequences, protein expression-screening and protein separation and characterization.

**BIOL 3600** (Cross-listed with: CHEM 3600)
Biological Chemistry
3:3:0  F, Sp
- Prerequisite(s): CHEM 2320

**BIOL 3605** (Cross-listed with: CHEM 3605)
Biochemistry Laboratory
1:0:4  On Sufficient Demand
- Corequisite(s): BIOL 3600
Introduces laboratory techniques in biochemistry. Studies methods and theory behind purification of proteins and nucleic acids including chromatography and electrophoresis. Uses methods in assessing enzyme activity and kinetics and protein structure analysis. Includes analysis and manipulation of DNA and RNA.

**BIOL 3650**
Biotechnology
2:1:3  On Sufficient Demand
- Prerequisite(s): MICR 3450, BIOL 3600
- Corequisite(s): BIOL 3500
Primarily for students majoring in Biology. Teaches principles of biotechnology including DNA purification and cloning, protein expression and analysis. Studies DNA sequencing, restriction fragment length polymorphism analysis, electrophoresis, cell culture, and polymerase chain reaction techniques. Includes laboratory experience.

**BIOL 3700**
General Ecology
3:3:0  F, Sp
- Prerequisite(s): BIOL 1620 (or equivalent with instructor consent)
Examines 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  F
- 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 physicochemical 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 5:10 Su
- Prerequisite(s): Departmental Approval
For licensed teachers or teachers seeking to recertify, an update course in biology content and/or basic biology courses for the biology endorsement from the Utah State Office of Education. Teaches principles of biology and pedagogy of teaching biology for teachers in public or private schools. Emphasis will be placed on correlation with the Utah Core Curriculum, the National Science Education Standards, and the Benchmarks of Project 2061. Topics will vary.

Biol 4260 Ethical Issues in Biology 2:1:2 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.

Biol 4450 Immunology 3:3:0 Sp
- Prerequisite(s): MICR 2060 or MICR 3450 or ZOOL 2420
- Corequisite(s): BIOL 4455
Explores the macromolecules, cells and organs involved in innate and adaptive immunity. Examines the development of lymphocyte repertoire, positive and negative selection of lymphocytes and the production of effector lymphocytes. Studies properties of antigens, vaccines, antigen presenting cells and the mechanisms of antigen presentation. Reviews major immunological methods for medical diagnostics and other applications. Examines causes and consequences of autoimmune and lymphoproliferative diseases and immunodeficiencies. Probes how immune response could be manipulated for cancer therapy and transplantation medicine.

Biol 4455 Immunology Laboratory 1:0:2 Sp
- Corequisite(s): BIOL 4450
Addresses federal, local and institutional regulations on using vertebrate animals for biomedical research. Teaches and regularly practices aseptic techniques required in handling biohazardous materials including vertebrate tissues. Studies how to collect tissues and blood from vertebrate animals and process the samples for harvesting various types of cells and macromolecules. Presents common immunological techniques such as western blot analysis and ELISA. Covers how to immunize animals using appropriate adjuvant and harvest plasma from immunized animals to isolate immunoglobulin. Examines tissue typing methodologies including PCR techniques.

Biol 4500 Principles of Evolution 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, BTEC) courses.
Focuses on the concepts of evolution as a fundamental principle of biology with emphasis on change at the molecular level. Teaches how natural selection shapes the evolution of genes, gene systems, macromolecules, and organisms. Explores the roles of mutation, natural selection, population size and subdivision, and genetic recombination. Introduces different approaches for testing hypotheses about how molecules evolve by using phylogenetic analysis.

Biol 481R Biology Internship 1 to 4:0:0 to 20 Su, F, Sp
- 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 489R Special Topics in Biology 1 to 4:0:0 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 489R Seminar 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 489S Student Research 1 to 4:3:0 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 2:0:3 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.
Course Descriptions

**BIT—Building Inspection Technology**

**BIT 1010**
Building Codes
3:3:0 F, Sp; DE, ED
Teaches the nonstructural standards of the Uniform Building Code. Includes occupancy classifications, building area, height and location limits, exit requirements, and fire-resistant standards.

**BIT 1020**
Residential Codes
3:3:0 F, Sp
Teaches the nonstructural standards of the International Residential Code. Includes foundations, walls, floors, roofs, finishes, heating, cooling, plumbing and electrical codes as they apply to residential construction.

**BIT 1170**
Field Lab—Building Codes
1:0:3 Su, F, Sp
For students, building inspectors, architects, and builders. Provides practical on-the-job experience in inspecting footings, foundation walls, reinforcement steel, the building structure, and interior and exterior coverings.

**BIT 1230**
Plan Review
3:3:0 F, Sp
- Prerequisite(s): BIT 1010 or instructor’s approval.
  Designed to introduce students to the techniques of nonstructural plans examination through familiarization of the plan and construction documents, specifications, and the application of code requirements.

**BIT 1240**
Plumbing Codes
3:3:0 F, Sp; DE
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 F, Sp; DE
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 F, Sp; DE
Studies the National Electrical Code in its entirety. Covers electrical wiring systems, methods, electrical equipment, special occupancies, special equipment, special conditions, and communication systems.

**BIT 1380**
Ride-Along Lab
1:0:3 Su, F, Sp
For students, building inspectors, architects, and builders. Students will accompany a building inspector as he or she conducts on-the-job inspections. There will be a rotation system established to give students experience in a variety of jurisdictions. This class is for fourth-semester students only.

**BIT 281R**
Cooperative Work Experience
1 to 8:0:5 to 40 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
1:1:0 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
3:3:1 Sp
- Prerequisite(s): BMED 3700, DGM 2350, DGM 2360, DGM 3270, DGM 3820, EDSC 3000
  Provides instructional strategies for teaching keyboarding and computer applications.

**BMED 4250**
Methods of Teaching Business and Marketing
3:3:1 F
- Prerequisite(s): ACC 2010, BMED 3700, EDSC 3000, LEGL 3000, MGMT 2200, ECON 2020, MGMT 3600
  Provides an opportunity for prospective teachers to become facilitators of learning specifically by planning, developing, delivering, and evaluating basic business and marketing curriculum.

**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): None, BIOL 1010 or BOT 2400 recommended; also, an assessment DRP score of at least 77 is strongly 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.
Course Descriptions

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 Sp
- 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): BOT 2050 or BOT 2100 or BOT 4200
- Explores the diversity and biology of woody plants in Utah and their ecological importance. Field trips required.

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 cannot receive credit for both Bot 4600 and Bot 3340.

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
- 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
3:0:6 Sp
- Prerequisite(s): BTEC 1010, BIOL 1610
- 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
2:0:4 F
- Prerequisite(s): BIOL 1610 and BIOL 1615
- 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
3:0:6 F
- Prerequisite(s): 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 Sp
- 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
- Prerequisite(s): BIOL 1610, junior standing in Biotechnology B.S. program, and instructor approval.
- 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 3:0 to 4:0 Su, F, Sp
- Prerequisite(s): BIOL 1610
- Explores and examines special topics relating to the field of biotechnology. Emphasizes areas of rapid growth in biotechnology or current importance to society. May be repeated for a maximum of 10 credits.

BTEC 490R Special Topics in Biotechnology
1 to 4:0 to 4:0 to 8 On Sufficient Demand
- Prerequisite(s): BIOL 1610
- 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.

CA—Culinary Arts

CA 1120 Cooking Skills Development
4:5:2:5 F, Sp
- Prerequisite(s): Matriculation and acceptance into the Culinary Arts Institute
- Corequisite(s): CA 1130, CA 1310
- Teaches basic food service skills in a commercial kitchen environment. Stresses the use of standardized recipes and procedures. Provides daily and product critiquing. Includes rotation between stock and sauce station, soup station, garde manger station, and breakfast station. Emphasizes sanitary food handling practices and professional work habits.

CA 1130 Baking Skills Development
4:5:2:5 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 and product critiquing. Includes simple yeast-raised products, quick breads, pies, and custards. Emphasizes sanitary food handling practices and professional work habits.

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Course Descriptions

CA 1150 Nutrition and Food Service 3:3:0 F, Sp
Provides an understanding of how and why the relationship between food and health has moved into sharp focus. This course will trace the change in dietary patterns that have been noted by the food service industry. This course has been designed to help meet the need of developing adequate healthful food programs. You will learn about the changes in eating attitudes and be able to define the various responsibilities of the food service industry. You will learn how to identify whether a market exists for a healthful food program and how to plan and manage such a program. The course will also explore nutrients and their food sources; physiological and metabolic aspects of nutrient functions; individual requirements; food choices and selection; prevention and treatment of common nutritional-related disease; along with contemporary and controversial issues.

CA 1230 Professional Kitchen I-Cooking 4.5:2:7.5 F, Sp
- Prerequisite(s): CA 1120 and CA 1130
- Corequisite(s): CA 1240
Continuation of CA 1120. Emphasizes proper preparation of entree, starch, vegetable, and small sauce cookery, along with cold and hot hors d’oeuvres and canapés. Provides daily end product for evaluation. Includes rotation between vegetable/starch station, garde manger station, and entree station.

CA 1240 Professional Kitchen I--Baking/Pastry 4.5:2:7.5 F, Sp
- Prerequisite(s): CA 1120 and CA 1130
- Corequisite(s): CA 1230
Continuation of CA 1130. Emphasizes proper preparation of plated desserts, cakes and torts, petit fours, and laminated doughs. Studies the use and role of value added dessert items, and banquet and catering dessert requirements.

CA 1310 Purchasing and Storeroom Management 3:3:0 F, Sp
- Corequisite(s): CA 1120 and CA 1130
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 1480 Sanitation and Table Service 3:3:0 F, Sp
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 2120 Professional Kitchen II 3:0:4 F, Sp
- Prerequisite(s): CA 1230 and CA 1240
Teaches the creation of soups, salads, appetizers, hot and cold entrees, and baked items from French, Italian, and Pacific Rim cuisine. Studies cold food methods, techniques, and presentations using modern and classical methods of a Garde Manger.

CA 2320 Professional Kitchen III 9:4:15 F, Sp
- Prerequisite(s): CA 2120
Surveys regional American cooking with an emphasis on contemporary techniques and ideas. Teaches planning and production of salads, soups, appetizers, entrees, and side-dishes. Emphasizes specialty baked, pastry, and dessert products.

CA 2430 Menu/Facilities Design and Beverage Management 3:3:0 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. 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 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): CA 1120 and CA 1130
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, torts, pastries, chocolate, and desserts. Provides daily end-product critiquing.

CA 282R Culinary Arts Internship 3 to 8:1 to 3 to 0 On Sufficient Demand
- Prerequisite(s): Culinary Arts Institute Director Approval: CA 1230 and CA 1240
For students working toward an Associate of Applied Science Degree in Culinary Arts. 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. Eight hours of Internship work experience will be required toward graduation in the Culinary Arts degree.

CA 296R Culinary Arts Seminar 1 to 3:1 to 3:0 to 3 On Sufficient Demand
- 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 AGF 1:0.5:2 F, Sp
For Culinary Arts students who are interested in participating with a national professional association (American Culinary Federation). Prepares students to participate in local, state, and national competitions. May require payment of membership dues. A maximum of four credits may be applied toward graduation.

CA 299R VICA 1:0.5:2 F, Sp
For Culinary Arts students who are interested in participating with a national vocational student organization (Vocational Industrial Clubs of America) that develops social awareness, civic responsibility, vocational and leadership skills through participation in educational, vocational, civic, recreational, and social activities. Prepares students to participate in local, state, and national competitions. May require payment of membership dues. A maximum of four credits may be applied toward graduation.

CA 491R Cooperative Work Experience 2 to 9:1:5 to 40 On Sufficient Demand
- 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 cabinetmaking methods including joinery, construction, gluing, and clamping. Includes building a set of residential cabinets. Introduces hand and portable electric and air tools. Covers tool care and minor repairs. Stresses functions, selection, maintenance, and safety.

**CAW 1140**  
Millworking and Safety Shop I  
5:0:15  
F  
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  
1:1:9  
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 jointers, 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 joints, finishing techniques, and fastening devices. Stresses safety.

**CAW 1259**  
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 woodwork trainee.

**CAW 234A**  
Millworking Shop III  
2:5:0:7.5  
F  
Custom cabinetmaking shop. Covers half of CAW 2340. Practice in making and setting up custom flat and curved veneer and lamination work. Includes lathe work on the duplicator attachments. Completers should be able to enter the field as a cabinet and architectural woodwork trainee.

**CAW 234B**  
Millworking Shop III  
2:5:0:7.5  
Sp  
Custom cabinetmaking shop. Covers half of CAW 2340. Practice in making and setting up custom shaper knives, doing custom flat and curved veneer and lamination work. Includes lathe work on the duplicator attachments. Completers should be able to enter the field as a cabinet and architectural woodwork trainee.

**CAW 2340**  
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 2381R**  
Cooperative Work Experience  
1 to 8:0:5 to 40  
F, Sp  
For CAW majors. Provides paid, on-the-job work experience in the student’s major. Work experience, the related class, and enrollment are coordinated by the Cooperative Coordinator. Includes student, employer, and coordinator evaluations, on-site work visits, written assignments, and oral presentations. Provides experience in writing and completing individualized work objectives that improve present work performance. May be repeated twice for credit.

**CAW 285R**  
Cooperative Correlated Class  
1:1:3  
F, Sp  
Corequisite(s): CAW 285R the first time only  
For CAW majors. Identifies on-the-job problems and provides remediation of those problems through in-class discussion and study. Includes the study of identifying and maximizing service opportunities. Students register for this class with approval of the Cooperative Coordinator. Includes lectures, guest speakers, video tapes, role playing, case analysis, oral presentations, and written assignments. Completers should be better able to perform in their field of work or study. May be repeated twice for credit.

**CAW 289R**  
Skills USA  
1:1:0  
F, Sp  
For CAW majors. Supports and facilitates the goals and objectives of “Skills USA.” Develops social awareness, civic, recreational, and social activities. May include participation in local, state, and national contests.
Course Descriptions

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 Organic Chemistry 4:4:0 Su, F, Sp
- Prerequisite(s): CHEM 1101 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 F, Sp
- Corequisite(s): CHEM 1110
  Introduces inorganic laboratory experiments including density, precipitation, determination of empirical formulas, gas laws and acid-base reactions.

CHEM 1120 Elementary Organic Chemistry 4:4:0 Su, 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, organic functional groups and their reactivities, stereochemistry, major biomolecules and their metabolism, enzymes, chemical communications, and chemistry of heredity. May also be used to prepare for organic chemistry (CHEM 210 and 2210). Students who need or desire laboratory work should enroll in CHEM 1125 also.

CHEM 1125 Elementary Organic Chemistry Laboratory 1:0:3 F, Sp
- Prerequisite(s): CHEM 1110 and CHEM 1115
- Corequisite(s): CHEM 1110
  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
  Continuation of CHEM 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
- 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 2130 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 2135 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 2130 and 2320. For students majoring in science and those interested in careers in medicine, dentistry, veterinary science, and pharmacy. Introduces laboratory safety and chemical waste disposal. Teaches basic separatory, purification, and analytical techniques in organic chemistry such as crystallization, melting points, distillation and chromatography. Teaches 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, who must complete two semesters of organic chemistry. Introduces spectroscopic techniques used in identification of organic compounds. Teaches carbon-carbon bond formation strategies. Introduces the concept of aromaticity. Teaches free radicals and their effects on environment and life. Surveys biologically important organic molecules such as carbohydrates, proteins, lipids, and nucleic acids.

CHEM 3000 Analytical Chemistry 4:2:6 F
- Prerequisite(s): CHEM 1125
  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 1225
- Corequisite(s): CHEM 3025
  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
- Corequisite(s): CHEM 3025
  Laboratory course which supports CHEM 3020, Environmental Chemistry. Introduces laboratory, sampling, and data analyses techniques used in environmental laboratories. Covers air sampling, and soil and water analysis using a variety of instruments and techniques.

CHEM 3060 Physical Chemistry I 4:4:0 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 Sp  
- Prerequisite(s): CHEM 3060  
Continuation of Chemistry 3060. Covers quantum mechanics, spectroscopy, kinetics, and statistical thermodynamics.

**CHEM 3090**  
Physical Chemistry Applications in Biology  
3:3:0 On Sufficient Demand  
- Prerequisite(s): MATH 1220, CHEM 2320  
Presents application of thermodynamics, quantum mechanics, and spectroscopy to biology and biological problems. Cannot be used to replace either CHEM 3060 or CHEM 3070 in the chemistry major sequence.

**CHEM 3100**  
Advanced Inorganic Chemistry  
4:4:0 Sp  
- Prerequisite(s): CHEM 3000 recommended (may be taken as a corequisite)  
Reviews major trends across the periodic table. Surveys basic structure, bonding, and oxidation states of the elements. Introduces inorganic stereochemistry including coordination compounds.

**CHEM 3115**  
Physical and Inorganic Chemistry Laboratory  
1:0:4 Sp  
- Prerequisite(s): CHEM 3000, CHEM 3060  
- Corequisite(s): CHEM 3100, CHEM 3070  
Covers both inorganic chemistry and physical chemistry topics. Inorganic chemistry experiments follow lecture topics in CHEM 3100 and physical chemistry experiments follow lecture topics in CHEM 3060 and CHEM 3070.

**CHEM 3200**  
Chemistry Literature  
1:0:2 Not 08-09  
- 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 F, Sp  
- Prerequisite(s): CHEM 2320  

**CHEM 3605**  
Biochemistry Laboratory  
1:0:4 Sp  
- Corequisite(s): CHEM 3600  
Introduces laboratory techniques in biochemistry. Studies methods and theory behind purification of proteins and nucleic acids including chromatography and electrophoresis. Uses methods in assessing enzyme activity and kinetics and protein structure analysis. Includes analysis and manipulation of DNA and RNA.

**CHEM 3620**  
Biological Chemistry II  
3:3:0 On Sufficient Demand  
- 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 1.

**CHEM 3700**  
Forensic Analytical Chemistry  
3:3:0 On Sufficient Demand  
- 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 on Earth  
3:3:0 F  
- 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 Sp  
- Prerequisite(s): CHEM 3000, CHEM 3070  
- Corequisite(s): CHEM 3115  
Covers modern instrumental methods and basic principles of instrumentation. Includes spectroscopic and chromatographic analysis.

**CHEM 4005**  
Instrumental Analysis Laboratory  
2:0:6 Sp  
- Prerequisite(s): CHEM 3000, CHEM 2325  
- Corequisite(s): CHEM 4000  
Experiments in selected areas of instrumental methods of analysis. Covers both quantitative and qualitative methods of analysis. Includes introductory laboratory exercises and laboratories using advanced sample preparation and instrumental analysis techniques. Involves the independent creation and implementation of an advanced laboratory exercise.

**CHEM 4030**  
Radiochemistry  
3:3:0 On Sufficient Demand  
- Prerequisite(s): CHEM 1215, MATH 1220  
For students in chemistry, earth sciences, biology, and physics. Introduces nuclear and radiochemistry, stressing the fundamentals of nuclear structure, systematics of nuclear decay, the detection and measurement of radiation, radiation protection, and the role of nuclear chemistry in medical, environmental and scientific applications. Discusses nuclear fuel cycles and nuclear waste problems.

**CHEM 4200**  
Teaching Methods in Science  
3:3:0 F, Sp  
- Prerequisite(s): Acceptance into secondary education program; senior-level standing  
Examines objectives, instructional methods and curriculum for teaching science in the secondary school. Includes developing, adapting, evaluating, and using strategies and materials for teaching biological and physical sciences. Explores special needs of the learners and characteristics specific to the science discipline.

**CHEM 425R**  
Chemistry for Teachers  
1 to 5:1 to 5:0 to 10 Su  
- Prerequisite(s): Departmental Approval  
For licensed teachers or teachers seeking to recently. 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 On Sufficient Demand  
- Prerequisite(s): CHEM 3600 or BIOL 3600  
Explores the science behind pharmacological therapeutics. Examines general considerations such as pharmacokinetics, drug metabolism, and Toxicology. Surveys focused topics including drugs and drug targets for a wide variety of diseases.

**CHEM 482R**  
Chemistry Internship  
1 to 4:0:5 to 20 Su, F, Sp  
- Prerequisite(s): CHEM 2320 and CHEM 3200 and a minimum GPA of 3.0; and Departmental approval of the internship proposal.  
Provides supervised, practical, and research experience for students preparing for careers in chemistry. May be repeated for a maximum of twelve credit hours as per school standards.

**CHEM 489R**  
Undergraduate Research in Chemistry  
1 to 3: 0: 3 to 9  
- 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 technique, data collection and analysis, and preparation of research for presentation to an audience of peers will be emphasized. May be repeated for a maximum of 9 credits toward graduation.
Course Descriptions

CHEM 490R
Chemistry Seminar 0.5: 0.5:0 Not 08-09
- Prerequisite(s): CHEM 2320
Exposes students to current research topics in Chemistry and related fields. Provides an opportunity for students to attend weekly lectures presented by department faculty and invited speakers. These lectures are presented at a level appropriate for junior and senior chemistry majors. May be repeated for a maximum of 2 credits toward graduation.

CHEM 491R
Advanced Topics in Inorganic Chemistry 3:3:0 On Sufficient Demand
- Prerequisite(s): CHEM 1220 and instructor's permission. CHEM 3100 or CHEM 3600 or BIOL 3600 recommended
Examines advanced and current topics of inorganic chemistry including bioinorganic chemistry, symmetry and molecular orbital theory, and the descriptive chemistry of main-group compounds. Varies from semester to semester. Offered on demand. May be repeated for a maximum of nine credits.

CHEM 495R
Advanced Topics in Organic Chemistry 3:3:0 On Sufficient Demand
- Prerequisite(s): CHEM 2310, CHEM 2320, Instructor approval
For students majoring in Chemistry. Varies from semester to semester. May be repeated for a maximum of nine credits. Topics include organic synthesis, reaction mechanisms, and identification of organic compounds.

CHEM 499R
Independent Study and Research 1 to 4:0:3 Su, f, Sp
- Prerequisite(s): CHEM 3200 and Instructor approval
Uses independent study on selected topics and conducting experiments in the same topic. Provides guidance by a faculty member. May be taken for a maximum of four credits.

CHIN 1000
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 2000
Intermediate Chinese I 5:5:1 F
- Prerequisite(s): Students need equivalent knowledge of CHIN 1020
Emphasizes increased communicative ability as well as grammatical accuracy; adds more complex, literary grammatical structures; focuses on reading of basic 600 characters and writing of basic 300 characters. Uses digitowave (mixture of English and Chinese) and character-Romanization mix to ease learning of characters.

CHIN 2020
Intermediate Chinese II 3:3:0 HH
- Prerequisite(s): CHIN 2010
Consists of lectures presented by guest speakers on current topics in forensic science. May apply a maximum of three credits toward graduation.

CJ 1000R
Forensic Science Lecture Series 1:1:0 Su, F, Sp
Consists of lectures presented by guest speakers on current topics in forensic science. May apply a maximum of three credits toward graduation.

CJ 1010
Introduction to Criminal Justice 3:3:0 Su, F, Sp; DE
- 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 Laboratory 1:0:3 Sp, F
- Corequisite(s): CJ 1350
Analyzes different kinds of physical evidence in the laboratory. Reviews the metric system of measurements. Uses microscopy to examine hair, fiber, and tool marks. Uses casting techniques to preserve toolmark impression evidence. Uses photography to preserve and compare impression and pattern evidence. Analyzes bloodstain patterns for point of origin. Analyzes dye and ink by thin layer chromatography. Detects the presence of metal residue with chemical reaction tests.

CJ 1390
Police Field Operations 3:3:0 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 moot court.

CJ 2110
Security Management and Loss Prevention
3:3:0  Sp; DE
- 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  Sp, F
- 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  F, Sp; DE
- Prerequisite(s): CJ 1330

CJ 2811R
Internship
1 to 8:0:0 to 40  Su, F, Sp
- Prerequisite(s): Approval of Woodbury School of Business Career and Corporate Manager
  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 2920
Short-Course Workshop
1 to 3:1 to 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  Sp
- 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  F
- 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  F
- 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  F
- 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  Sp
- 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  F, Sp
- Prerequisite(s): CJ 1330, ENGL 2010 or ENGL 2020
  Studies the definition of crime and the difficulties inherent in crime prevention and control. Develops methods to overcome stereotypes, biases and preconceptions.

CJ 3300
Victimology
3:3:0  Sp, F
- Prerequisite(s): CJ 1340 and ENGL 2010 or ENGL 2020
  Presents historic treatment and emerging roles of the crime victim in the criminal justice process. Investigates problems and dilemmas faced by crime victims and victimization risk factors. Studies systemic and societal creation of victims, relationships between victims and offenders, crime victim compensation and reparations.

CJ 3310
White Collar Crime
3:3:0  F
- Prerequisite(s): CJ 3270
  Discusses the implications of white-collar crime for criminal justice professionals and researchers. Examines various forms of white-collar crime using case studies and estimates the extent as well as the costs of these crimes. Focuses on victim and offender profiles and legal issues, including questions of corporate liability. Examines theoretical explanations for white-collar crime committed by individual offenders and corporations.

CJ 3320
Crime and Gender
3:3:0  Sp
- Prerequisite(s): CJ 1010
  Involves an in-depth approach to the study of women in the criminal justice system from both a theoretical and practical perspective. Covers three main areas: 1) women as offenders; 2) women as victims; and 3) women as criminal justice practitioners.

CJ 3360
Prisons--Contemporary Issues and Dilemmas
3:3:0  Sp
- Prerequisite(s): CJ 1010, ENGL 2010 or ENGL 2020
  Studies the troubled history of the corrections system. Targets current problems and explores possible solutions to those problems.

CJ 3390
Traffic Theory
3:3:0  Su
- 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  F, Sp
- Prerequisite(s): CJ 1010 and ENGL 2010 or ENGL 2020
  Presents historic, economic, and political roles of illegal drugs, their production and distribution systems. Investigates the impact that drug use has on crime, accidents, and criminal justice. Studies global, national, and local strategies to curtail drug distribution.

CJ 3500
Footwear Impression Evidence
3:2:3  Sp
- Prerequisite(s): CJ 1350
  Presents the history of footwear evidence and introduces the examination of footwear impressions.
Course Descriptions

Presents the anatomy of the human foot, its relationship to the manufacturing process, and resulting impressions. Explains crime scene protection and searching procedures. Explains why footwear impressions are overlooked and how to find them. Identifies and lists the basic equipment needed for footwear recovery at the crime scene. Identifies applicable chemical formulas and instructs in the preparation of chemical reagents used to visualize footwear impressions. Teaches lighting and other enhancements used to record and preserve footwear evidence. Recovers footwear evidence through photography, lifting, and casting. Teaches the methodology of footwear identification by impression comparison techniques.

CJ 3520
Tire Imprint Evidence
3:2:3 Sp
- Prerequisite(s): CJ 135L and CJ 1350 with a C+ or higher
Presents a brief history of the tire and tire sales. Explains the mechanics of the tire tread and sidewalls resulting in distinctive wear patterns. Teaches Crime Scene and Traffic Accident Investigation: recording tire imprints, wheelbase and tire tread stance measurements. Describes the Tire Imprint Identification System: tire noise treatments, wear indicators, tire impressions, and tire tread drawings. Explains what can be learned without a suspect's vehicle. Explains what can be learned when you do have a suspect's tire. Advises on preparing for trial and obtaining a consultant. Presents one case from the beginning to end. Presents a test case example on tire imprint identification.

CJ 3540
Forensic Trace Analysis I
3:2:3 Sp
- Prerequisite(s): CJ 135L 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.

CJ 3550
Forensic Trace Analysis II
3:2:3 On Sufficient Demand
- Prerequisite(s): CJ 135L 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.

CJ 3700
Fingerprint Examination I
3:3:0 F, Su
- Prerequisite(s): CJ 135L 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.

CJ 3720
Fingerprint Examination II
3:3:0 Sp
- Prerequisite(s): CJ 135L and CJ 3700 each with a C+ or higher

CJ 3740
Fingerprint Examination III
3:3:0 On Sufficient Demand
- Prerequisite(s): Instructor's Consent

CJ 3780
Bloodstain Pattern Analysis
3:3:0 On Sufficient Demand
- Prerequisite(s): CJ 135L 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.

CJ 3800
Computer Forensics and Cyber Crime
3:3:0 On Sufficient Demand
- Prerequisite(s): CJ 135L 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.

CJ 3820
Crime Scene Investigation Techniques I
3:3:0 F, Sp, Su
- Prerequisite(s): CJ 1340
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.

CJ 382L
Crime Scene Investigation Techniques Laboratory I
1:0:3 F, Sp, Su
- Prerequisite(s): CJ 1340
Corequisite(s): CJ 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.

CJ 3850
Marijuana Identification Certificate
3:2:2 On Sufficient Demand
- Prerequisite(s): CJ 135L 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 Mock Court.

**CJ 3860**
Forensic Microscopy
3:2:3 F, Sp

- Prerequisite(s): CJ 135L with a C+ or higher
Lays the foundation of forensic microscopy. Explains the theory of the microscope: light and lenses. Describes the major variants of the compound microscope including the stereo, polarized light and comparison varieties. Explains the function and purpose of the illuminator, substage condenser, objective, and ocular. Establishes acceptable performance criteria and image quality as it relates to compromises among resolution, magnification, and visibility. Presents the use of specialized contrast enhancement and illumination techniques. Explains the theory and use of the polarized light microscope in the examination of anisotropic, birefringent, and optical properties of crystalline materials. Describes the use of the microscope as a quantitative measuring tool. Introduces color analysis using a microscope attached to a spectrophotometer. Teaches instrument calibration methods and the principles of forensic microscopic spectrophotometric examination. Describes the collection and examination of microtraces and the use of microtrace catalogs.

**CJ 3880**
Professional Practices for the Forensic Scientist
3:3:0 F, Sp

- 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.

**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 Sp, F

- Prerequisite(s): Advanced standing in the BS Criminal 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 4400**
Forensic Chemist
3:3:0 F

- Prerequisite(s): CJ 135L, CJ 3820, CJ 3880 each with a C+ or higher, and CHEM 2320
- Corequisite(s): CJ 440L
Teaches safety precautions. Teaches the importance and procedures of evidence security, package seals to avoid contamination and loss. Instructs in case documentation and analytical notes in the laboratory. Teaches chemical analysis techniques including: net weight determination, sample preparation, presumptive testing, structural conformation and quantization. Teaches guidelines for data analysis, interpreting results, and writing analytical reports. Provides guidelines for case review and quality assurance. Teaches botanical identification and marijuana analysis. Presents methods for fiber and polymer analysis, paint sample preparation, and microscopic color analysis. Intends to replace the initial on-the-job training and professional seminars required of beginning forensic chemists after being hired in a crime laboratory.

**CJ 440L**
Forensic Chemist Laboratory
1:0:3 F

- Corequisite(s): CJ 4400
Stresses laboratory safety. Teaches evidence security, and the avoidance of contamination and loss. Instructs in case documentation and analytical notes in the laboratory. Teaches chemical analysis techniques including: net weight determination, sample preparation, presumptive testing, structural conformation and quantization. Teaches guidelines for data analysis, interpreting results, and writing analytical reports. Provides guidelines for case review and quality assurance. Teaches botanical identification and marijuana analysis. Presents methods for fiber and polymer analysis, paint sample preparation, and microscopic color analysis. Intends to replace the initial on-the-job training and professional seminars required of beginning forensic chemists after being hired in a crime laboratory.

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**Course Descriptions**

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**CJ 443R**
Directed Research in Forensic Science
2 to 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 form for publication, necessary for completion. May be repeated for a maximum of 7 credits toward graduation.

**CJ 4700**
Comparative Criminal Justice Systems
3:3:0 F, Sp; DE

- Prerequisite(s): CJ 250, 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

- 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 3:0:5 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.
Course Descriptions

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 3:1 to 3:3 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—College Success Studies

CLSS 0800 Introduction to Critical Thinking and Reading 5:5:0 On Sufficient Demand
- Prerequisite(s): Appropriate placement scores
Designed to give under prepared college students a “jump start” in college. Introduces critical thinking and reading skills with integrated vocabulary and concept development, using a wide range of reading, writing, and discussion methods and experiences. Gives intensive instruction in high utility, college-level vocabulary words. Emphasizes college survival study skills. Successful completion prepares students for “Critical Thinking and Reading.”

CLSS 0900 Critical Thinking and Reading 3:3:0 Su, F, Sp
- Prerequisite(s): Appropriate placement scores
For students wanting to increase their degree of college textbook reading power. Emphasizes comprehension, vocabulary growth and reading enjoyment. Develops college-level critical thinking and reading skills and builds academic confidence important for success in college. Successful completion prepares students for “Advanced Critical Thinking and Reading.”

CLSS 1000 Student Success 3:2:2 Su, F, Sp
- Prerequisite(s): Appropriate reading skills
Helps students develop a learning system for attaining maximum success in college, in work and in life. Presents effective techniques for dealing with time management, reading, writing, and critical thinking. Covers topics such as memory, note taking, test taking, and relationships. Develops an awareness of campus resources and assists students in exploring and establishing personal, academic, and career goals. Includes lectures, group interaction, exercises, and projects which apply learning to real life situations.

CLSS 1010 Student Success Topics 1 to 2:1 to 2:0 Not 08-09
- 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 GS F
Provides an overview of leadership styles, personalities, and organizational dynamics for student leaders. Explores the structure and culture of Student Leadership, Utah Valley University, the governing boards of higher education, and the State of Utah relating to shared governance and student involvement in campus leadership.

CLSS 1040 Student Leadership Development II 2:1:3 Sp
Focuses on the nature of leadership, citizenship, and advocacy in a democracy. Provides an overview of leadership and civics as crucial to the success of any leader, including a student leader.

CLSS 1050 Library Research 1:1:0 Su, F, Sp; DE
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): DRP score of 60 and above
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 1170 Advanced Critical Thinking and Reading 3:3:0 Su, F, Sp
- Prerequisite(s): Appropriate placement scores
Teaches advanced critical thinking and reading strategies on literal, interpretive and applied levels. Helps students develop a college textbook learning system in four stages: preparing to read, comprehending while reading, identifying, marking key information, and reducing and retaining what is read. Develops interactive reading strategies such as activating schema, predicting test questions, and college-level vocabulary development in many disciplines. Utilizes actual textbook chapters for application of strategies being learned. Helps student increase academic confidence and test scores while noticeably reducing study time. Successful completion prepares students to apply their advanced critical thinking and reading skills in any college course.

CLSS 1180 Speed Reading 2:2:0 F, Sp
- Prerequisite(s): Appropriate placement scores
For students with good reading skills who want to increase reading speed and flexibility while maintaining or increasing their level of comprehension. Also teaches methods of speed studying.

CLSS 1190 Power Reading Strategies 2:2:0 F, Sp
- Prerequisite(s): Appropriate placement scores
For independent learners with good reading skills who want to read more efficiently and effectively understand and remember what they are reading in college texts. Presents a wide variety of critical thinking and reading strategies. Offered only online.

CLSS 1200 The 7 Habits of Highly Effective People 3:3:0 Su, F, Sp
Provides the foundation for personal leadership by teaching fundamental principles of character and life-changing paradigms. Examines the personal and organizational components of effectiveness. Focuses on high leverage changes such as time management, communication skills, win/win negotiation, and principle-centered life choices. Prepares students for life-long success. Includes highly interactive class discussions, application exercises, videos, and group work.

CLSS 1300 Learning to Learn 2:2:0 Not 08-09
- Prerequisite(s): Completion of CLSS 1000 or appropriate level of reading and study skills
For students who possess basic study skills and desire advanced knowledge and techniques. Introduces the power of self motivation and concrete methods for moving beyond passive “information processing” to active classroom learning. Combines insights from philosophy, psychology, education, and studies on peak performance. Focus is on memory, thinking, creativity, concentration, and the personal dynamics of the learning process. Includes self-introspection, lecture, group interaction, and application of principles to the academic setting.

CLSS 2100 Career and Major Exploration 2:2:0 Su, F, Sp
For students seeking help in the selection of majors and careers. Assesses and clarifies interests, skills, values, and personal characteristics. Explores college majors, careers, and the world of work. Integrates knowledge of self with career options.
Teaches decision-making skills to help students make well-informed career decisions and goals. Develops an action plan for graduation.

**CLS 2200**
**Leadership Mentoring I**
3:3:0 Sp
- Prerequisite(s): CLSS 1000
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.

**CLS 2300**
**Leadership Mentoring II**
2:2:0 F
- Prerequisite(s): CLSS 1000
For UV Mentors who will assist faculty as peer mentors in Student Success or other course pairings. Emphasizes formation of learning communities to facilitate the transition of first-year students. Focuses on developing mentoring skills to help students connect to the institution; identifies UVU institution resources, policies, and procedures; and stresses effective academic strategies. UV Mentors develop communication and leadership skills as they process and integrate classroom experiences and responsibilities, while they assist first-year students. Includes lectures, collaborative learning activities, field experiences, case studies, student presentations, journal writing and portfolios.

**CLS 240R**
**Leadership Mentoring Practicum**
2:1:0 F, Sp
- Prerequisite(s): CLSS 1000, CLSS 2200, CLSS 2300
Allows UV Mentor to work with cooperating instructor to set goals and evaluate performance as a peer mentor in a CLSS 1000 classroom. Provides opportunities to demonstrate mentoring and presentation skills. Features organizing study groups, service learning, and student life activities. May be repeated for a maximum of 6 credits toward graduation.

**CLS 281R**
**Internship**
1 to 8:0:5 to 40 F, Sp
- Prerequisite(s): Department Approval
- Corequisite(s): CLSS 2100 recommended
Provides supervised, practical, and professional experience for students exploring a variety of career areas. May be repeated for a maximum of eight credit hours.

**CMGT—Construction Management**

**CMGT 1010**
**Introduction to Construction Management**
3:3:0
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 lectures, and field trips in addition to traditional classroom activities.

**CMGT 1020**
**Construction Materials and Methods I**
4:3:3
- Prerequisite(s): EGDT 1020 and CMGT 1010
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 1030**
**Principles of Construction Estimating**
3:3:0
- Prerequisite(s): CMGT 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 2010**
**Construction Job Site Management**
3:3:0
- 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, jobsite layout and control, labor relations, conflict resolution, project safety, and project closeout. Focuses on project quality and cost control.

**COMM—Communication**

**COMM 1020**
**Public Speaking**
3:3:0 Su, F, Sp; DE
Covers speech research, preparation, outlining, and delivery. Provides students with practical experience and evaluation.

**COMM 1050**
**Introduction to Speech Communication**
3:3:0 Su, F, Sp; DE
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 128R**
**Forensics**
3:3:0 GF, F, Sp
- Prerequisite(s): COMM 1020
Designed for students interested in inter-collegiate speech and debate 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; DE
Provides a survey of the structure, operation, diversity, and effects of mass media. Discusses the different forms of media and the impact of media. Explores opportunities in communication work. Also covers consumer impacts.

**COMM 1610**
**Reporting for the Mass Media**
3:3:0 F, Sp
For students interested in pursuing careers in journalism. Focuses on gathering and organizing information in the field. Includes interviewing, covering a beat, investigative reporting, reviews, and opinions. Simulates a journalist’s working experience. Offers experience covering current actual events in the field.

**COMM 2010**
**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 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
**Course Descriptions**

rewriting faulty stories, copy editing, proof-reading, headlines, newspaper design, and picture editing.

**COMM 2110 (Cross-listed with: MGMT 2110)**

**Interpersonal Communication**

3:3:0

Su, F, Sp

Examines the role of communication in interpersonal relationships. Includes the history of interpersonal communication research and theory, and applications such as negotiation, conflict management, listening, and assertiveness.

**COMM 217G (Cross-listed with: ENGL 217G)**

**Race Class and Gender in U.S. Cinema**

3:2:2

F, Sp

- **Prerequisite(s):** THEA 1023 or ENGL 2150
- 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

GF, 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; DE

- **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; DE

- **Prerequisite(s):** COMM 1050 or consent of instructor
- Teaches how communication processes affect organizations. Applies theory to organizational analysis. Utilizes dialogue and network analysis to improve organizational values and performance.

**COMM 2560 (Cross-listed with: DGM 2460)**

**Radio Production**

3:3:0

F

Teaches the history of radio, and the structure of typical radio stations, from management to programming, sales, production, and promotion. Covers methods of producing radio promos, radio shows, commercials and news segments, as well as features and interviews. Uses Digital Audio Workstations to produce several radio segments of the student's choosing. Includes lectures, demonstrations, and guest lecturers from radio stations in the community.

**COMM 2790**

**Magazine Writing**

3:3:0

Sp

- **Prerequisite(s):** COMM 1610
- For students interested in pursuing careers in journalism. Focuses on non-fiction writing for magazine consumption. Teaches how to research and write long, investigative feature articles. Includes analysis of the early magazine industry, contemporary issues in the magazine industry, and in-depth reporting on special topics, such as science, politics, culture and society, education, environment, and international affairs.

**COMM 281R**

**Internship**

1 to 8:0:5 to 40

Su, F, Sp

- **Prerequisite(s):** Department approval
- Provides an opportunity for students to get college credit by working in communication-related fields. Applies academic concepts to actual work experiences. Requires instructor approval and final report. Repeatable for a total of 8 credit hours.

**COMM 290A**

**Independent Study**

1:1:0

On Sufficient Demand

- **Prerequisite(s):** COMM 1610, Approval of instructor and department chair.
- For qualified students who wish to undertake a well-defined project or directed study related to an area of special interest. Requires individual initiative and responsibility. Includes limited formal instruction and faculty supervision. Projects may include writing a publishable paper, creating a portfolio of published news articles, producing an annotated bibliography, or other options as approved by the instructor.

**COMM 290B**

**Independent Study**

2:2:0

On Sufficient Demand

- **Prerequisite(s):** COMM 1610, Approval of instructor and department chair.
- For qualified students who wish to undertake a well-defined project or directed study related to an area of special interest. Requires individual initiative and responsibility. Includes limited formal instruction and faculty supervision. Projects may include writing a publishable paper, creating a portfolio of published news articles, producing an annotated bibliography, or other options as approved by the instructor.

**COMM 290C**

**Independent Study**

3:3:0

On Sufficient Demand

- **Prerequisite(s):** Approval of instructor and department chair.
- For qualified students who wish to undertake a well-defined project or directed study related to an area of special interest. Requires individual initiative and responsibility. Includes limited formal instruction and faculty supervision. Projects may include writing a publishable paper, creating a portfolio of published news articles, producing an annotated bibliography, 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, or other options as approved by the instructor.

**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 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 interactionist, structuralist, post-structuralist, postmodern, and critical theories.

**COMM 3110 (Cross-listed with: THEA 3110, ENGL 3110)**

**Non-Fiction Cinema History**

3:2:3

F

- **Prerequisite(s):** ENGL 2150
- Surveys the history of non-fiction/documentary film
Course Descriptions

COMM 3130
The Culture of Nature and Technology
3:3:0 Not 08-09
- 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
(Cross-listed with: ENGL 314G, THEA 314G)
Global Cinema History
3:2:3 Not 08-09
- Prerequisite(s): ENGL 2150
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
3:2:3 Sp
- Prerequisite(s): ENGL 2010 or ENGL 2020 or permission of instructor
Emphasizes cultural analysis through the readings of key texts in film theory. Relates cultural phenomena to films that reflect elements of contemporary film theory, focusing on form, narration, and style. Discusses the role of auteur, the cinematic gaze, spectatorship, and film production. Discusses film as an aesthetic, thematic, and reflective medium. Includes lecture, film screenings, and critical discussions of assigned readings. Some films screened may be considered controversial and carry an "R" rating.

COMM 332G
(Cross-listed with: MGMT 332G)
Cross-Cultural Communications for International Business
3:3:0 Su, F, Sp
- 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
(Fixed with: SW 3410, PSY 3410, LEGL 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 350R
Special Topics in Mass Communication
3:3:0 Su, F, Sp
- Prerequisite(s): COMM 1500, COMM 2300
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 F, Sp
- Prerequisite(s): COMM 1130, COMM 1610
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 F, Sp
- 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 F
- Prerequisite(s): COMM 2010 or consent of instructor
Introduces theories of international communication. Covers different systems of the press in different countries. Analyzes specific case studies in international media.

COMM 362G
International Communication
3:3:0 F
- Prerequisite(s): COMM 2010 or consent of instructor
Introduces theories of international communication. Covers different systems of the press in different countries. Analyzes specific case studies in international media.

COMM 3700
Free Expression in a Democratic Society
3:3:0 Sp
- 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 televsional 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
(Fixed 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 class role-play. A certification with the Utah State Court Administrator’s office may be offered to those who pass the course and complete 10 hours of mediation and negotiation at the conclusion of the semester.

COMM 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 470R
On-Air Broadcast Journalism
3:1:8 F, Sp
- Prerequisite(s): COMM 2200
For students with interests in careers in broadcast
Course Descriptions

Journalism. Teaches live anchoring skills, television studio control room operations, television news direction, production, studio camera operation, audio control, computer graphics, teleprompter, and tape operator duties for on-air 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 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 4930 Communication Capstone 3:3:0 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 F, Sp
 Designed as a survey class. Discusses and demonstrates safety, sanding, masking, feather edging, priming, and refinishing of student’s vehicle. Students will finish 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
- Corequisite(s): CRT 1110
Provides laboratory experience for surface preparation techniques aligning with lectures from CRT 1110. Topics include finish removal, sanding techniques, undercoating materials.

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
- Corequisite(s): CRT 1120
Provides a laboratory experience for nonstructural repair techniques aligning with lectures from CRT 1120. Topics include fillers use, metallurgy, shrinking and stretching.

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
- Corequisite(s): CRT 1130
Provides a laboratory experience for overall refinishing and problem solving techniques aligning with lectures from CRT 1130. Topics include safety, substrate usage, application techniques, base coats, clear coats, single stage paints, and tri coat processes, application / refinsh / 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
- Corequisite(s): CRT 1140
Provides a laboratory experience for panel replacement and adjustment techniques aligning with lectures from CRT 1140. Topics include replacement and alignment of bolt-on body panels, fasteners and trim.

CRT 1210 Blending Tinting and Detailing 2:2:0 F

CRT 121L Blending Tinting and Detailing Lab 1:0:3
- Corequisite(s): CRT 1210
Provides a laboratory experience for blending tinting and detailing techniques. Identifies proper procedures for Single stage, Base coat, and Tri stage blending. Identifies detailing techniques and materials.

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
- Corequisite(s): CRT 1230
Provides a laboratory experience for welding and cutting techniques aligning with lectures from CRT 1230. Topics include MIG, TIG, Squeeze Type Resistant Spot Welding (STRSW), welding processes.

CRT 2310 Collision Damage Reporting 2:2:0 F

CRT 231L Collision Damage Reporting Lab 1:0:3
- Corequisite(s): CRT 2310
Provides a laboratory experience for collision damage estimating techniques aligning with lectures from CRT 2310. Topics include: damage analysis...
sequence, repair and replace decisions, using crash estimating guide, procedure page analysis of crash estimating guide, selecting parts and labor amounts in crash estimating guide, and various estimating programs for the computer.

**CRT 2320** Structural Damage Analysis 2:2:0  
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  
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  
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  

**CRT 240L** Plastic Paintless Dent Repair Lab 1:0:3  
- Corequisites(s): CRT 2400  

**CRT 2420** Plastic Repair 4:1:57  
Teaches various repair methods, tools, and materials used to correctly repair plastic materials and SMC panels in modern vehicles. Includes lecture, demonstrations, and lab. Uses ICAR Advanced Technical Curriculum. Successful completers should be prepared for ASE certification.

**CRT 2430** Mechanical and Electrical Repair 4:1:57  
Teaches basic mechanical systems theory, removal, and replacement. Studies A/C systems, cooling, braking, emission, restraint, and electrical systems. Includes lecture, demonstrations, and lab. Uses ICAR Advanced Technical Curriculum. Successful completers should be prepared for ASE certification.

**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 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 TIG welding processes for mild steel, stainless steel, and aluminum. Teaches oxyacetylene welding processes for mild steel, brass, copper, pot metal, and aluminum.

**CRT 252L** Customizing Lab 1:0:3  
- Corequisites(s): CRT 2520  
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 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
Course Descriptions

fabricating tools such as sheet metal brake, slip rolls, band saw, and nibblers. Uses specialty tools such as English wheel, power hammer, kraftfomer, plenisher hammer, shrinkers, and stretchers. Teaches panel fabrication and hammer forming.

**CRT 2540**
**Structural Body Fabrication**
2:2:0 Not 08-09
For students pursuing a diploma or AAS degree in Collision Repair Technology with an emphasis in Custom Street Rod Technology or interested community members. Covers body construction from bumper to bumper and from roof to floor. Enhances knowledge of structural components of a well constructed vehicle.

**CRT 254L**
**Structural Body Fabrication Lab**
1:0:3 Not 08-09
- Corequisites(s): CRT 2540
  Provides a laboratory experience for body construction from bumper to bumper and from roof to floor. Enhances knowledge of structural components of a well constructed vehicle.

**CRT 2610**
**Top Chopping Sectioning and Channeling**
2:2:0 Sp
- Prerequisite(s): CRT 1110, CRT 1120, CRT 1130, CRT 1140
For students pursuing a Diploma or an AAS degree in Collision Repair Technology with an emphasis in Custom Street Rod Technology or interested community members with a basic welding and collision repair background. Covers the history of vintage vehicles, methods of top chopping, sectioning and channeling techniques.

**CRT 261L**
**Top Chopping Sectioning and Channeling Lab**
1:0:3
- Corequisites(s): CRT 2610
  Provides a laboratory experience for methods of top chopping, sectioning and channeling techniques.

**CRT 2620**
**Frames**
2:2:0 Sp
- Prerequisite(s): CRT 1110, CRT 1120, CRT 1130, CRT 1140
For students pursuing a Diploma or an AAS degree in Collision Repair Technology with an emphasis in Custom Street Rod Technology or interested community members with a welding background. Identifies the different types of frames and how to modify them. Teaches sub-framing, pro-streetering, narrowing of rear ends, drive shafts, and complete frame change over. Covers exhaust systems and other alterations, front to rear.

**CRT 262L**
**Frames Lab**
1:0:3
- Corequisites(s): CRT 2620
  Provides a laboratory experience for identifying the different types of frames and how to modify them. Teaches sub-framing, pro-streetering, narrowing of rear ends, drive shafts, and complete frame change over. Covers exhaust systems and other alterations, front to rear.

**CRT 2630**
**Detailing and Custom Painting**
2:2:0 Sp
- Prerequisite(s): CRT 1110, CRT 1120, CRT 1130, CRT 1140
For students pursuing a Diploma or an AAS degree in Collision Repair Technology or Custom Street Rod Technology or interested community members with an automotive painting background. Teaches custom painting and detailing for show cars. Emphasizes flames, scallops, shredding, checker boarding, air brush techniques, murals, fish scales, three stage paints, pearls, candies, and multi-colored changes.

**CRT 263L**
**Detailing and Custom Painting Lab**
1:0:3
- 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 F
- Prerequisite(s): CRT 1110, CRT 1120, CRT 1130, CRT 1140
For students pursuing a diploma or an AAS degree in Collision Repair Technology with an emphasis in Custom Street Rod Technology or interested community members. Covers basic hand tools, such as: hammers, dollys, leather bags, and slappers. Use of specialty equipment, such as: English wheel, Pullmax, nibbler, power hammers, and bead rollers. Teaches making bucks, patterns and forms. Teaches panel fabrication of aluminum.

**CRT 264L**
**Panel Fabrication of Aluminum Lab**
1:0:3
- Corequisites(s): CRT 2640
  Provides laboratory experience for use of: hammers, dollys, leather bags, and slappers. Instructs in the use of specialty equipment, such as: English wheel, Pullmax, nibbler, power hammers, and bead rollers. Teaches making bucks, patterns and forms. Teaches panel fabrication of aluminum.

**CRT 2650**
**Automotive Interior Design**
2:2:0 Sp
- Prerequisite(s): CRT 1110, CRT 1120, CRT 1130, CRT 1140
Discusses automotive interior designs with emphasis on color coordination, and materials. Identifies a variety of techniques used in alteration, sewing, layout, and attachment processes.

**CRT 265L**
**Automotive Interior Design Lab**
1:0:3
- Corequisites(s): CRT 2650
  Offers a laboratory experience for CRT 2650 lecture. Demonstrates interior design materials, color coordination, and stitching techniques. Teaches fabrication, design attachment, molding, layout and cutting.

**CRT 281R**
**Cooperative Work Experience**
1 to 9:0:5 to 40 Su, F, Sp
- 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 Su, F, Sp
- 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
- Corequisite(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.

**CS—COMPUTER SCIENCE**

**CS 1030**
**Foundations of Computer Science**
3:3:0 Su, F, Sp
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**
**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 language specific syntax, semantics, libraries, the integrated development environment, and debugging techniques. 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 1400
Fundamentals of Programming
3:3:0  Su, F, Sp
• Prerequisite(s): MAT 1010 or higher or appropriate test scores. CS 1030 strongly recommended.
Introduces concepts of object-oriented programming. Presents tools, structure, syntax, and basic OOP design techniques for designing and developing well-formed programs. Studies concepts such as classes, objects, methods, fields, datatypes, control constructs, and data I/O.

CS 1410
Object-Oriented Programming
3:3:0  Su, F, Sp
• Prerequisite(s): CS 1400
Introduces concepts of object-oriented programming including classes and objects, friends, operator overloading, stream I/O, dynamic memory allocation, polymorphic functions, and basic use of standard library components. Offers development of basic graphical user interfaces. Introduces sorting, data structures, class and object reuse, and program projects. Uses programming assignment specifications, design, implementation, and testing.

CS 2220
Visual Basic Programming
3:3:0  On Sufficient Demand
• 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  Su, F, Sp
• 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 3:9  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 hours may be counted towards graduation without prior written CNS Department approval.

CS 2420
Introduction to Algorithms and Data Structures
3:3:0  Su, F, Sp
• 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
3:3:0  Su, Sp
• Prerequisite(s): CS 2300, CS 2420
Presents concepts, methodology and best-practices necessary to develop large scale software projects. Includes step-wise software requirements analysis, design, implementation, testing and release. Discusses software generation, reuse, scheduling, verification, and maintenance. Emphasizes current ‘real world’ industry best-practices and tools.

CS 2550
Internet Programming
3:3:0  On Sufficient Demand
• 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
3:3:0  F, Sp
• Prerequisite(s): CS 1400, CS 2810. (CS 1510, MATH 1210, PHYS 2210 recommended)
Presents rigorous introduction to data communications technology for CNS majors. Includes theory of data communications protocols; theory and design of transmission systems; transmission media and communication software. Includes lab assignments to be completed outside of lecture.

CS 279R
Current Topics in Networking
1 to 3:1 to 3:9  On Sufficient Demand
• Prerequisite(s): Department approval
Provides exposure to emerging technologies and state-of-the-art topics of current interest in networking. Varies each semester depending upon the state of technology. A maximum of three hours may be counted towards graduation without prior written CNS Department approval.

CS 2810
Computer Organization and Architecture
3:3:0  Su, F, Sp
• 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 3:1 to 12  On Sufficient Demand
• 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 10  On Sufficient Demand
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 6:0 to 12  On Sufficient Demand
Prerequisite(s): CS 2420 and CS 2810
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 301R
Invited Speaker Series
1:1:0  F, Sp
Prerequisite(s): Department approval
Course Descriptions
Course Descriptions

CS 3220
Visual Basic Software Development
3:3:0  F
- Prerequisite(s): CS 2420

CS 3240
Introduction to Computational Theory
3:3:0  F, Sp
- Prerequisite(s): CS 2300
Presents concepts of formal (programming) language definition, Turing machines, finite automata, regular expressions, grammars, context-free languages, and computability.

CS 3250
Java Software Development
3:3:0  F
- Prerequisite(s): CS 2420
Covers features of the Java Programming Language, emphasizing mastery of core Java packages, java.lang, java.io, java.util, and other commonly-used library packages. Topics include abstract classes, interfaces, inner classes, JavaBeans, I/O operations in depth, collections and algorithms, reflection, threads, the Java Event Model, basic Swing Components, and XML processing. Introduces common idioms and design patterns. Emphasizes acceptance of software engineering

CS 3260
C# NET Software Development
3:3:0  Sp
- Prerequisite(s): CS 2420
Introduces the C# programming language and the .NET Framework that the programming language is within. Discusses the various datatypes, built-in class in namespaces, and how to develop user defined classes and namespaces. Includes programming assignments for console, GUI, and ASP.NET applications.

CS 3310
Introduction to Algorithms
3:3:0  F
- 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
3:3:0  Sp
- Prerequisite(s): CS 2300, CS 2420, CS 2810, MATH 1220 (MATH 2270 recommended)
Gives students mastery of the tools necessary for modern scientific computation. Covers computer representation of floating-point numbers, error analysis and numerical stability, IEEE floating-point standards, testing of numerical algorithms, calculation of elementary functions, roots of equations, solutions of linear systems, numerical integration and differentiation, interpolation and approximation, Monte Carlo methods.

CS 3330
Windows Programming
3:3:0  On Sufficient Demand
Prerequisite(s): CS 2420
Gives students in-depth mastery of the use and architecture of Windows Operating System Application Programming Interfaces (APIs). Both low-level GUI and systems programming techniques are covered. Topics include: Microsoft Windows messaging, Process Management, Graphical Device Interface (GDI), Hardware Device APIs, Dynamic-Link Libraries (DLLs), the Windows file system, and performance issues.

CS 3370
C++ Software Development
3:3:0  Sp
- Prerequisite(s): CS 2300, CS 2420
Prepares students for C++ programming in a production environment, emphasizing mastery of the standard C++ library. Covers the following topics in-depth: const correctness, operator overloading, exception 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 and 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 multiplayer games.

CS 3550
Internet Software Development
3:3:0  Su, F, Sp
- Prerequisite(s): CS 3250
Covers Internet programming concepts and sophisticated applications for today's World Wide Web. Includes client side and server side code development.

CS 3560
Web Server Programming
3:3:0  Sp
- Prerequisite(s): CS 3550
Covers web programming techniques such as PHP, CGI, Java servlets, web-based database applications, and XML.

CS 3670
Network Programming
3:3:0  Sp
- Prerequisite(s): CS 3250 and CS 3690
Introduces background information including NetBIOS, NetBEUI, Mailslots, Named Pipes, and Redirector. Presents Berkeley Socket theory and the details of Windows sockets. Presents theory and practical application of network protocols. Introduces CORBA and the various as concepts of ORB’s and the IIOP protocol.

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; network management systems and standards; and other emerging technologies as time permits. Includes lab assignments to be completed outside of lecture.
**Course Descriptions**

**CS 4100**  
*Database Management System Construction*  
3:3:0  
- Prerequisite(s): CS 3520 and (CS 3220 or CS 3250 or CS 3260)  
Looks at issues involved in actually implementing a DBMS. Students will implement a relational DBMS. Features of the DBMS include project, select and join, indexing, B+ trees, parsing and query optimization.

**CS 4230**  
*Software Testing and Quality Engineering*  
3:3:0  
- 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  
- 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  
- 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 12  
- 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  
- 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 approach such as object-oriented development as applied to a realistic organizational systems problem. Explores requirements definition and modeling, analysis modeling including prototyping, functional and nonfunctional requirements specification, legacy systems, design patterns, and design modeling.

**CS 4450**  
*Analysis of Programming Languages*  
3:3:0  
- 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 LISP, Scheme, ML, or Haskell.

**CS 4470**  
*Artificial Intelligence*  
3:3:0  
- Prerequisite(s): CS 3240, MATH 1220, and (CS 3220 or CS 3250 or CS 3260)  
Presents theory, organization, concepts, and principles of artificial intelligence methodologies including neural networks, expert systems, machine learning algorithms, and genetic algorithms.

**CS 4480**  
*Digital Image Processing and Computer Vision*  
3:3:0  
- 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  
- Prerequisite(s): CS 4380, CS 4450  
Studies theory, analysis and design of class developed compiler “Express.” Discusses lexical scanning, parsing, production, and execution of compilers. The student will design and make operational their own compiler.

**CS 4500**  
*Advanced Topics in Database*  
3:3:0  
- Prerequisite(s): CS 3520 or INFO 3410  
Covers transaction processing, concurrency control techniques, database recovery techniques, database security and authorization, database integrity, distributed databases and client-server architectures, load balancing, data warehousing, data mining, database machines, mobile database, multimedia database, GIS, genome data management, data fragmentation, data encryption, locking, and deadlock.

**CS 4510**  
*Operating Systems Design and Simulation*  
3:3:0  
- Prerequisite(s): CS 4380  
Presents architecture, principles concepts, design, implementation, and simulation of modern operating systems. Studies architecture, design, and simulation of an operating system. Discusses queueing, scheduling, resource allocation, and memory management.

**CS 4550**  
*Software Engineering III*  
3:3:0  
- Prerequisite(s): CS 4400  
Senior-level, capstone project experience course. Requires operating as part of a high performance team. Includes completing the design and implementation of a large-scale software development project. Combines major milestone presentations to project clients, completing a portfolio of project-related artifacts, and offer an evaluation of the project and team experience.

**CS 4600**  
*Enterprise Architecture*  
3:3:0  
- Prerequisite(s): CS 3520 and (CS 3220 or CS 3250 or CS 3260 or CS 3370)  
Explores concepts in developing enterprise applications that are focused around a database. Investigate cutting edge technologies/techniques such as but not limited to database partitioning and how they are used to facilitate distributed databases, dimensional databases and how they are used to support Online Analytical Processing (OLAP) and Data Mining. Covers application architectures such as J2EE, which can be used to implement stateful and stateless services for large multi-user applications.

**CS 4610**  
*TCP/IP Internet Architecture*  
3:3:0  
- Prerequisite(s): CS 3690  
Provides theoretical, practical, administrative perspectives of the TCP/IP protocol and its use with the Internet. Includes coverage of IPv4, IPv6, TCP, OSPF and related protocols, IP addressing, subnetting issues, and domain name services are also covered.

**CS 4650**  
*Directory-Based Networks*  
3:3:0  
- Prerequisite(s): CS 1400, CS 3690, INFO 3630 recommended  
Pracesses the structure, design, partitioning and replication strategies for network directory services through a combination of theory and programming exercises. Covers the X.500 and LDAP standards, and implementation including NDS, ADS, and OpenLDAP.

**CS 4670**  
*Undergraduate Research Project--Networking Specialization*  
3:3:0  
- Prerequisite(s): CS 4610, CS 4650  
Senior-level, capstone project experience course. Students produce a system suitable for presentation and defense and develop complete system requirements analysis, system design, and configuration testing and benchmarks. Includes detailed written documentation of the project and a public presentation detailing project.
Course Descriptions

CS 479R 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 prior written CS Department approval.

CS 481R 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.

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 coursework. 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
Offers independent study as directed by a faculty advisor in reading, individual projects, etc. Varies each semester depending upon the state of technology. A maximum of three hours may be counted towards graduation without prior written Department approval.

CS 496R Senior Seminar
1 to 3:0 to 3:0 to 12 On Sufficient Demand
Presents current state-of-the-art and/or best-practices topics in a seminar format. A maximum of three (3) credits will count towards graduation.

DANC——DANCE

DANC 1100 Beginning Ballet
1:0:2 F, Sp
For all students without previous ballet experience. Emphasizes ballet discipline, develops posture, alignment, and muscular control to improve health and appearance of physical body.

DANC 1160 Music for Dancers
1:0:5.2 Sp
Presents a fundamental approach to the basic elements of music with an emphasis on its relationship to dance. Studies simple and complex rhythmic patterns, rhythmic analysis of select world music styles (African, Eastern European, and American Funk rhythms), vocalizing, instrumentation, score reading, musical structure, and compositional principles. Includes vocal, instrumental, and movement participation; lecture; writing; and discussion.

DANC 1200 Beginning Modern Dance
1:0:2 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 1330 Studio Workshop--Creative Process in Dance
1:0:5.1 F, Su
A multi-disciplinary approach to the creative process in dance. Overviews the creative process and explores the development of individual artistry and personal voice in dance. Examines how the creative process in other disciplines informs creative work in dance. Includes participation and lecture.

DANC 141R Introduction to Modern Dance Technique and Theory
2:1:3 F, Sp
For students desiring to increase their physical skills in dance technique and performance technique. Introduces principles and concepts that govern human movement. Emphasizes development of strength, flexibility, coordination, core support, and movement expressiveness. Includes aspects of composition, improvisation, and performance as they relate to technique. Develops foundational skills in modern dance technique. Prepares students for more intensive study. May be repeated for a total of four credits toward graduation.

DANC 143R Modern Dance Technique and Theory I
3:1:6.5 F
First level modern dance technique for Dance majors. Focuses on development of solid foundational skills in modern dance technique and theory that prepare the student for an intensive major program. Emphasizes the development of strength, flexibility, core support, coordination, kinesthetic awareness and memory, and movement expressiveness. Includes experience in improvisation and composition as a means of understanding and applying technical skills in performance settings. May be repeated for a total of six credits toward graduation.

DANC 1500 Beginning Jazz Dance
1:0:2 Su, F, Sp
Gives students experience in jazz dance including rhythms, style, and jazz techniques. Includes basic jazz terminology.

DANC 1510 Intermediate Jazz Dance
1:0:3 Su, F, Sp
- Prerequisite(s): DANC 1500
For students who have fundamental dance skills and basic jazz techniques. Teaches intermediate jazz technique, style and rhythm. Increases coordination, stamina, strength and flexibility through appropriate principles of jazz training.

DANC 1520 Folk Dance I
1:0:2 Not 08-09
Presents music, dance steps, and styles of folk dances from different countries. Teaches basic dance formations, positions, and terminology.

DANC 1530 Folk Dance II
1:0:2 Not 08-09
- Prerequisite(s): DANC 1520
Acquaints students with intermediate level folk dances from around the world, including steps, styling, music and costumes. Discusses cultural characteristics that are expressed through folk dance.

DANC 1540 Clogging I
1:0:2 Not 08-09
Teaches basic steps, styling and history of clogging. Includes dances and freestyle clogging choreography.
DANC 1550  GF  Clogging II  1:0:1.5  Prerequisite(s): Not 08-09  
Teaches buck-style clogging and steps of complex rhythm and structure. Includes upper body movement patterns and emphasizes total body coordination. Examines contemporary and historical trends in clogging.

DANC 1560  African Dance I  1:0:2  F, Sp  
Explores traditional movements and rhythms from Central and West Africa and is accompanied by live drumming. Focuses on the development of solid foundational skills in African dance technique. Emphasizes the cultural significance of various dances and rhythms as well as the influences of the African aesthetic in contemporary dance and culture. Includes participation, video, and guest instructors from Africa.

DANC 1570  African Dance II  2:1:3  Sp  Prerequisite(s): DANC 1560 or previous African Dance experience  
Explores dances and rhythms 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 1580  Tap Dance I  1:0:2  GF  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 1700  American Social Dance I  1:0:2  Su, F, Sp  
For students with no prior American Social Dance experience. Teaches beginning (Bronze) level patterns of American Social Dance including Fox trot, 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, posture, and leading and following. Successful completers will have a good general knowledge of Bronze level curriculum.

DANC 1720  Latin Ballroom Dance I  1:0:2  Su, F, Sp  
For students seeking Latin Ballroom Dance experience. Teaches beginning (Bronze) level patterns of International Style Latin Rumba, Samba, and Cha Cha. Introduces correct rhythm, poise, footwork, and foot positions. Successful completers will have a good general knowledge of Bronze level curriculum.

DANC 1780  Country Western Dance I  1:0:2  Not 08-09  
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 08-09  
- 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, teaching, choreography, dance science/medicine, movement analysis and fundamentals, dance criticism, interdisciplinary collaboration, and current issues. Includes lecture, readings, discussion, writing, and participation. Prepares the student entering the Dance emphasis.

DANC 221R  Pointe II  1:0:3  Su, F, Sp  
Prerequisite(s): By audition only.  
For dance majors and other students with an interest in the professional dance world. Emphasizes women’s pointe work. Builds strength and control necessary for further advanced study. Explores various music components necessary for development of virtuosity en pointe. Completers will have skills necessary to progress to advanced pointe class. Includes guest choreographers and teachers. May be repeated for a total of six credits toward graduation.

DANC 2250  Character Dance I  1:0:3  Sp  
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  
Second of a two-semester sequence course. Must be taken in sequence. For ballet students at an intermediate or higher skill level. Studies theatre dance based on ethnic styles within ballet performance context.

DANC 227R  Ballet Technique II  3:1:6.5  F, Sp  
Prerequisite(s): Instructor Approval  
For advanced level ballet students. Requires ability to handle the varying technical difficulties of classical ballet. Includes theories from Soviet, French, Italian, American, English and Danish schools. Provides hands-on experience in barre and center floor work to increase strength, flexibility and artistic interpretation. Emphasizes body alignment and correct placement. Successful completers should be fully prepared to participate in an upper division classical ballet course. May be repeated for a total of 18 credits.

DANC 2330  Improvisation  1:0:3  Sp  
Prerequisite(s): DANC 1330  
For students interested in experiencing and developing skills in physical inventiveness and performance intuition and immediacy. Provides guided exploration in the elements of dance for the creative development of personal movement vocabulary, spontaneous group interaction, and the ability to recall and give form to movement generated improvisationally.

DANC 2340  Composition  2:1:3  F  
Prerequisite(s): DANC 2330  
For students interested in experiencing and developing skills in dance composition. Includes conceptual and practical exploration of the basic elements of dance in both solo and group forms. Investigates
Course Descriptions

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 243R Modern Dance Technique and Theory II 3:1:6.5 F
- Prerequisite(s): by audition
Second level modern dance technique for Dance majors. Teaches fundamental body and performance technique. Emphasizes locomotor skills and movement progressions as well as elements of body, effort, shape, space, and time. May be repeated for 9 credits toward graduation.

DANC 244R Modern Dance Technique and Theory II 3:1:6.5 Sp
- Prerequisite(s): DANC 243R
Second level modern dance technique for Dance majors. Focuses on development of technical and performance skills in modern dance. Includes concepts of applied anatomy and kinesiology as well as Bartenieff Fundamentals. Emphasizes clarity of movement intent and interpretation in movement progressions. May be repeated twice for 9 credits towards graduation.

DANC 247R Repertory 1:0:3 F, Sp
- Prerequisite(s): By Audition
- Corequisite(s): DANC 143R, DANC 144R, DANC 243R, or DANC 244R
For students with advanced technical, performance, and artistic skills in Modern Dance interested in performing professional choreographic works. Emphasizes study and performance of guest and faculty choreography. Introduces students to choreographic approaches of historical and current works. Includes performance in formal and informal concerts. Repeatable for a maximum of three credit hours.

DANC 248R Special Topics in Dance 2:1:2 F, Sp
Provides students an in-depth exploration of specialized dance forms outside of traditional course offerings, with an emphasis on World Dance forms such as Polynesian, Classical Indian, Argentinian Tango, Capoiera, Balinese and Tibetan Folk Dance. Focuses on learning specific dance forms through active participation. Includes integration of theoretical, historical and social concepts which deepen the student’s understanding of the context in which the dance form was practiced historically and is practiced today. May be repeated for a total of 6 credits 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 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 Bartenieff Fundamentals and basic principles of Laban Movement Analysis. Develops integrated and harmonious movement patterns in the body. May be repeated for four credits total toward graduation.

DANC 2670 Introduction to Laban Studies 2:1:2 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 Bartenieff. 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 3.0:5.25:0 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 Sp
- Prerequisite(s): DANC 1160
Designed for students interested in musical accompaniment for dance. Builds on knowledge and skills developed in DANC 1160. Explores rhythmic structures and its components in music and dance, composing a percussion score for dance, and building percussion instruments. Emphasizes practical skills in performing simple and complex rhythmic patterns on drum. Includes participation, writing, lecture, and discussion.
DANC 321R
Pointe III
1:0:3
F, Sp
• Prerequisite(s): Advanced equivalent skill level to be determined by audition.
• Corequisite(s): DANC 327R
For women dance majors and others with an interest in the professional dance world. Emphasizes pointe. Builds strength and control. Explores various styles from classical and contemporary repertoire. Women develop successful virtuosity en pointe. Completers will have skills necessary to perform at an advanced technical skill level and have skills necessary to perform variations from classical repertoire. Includes guest teachers. May be repeated for a total of six credits toward graduation.

DANC 327R
Ballet Technique III
3:1:5
F, Sp
• Prerequisite(s): DANC 227R or Advanced equivalent skill level to be determined by audition
For ballet students at an advanced skill level who are able to handle the varying technical difficulties of classical ballet. Provides hands-on experience in barre and center floor work to increase strength and flexibility. Emphasizes the development of musicality as it relates to artistic interpretations. Successful completers will be prepared to participate on a corp de ballet professional performance level. May be repeated for a total of 18 credits toward graduation.

DANC 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 428R) and (DANC 321R or DANC 421R)
For dance majors desiring ballet emphasis. Investigates and explores the choreographic process with relationship to narration as well as all choreographic concepts. Includes the creation of student works that give shape and form to ideas based on a specific theme or statements. Examines plot, character, and theme as part of the creative process.

DANC 3350
Choreography
2:1:2
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
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; spatial and locomotor skills; total body connectivity, movement progressions; increased spatial, rhythmic, 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, spatial and locomotor skills, total body connectivity movement progressions; increased spatial, rhythmic, 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 3430
Modern Dance Teaching Methods
3:3:0
F
• Prerequisite(s): DANC 3400
For dance majors interested in teaching dance at the secondary and college levels. Introduces methodologies, strategies, ideologies, and philosophies of dance pedagogy based on current research and practices. Emphasizes lesson plan writing using the Utah State Secondary Dance Core Curriculum and the National Dance Standards. Integrates theory and practice through lecture, discussion, writing, and classroom teaching experiences in the college and public school settings.

DANC 346R
Modern Dance Performance
2:1:3
F, Sp
• Prerequisite(s): Audition required
• Corequisite(s): DANC 141R or DANC 142R or DANC 241R or DANC 242R or DANC 341R or DANC 342R or DANC 441R or DANC 442R
Studies modern dance technique, performance composition, and improvisation. Presents choreography in a formal setting. Includes lecture, and demonstrations for local schools and other interested groups. Audition required. Class may be repeated for a total of 12 credits toward graduation.

DANC 3560
World Dance Forms
2:1:2
Sp
Introduces dance forms of various world cultures. Emphasizes the cultural context for dance and the particular stylistic indicators for the dance forms studied. Includes African-based dance as well as folk dance forms. Focuses on developing appreciation for the diversity of dance as a participative and performance art. Includes lecture and participation.

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 keystone Western dance history concepts and the work of various recognized dance scholars. Introduces students to a wide range of publications in the field. Includes lecture and movement experiences. Emphasizes skills of critical analysis, synthesis, and interpretation in writing about dance.

DANC 365R
Advanced Fundamentals of Movement
2:1:2
F
• Prerequisite(s): DANC 265R and DANC 2670
Continues and deepens the content of DANC 265R. Emphasizes application of principles of Bartineff 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.
Course Descriptions

Focuses on application of the concepts and theories of Laban Movement Analysis in the context of observing, recording, analyzing, and making meaning from human body movement. Includes in-depth study of motif score writing and applying Body, Effort, Shape and Space Harmony paradigms. Utilizes physical performance and written and verbal observation methods. Examines application to disciplines that concern themselves with human movement behavior such as behavioral sciences, theater, communications, human performance, human development, business, and education.

DANC 3680
Dance Kinesiology
4:4:0 Sp

- Prerequisite(s): ZOOL 2320
Studies the neuromusculoskeletal system in practical application to dance. Analyzes demands placed on the dancer’s body and identifies how to maximize efficiency and reduce injuries while maintaining requisite aesthetic elements. Includes lecture and lab experiences.

DANC 3690
Motif and Labanotation I
2:2:0 Sp

- Prerequisite(s): DANC 265R and DANC 2670
Teaches Motif Writing and beginning Labanotation. Expands students’ understanding of the written symbol system of Laban Movement Analysis and deepens observation and analysis skills critical for understanding dance and varied manifestations of human movement expression. Relates Motif Writing and Labanotation to dance history and current dance choreography and performance. Includes application of Motif Writing to teaching dance technique, composition, and improvisation. Emphasizes the theory of human movement description and analysis formulated by Rudolph Laban and requires students to both write and read beginning to intermediate level notated scores. Includes lecture, discussion, observation, and participation including reading from score, written and embodied symbology assignments, teaching assignments, and completion of several creative projects.

DANC 370R
American Social Dance III
1:0:3 F, Sp

- Prerequisite(s): DANC 2700
For students who have successfully completed Bronze and Silver American Social Dance courses and for members of the Ballroom Tour Team. Teaches the advanced (Gold) level patterns of American Style Foxtrot, Cha Cha, Waltz, Triple Swing, Viennese Waltz, and West Coast Swing. Emphasizes, on an advanced level, correct poise, style, rhythm. Also teaches correct footwork, foot position, alignments, rise and fall, partnering, correct leading and following, and etiquette. First semester successful completers will have a general knowledge of Gold level curriculum. Second semester successful completers will have an in-depth knowledge of Gold level curriculum. May be repeated for two credits toward graduation.

DANC 371R
International Ballroom Dance III
1:0:3 F, Sp

- Prerequisite(s): DANC 2710
For students who have successfully completed Bronze and Silver International Ballroom Dance courses, and for members of the Ballroom Tour Team. Teaches the advanced (Gold) level patterns of International Style Waltz, Quickstep, Tango, Foxtrot, and Viennese Waltz. Emphasizes, on an advanced level, correct poise, style, rhythm. Also teaches correct footwork, foot positions, alignments, rise and fall, partnering, floor craft, and correct leading and following. First semester successful completers will develop a general knowledge of Gold level curriculum. Second semester successful completers will develop an in-depth knowledge of Gold level curriculum. Must be repeated for two credits toward graduation.

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 373R
American Social Dance Teaching Methods
2:2:0 Sp

- Prerequisite(s): DANC 1700 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 374R
Ballroom Dance Choreography
2:1:2 Sp

- Prerequisite(s): DANC 2700, DANC 2710, DANC 2720
For dance majors in the Dancesport emphasis. Investigates and explores the choreographic process with reference to choreographic concepts. Involves the creation of dance skills that give shape and form to ideas based on a specific theme, style, or statement. Includes Latin, International Ballroom, American Rhythm and Smooth, and Cabaret styles. Explores formation team competition, solo couple competition, formation team stage performance, and solo couple stage performance as part of the creative process.

DANC 3750
Studies in Ballroom Dance Styles
2:2:0 F

- 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 376R
Ballroom Dance Company Reserve Tour Team
2:0:6 F, Sp

- Prerequisite(s): Audition
For students with advanced ballroom dance experience. Teaches American Social dance teaching methods and for members of the Ballroom Tour Team. Teaches the advanced (Gold) level patterns of Latin Style Waltz, Quickstep, Tango, Foxtrot, and Viennese Waltz. Emphasizes, on an advanced level, correct poise, style, rhythm. Also teaches correct footwork, foot positions, alignments, rise and fall, partnering, floor craft, and correct leading and following. First semester successful completers will develop a general knowledge of Gold level curriculum. Second semester successful completers will develop an in-depth knowledge of Gold level curriculum. Must be repeated for two credits toward graduation.

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 style 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 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, Sp

- Prerequisite(s): DANC 321R or DANC 327R and (DANC 421R or DANC 427R or DANC 428R);
advanced equivalent skill level to be determined
by audition.
- Corequisite(s): (DANC 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
Repertoire Ensemble
3:0:0  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 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 level and artistic skill level who are prepared for the technical difficulties required at a professional level. Provides hands-on experience in barre and center floor work to fully develop the professional artist. Successful completers will be prepared to participate on a professional performance level. May be repeated for a total of 24 credits toward graduation.

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, 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 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, rhetorical, 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.

Course Descriptions

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 447R
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, Fox trot, 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 447R
Latin Ballroom Dance IV
2:1:2  F, Sp
- Prerequisite(s): DANC 1720, DANC 2720, 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 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.
Course Descriptions

DANC 4740 International Ballroom Dance Teaching Methods 3:3:0 F
- Prerequisite(s): DANC 371R, DANC 3730
For Danscoeur 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 F
- Prerequisite(s): DANC 372R, DANC 3730
For Danscoeur majors and other students interested in teaching International Latin classes. Covers technical and theoretical aspects of all basic figures in Rumba, Samba, Paso Doble, Jive and Cha Cha. Focuses on areas such as Footwork, Rhythm, and Leads and Follows. Emphasizes correct teaching methods associated with each dance. Prepares students to obtain membership in the Imperial Society of Teachers of Ballroom Dance and to teach professionally.

DANC 476R Ballroom Dance Company Tour Team 2:0:6 F, Sp
- Prerequisite(s): Audition
For students with advanced Ballroom Dance Team experience. Audition required. Teaches advanced technique in performance and competitive discipline. Includes choreography, performances, demonstrations, and tours, in formation team dancing, stage performance, team competition, team match, and individual competitive events. Requires individual practice. May be repeated for eight credits toward graduation.

DANC 481R Internship in Dance I 1 to 3:0:5.2 to 12.5 F, Sp
- Prerequisite(s): Senior status in BFA in Dance or BS in Movement Studies and Departmental Approval
Provides an opportunity for upper-division students to receive college credit and work in a dance-related field. Offers students the opportunity to focus on a specific career path and prepare themselves to enter the profession. Applies academic concepts to actual work experiences. Requires approval of faculty sponsor and completion and acceptance of application. Also requires completion of an orientation, completion of Master Agreement between UVU and employer, completion of goals and tasks as required by academic department, and completion of final evaluation. May be repeated for a total of 6 credits toward graduation.

DANC 4880 Current Issues in Dance 3:3:0 F
- Prerequisite(s): DANC 3630 and upper-division status
Introduces students to the issues and philosophical views that have influenced dance and other art forms. Examines current trends and issues in dance. Includes lecture, discussion, readings, video, guest artists, and collaborative projects.

DANC 4920 Dance as Cultural Practice 3:3:0 Sp
- Prerequisite(s): DANC 2110 and (DANC 365R or DANC 3670)
Designed for students with an interest in dance and cultural representation. Takes a critical cultural approach to the study of dance as a means of encoding cultural values. Analyzes issues of gender, identity, religion, power, art, semiotics, and media/technology in relation to dance. Explores the effect of dance as cultural representation on society. Emphasizes critical theories of dance, representation, identity, feminism, and post-modernism. Requires student presentation of research project.

DENT—DENTAL HYGIENE

DENT 1010 Dental Hygiene I 4:2:6 F
- 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 F
- Prerequisite(s): Departmental permission required
For students accepted into the Dental Hygiene Program. Focuses on study of the normal development, structure, and function of the orofacial region. Provides microscopic and macroscopic study of oral structures in a laboratory setting. Builds on basic sciences and prepares for the study of the dental sciences and clinical dental hygiene.

DENT 1030 Dental Materials 2:1:3 F
- Prerequisite(s): Departmental permission required
Presents the history, composition, chemical, and physical properties and use of materials commonly utilized in the dental laboratory and dental operatory. Builds on dental sciences. Provides laboratory experience in performing common dental laboratory procedures and prepares for the clinical practice of expanded functions; all skills are taught to laboratory competence.

DENT 1040 Dental Hygiene II 6:3:9 Sp
- 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 Sp
- 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 3:3:0 Sp
- Prerequisite(s): Departmental permission required
Focuses on the study of commonly encountered systemic and oral diseases; etiology, presentation, treatment and effect on dental treatment, including associated emergency procedures. Emphasizes the principles of inflammation, immunology, healing, and repair. Builds on basic and dental sciences and prepares for clinical dental hygiene practice.

DENT 2010 Dental Hygiene III 6:2:12 F
- 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 in a clinical setting, with emphasis on planning and comprehensive treatment; all skills are taught to clinical competence unless otherwise noted in the course outline. Builds on basic and dental sciences and prepares for clinical dental hygiene practice.

DENT 2040 Dental Hygiene IV 6:2:12 Sp
- Prerequisite(s): Departmental permission required
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 2050 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 2060 Community Dental Hygiene 3:2:3 Sp
- Prerequisite(s): Departmental permission required
Examines the principles of community health, including assessment, planning, implementation, and evaluation of health care, with an emphasis on
oral health. Builds on knowledge of ethics, basic and dental sciences, and clinical dental hygiene practice. Provides the knowledge and skills necessary to function in a community health setting and includes learning experiences in community health agencies.

DENT 3030
Periodontology
3:0:0
- Prerequisite(s): Departmental permission required
Focuses on the study of the healthy periodontal tissues, and the factors, recognition, and classes of periodontal disease. Provides background knowledge of nonsurgical and surgical treatment of periodontal disease. Builds on basic and dental sciences and prepares for clinical dental hygiene practice.

DENT 3040
Dental Pharmacology
3:0:0
- 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 3060
Advanced Dental Hygiene Public Health
3:2:3
- Prerequisite(s): DENT 200, DENT 060
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 3200
Teaching the Dental Hygiene Patient
2:2:0
- 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 4010
Cutting Edge Seminar
1:1:0
- 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 4200
Teaching the Dental Hygiene Student
3:0:0
- 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 481R
Undergraduate Research in Dental Hygiene
3:0:0
- 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 1000
Keyboarding Basics
1:1:1
For students without previous training in keyboarding. Emphasizes fundamental keyboarding skills as well as proper techniques. Taught on computers.

DGM 1010
Basic Computer Applications
2:2:0
- Prerequisite(s): Basic keyboarding skill
Presents basic computer concepts and hands-on training in using a PC operating system, web browsers, e-mail software, and office application suite software. Exposes students to basic terminology of computer hardware and software. Teaches basic computer operating system software commands for efficient computer utilization. Teaches use of Internet browsers to locate information for professional and personal use. Introduces e-mail basics and netiquette. Teaches commands needed to create, edit, enhance, save, print, and effectively use word processing documents.

DGM 102R
Keyboard Reinforcement
1:0:2
- Prerequisite(s): Minimum keyboarding skill of 20 WPM
Emphasizes speed and accuracy through improved techniques using timed writings. Uses computer keyboards. One credit may apply toward a certificate or AAS degree. May be taken additional times for interest.

DGM 1060
Introduction to Computer Security and Programming
3:0:0
On Sufficient Demand
- Prerequisite(s): (DGM 1010 with a grade of B- or higher) or (Basic Computer Applications Exam with a score of 80% or higher)
Introduces computer concepts, such as hardware, software, networking, and emerging technologies in the electronic workplace. Emphasizes use of PC operating system for end users. Explores computer security risks and preventative measures for personal and administrative office use. Introduces visual programming for personal and administrative applications.

DGM 1110
Digital Media Essentials I
4:4:0
Su, F, Sp
Beginning course designed to give students an in-depth introduction and well-grounded understanding of the digital media way of thinking, opportunities in the field, various tools, and introduction to development techniques. Topics include: audience assessment, digital imaging, compression algorithms, ethical dilemmas, message design through text, audio, images, animation, and digital video.

DGM 1210
Digital Media Essentials II
4:4:0
Su, F, Sp
- Prerequisite(s): DGM 1110
Covers the five critical areas of advanced Digital Media design. Hands-on activities include digital video, audio, media authoring, visual design and project management principles. Addresses the fundamentals of how digital audio and visual materials work together to form powerful communication elements that provide end users with a unique media-based experience. Participants will design and author a well-designed Digital Media prototype using industry-level software that will include text, audio, video, images, and interaction.

DGM 183R
IAAP Student Chapter
1:1:0
On Sufficient Demand
- Prerequisite(s): DGM 1110
For career-oriented students who are interested in participating with an international administrative professional organization (International Association of Administrative Professionals). Develops insights regarding lifetime careers and advancement opportunities for administrative support personnel. Clarifies the relationship between the business world and administrative professions. Promotes a spirit of fellowship and the exchange of ideas and opportunities for leadership positions, committee assignments, participation in school and community activities, and competition in national competitive events. Requires payment of membership dues. Graded credit/no credit. A maximum of four credits may be applied toward graduation.

DGM 184R
IAAP Leadership
1:1:0
On Sufficient Demand
- Prerequisite(s): DGM 183R
For International Association of Administrative Professionals student chapter officers. Includes development, organization, and direction of the IAAP student chapter at UVU. Graded credit/no credit. A maximum of four credits may be applied toward graduation.
Course Descriptions

• Prerequisite(s): (DGM 1010 with a grade of B- or higher) or (Basic Computer Applications Exam with a score of 80% or higher)
Prepares students to become proficient in using word processing, presentations, spreadsheet, and database software programs for business and personal use. Includes intermediate document formatting, styles, and collaboration tools; electronic queries. Students are expected to have demonstrated proficiency in computer concepts, operating systems, Internet, email, and basic word processing.

DGM 201A Word Processing Applications 0.5:0.5:0 Su, F, Sp
• Prerequisite(s): (DGM 1010 with a grade of B- or higher) or (Basic Computer Applications Exam with a score of 80% or higher)
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 Presentation Applications 0.5:0.5:0 Su, F, Sp
• Prerequisite(s): (DGM 1010 with a grade of B- or higher) or (Basic Computer Applications Exam with a score of 80% or higher)
Introduces presentation software. Emphasizes process of creating, formatting, revising, saving, print, and showing presentations. Includes planning a slide show, choosing appropriate designs, and using templates.

DGM 201C Spreadsheet Applications 1:1:0 Su, F, Sp
• Prerequisite(s): (DGM 1010 with a grade of B- or higher) or (Basic Computer Applications Exam with a score of 80% or higher)
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 Su, F, Sp
• Prerequisite(s): (DGM 1010 with a grade of B- or higher) or (Basic Computer Applications Exam with a score of 80% or higher)
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 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.

DGM 2110 Digital Motion Picture Essentials 3:2:3 Su, F, Sp
• Prerequisite(s): DGM 1210 or COMM 1130 • Corequisite(s): DGM 2130 recommended
Prerequisite(s): DGM 1210
Present professional digital film production techniques used in feature films, documentaries and corporate video. Covers production processes such as story structure and script development, camera techniques, basic lighting techniques, production management and basic non-linear editing techniques. Addresses problem solving issues related to pre-production, production and post production. Each student will participate in a high-quality semester project that will take a story through the entire digital film pre-production, production and post-production process.

DGM 2120 Web Essentials 3:3:0 F, Sp
• Prerequisite(s): DGM 1210
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 Su, F, Sp
• Prerequisite(s): DGM 1110
Reviews basic sound principles, cable types, microphone types and basic techniques of use. Teaches recording of basic sounds and musical instruments into a Digital Audio Workstation. Introduces multi-track audio, editing, EQing, mixing and mastering a 3-minute piece with voice and music. Includes a final project consisting of a multi-track music project designed for use in film, commercial radio, or other multimedia applications.

DGM 220R Special Topics in Digital Media 1 to 4:0 to 4:0 to 12 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 Digital Modeling and Animation Essentials 4:3:3 Su, F, Sp
• Prerequisite(s): DGM 1210 or DGM 2620
Addresses the basics of 3D modeling, texturing, lighting, animation, and rendering, and how these are utilized in the production process. Teaches the basic techniques and uses of storyboarding in the production of a 3D animation project.

DGM 2220 Marketing for Digital Media 3:3:0 Su, F, Sp
• Prerequisite(s): DGM 1110
Teaches development and implementation of successful advertising and marketing strategies using current e-marketing techniques. Addresses methods to identify potential markets, select distribution strategies, and develop successful marketing plans. Describes roles of sales and marketing team members and covers the use of digital media to create effective marketing materials. Includes methods for creation and distribution of marketing materials and products including Internet, print, broadcast and digital media. Includes lectures, demonstrations, and a case study during which each student will develop a realistic marketing plan and materials for a project.

DGM 2230 Exploring Digital Communication Tools 3:3:0 Su, F, Sp
• Prerequisite(s): (DGM 1010 with a grade of B- or higher) or (Basic Computer Applications Exam with a score of 80% or higher) or instructor approval
Introduces students to emerging technology that allows users to write by voice or digital input and to have limited control of the Windows environment. Presents an overview of current technology, getting started using the technology, learning the basics, and using speech recognition and digital input tools in communication. Provides in-class instruction and independent practice.

DGM 2240 Interaction Design 3:3:0 F
• Prerequisite(s): DGM 1210 or CS 1400 or INFO 1200
Focuses on strategies and principles used in digital media development that produce unique and highly interactive experiences. Course participants learn how to understand stakeholder goals, identify and specify user needs and requirements through design documentation, engage in interactions with target audience 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 1210
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
### Course Descriptions

**DGM 2270**
**DVD Authoring I**
3:3:0 F
- Prerequisite(s): DGM 1210
- Focuses on the development of DVD-Video products at the basic building block level. Participants are introduced to production workflow processes, still image 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 2370
- Includes storage and retrieval systems, managing manual and electronic files, cross referencing, automated records systems, safety, security, and disaster recovery. Discusses the records cycle, equipment, supplies, retention schedules, and micrographics and image technology. Explores legal and ethical concerns.

**DGM 230R**
**Special Topics in Digital Graphics**
1 to 4:0 to 4:0 to 12 On Sufficient Demand
- Designed for students interested in specific graphic tools and concepts currently used in digital media production. Includes relevant and changing topics and tools. Emphasizes hands-on experience along with lectures and demonstrations. This class may be taken for a total of nine credits, but curriculum may vary from one semester to another.

**DGM 2320**
**Digital Photography and Compositing I**
3:3:0 Su, F, Sp
- Introduces digital image acquisition and manipulation. Teaches the mechanics of the digital camera, and introduces lighting, white balance, color temperature, digital ISO and electronic image stabilization. Discusses image compositing, EXIF data analysis and archiving.

**DGM 2340**
**Digital Output**
3:3:0 Su, F, Sp
- Prerequisite(s): DGM 2320
- Focuses on the color calibration of the digital camera, software, monitor and output devices. Also discusses substrate properties, ink density, PPI and DPI resolution. Covers qualitative digital manipulation and includes modules on archival restoration, high-end and large format work.

**DGM 2350**
**Word Processing**
3:3:0 F, Sp
- Prerequisite(s): Basic Keyboarding skills

**DGM 2360**
**Spreadsheet Applications**
3:3:0 F, Sp
- Prerequisite(s): ACC 1150 or equivalent business math knowledge; basic keyboarding skill
- Provides an extensive study and hands-on examination of practical business applications using electronic spreadsheets. Provides comprehensive coverage of features available in the current Windows version of spreadsheet software.

**DGM 2370**
**Database Applications**
3:3:0 F, Sp
- Prerequisite(s): Basic keyboarding skill
- Explores creating and utilizing database files using database management software. Covers basic concepts of database management emphasizing commonly used applications. Teaches use of reports, labels, letters, custom screens, and queries in a business setting.

**DGM 2380**
**Integrated Software Projects**
3:3:0 Sp
- Prerequisite(s): MGMT 2200, DGM 2350, DGM 2360
- Focuses on the development of business documents. Stresses self-motivation, acceptance of responsibility, critical thinking, and effective decision making.

**DGM 240R**
**Special Topics in Digital Audio**
1 to 4:0 to 4:0 to 12 On Sufficient Demand
- Designed for students interested in specific audio tools and concepts currently used in digital audio production. Includes relevant and changing topics and tools. Emphasizes hands-on experience along with lectures and demonstrations. Curriculum may vary from one semester to another. May be repeated for a maximum of nine credits.

**DGM 2420**
**Studio Recording I**
3:3:0 F
- Prerequisite(s): DGM 2130 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 in-depth from where the Digital Audio Essentials class left off.

**DGM 2440**
**Sound for Film and Television**
3:3:0 Sp
- 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** (Cross-listed with: COMM 2560)
**Radio Production**
3:3:0
- Teaches the history of radio, and the structure of typical radio stations, from management to programming and sales, and production and promotion. Covers method of producing radio promos, radio shows, commercials and news segments, as well as features and interviews. Examines the use of Digital Audio Workstations to produce several radio segments of the student’s choosing. Includes lectures, demonstrations, and guest lecturers from radio stations in the community.

**DGM 2480**
**MIDI Fundamentals**
2:2:0 On Sufficient Demand
- 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 institution’s electronic music studio. Examines materials intended to assist students in becoming acquainted with, and effectively utilizing, the computerized technological music tools which are currently available.

**DGM 250R**
**Special Topics in Digital Motion Picture Production**
1 to 4:0 to 4:0 to 12 On Sufficient Demand
- Prerequisite(s): DGM 2110
- Designed for students interested in specific video tools and concepts currently used in digital media processes. Includes relevant and changing topics and tools used in industry. Emphasizes hands-on experience along with lectures and demonstrations. Curriculum may vary from one semester to another. May be repeated for a maximum of nine credits toward graduation.

**DGM 2520**
**Film Production Analysis**
3:2:3 On Sufficient Demand
- Prerequisite(s): DGM 2110
- Film Production Analysis is a foundation class for those interested in the digital media and motion picture business. Analyzes the various technologies and production techniques that make up motion picture communication. Involves viewing a motion picture each week of class and analyzing how the producer and director incorporated production and structural techniques to produce a compelling story. Covers the eight sequence structural elements of motion picture storytelling, how each crew member of the production team contributes to the overall impact, how scripting is used to direct the team to create a strong cinematic effect, and how the three act eight sequence structure guides the entire team through the pre-production, production and post-production process.
Course Descriptions

DGM 2540
Cinematography I
3:2:3
- Prerequisite(s): DGM 1110
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/group 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
3:3:0
- Prerequisite(s): DGM 1110 or Instructor Approval
Explores video and computer gaming from historic, economic and production perspectives. Includes an introduction to game theory, analysis and design documentation.

DGM 2620
Principles of Animation I
4:2:6
- Prerequisite(s): ART 2250
Introduces animation principles used in contemporary industry. Emphasizes the study of objects in motion. Includes an introduction to animation milestones and personalities.

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
- 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
- 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 place 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
- Prerequisite(s): DGM 2120
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 to 10
- 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 289R
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 I
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
- Prerequisite(s): DGM 1210
Explores cultural and technical issues related to designing digital messages to reach globally and culturally diverse audiences. Discusses needs and perspectives of diverse cultures ranging from special needs populations to local ethnic and international cultures. Provides a framework for analyzing and understanding differing cultural perspectives. Outlines strategies for designing digital media to: 1) localize digital materials to make them more appropriate and accessible for a specific locale or audience; and 2) internationalize digital materials to make them more acceptable and accessible to culturally diverse audiences.

DGM 3130
Digital Storyboarding
3:3:0
- 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
- Prerequisite(s): DGM 1210
Teaches the foundational principles which contribute to both quality and profitability of multimedia projects. Compares multimedia development to the software development process. Additionally, reviews team dynamics such as the relationship between project manager and other production team members. Introduces project management tools, which can be used to guide and manage individual and multiple projects.

DGM 3240
Interaction Design Colloquium
3:3:0
- 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
- Prerequisite(s): DGM 2260
Focuses on advanced application of media technologies when creating rich immersive experiences for distribution as a desktop or optically-based application that is connected to the Internet. Introduces participants to customized media elements, compression techniques, dynamic content structures and delivery mechanisms to deliver engaging New Media experiences. Laptop Required

DGM 3265
Instructional Design for Digital Media
3:3:0
On Sufficient Demand
- Prerequisite(s): DGM 1210
Focuses on learning and instruction theories for adults within the context of a business/industry training environment. Explores through a wide variety of business examples specific implications and applications of these theories into instructional design to resolve performance problems.

DGM 3270
DVD Authoring II
3:3:0
- Prerequisite(s): DGM 2270
Focuses on advanced development techniques of DVD-Video media technologies. Covers advanced characteristics of visual design, motion menus,
Course Descriptions

DGM 3280  Authoring for Digital Devices  3:3:0  Sp
   • Prerequisite(s): DGM 2250
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. Examine 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 3230
Builds on skills acquired in Digital Photography and Imaging I. Further the student's knowledge of light, composition, archiving and image manipulation. Introduces digital workflow, color management and the concept of color space.

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  Su
   • 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 mixing 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 mid-term examination.

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. Address 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  3:3:0  F
   • Prerequisite(s): DGM 2110
Teaches planning, management, and execution of live video productions integrating multiple bi-directional villages, and management and execution of live video productions integrating multiple cameras. Teaching the role of the broadcast production team. Studies various types of digital standards and broadcast equipment. Includes hands-on broadcast lab where students produce and direct short productions.

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, Wide World Web and theatrical distribution. Includes instruction in the different positions that comprise the entire production team, including the roles of the team and how they evolve through the pre-production, production and post production process. Stresses narrative film based on structurally sound three act eight sequence scripts. Involves dividing the class into production teams and producing short three act narrative films that include dialogue, sound effects and music.

DGM 3540  Cinematography II  3:3:0  Su, F, Sp
   • Prerequisite(s): DGM 2540
A "hands-on" class that covers the role of the Director of Photography (DP) and Gaffer in drama-based broadcast television and digital cinematography. Teaches continuity of lighting, visual story telling, implied script subject 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 3560  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, montaging, color correction, video editing, mix, audio mixing, effects, animation and fine cutting and color correcting.

DGM 3570  Digital Story Telling Workshop  3:3:0  On Sufficient Demand
   • Prerequisite(s): DGM 2110
A professional workshop. Teaches advanced writing for digital media and motion pictures. Covers professional script structure based around the 8 sequence motion picture structure. Includes writing assignments each week that will be read and analyzed according to structure and execution of a goal. Discusses a specific scriptwriting subject each week such as finding the idea, research, outlining and rewriting.

DGM 3580  Digital Cinema Production Workshop  3:3:0  On Sufficient Demand
   • Prerequisite(s): DGM 2110, DGM 3540, DGM 2530
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.
Course Descriptions

DGM 360R
Advanced Topics in 2D/3D Animation
1 to 4:0 to 4:0 to 12 On Sufficient Demand
Intended for advanced students with an interest in digital animation. Includes relevant and changing topics and tools. Emphasizes hands-on experience along with lectures and demonstrations. Curriculum may vary from one semester to another. May be repeated for a maximum of nine credits.

DGM 3610
Game Design I
3:2:3
- Prerequisite(s): DGM 2610
Follows DGM 2610 Game Design. Continued study of game theory, analysis, design documentation, and production. Introduces gaming engines and software. A laptop computer is required for this course.

DGM 3620
Principles of Animation II
4:3:3 Sp
- Prerequisite(s): DGM 2620 and DGM 2210
Covers advanced concepts. Includes lip sync, complex motion analysis and scene layout. A continued study of the principles of animation and an integration of 2D and 3D environments.

DGM 3630
Character Modeling
3:2:2 Sp
- Prerequisite(s): DGM 2210 or instructor approval
An in-depth study and application of 3D character production for animated motion pictures, games, and television. Requires a firm understanding of 3D modeling, basic animation, and rendering. Students will create 3D character following industry processes from concept line art to 3D model, from 3D model to rigged character and from rigged character to animated actor.

DGM 3640
SFX and Compositing
4:4:0 F
- Prerequisite(s): DGM 2110, DGM 2210
Investigates the history of effects animation, and how to do it in the modern world, using traditional and advanced techniques, and high-end software and equipment. Includes, but not limited to: particle systems, compositing with 3D files and animation, simulating real or unreal environments, 3D mapping and more.

DGM 3680
Animation Project
3:3:0 Sp
- Prerequisite(s): DGM 3620
Devoted to the pre-production of a multi-semester team project for students focusing on 2D/3D animation. Includes a research phase, writing, scripting, designing, 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
Intended for advanced students with an interest in Internet authoring. Includes relevant and changing topics and tools. Emphasizes hands-on experience along with lectures and demonstrations. Curriculum may vary from one semester to another. May be repeated for a maximum of nine credits.

DGM 3740
Web Content Management
3:3:0 On Sufficient Demand
- Prerequisite(s): DGM 2740
Instructs students how to create a site that is content rich, dynamic, and meaningful to site visitors. Participants learn how to effectively plan, develop, arrange, and change content through the use of information design principles, content management systems and Web analysis tools. Culminates with participants working on an actual "live" site in a production environment in which students must solve real design, development and delivery issues.

DGM 3760
Web Languages II
3:3:0 Sp
- Prerequisite(s): DGM 2760
Expands on Web Languages. Covers server-side web development and database interaction. Offers the skills and knowledge necessary to produce web sites in a professional environment. Covers current technology and design standards for websites that are database driven using current languages and platforms. Demonstrates how database interaction can enhance a multimedia website. Includes lectures, demonstrations, and weekly projects. Culminates with a final project during which each student will design and create materials for use in a well-designed database driven web site.

DGM 3780
Authoring for the Internet II
3:3:0 Sp
- Prerequisite(s): DGM 2780
Participants learn advanced techniques for delivering exceptional Flash based Internet applications. Teaches advanced scripting fundamentals, how to deliver content through server-side database connectivity, and engaging the audience through highly interactive experiences.

DGM 3790
Streaming Digital Media
3:3:0 Sp
- Prerequisite(s): DGM 2120
Instructs students in various streaming technologies and the future direction of the growing market. Investigates player/format technologies such as QuickTime, Real, Flash, and Windows Media, with a special emphasis on MPEG-4/H.264 as an open industry standard. Participants will learn the production workflow for live broadcast events using Unicast and Multicast in a mobile environment, as well as technical aspects of network infrastructure as it pertains to delivery of streaming content.

DGM 3820
Presentation Applications
3:3:0 F, Sp
- Prerequisite(s): DGM 1210 or instructor approval
Uses PowerPoint 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 1210 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
Web Graphics Applications
3:3:0 F
- Prerequisite(s): DGM 1210 or instructor approval
Introduces digital image editing using Adobe Photoshop and Illustrator. Includes web-based graphics design for instructional projects. Provides an overview of creating and editing images and optimizing graphics for the web.

DGM 4000
Writing for Digital Media
3:3:0 F
- Prerequisite(s): DGM 1110, ENGL 2010 or ENGL 2020
Teaches the role of the written word in the digital arena and the writing skills for students to become effective communicators within the various forms of multimedia including web pages, digital animation, audio, video and cinema.

DGM 4100
CPS/CAP Review--Office Systems and Technology
2:2:0 On Sufficient Demand
- Prerequisite(s): Instructor approval
For students and others wishing to prepare for the Certified Professional Secretary or the Certified Administrative Professional Examinations administered by International Association of Administrative Professionals. Prepares students to sit for the Office Administration 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.
Course Descriptions

DMT—Diesel Mechanics Technology

DMT 1010 Diesel Apprentice Electrical 1A
5:5:0 On Sufficient Demand
Studies PCs for managing shop information, work orders and reports. Uses word processing, data management and typical shop management software. Teaches theory of operation and troubleshooting/repair skills in automotive electrical systems using state-of-the-art testing equipment. Includes safety and environmental awareness.

DMT 1020 Diesel Apprentice Engine Overhaul 1B
5:5:0 On Sufficient Demand
Covers basic operating principles and technical information. Focuses on engine rebuilding nomenclature, precision measuring, cooling systems, lubricating systems, induction and exhaust systems. Provides theory and lab experiences on diesel engines.

DMT 1030 Diesel Apprentice Governor Systems 2A
3:3:5.0 On Sufficient Demand
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 dynanometer operations, maintenance procedures, and emission controls. Emphasizes ethics, safety, and electrical review.

DMT 1040 Diesel Apprentice Engine Controls 2B
3:3:5.0 On Sufficient Demand
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
3:3:5.0 On Sufficient Demand
For second semester Diesel Technology students and other interested community members. Provides theory with on and off road heavy duty systems including computerized engine diagnostics and air conditioning. Covers tune-up procedures, electronic HUEI, Bosch distributor and inline fuel system. Includes testing, adjusting, maintenance procedures, air-conditioning and heating. Emphasizes work ethics and safety.

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 4240 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 481R Internship 1 to 4:0:5 to 20 Su, F, Sp
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 6 On Sufficient Demand
Prerequisite(s): Instructor/department chair approval Provides short courses, workshops, and special programs in information management or current business topics. Repeatable for up to six credits.

DGM 497R Independent Study 1 to 3:0 to 3:0 to 9 Su, F, Sp
Prerequisite(s): Department chair approval For bachelor’s degree students and other interested persons. Offers independent study as directed in reading or in individual projects; offered at the discretion and approval of the department chairperson. May be repeated for a maximum of six credits toward graduation.

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Course Descriptions

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 Compass Reading score of 55
 - 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, coolers, 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 with 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 with C- or better
 - 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 with 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 2:0:6

DMT 2230 Climate Control Theory 2:2:0
 - Corequisite(s): DMT 223L Recommended
 Teaches the principles of heat transfer using refrigerant as the medium. Emphasizes the identification and operation of individual system components. Discusses the different types of refrigerants used in the mobile industry as well as recovery, recycling, storage, handling, and disposal. Also covers the theory and operation of auxiliary power units used on highway trucks.

DMT 223L Climate Control Lab 1:0:3
 Provides hands-on opportunity to locate, identify, test, service, and troubleshoot different types of mobile AC systems using EPA approved equipment and procedures. Students will demonstrate their proficiency using recovery recycling, evacuating, and charging equipment for both R-12 and R-134A refrigerants. Also provides hands-on experience with auxiliary power units used on highway trucks.
and multiple counter shaft transmission, computer controlled transmissions, drive line geometry, differentials and DOT safety requirements. Emphasizes troubleshooting, highway safety, and preventative maintenance.

**DMT 242L**
**Power Trains Lab**
2:0:6
• Pre- or Corequisite(s): DMT 2420
For third and fourth semester students. Provides hands-on experience in maintenance and repair of heavy duty power trains systems. Covers clutches, single and multiple counter shaft transmission, computer-controlled transmissions, drive line geometry, differentials and DOT safety requirements. Emphasizes troubleshooting, highway safety, and preventative maintenance.

**DMT 281R**
**Cooperative Work Experience**
1 to 8:0:5 to 40
• 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
• 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
• Prerequisite(s): Advisor and Instructor Approval
For students majoring in diesel technology. Involves special projects. Allows independent projects that are designed to enhance beginning or advanced abilities. Repeatable for as many times as desired.

**DMT 298R**
**Technical Workshop**
1 to 4:0:4 to 12
For Diesel Technology students and other interested community members. Tailored to a specific topic, product, component, or vehicle related to the diesel service industry. Its purpose is to update technician training by addressing changes in products or equipment. Topics will vary. May be presented by an OEM, a dealer representative, or faculty member. Repeatable.

### 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
Studies algebra as it applies to the electrical trade. Includes basic operations used in the solution of Ohm’s law, series, parallel and combination circuits. Solves basic circuits by finding missing values. Covers the mathematics used to solve problems in series and parallel circuits made up of transformers, inductance, capacitance and resistors. Teaches the use of a calculator in solving problems pertaining to transformers and the right triangle, as it describes the current-voltage relationship in series and parallel circuits made up of inductors, capacitors and resistors. Emphasizes power factor correction. Completers should be able to understand mathematics as applied to DC or AC theory. Includes lecture and demonstrations.

**EART 1110**
**Electrical Apprentice 1A**
5:5:0
For electrical apprentices. Teaches the theory of and includes an introduction to electricity, basic DC theory, voltage, current, resistance, batteries, and magnetism. Covers principles, formulas and
Course Descriptions

math for simple electrical circuits, series, parallel, combination circuits, and power problems.

EART 1120 Electrical Apprentice 1B 5:5:0 Sp
- Prerequisite(s): EART 110 or departmental written approval
For electrical apprentices. Introduces measuring instruments, magnetism, circuits, devices, National Electrical Code, blue-ribbon reading, DC motors, low voltage circuits, DC motor control, DC generators, 3 and 4 way switches, and conduit bending.

EART 1130 Basic Electrical Lab 4:4:0 F
Includes basic DC theory such as voltage, current, resistance, batteries, magnetism, and meters. Emphasizes lectures and films. Covers principles of DC circuits and troubleshooting of these circuits. Studies the application of AC theory to industrial and commercial applications in the electrical field. Explains the basic construction and theory of inductance, capacitance and resistors dealing with L.C.R. circuits as they are used in the electrical or electronic fields. Includes lectures and demonstrations.

EART 1180 Basic Electrical Lab 5:5:15 F
Teaches basic DC theory such as voltage, current, resistance, batteries, magnetism, meters, wire sizing, splicing, soldering, and conduit bending. Includes observing and following safety procedures. Emphasizes lab experiences in all the above areas. Covers principles of DC circuits and troubleshooting of these circuits. Includes basic operations used in the solution of Ohm's law, series, parallel and combination circuits. Studies the application of AC theory 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 or electronic fields. Includes transformer connections for single phase and three phase devices. Includes theory and practical conduit bending. Emphasizes hands-on lab experiments with all of the above circuits as well as power in inductors, capacitors and resistors as well as shaping circuits and passive filters. Completers should be able to wire circuits, size wire, solder, trouble shoot, correct power factor, and bend conduit.

EART 1210 Electrical Apprentice 2A 5:5:0 F
- Prerequisite(s): EART 1120 or departmental written approval
For electrical apprentices. Teaches application of AC theory as it applies to industrial applications in the electrical field. Covers the basic construction and theory of inductance, capacitance, and resistors dealing with L.C.R. circuits as they are used in the electrical field. Covers the mathematics used to solve problems in series and parallel circuits made up of transformers, inductance, capacitance, and resistors. Emphasizes the use of a calculator in solving problems pertaining to the right triangle, as it describes the current-voltage relationship in series and parallel circuits made up of inductors, capacitors, and resistors. Includes hands-on experiences in correcting power factor in motors, comparing true power, apparent power and reactive power in inductor, capacitors and resistors.

EART 1220 Electrical Apprentice 2B 5:5:0 Sp
- Prerequisite(s): EART 1210 or departmental written approval
For electrical apprentices. Covers installation, troubleshooting, preventive maintenance and repair of AC motors, motor control, and transformers. Teaches proper use of tools and test equipment needed in maintaining AC motors, motor control, and transformers. Includes hands-on experiences on AC motors, motor control, and transformers.

EART 1250 Electrical Wiring and Code 2:1:3 Sp
- Prerequisite(s): EART 1130, EART 1050, and EART 1180; or departmental approval
Covers the National Electrical Code using theory, specifications, blueprints and installation methods pertaining to residential, commercial, and industrial applications. Includes lectures and lab experiences.

EART 1260 Logic 2:1:3 Sp
- Prerequisite(s): EART 1130, EART 1050, and EART 1180; or departmental approval
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 propagational delay, power lost, and noise. Solves problems using Boolean Algebra and DeMorgan's theorems. Students should also be able to minimize combinational gate circuits and troubleshoot. Includes lecture, demonstrations, and lab work emphasizing hands-on lab experiments with gate circuits.

EART 1270 DC and AC Machines 9:5:12 Sp
- Prerequisite(s): EART 1130, EART 1050, and EART 1180; or departmental approval
Covers installation, troubleshooting, preventive maintenance and repairs on DC and AC motors, generators and controllers. Trains students in the proper use of tools and test equipment needed in maintaining motors and controllers. Emphasizes hands-on lab experiences. Includes lecture, lab, and demonstrations. Completers should be able to work at entry-level skills maintaining motors and controllers in industrial and commercial settings. Includes lecture, demonstrations, and lab work.

EART 1300 Electrical Union Apprentice 1A 5:5:0 Not 08-09
- 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/NECA's structure, and tools of the trade. Introduces resistance in a DC series circuit.
EART 145L
AC Motors Laboratory
1:0:3  On Sufficient Demand
- Prerequisite(s): EART 144L
- Corequisite(s): EART 1450
A laboratory-based course which addresses the hands-on aspects of installation, troubleshooting, preventive maintenance and repairs of AC motors, generators, and controllers. Emphasis is the proper use of tools and test equipment needed for maintaining motors and controllers. Course approach includes laboratory activities augmented with demonstrations.

EART 2020
Electricity for Mechanics
5:3:6  F, Sp
Studies basic principles of electricity, industrial wiring, electrical codes, motors, relays, controllers, and electrical safety. Covers the use of electrical components in conjunction with machines. Emphasizes the diagnosis and replacement of electrical components in mechanical systems. Uses conventional and electronic test equipment. Completers should have entry-level skills to work with modern electro/mechanical machinery.

EART 2030
Electronics for Mechanics
5:3:6  F, Sp
- Prerequisite(s): Completion of EART 2020 or departmental approval
Studies principles of digital electronics, circuit wiring, PLC, electronic and computer controllers, integrated circuits, and safety. Covers the use of electronic components in conjunction with machines. Emphasizes the diagnosis and replacement of electrical components in mechanical systems. Uses conventional and electronic test equipment. Completers should have entry-level skills to work with modern electro/mechanical machinery.

EART 2110
Semiconductors Devices
6:5:3  F
- Prerequisite(s): EART 1250, EART 1260, and EART 1270; or departmental approval
Introduces basic semiconductor theory. Examines the concept of the pn junction. Covers various diodes and their applications. Presents bipolar junction transistors (BJTs). Studies field-effect transistors (FETs). Covers power amplifiers. Introduces thyristors and other special semiconductor devices. Includes lecture, demonstrations, and lab work.

EART 2150
Hydraulics and Pneumatics
3:2:3  F
- Prerequisite(s): EART 1250, EART 1260, and EART 1270; 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 1250, EART 1260, and EART 1270; or departmental approval
Covers theory and operation of industrial solid state power circuits, integrated circuit operational amplifiers, and AC/DC motor drives. Completers should have job entry-level competence in advanced industrial control with solid state control circuits, amplifiers, and variable speed drives. Includes lecture, demonstrations, and lab work.

EART 2250
Programmable Logic Controllers 1
5:3:6  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 related work at entry-level positions with safety and environmental awareness.

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 Apprentice 3A
5:5:0  Not 08-09
- Prerequisite(s): Departmental Written Approval
For electrical union apprentices. Teaches Kirchoff's laws, Thovenin's and Norton's theorems, diodes, single phase power supplies, transducers, transistors, switching and biasing techniques. Covers silicon controlled rectifiers (SCR), triacs and diacs, un-junction transistor, amplifiers, field effect transistors, ICs and OP AMPS, IC timers, electronic applications, and industrial prints. Reviews DC/AC theory.

EART 2340
Electrical Apprentice 3B
5:5:0  Not 08-09
- 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 circuit calculations, electrical load calculations, calculating the parameters of range loads. Review three phase transformers, WYE and DELTA connections.

EART 2350
Electrical Apprentice 4A
5:5:0  Not 08-09
- Prerequisite(s): Departmental Written Approval
For electrical union apprentices. Teaches lightning protection systems, AC fractional horsepower motors, repulsion, DC and universal motors, polophase motors, AC motors, manual starters and magnetic coils, relays and timers, controls, clutches and drives. Covers motor control drawings, wiring diagrams, and schematics.

EART 2360
Electrical Apprentice 4B
5:5:0  Not 08-09
- Prerequisite(s): Departmental Written Approval
For electrical union apprentices. Teaches characteristics of logics 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 Apprentice 5A
5:5:0  Not 08-09
- Prerequisite(s): Departmental Written Approval
Designed for fifth year electrical union apprentices. Teaches fire alarms, advanced technology systems, smoke detectors, fire alarm installation,
Course Descriptions

EART 2380 Electrical Union Apprentice 5B 5:5:0 Not 08-09
- Prerequisite(s): EART 2320 or 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 2420 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 Journeymen Exam. Includes print reading and problem solving. Completers should be prepared to take the Utah Journeymen Exam, provided they have completed all State requirements.

EART 2450 Hydraulics and Pneumatics Fundamentals 2:2:0 On Sufficient Demand
  This course addresses the fundamentals of hydraulic and pneumatic components and systems used in industrial applications. Focus is on pumps, motors, directional and flow control valves, cylinders, transmission, and fluids. Emphasizes maintenance, safety and environmental problems as well as troubleshooting techniques and blue print reading. Includes lectures, demonstrations and CD instructional material.

EART 245L Hydraulics and Pneumatics Fundamentals Laboratory 1:0:3 On Sufficient Demand
  - Corequisite(s): EART 2450
  This course addresses the fundamentals of hydraulic and pneumatic components and systems used in industrial applications. Focus is on the use of pumps, motors, directional and flow control valves, cylinders, transmission, and fluids. Emphasis is on maintenance, safety and environmental problems, as well as troubleshooting techniques and blueprint reading.

EART 2750 Programmable Controllers 3:3:0 On Sufficient Demand
  - Prerequisite(s): EART 1450 or equivalent
  This course covers the theory, programming and industrial control system applications of small and medium sized programmable logic controllers (PLC’s). Studies basic maintenance and troubleshooting techniques for programmable logic controllers. Includes lecture, demonstration, and print reading.

EART 275L Programmable Controllers Laboratory 2:0:6 On Sufficient Demand
  - Corequisite(s): EART 2750 or equivalent
  This laboratory course addresses the ‘hands-on’ aspects of programming and industrial control system applications of small- and medium-sized programmable logic controllers (PLC’s). Studies basic maintenance and troubleshooting techniques for programmable logic controllers. Course focus is on print reading and lab projects.

EART 281R Cooperative Work Experience 1 to 8:0:5 to 40 Su, F, Sp
  - Prerequisite(s): Approval of Department Chair
  Provides paid on-the-job work experience that relates to Electrical Automation and Robotics Technology (EART) in the student's major. Work experience, the related class, and enrollment are coordinated by the EART Cooperative Coordinator. Completers must individually set and complete goals/learning objectives based on the job description from their work assignment.

EART 285R Cooperative Correlated Class 1:1:0 Su, F, Sp
  - Prerequisite(s): Approval of Department Chair
  Designed to identify on-the-job problems and to remedy those problems through in-class discussion and study. Focuses on preparing for, participating in, and utilizing the experiences available from working in a cooperative education/internship program.

EART 290R Directed Readings 1 to 4:0:3 to 12 Su, F, Sp
  For second-year EART students. Includes readings with analysis and discussion of selected topics in child education and family relationships. Requires approval of the department for registration. May be taken for a maximum of four credits.

ECFS 2400 Family Relations 3:3:0 Sp
  For ECFS majors and others interested in the study of family life. Studies the interaction and complexity of interpersonal relations through various stages of the family life cycle. Examines cultural, ethnic, and family influences on goals, attitudes, and behaviors of children. Also studies impact of society on the modern American family. Reviews family systems, themes, styles of communication, birth order, divorce, single parenting, blended families, aging, peer influences, education, labor force participation, and environmental factors. Requires a research paper.

ECFS 2410 Parenting Skills 3:3:0 On Sufficient Demand
  An elective course for ECFS students and others desiring to develop effective parenting skills in self and others. Presents practical aspects of parenting based on theoretical and academic research. Explores various parenting education models and strategies for fostering and supporting effective parent-child relationships. Also explores parenting issues including single-parenting, step-parenting, family dysfunction, and comparison of home-based and school-based discipline strategies.

ECFS 285R Cooperative Correlated Class 1:1:0 Not 08-09
  - Corequisite(s): EART 285R
  For ECFS majors. Provides paid, on-the-job 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.

ECFS 2900 Independent Study 1 to 5:1:0 to 12 Su, F, Sp
  - Prerequisite(s): Approval of ECFS Department
  Provides independent study through faculty-directed individual projects related to working with children and families. Possible areas of study include curriculum, behavior management, program administration, family studies, and case studies in applied theory.
ECFS 3320  
Gender Perspectives in Education  
3:3:0  
On Sufficient Demand  
For educators, counselors, student teachers, those wanting to recertify, and other interested students. Explores gender issues that may affect the educational experience of girls and boys. Examines history, biases, myths, and stereotypes. Develops sensitivity to issues of gender through discovery learning. Assists participants to recognize cultural and individual issues as they pertain to gender.

ECFS 471R  
Supervision  
2:0:6  
On Sufficient Demand  
- Prerequisite(s): Current Utah teaching license, successfully taught in the public school system for three years, permission of instructor.  
- Corequisite(s): Serving as a cooperating teacher in the semester the applicant is taking the course. Designed for public school teachers who supervise student teachers. Examines education method classes at UVU, instructional theory, evaluation and supervision, lesson design and student assessment. May be repeated three times for credit.

ECFS 4720  
Characteristics and Identification of Gifted Students  
3:3:0  
On Sufficient Demand  
- Prerequisite(s): ECFS 4720; Permission of instructor  
Designed for senior teacher education students and in-service teachers. Reviews different conceptualizations of intelligence and giftedness and practices and instruments used for identification. Describes characteristics and cognitive, social and developmental needs of gifted students.

ECFS 4730  
Teaching Gifted Students  
3:3:0  
On Sufficient Demand  
- Prerequisite(s): EDEL 3000 or EDSC 3000 or EDEC 3000 and Permission of Instructor  
For senior education students and in-service teachers in local schools. Describes the various settings in which gifted students are served. Reviews instructional strategies and assessment appropriate to teaching gifted students, and strategies for dealing with parents.

ECFS 492R  
Special Topics in Gifted Education  
3:3:0  
On Sufficient Demand  
- Prerequisite(s): (EDEL 3000 or EDSC 3000 or EDEC 3000) and Permission of Instructor  
Designed for senior education students and local in-service teachers. Includes topics, such as underserved populations of gifted students, contemporary issues in gifted education, creativity, etc. May be repeated three times for credit.

ECFS 494R  
Special Topics in Educational Psychology  
3:3:0  
On Sufficient Demand  
- Prerequisite(s): (EDEL 3000 or EDSC 3000 or EDEC 3000) and permission of instructor  
Explores topics in educational psychology as it relates to classrooms. Includes topics, such as motivation to learn and succeed, classroom application of learning and cognition, role of emotion in learning, etc. Varies each semester. May be repeated three times for credit.

ECON—ECONOMICS

ECON 1010  
Economics as a Social Science  
3:3:0  
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 2010  
Microeconomics  
3:3:0  
Su, F, Sp  
- Prerequisite(s): MATH 1050  
Designed for business management transfer students and as elective credit for other business students desiring economic decision-making skills. Covers intermediate microeconomics. Uses lecture, class discussion, videos, student presentations, and computer simulation. Completers should be ready to take university upper-level economics courses and to make upper-level management decisions.

ECON 2020  
Macroeconomics  
3:3:0  
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 3820  
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 3030  
Intermediate Macroeconomics  
3:3:0  
On Sufficient Demand  
- Prerequisite(s): ECON 2010, ECON 2020, and MGMT 2340  
Extends discussion of models of income determination, economic growth theory, analysis of fiscal and monetary policy theory, international trade issues, and alternative views related to the impact of macro theory in the US and world economies. Prepares economics majors for other advanced economic theory and policy courses.

ECON 3040  
Environmental Economics  
3:3:0  
On Sufficient Demand  
- 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 resource 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 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 computational 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
Course Descriptions

writers including Ricardo and Malthus as well as Marx’s critics. 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 4150**
Public Finance
3:3:0 **On Sufficient Demand**
- Prerequisite(s): ECON 2010
- Designed as elective credit for Business Management and other bachelor of science degree majors. Develops knowledge, skills, and attitudes required for those employed in and analyzing the public sector. Describes the three levels within the public structure including respective purposes and functions, revenue generation alternatives, budgeting, deficit financing, public choice, income redistribution, public goods, and externalities.

**ECON 4320**
Mathematical Economics
3:3:0 **On Sufficient Demand**
- Prerequisite(s): ECON 3340
- Discusses advanced concepts in economic modeling, the application of mathematical models in economic analysis, and advanced research methods in economics. Covers advanced mathematical applications in economics and finance for students interested in advanced econometric analysis and model building.

**ECON 4340**
Econometrics Applications
3:3:0 **On Sufficient Demand**
- Prerequisite(s): ECON 4320
- Provides an opportunity for economics students with mathematical and statistical skills to apply 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**
U.S. Economic Development and History
3:3:0 **On Sufficient Demand**
- Prerequisite(s): ECON 3020
- Provides an analysis of the economic development of the United States. Describes the factors that led to the development of colonies in the Americas and the causes of the Revolution and formation of a government. Describes the economic causes for western expansion, transportation development, and the rise of American capitalism. Reviews the shift from agrarian to industrial development, the economic development of big business and big government, the impact of depression, and the economics of world war and peace.

**ECON 4960**
Senior Seminar Current Economic Issues
3:3:0 **On Sufficient Demand**
- Prerequisite(s): Department Chair Approval
- Provides exposure to emerging topics of current interest in economics. Topics vary each semester.

**ECT—Electronic and Computer Technology**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Prerequisites</th>
<th>Credits</th>
<th>Offered</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECT 1000</td>
<td>Survey of Electronics</td>
<td>2:2:0</td>
<td>F, Sp</td>
<td>On Sufficient Demand</td>
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<tr>
<td>ECT 1010</td>
<td>Basic Electronics--DC/AC</td>
<td>4:4:0</td>
<td>F</td>
<td>Corequisite(s): ECT 101L; ECT 1050 or equivalent recommended</td>
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<tr>
<td>ECT 1020</td>
<td>Basic Electronic Math</td>
<td>2:2:0</td>
<td>On Sufficient Demand</td>
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<tr>
<td>ECT 1030</td>
<td>Electronics Safety</td>
<td>1:1:0</td>
<td>On Sufficient Demand</td>
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<tr>
<td>ECT 1050</td>
<td>Mathematics for Electronics</td>
<td>5:5:0</td>
<td>F</td>
<td>Prerequisite(s): High School Algebra II, or MAT 0990 or MAT 0950</td>
</tr>
<tr>
<td>ECT 1060</td>
<td>Electrical Science I</td>
<td>2:2:0</td>
<td>Su, F, Sp</td>
<td>Foundation course in Electronic and Computer Technology. 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.</td>
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<tr>
<td>ECT 1060L</td>
<td>Electrical Science I Laboratory</td>
<td>0.5:0:1.5</td>
<td>Su, F, Sp</td>
<td>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.</td>
</tr>
<tr>
<td>ECT 1070</td>
<td>Electrical Science II</td>
<td>2:2:0</td>
<td>Su, F, Sp</td>
<td>Prerequisite(s): ECT 1060 or equivalent 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.</td>
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<tr>
<td>ECT 1070L</td>
<td>Electrical Science II Laboratory</td>
<td>0.5:0:1.5</td>
<td>Su, F, Sp</td>
<td>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.</td>
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<tr>
<td>ECT 1100</td>
<td>Electronics Fundamentals</td>
<td>4:3:3</td>
<td>On Sufficient Demand</td>
<td>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, transformers, 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.</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
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<td>Semesters</td>
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<td>ECT 1110</td>
<td>Active Devices and Circuits</td>
<td>5:5</td>
<td>Sp</td>
<td>• Prerequisite(s): ECT 1010 and ECT 1050 or equivalent</td>
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<td>• Corequisite(s): ECT 1120 or equivalent</td>
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<td>For students with DC/AC background. Covers semiconductor theory</td>
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<td>beginning with the pn junction diode. Studies the operation of</td>
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<td>semiconductors and the design and analysis of basic semiconductor</td>
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<td></td>
<td>circuits. Includes diode characteristics and circuits,</td>
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<td></td>
<td>physics of semiconductors, bi-polar and field effect transistors</td>
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<td></td>
<td>basic transistor circuits and amplifiers, thyristors (SCRs),</td>
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<td>AC analysis and frequency effects in transistors and their</td>
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<td></td>
<td>circuits. Includes lecture, demonstration, and computer</td>
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<td></td>
<td>simulation.</td>
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<td>ECT 1120</td>
<td>Active Devices and Circuits Laboratory</td>
<td>2:0:6</td>
<td>Sp</td>
<td>• Prerequisite(s): ECT 101L</td>
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<td>• Corequisite(s): ECT 1110</td>
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<td></td>
<td>Provides laboratory experience for ECT 1110 students. Studies</td>
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<td></td>
<td>the design, analysis and building of circuits using semiconductor</td>
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<td></td>
<td>devices. Emphasizes applying theory to practical situations</td>
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<td></td>
<td>in design and construction of basic diode circuits,</td>
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<td></td>
<td>transistor biasing and amplifier circuits, and other</td>
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<td></td>
<td>related circuits. Includes hands-on experience with</td>
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<td></td>
<td>common test equipment, demonstration, and observation.</td>
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<td>ECT 1150</td>
<td>Digital Devices and Circuits</td>
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<td></td>
<td>Presents the concepts of basic logic design. Studies</td>
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<td></td>
<td>analysis, troubleshooting, repairing, and designing of</td>
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<td></td>
<td>sequential digital circuits. Includes number systems, codes,</td>
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<td></td>
<td>Boolean algebra, truth tables, Karnaugh maps, basic logic</td>
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<td></td>
<td>components (gates, flip-flops, counters, registers, timers,</td>
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<td></td>
<td>etc.), and state machine design. Includes lecture, demonstration,</td>
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<td></td>
<td>and computer simulation.</td>
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<tr>
<td>ECT 1160</td>
<td>Digital Devices and Circuits Laboratory</td>
<td>2:0:6</td>
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<td></td>
<td>• Corequisite(s): ECT 1150</td>
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<td></td>
<td>Provides laboratory experience for ECT 1150 students. Studies</td>
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<td></td>
<td>the design, analysis, and building of digital circuits.</td>
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<td></td>
<td>Emphasizes applying theory to practical situations in design,</td>
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<td></td>
<td>construction, and troubleshooting of combinational and</td>
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<td></td>
<td>sequential digital circuits. Includes hands-on experience with</td>
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<td>common test equipment, demonstration, and observation.</td>
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<tr>
<td>ECT 1170</td>
<td>Software Tools for Electronics</td>
<td>2:1:3</td>
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<td></td>
<td>Introduces the computer as a problem solving tool for electronic</td>
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<td></td>
<td>problems. Uses basic computer hardware, DOS, word processors,</td>
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<td>spreadsheets, circuit analysis, and circuit drawing software.</td>
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<td>Emphasizes hands-on computer experience. Studies uses of the</td>
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<td>computer to write lab reports, draw schematics, solve</td>
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<td>difficult problems, and graph results.</td>
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<tr>
<td>ECT 1180</td>
<td>Advanced Software Tools for Electronics</td>
<td>3:0</td>
<td>Sp</td>
<td>• Prerequisite(s): ECT 1010 or equivalent</td>
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<td>Course focuses on the development of electronic virtual</td>
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<td>instrumentation. Using LabVIEW students learn to use</td>
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<td></td>
<td>graphical programming language which uses icons instead of</td>
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<td>lines of text to create applications specific to their</td>
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<td></td>
<td>analytical needs. The focus is on data flow programming,</td>
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<td>where data determine execution. Application will be developed</td>
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<td>which will communicate with remote, data generating sites,</td>
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<td>via the web.</td>
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<td>ECT 1210</td>
<td>Analog Circuits Laboratory</td>
<td>3:0</td>
<td>Sp</td>
<td>• Prerequisite(s): ECT 1110, ECT 1120</td>
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<td></td>
<td>Covers designing and analyzing circuits using discrete bi-polar,</td>
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<td>FET and other devices along with operational amplifiers and</td>
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<td>other linear integrated circuits in meaningful applications.</td>
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<td></td>
<td>Includes lecture, demonstration, and computer simulation.</td>
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<td>ECT 1220</td>
<td>Analog Circuits Laboratory</td>
<td>3:0:9</td>
<td>On Sufficient Demand</td>
<td>• Prerequisite(s): ECT 1110, ECT 1120</td>
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<td></td>
<td>Designed to provide the laboratory experience to complement</td>
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<td>ECT 1210. Enrollment should be concurrent. Studies designing,</td>
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<td>building, and performing measurements with a variety of</td>
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<td>electronic application circuits. Covers the building and testing</td>
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<td>of circuits utilizing semiconductor devices and linear</td>
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<td>integrated circuits. Emphasizes getting agreement between</td>
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<td></td>
<td>analytical and experimental results as the theory learned in</td>
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<td>ECT 1210 is applied in the lab. Includes hands-on experience</td>
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<td>with common test equipment, demonstration, and observation.</td>
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<td>ECT 1250</td>
<td>Introduction to Calculus for Electronics</td>
<td>5:5:0</td>
<td>Sp</td>
<td>• Prerequisite(s): ECT 1050 or MATH 1050 or higher</td>
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<td></td>
<td>Designed to prepare and introduce Electronic and Computer</td>
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<td>Technology majors to calculus and its use in electronics.</td>
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<td></td>
<td>Applies the math learned to electronic devices and circuits.</td>
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<td></td>
<td>Includes a review of algebra and trigonometry and basic</td>
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<td></td>
<td>differential calculus concepts.</td>
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<td>ECT 1270</td>
<td>Assembly Language for Electronics</td>
<td>2:1:3</td>
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<td>A core class for Electronic and Computer Technology majors.</td>
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<td>Includes practical applications of assembly language in real</td>
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<td>world situations. Studies programming in assembly language to</td>
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<td></td>
<td>the extent of exercising hardware and performing common</td>
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<td></td>
<td>routines. Covers debuggers, micro-processor architecture,</td>
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<td>assembly language procedures, memory segments, I/O, modular</td>
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<td>design, firmware, and OS routines. Emphasizes hands-on</td>
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<td>experiences with a computer system.</td>
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<td>ECT 1300</td>
<td>Interconnection Technology</td>
<td>3:2:3</td>
<td>On Sufficient Demand</td>
<td>• Prerequisite(s): ECT 1000 or ECT 1100 or ECT 1110</td>
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<td></td>
<td>Studies wiring, cabling, and connectors, transmission lines,</td>
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<td>hardware interconnect standards, fiber optics connections,</td>
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<td>sensors, and transducers, network connections, telephone and</td>
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<td>modem connections, Internet connections, etc. Includes lecture,</td>
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<td>lab, demonstration, video presentation, and computer</td>
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<td></td>
<td>simulation.</td>
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<td>ECT 1430</td>
<td>Customer Communications</td>
<td>1:1:0</td>
<td>On Sufficient Demand</td>
<td>For students studying Computer Systems Maintenance. Includes customer relations,</td>
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<td>business communications, telephone etiquette, and documentation. Covers cost of</td>
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<td>repairs and service. Includes how to explain to customers costs associated with</td>
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<td>their bills.</td>
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<td>ECT 1570</td>
<td>Programming Tools for Repair</td>
<td>3:1:2</td>
<td>On Sufficient Demand</td>
<td>• Corequisite(s): ECT 1270</td>
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<td>For the Computer Systems Maintenance Certificate. Presents</td>
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<td>fundamentals in batch file programming, HTML, and Java programming. Studies</td>
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<td>debugging and fault isolation techniques using software</td>
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<td>including assembly language. Covers system diagnostic software and virus protection utilities.</td>
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<td>ECT 1610</td>
<td>Foundations of Nanoscale Materials Chemistry</td>
<td>3:3:0</td>
<td>On Sufficient Demand</td>
<td>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.</td>
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<tr>
<td>ECT 1620</td>
<td>Introduction to Integrated Circuit Layout</td>
<td>3:0</td>
<td>On Sufficient Demand</td>
<td>• Corequisite(s): ECT 1610</td>
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<td></td>
<td>Introduces Integrated Circuit layout and design. Integrates</td>
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<td>electronic engineering design schematics with silicon</td>
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<td>semiconductor process constraints. Addresses design rules and</td>
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<td>constraints imposed by MOS manufacturing processes.</td>
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<td>ECT 1650</td>
<td>Network Maintenance</td>
<td>4:3:3</td>
<td>On Sufficient Demand</td>
<td>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 modem connections, and Internet connections.</td>
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</table>
ECT 1710
Computer Maintenance
3:2:3 F
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
- Prerequisite(s): ECT 1710
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, transformers, 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, 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 transmission systems, interfacing, digital test equipment, diagnostic testing, 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 communications 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 2480
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 technician 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
3:3:0 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
3:3:0 On Sufficient Demand
- Prerequisite(s): Instructor Approval
This course is designed for students who are interested in nanoscale manufacturing processes.

ECT 2690
Thin Film Processes
3:3:0 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
5:4:3 On Sufficient Demand
- Prerequisite(s): ECT 1710
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
1:0:3 On Sufficient Demand
A capstone laboratory course for MCT. Includes hands-on installation and troubleshooting experiences with computer and other multimedia equipment. Completors should be familiar with current equipment and techniques used to maintain multimedia equipment.

ECT 2740
Introduction to Microlithography
3:3:0 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 8:0:5 to 40
- Corequisite(s): ECT 285R
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
1:1:0
- 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. Completors should be better able to perform in their field of work or study.

ECT 299R
VICA
1:1:0 On Sufficient Demand
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
4:3:3 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
4:4:0 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—EARY CHILDHOOD EDUCATION

EDEC 1140
Child Nutrition
2:2:0 On Sufficient Demand
For Early Childhood students and others interested in child nutrition. Studies nutritional requirements for the healthy growth of children (prenatal through adolescence). Examines the formation of nutritional habits and behaviors. Includes menu preparation and rotation for group care settings, federal nutritional guidelines, and consumer practices. Stresses sanitation practices in preparation and storage of food. Includes lecture, preparation of monthly menus and nutrition files, and limited practical experiences preparing meals or snacks for children and staff in the Children’s Center.

EDEC 1640
Children’s Music and Movement
2:2:0 Sp
For Early Childhood majors and those interested in teaching music to children in early childhood education settings. Covers childhood music, past and present, strategies for teaching music and
Course Descriptions

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 F, Sp
- Prerequisite(s): PSY 1100
Introduces ECE majors to the implications of diversity and exceptionality in young children. Emphasizes positive impact of diversity in children's educational environment, birth to age eight. Introduces anti-bias strategies to address diversity. Emphasizes inclusive and adaptive strategies for supporting young children with exceptionalities. Ten hour field experience is required.

EDEC 2500 Child Development Birth to Eight Years
3:2:5:1.5 F, Sp
- Prerequisite(s): PSY 1100
For Early Childhood students. Emphasizes growth in all domains. Covers milestones of development, supportive parental and care giver behaviors, influence of out-of-home care, role of play, and creating a supportive environment. Includes 15 hours of structured observation, assessment, and interaction with young children.

EDEC 2600 Introduction to Early Childhood Education
2:1:5:1.5 F, Sp
For all Early Childhood students. Introduces early childhood program requirements and the field of early childhood education. Focuses on the historical and philosophical foundations of early childhood education emphasizing developmentally appropriate practices, constructivism, and integrated, child-centered curriculum. Introduces students to components that identify quality programs for children birth to 8 years of age.

EDEC 2610 Child Guidance
3:2:3 F, Sp
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
3:2:5:1.5 F, Sp
- Prerequisite(s): EDEC 2600 recommended
A core course for Early Childhood students and others interested in working with young children. Covers integrated developmentally appropriate activities, particularly Math, Science, Creative Arts, and Play. Emphasizes lesson plan development, routines and schedules, curriculum philosophies, presentation skills, and resource file development. Uses in-class demonstrations, group interaction, and hands-on participation. Includes curriculum planning to facilitate integration of state core curriculum standards in K-3.

EDEC 2640 Literacy and Literature for Early Childhood
3:3:0 F, Sp
For Early Childhood students. Introduces practical aspects of fostering literacy development in young children. Focuses on emerging and early literacy in the home, early care, and education settings (infancy through age eight), with an emphasis on ages four through six. Studies strategies for holistic integration of the various literacy processes. Addresses the role of children's literature, the relationship between early language development and literacy opportunities and methods for developing language and positive attitudes toward books.

EDEC 2700 Early Childhood Practicum
3:0:9 F, Sp
- Prerequisite(s): EDEC 2600 with a "B-" or better and EDEC 2620
- Corequisite(s): EDEC 2720
A core course for Early Childhood Education certificate and Associate Degree majors. Provides support teaching experiences in the Teacher Education Preschool. Includes planning and implementing learning plans, interactions with and guidance of children individually and in small groups, parent education opportunities, preparation of literacy bag, and application of technology.

EDEC 2720 Early Childhood Assessment
2:1:3 F, Sp
- Prerequisite(s): EDEC 2600, B- or better
- Corequisite(s): EDEC 2720

EDEC 3000 Educational Psychology
3:3:0 On Sufficient Demand
- Prerequisite(s): Admission to Professional Education Program or permission of instructor
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.

EDEC 3050 Foundations of American Education
2:2:0 On Sufficient Demand
- 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.

EDEC 3250 Instructional Media
2:2:0 On Sufficient Demand
- Prerequisite(s): Admission to Professional Education Program or permission of instructor
For Early Childhood students. Covers applications of desktop computers and other instructional technologies in classroom settings.

EDEC 3300 Multicultural Understanding
2:2:0 On Sufficient Demand
- Prerequisite(s): Admission to Professional Education Program or permission of instructor

EDEC 3350 Curriculum Design and Assessment
3:3:0 On Sufficient Demand
- Prerequisite(s): Admission to Professional Education Program or permission of instructor
Teaches conducting and utilizing ongoing assessment of young children for curricular purposes. Explores using a variety of assessment tools. Introduces the Utah pre-kindergarten readiness assessment and other state mandated assessments. Emphasizes authentic assessment in early childhood settings. Includes instruction on curriculum mapping as a tool for integration of state core curriculum, tools to ensure differentiation for specific populations, as well as ways to include parents as partners in the process of assessment and learning.

EDEC 3620 Curriculum Foundations for Preprimary
3:0:9 F, Sp
- Prerequisite(s): EDEC 2600, B- or better
- Corequisite(s): EDEC 3800

EDEC 3800 Assessment for Preprimary
1:9:5:1.5 F, Sp
- Prerequisite(s): EDEC 2600, B- or better
- Corequisite(s): EDEC 3620
Course Descriptions

EDEC 4110  Problem Solving Methods in ECE  3:3:0  On Sufficient Demand
  • Prerequisite(s): Admission to Professional Education Program or permission of instructor
  Presents developmentally appropriate methods for teaching math concepts to children and promoting inquiry, problem-solving, and critical thinking skills in children, pre-kindergarten through grade 3. Includes classroom instruction and field experiences with children.

EDEC 4120  Early Childhood Science Methods  3:3:0  On Sufficient Demand
  • Prerequisite(s): Acceptance to Professional Education Program or permission of instructor
  Presents developmentally appropriate methods for teaching science concepts to children in the context of their environment and experiences. Promotes inquiry, problem-solving, and critical thinking skills in children, pre-kindergarten through grade 3. Includes classroom instruction and field experience with children.

EDEC 4130  Creative Arts Methods in ECE  2:2:0  On Sufficient Demand
  • Prerequisite(s): Admission to Professional Education Program or permission of instructor
  Explores musical, art, dance, and drama experiences across the curriculum for children and promoting creative expression in children, pre-kindergarten through grade 3. Also includes strategies for promoting social skills development. Includes classroom instruction and field experiences with children.

EDEC 4140  Early Childhood Social Studies Methods  3:2:3  On Sufficient Demand
  • Prerequisite(s): Admission to Professional Education Program or permission of instructor
  Reviews theory and problem solving processes. Explores practical, appropriate responses, particularly behavior modification strategies with an emphasis on self-monitoring.

EDEC 4240  Classroom Management IV  1:1:0  On Sufficient Demand
  • Prerequisite(s): EDEC 4230
  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.

EDEC 4250  Classroom Management II  1:1:0  On Sufficient Demand
  • Prerequisite(s): EDEC 4200, Admission to Professional Education Program or permission of instructor
  Presents strategies for handling chronic misbehavior and students with behavioral or emotional disorders. Reviews theory and expert problem solving process. Explores practical, appropriate responses, particularly behavior modification strategies with an emphasis on self-monitoring.

EDEC 4410  Language Arts Methods  3:3:0  On Sufficient Demand
  • Prerequisite(s): Admission to Professional Education Program or permission of instructor
  Presents methods for teaching reading and language art concepts to children, grades Pre-K-3. Includes classroom instruction and field experiences with children.

EDEC 4420  Language Arts Methods  3:3:0  On Sufficient Demand
  • Prerequisite(s): Admission to Professional Education Program or permission of instructor
  Presents methods for teaching reading and language art concepts to children, grades Pre-K-3. Includes classroom instruction and field experiences with children.

EDEC 4430  Teaching English as a Second Language  3:3:0  On Sufficient Demand
  • Prerequisite(s): Admission to Professional Education Program or permission of instructor
  For Early Childhood students. Presents methods for promoting reading competence and fostering literacy in limited English-speaking children, grades pre-kindergarten through grade 3. Includes classroom instruction and field experiences with children.

EDEC 4620  Differentiation for Special Populations  3:3:0  On Sufficient Demand
  Includes theory and philosophy for teachers working with diverse populations. Covers appropriate practice for teachers working with diverse populations. Outlines strategies of instruction for diverse populations including content, processes, and assessment for instructional application.

EDEC 4700  Educational Leadership for Elementary Teachers  1:1:1  On Sufficient Demand
  • Prerequisite(s): Admission to Professional Education Program or permission of instructor.
  For Early Childhood 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.

EDEC 4840  Student Teaching Prekindergarten  4:0:12  On Sufficient Demand
  • Prerequisite(s): Admission to Professional Education Program or permission of instructor.
  For majors in Early Childhood Teacher Education. A culminating five-week teaching experience in a pre-kindergarten classroom. Includes application of knowledge, skills, and attitudes derived in previous course work and program experience. May be waived for students with previous supervised primary grades teaching experience. However, both EDEC 4860 and EDEC 4870 may not be waived.

EDEC 4870  Student Teaching Kindergarten  4:0:12  Sp
  • Prerequisite(s): Admission to Professional Education Program or permission of instructor.
  • Corequisite(s): EDEC 4950
  For majors in Early Childhood Teacher Education. A culminating five-week teaching experience in a kindergarten classroom. Includes application of knowledge, skills, and attitudes derived in previous course work and program experience. May be waived for students with previous supervised primary grades teaching experience. However, both EDEC 4860 and EDEC 4870 may not be waived.

EDEC 4950  Early Childhood Education and Administration Seminar  1:1:0  On Sufficient Demand
  • Prerequisite(s): Admission to Professional Education Program or permission of instructor.
  • Corequisite(s): EDEC 4950
  For majors in Early Childhood dual certification program. Guides students through steps of program and facility design, licensing, budgeting, and procurement of materials and equipment. Integrates local, state and federal requirements, professional and ethical criteria, and business management principles. Upon successful completion students should be prepared to direct an early childhood program.

EDEC 4980  Early Childhood Education Capstone Seminar  2:2:0  Sp
  • Prerequisite(s): Admission to Professional Education Program. Successful completion of all professional education courses.
  • Corequisite(s): (EDEL 4880 or EDEL 4890) or...
Course Descriptions

(EDEC 4860 OR EDEC 4870) Integrate 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 by school personnel and covers application and interview procedures for teaching vacancies.

## EDEL—Elementary Education

### EDEL 1010
**Introduction to Education**
2:1:5:1.5 F, Sp
For students interested in careers in education. Facilitates matriculation into professional education programs. Examines the relationships of teaching, learning, motivating, and instructing in classroom settings. Includes observation in public schools to help students understand these relationships and appreciate the role of professional educators in today's society. Requires substantial commitment of time to off-campus field experiences.

### EDEL 2200
**Computer Technology in Education**
2:2:0 Su, F, Sp
For Elementary Education students and others interested in evaluation, selection, and use of technology for children. Covers limitations of computer applications for children. Provides criteria for selecting software appropriate for children's use and strategies for teaching computer skills to children. Includes hands-on experience with computers.

### EDEL 2330
**Children's Literature**
3:3:0 Su, F, Sp
- Prerequisite(s): EDEL 1010 or EDEC 2600 or permission of department chair.
For Elementary Education students and others interested in children's literature. Evaluates children's books in several genres. Examines selected books, picture books, easy reading and intermediate novels. Studies illustrators and their styles. Includes lecture, demonstration, guest lecturers, and audiovisuals. Completers should have a good knowledge of what is current and of value in literature for children, infancy through adolescence.

### EDEL 3000
**Educational Psychology**
3:3:0 F, Sp
- Prerequisite(s): Admission to Professional Education Program or permission of department chair.
Stresses research-based teaching/learning principles used in a classroom setting to enhance learning. Includes study of parent education, involvement, and support strategies, and collaboration with community agencies and professionals. Emphasizes the application of theory to practice with emphasis on teacher-student instructional interaction and teacher/parent/community agency interactions.

### EDEL 3050
**Foundations of American Education**
2:2:0 F, Sp
- Prerequisite(s): Admission to Professional Education Program or permission of department chair.
Provides a broad and comprehensive overview of American education. Facilitates the understanding of current educational practices in America as a result of the social, historical, economic, and political forces that have had influence on the education system. Provides opportunities for students to evaluate their own belief system concerning education.

### EDEL 3250
**Instructional Media**
2:2:0 Sp, F
- 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 3300
**Foundations of Bilingual/ESL Classroom**
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 3520
**Science for Elementary Education**
2:2:0 Not 08-09
- Prerequisite(s): Admission to Professional Education Program or permission of department chair.
For Elementary Education students. Addresses fundamental concepts from the sciences commonly found in an elementary science curriculum. acquaints students with science concepts they will be expected to teach in the public schools according to the core curriculum of the state of Utah. Includes hands-on laboratory experiences and field-based experiences with children.

### EDEL 3530
**Social Studies for Elementary Teachers**
2:2:0 Not 08-09
- Prerequisite(s): Admission to Professional Education Program or permission of department chair.
For Elementary Education students. Addresses fundamental concepts from the social sciences commonly found in an elementary social studies curriculum. acquaints students with the social science concepts they will be expected to teach in the public schools according to the core curriculum of the State of Utah.

### EDEL 4200
**Classroom Management I**
1:1:0 F, Sp
- Prerequisite(s): Admission to Professional Education Program or permission of department chair.
Presents philosophy, trends and necessities of a well-managed classroom. Discusses the role of management and quality instruction.

### EDEL 4210
**Classroom Management II**
1:1:0 F, Sp
- Prerequisite(s): EDEL 4200
- 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 Su, F, Sp
- Prerequisite(s): EDEL 4210
- 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 4240
**Classroom Management IV**
1:1:0 F, Sp
- Prerequisite(s): EDEL 4230
- Corequisite(s): Admission to Professional Education Program or permission of department chair.
Presents strategies for handling chronic misbehavior and students with behavioral or emotional disorders. Reviews theory and expert problem solving process. Explores practical, appropriate responses, particularly behavior modification strategies with an emphasis on self-monitoring.

### EDEL 4250
**Classroom Management II**
1:1:0 Not 08-09
- Prerequisite(s): EDEL 4200, Admission to Professional Education Program or permission of department chair.
Presents strategies for handling chronic misbehavior and students with behavioral or emotional disorders. Reviews theory and expert problem solving process. Explores practical, appropriate responses, particularly behavior modification strategies with an emphasis on self-monitoring.

### EDEL 4400
**Literacy Methods I**
3:3:0 F, Sp
- Prerequisite(s): Admission to Professional Education Program or permission of department chair.
Presents practical and theoretical foundations for fostering reading competence in children, kindergarten through grade 3. Includes classroom instruction and field experience with children.
### EDEL 4410
**Literacy Methods II**
3:3:0  Su, F, Sp
- Prerequisite(s): Admission to Professional Education Program or permission of department chair.
Surveys contemporary issues in literacy instruction in the elementary school years (K-6). Includes content area reading, reading assessment and remediation, and current issues being explored in professional literacy journals. Includes classroom instruction and field experiences with children.

### EDEL 4420
**Language Arts Methods**
3:3:0  F, Sp
- Prerequisite(s): Admission to Professional Education Program or permission of department chair.
Prepares methods for teaching reading and language art concepts to children, grades K-6. Includes classroom instruction and field experiences with children.

### EDEL 4430
**Teaching English as a Second Language**
3:3:0  Su, F, Sp
- Prerequisite(s): Admission to Professional Education Program or permission of department chair.
For Elementary Education students. Presents methods for promoting reading competence and fostering literacy in limited English-speaking children, grades K-6. Includes classroom instruction and field experiences with children.

### EDEL 4510
**Elementary Math Methods**
3:3:0  Su, F, Sp
- Prerequisite(s): Admission to Professional Education Program or permission of department chair.
For Elementary Education students. Presents methods for teaching math concepts to children, grades K-6. Includes classroom instruction and field experiences with children.

### EDEL 4520
**Elementary Science Methods**
3:3:0  F, Sp
- Prerequisite(s): Admission to Professional Education Program or permission of department chair.
For Elementary Education students. Presents methods for teaching science concepts to children, grades K-6. Includes classroom instruction and field experiences with children.

### EDEL 4530
**Elementary Social Studies Methods**
3:3:0  F, Sp
- Prerequisite(s): Admission to Professional Education Program or permission of department chair.
For Elementary Education students. Presents methods of teaching social studies concepts to children, grades K-6. Includes classroom instruction and field experience teaching children.

### EDEL 4540
**Elementary Creative Arts Methods**
2:2:0  F, Sp
- Prerequisite(s): Admission to Professional Education Program or permission of department chair.
For Elementary Education students. Presents methods for integrating music, art, dance, and drama experiences across the curriculum in grades K-6. Includes classroom instruction and field experiences with children.

### EDEL 4600
**Differentiation for Special Populations I**
1:1:0  Not 08-09
- Prerequisite(s): Admission to Professional Education Program or permission of department chair.
For Elementary Education students. Includes theory and philosophy for teachers working with diverse populations. Addresses issues associated with diversity.

### EDEL 4610
**Differentiation for Special Populations II**
1:1:0  Not 08-09
- Prerequisite(s): EDEL 4600, Admission to Professional Education Program or permission of department chair.
For Elementary Education students. 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 4620
**Differentiation for Special Populations III**
3:3:0  Su, F, Sp
- Prerequisite(s): Admission to Professional Education Program or permission of department chair.

### EDEL 4660
**Differentiation for Special Populations IV**
3:3:0  Su, F, Sp
- Prerequisite(s): Admission to Professional Education Program or permission of department chair.
For Elementary Education students. 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 by school personnel and covers application and interview procedures for teaching vacancies.

### EDCS 2540
**Development of the Adolescent Student**
2:2:0  Su, F, Sp
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.

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### Course Descriptions

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### EDCS 2540
**Development of the Adolescent Student**
2:2:0  Su, F, Sp
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.

### EDCS 3000
**Educational Psychology**
3:3:0  Su, F, Sp
- 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.
Course Descriptions

EDSC 3050 Foundations of American Education 2:2:0 Su, F, Sp
- 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 Su, F, Sp
- 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 1:1:0 Su, 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 1:1:0 Su, 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 Su, F, Sp
- Prerequisite(s): Admission to the Professional Education Program or permission of instructor.
For Secondary Education Students. Prepares pre-service 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 Su, F, Sp
- Prerequisite(s): Admission to Professional Education Program or permission of instructor.
For Secondary Education students. Prepares pre-service secondary students to understand and facilitate achievement in the content areas for ethnically and language diverse students at the middle school and secondary school level.

Covers foundations of multicultural education and instructional methodology for adaptation for ESL and ethnically diverse students.

EDSC 4500 Secondary Teaching Methods 3:3:0 Su, 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 Su, F, Sp
- 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 4650 Student Teaching—Secondary 4 to 8:0:12 to 24 Su, 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 4:0:5 to 12 On Sufficient Demand Su, F, Sp
- 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.

EDSC 4980 Secondary Education Capstone Seminar 2:2:0 F, Sp
Covers application and interview process, resume writing, digital placement files, and legal aspects of being an educator.

EDSC 5400 Exceptional Students 1 2:1:5:1 Su, F, Sp
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, F, Sp
- Prerequisite(s): Admission to Graduate Status Admissions 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 Admissions to the School of Education Masters Degree Program or permission of the Dean.
Introduces elementary statistics in educational settings and includes descriptive statistics, sampling, central tendency, and inferential methods. Emphasizes reading, understanding and evaluating statistics in research reports.

EDUC 6200 Masters Project 3:3:0 F
- Prerequisite(s): Admission to Graduate Status Admissions to the School of Education Masters Degree Program or permission of the Dean.
Provides working knowledge of action research methods in the public schools. Sets the standards for the professional M.Ed. action research-based project. Utilizes APA guidelines. Establishes techniques and strategies for successful project completion.

EDUC 6300 Curriculum Design 3:3:0 Su, F, Sp
- Prerequisite(s): Acceptance to Graduate Status Admissions 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
- 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 F
- 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 Su
- Prerequisite(s): Admission to Graduate Status Admission to the School of Education Masters Degree Program Or permission of the Dean
Focuses on content from Models I course. Provides a more in-depth understanding of instructional design and delivery. Focuses on planning and implementing instruction using several selected instructional models.

EDUC 6340 English as a Second Language Methods 3:3:0 Su
- Prerequisite(s): Admission to Graduate Status Admission to the School of Education Masters Degree Program Or permission of the Dean or the instructor
Prepares teachers to teach English as a second language in U.S. public schools. Includes both theoretical and applied aspects of second language learning and teaching. Provides general and special educators and second language specialists techniques, activities, strategies and resources to plan instruction for English language learners (ELLs). Emphasizes oral language development, literacy and content-area instruction for teaching K-12 students.

EDUC 6350 Theories of Second Language Acquisition 3:3:0 F
- Prerequisite(s): Admission to Graduate Status Admission to the School of Education Masters Degree Program Or permission of the Dean or the instructor
Describes the variables that interact in the second language learning process, including linguistic, cognitive, social, cultural, and political factors. Examines learning a second language as both an individual and social experience. Examines the linguistic, cognitive, psychological, and emotional elements of learning a second language. Identifies the interactions between the individual and the contexts in which s/he interacts and then attempts to understand how they work together to foster or inhibit successful second language learning and acquisition.

EDUC 6360 Multicultural Education 3:3:0 Su
- Prerequisite(s): Admission to Graduate Status Admission to the School of Education Masters Degree Program Or permission of the Dean
Identifies the connections between language, culture, and identity. Examines multicultural education through a focus on the historical, sociological, and philosophical foundations of education. Emphasizes the role of ethnicity in the development of the United States and its education system. Outlines multicultural/multilingual curricula with a special focus on culturally linguistically-responsive instruction and assessment techniques.

EDUC 6370 Assessment in English as a Second Language Learners 3:2:3 Sp
- Prerequisite(s): Admission to Graduate Status Admission to the School of Education Masters Degree Program Or permission of the Dean or the instructor
Examines theory, methods, and practice in the testing of bilingual students at both the classroom level and the large-scale level in the context of school accountability. Focuses on assessment of language proficiency in English language learners (ELL) and the assessment of academic achievement of bilingual students in specific content areas. Develops and reviews tasks (test items), response formats, scoring systems, and test administration procedures as critical to attaining validity and fairness. Examines testing major current testing policies for linguistic minority students. Practicum required.

EDUC 6380 Literacy and Linguistics in English as a Second Language 3:3:0 Su
- Prerequisite(s): Admission to Graduate Status Admission to the School of Education Masters Degree Program Or permission of the Dean or the instructor
Examines the 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 best 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
Presents contemporary theories of learning and teaching from personal and public perspectives and how those theories converge with professional practice in classrooms and schools. Provides a study of the philosophical foundations of curriculum and instruction in American schools, the social and cultural contexts that influence education, and new concepts in education curriculum materials, and methods of instruction.

EDUC 6910 Project I 1:0:3 F
- 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 and completion of EDUC 6920
Provides support regarding completion of a classroom-based applied research project and
Course Descriptions

**EENG—ELECTRICAL ENGINEERING**

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.

**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 Kirchhoff'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 Kirchhoff'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
  - 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 and 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
  Studies 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 F
- Prerequisite(s): MATH 1220
  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 and EENG 2270
  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
  Presents the design of hardware and software required for embedded, real-time systems. Covers types of real-time systems and the hardware and software required for preemptive and non-preemptive multi-tasking, tasking scheduling algorithms, task synchronization and design of a kernel for real-time systems.

**EENG 4740**
Queuing Theory 3:3:0 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.

**EENG 4760**
Electronics Systems Lab 1:0:2 Sp
- Prerequisite(s): EENG 2770
  - Corequisite(s): EENG 4765
  Designed to accompany EENG 4760. Electronic analog circuit design, simulation, construction, debugging and measurement of circuit performance quantities using advanced instrumentation techniques.

**EENG 4765**
Electronics Systems 3:3:0
- Prerequisite(s): EENG 2770
  - Corequisite(s): EENG 4760
  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.

**EGDT—ENGINEERING GRAPHICS AND DESIGN TECHNOLOGY**

**EGDT 1000**
Basic Drafting 2:2:0 Su, F, Sp
- Prerequisite(s): MATH 1040
  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 drafting, 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.
Course Descriptions

EGDT 1010  
Electrical-Electronic Drafting  
3:3:0  F, Sp  
- 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 2010.

EGDT 1020  
3D Architectural Modeling  
3:3:0  
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.

EGDT 1040  
Computer Aided Drafting--AutoCAD  
3:3:0  Su, F, Sp  
Teaches the drafting AutoCAD software system. Includes enough exposure to Windows to create files, read directories, create directories and operate the AutoCAD software as it applies to Windows and Graphics. Uses CAD system to produce, plot, print, check, and correct drawings.

EGDT 1060  
MicroStation  
2:2:0  Sp  
- Pre-or Corequisite(s): EGDT 1000  
Teaches the drafting MicroStation software system in Windows. Drawings are produced, plotted, printed, checked, and corrected on the CAD system.

EGDT 1070  
3 Dimensional Computer Modeling  
3:3:0  F, Sp  
- 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, loft/s, 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.

EGDT 1080  
AutoLisp  
2:2:0  F, Sp  
- 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.

EGDT 1090  
Introduction to Architecture Drafting  
3:3:0  F, Sp  
- Prerequisite(s): EGDT 1040  
For non-Engineering Graphics and Design Technology majors and others who wish to explore the field of residential architectural drafting. Covers basic procedures used in the development of residential plans. Includes architectural drafting standards, symbols, and techniques. Uses lectures and text reading assignments related to the drawings and worksheets. Introduces students to the architectural profession and related fields.

EGDT 1100  
Architectural Drafting  
3:3:0  Su, F, Sp  
- Prerequisite(s): EGDT 1040 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.

EGDT 1200  
Mechanical Drafting  
3:3:0  F, Sp  
- Prerequisite(s): EGDT 1040 with a grade of C- or higher  

EGDT 1300  
Structural Drafting  
3:3:0  F, Sp  
- Prerequisite(s): EGDT 1040 with a grade of C- or higher  
Covers fundamentals of structural design. Studies structural steel detailing of beams, columns, braces, templates, marking and numbering systems, bill of materials, welding symbols, and erection drawings to AISC standards.

EGDT 1400  
Surveying  
4:3:3  Su, F, Sp  
For people seeking a surveyor’s license, civil engineering majors, Engineering Graphics and Design Technology majors, Construction Management majors, and anyone else wishing to learn fundamentals of surveying. Covers history of surveying, mathematics, field notes, measurement and computations, basic surveying instruments and equipment, leveling procedures, bearing computations, topography, mathematical traverse closures, area computations, and basic property surveying. Completers should be able to work in the job-entry phase of the surveying field.

EGDT 1600  
Technical Math--Algebra  
3:3:0  F, Sp  
- Prerequisite(s): MAT 0800 or equivalent with “C-” grade or better or appropriate test scores  
Covers the basic principles of algebra, geometry, and trigonometry as they relate to problem solving on the job. Includes solving equations, percent, proportion, 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  Su, Sp  
- Prerequisite(s): MAT 0990  
Recommended  
A course in applied physics for those who plan to pursue careers as technicians or who want to keep pace with the advances in technology. Blends an understanding of basic principles with practice in practical applications. This course is made up of six units, each of which focuses on one of the important physics concepts such as force, work, rate, resistance, energy, and power. Each unit explains how that concept applies to mechanical, fluid, electrical, and thermal systems.

EGDT 2010  
Advanced Electrical--CAD  
2:2:0  On Sufficient Demand  
- Prerequisite(s): EGDT 1010 and EGDT 1040, with “C-” grade or higher  
For second year Drafting Technology majors. Concentrates on the completion of electrical-electronic diagrams using CAD procedures. Those layout procedures studied will include logic and schematic diagrams. Printed wiring board and AC motor control wiring diagram layout from reference schematics will also be covered. Includes a basic introduction to AC electrical theory including inductance and capacitance and their relationship to AC motors and motor controls. Completers should have entry-level skills for an electrical-electronic drafting position.

EGDT 2020  
Descriptive Geometry  
3:3:0  F, Sp  
- Prerequisite(s): EGDT 1040 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.
Course Descriptions

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 floor plan. Includes completing a door and window schedule, a furnishing plan, a reflected ceiling plan, building sections, a roof plan, and exterior elevations. Covers the sketching of common details along with discussions on the various methods and materials used in commercial construction. 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
Employs SolidWorks to produce 3D models. Include sketching, parametric modeling, 3D assemblies, and producing 2D working drawings. Included are sheet metal, structural parts, mass property, and stress analysis.

EGDT 2300
Advanced Structural--CAD
3:3:0  Sp
- Prerequisite(s): EGDT 1300 and (MATH 1060 or EGDT 1610) both with a grade of C- or higher
A second year class for students who have completed first year structural drafting and want to enhance their knowledge of structural steel detailing. Includes the proper views and dimensioning practices for columns, stairways, handrails, cross-bracing, anchor bolt layout, erection drawing, and field bolt lists. Completers should be ready for entry-level employment as a structural steel detailer for small detailing companies or large construction companies.

EGDT 2310
Structural Steel Modeling
3:3:0  Sp
- Prerequisite(s): EGDT 1040 and EGDT 1300 both with a grade of C- or higher
Teaches Tekla Structures modeling software. Includes modeling of structural steel buildings, hoppers, stairs, piping, and miscellaneous steel projects. 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
- Prerequisite(s): EGDT 1040, EGDT 1400 and MATH 1060 or EGDT 1600 or equivalent
For students interested in pursuing a career in the field of civil engineering. Introduces design workflow of typical civil engineering firms. Employs in-depth functions of the most common applications software for subdivision design. Includes Digital Terrain Models (DTM's), street alignments, plan and profiles, grading, and utilities/piping design and drafting. Focuses on the development of a full set of civil engineering improvement plans for a residential subdivision.

EGDT 2600
Statics
3:3:0  F, Sp
- Prerequisite(s): MATH 1060 or EGDT 1610 both with a grade of C- or higher
For students preparing for the second year design classes. Covers the basic principles of statics, coplanar force systems, coplanar/concurrent force systems, and noncoplanar-concurrent force systems. Prepares students for entry-level employment as a design drafter in structural, architectural, and mechanical drafting.

EGDT 2610
Strength of Materials
3:3:0  F, Sp
- Prerequisite(s): EGDT 2600 with a grade of C- or higher
Studies strength of materials dealing with direct stress in compression, tensile, and shear. Also covers engineering materials and their properties dealing with stress and deformation, centroids, moments of inertia, section modules, tension and the calculations of beams, girders and columns under various loading conditions. Includes calculations to determine the deflection in beams and girders under various load conditions.

EGDT 2710
Special Problems--Mechanical
2:2:0  On Sufficient Demand
- Prerequisite(s): EGDT 2200 with a grade of C- or higher
An advanced course in mechanical layout and design using solid modeling techniques. Students, with approval, may design and layout projects of their choice. Final details are fabricated in the machine shop.

EGDT 2720
Special Problems--Surveying
2:2:0  On Sufficient Demand
- Prerequisite(s): EGDT 2400 and (MATH 1060 or EGDT 1610) both with a grade of C- or higher
For people seeking a surveyor's license, civil engineering, drafting and construction management majors. Covers instrument maintenance and calibration, basic photogrammetry and surveying for photogrammetry, mine surveying, construction surveying, resection, and legal aspects of land surveying. Completers should have job skills for surveying and civil technology.

EGDT 2730
Special Problems--Civil Drafting
2:2:0  Sp
- Prerequisite(s): EGDT 1400 with a grade of C- or higher
For people seeking a surveyor's license or intended Civil Engineering and Engineering Graphics and Design majors desiring a civil drafting emphasis. Covers preparation of drawings associated with surveying and civil engineering and design. Projects include: property surveys and subdivision design, geotechnical investigations, wastewater treatment, storm drains, highway design, topographic mapping, earthen and concrete dams, and NICET certifications.

EGDT 2740
Special Problems--Architectural
2:2:0  On Sufficient Demand
- Prerequisite(s): EGDT 1100 with a grade of C- or higher
A special problems course in architectural drafting. Teaches how to layout and detail a floor plan using a 3D modeling package.

EGDT 2750
Special Problems--Architectural Rendering
2:2:0  On Sufficient Demand
For students who wish to develop additional architectural rendering skills to enhance their job performance. Covers theory of perspective, laying out a building perspective from blueprints, inking techniques to develop a finished rendering, and quick coloring methods for ink renderings.
EGDT 2760
Special Problems—Structural
2:2:0 On Sufficient Demand
• Prerequisite(s): EGDT 1300 with a grade of C- or higher
Provides opportunities for in-depth study in structural steel drafting. Teaches beam sizing and selection for design drawing. Requires a special class project with complete objectives and goals outlined and presented to the instructor for approval. Emphasizes project documentation. Computer graphics are an important part of this course.

EGDT 2780
Special Problems—Electrical
2:2:0 On Sufficient Demand
• Prerequisite(s): EGDT 1010 with a grade of C- or higher
For students who wish to advance beyond EGDT 2010 through the development of an outside project which incorporates advanced theory and drawing procedures. The instructor will review project outline to ensure that it meets course objectives and will monitor student progress, establishing progressive goals.

EGDT 281R
Cooperative Work Experience
1 to 8:0:3 to 40  Su, F, Sp
• Prerequisite(s): EGDT 1010, EGDT 1040, EGDT 1070, EGDT 1080, EGDT 1100, EGDT 1200, EGDT 1300, and EGDT 1400, all with a C- or higher.
For drafting students to receive actual on-the-job work experience. Work assignments are set up with businesses and industries who are involved in drafting and design, construction or manufacturing. Two credits may apply toward graduation. Students receive pay for their work, but the real benefit is the on-the-job experience.

EGDT 2850
Cooperative Correlated Instruction/Orientation
0.5:0:5.0  F
Designed to orient the student to opportunities offered by the school, department, community, and industry, and to assist cooperative work experience. Time is spent on the importance of working and communicating with others.

EGDT 2860
Cooperative Correlated Instruction/SkillsUSA
0.5:0:5.0  Sp
SkillsUSA is a first-year class for Engineering Graphics and Design Technology 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.

EGDT 2870
Portfolio and Career Preparation
1:1:0  F, Sp
Required for Engineering Graphics and Design Technology majors. Teaches necessary job acquisition skills. Instructs students in the job search process, including production of typical types of correspondence, job interview techniques, and creation of presentation-quality portfolios. Correspondence includes letters of application, resumes, follow-up letters, letters of acceptance and rejection, and references. Interview techniques include interview preparation, appearance, and question/answer techniques. Final project is portfolio of samples of work in all areas of Engineering Graphics and Design Technology learned for the degree.

ENGL 1090
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; DE
• Prerequisite(s): ENGL 0989 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 1060
Career Writing for Technology
3:3:0  F, Sp
• Prerequisite(s): ENGL 1010 with a grade of “C-” or better
Presents basic writing techniques. Includes letter writing, memos, resumes, process writing, description writing, library research skills, and writing policy documents. Satisfies the composition requirement for the Certificate, Diploma, and the AAS Degree.

ENGL 106A
Career Writing for Technology—A
2:2:0  SU, F
• Prerequisite(s): ENGL 1010 with a grade of “C-” or better
Presents basic writing techniques. Includes letter writing, memos, resumes, process writing, and description writing. Ten weeks in length. Satisfies the composition requirement for the Certificate, Diploma, and the AAS Degree.

ENGL 1010**
Intermediate Writing--Humanities/Social Sciences
3:3:0  Su, F, Sp; DE
• Prerequisite(s): ENGL 1010 with a grade of “C-” or better
Explores interfaces between the personal and the public and involves problems for exploration. Emphasizes the production of well-reasoned and carefully researched written arguments that embody the spirit of inquiry, explore and interrogate multiple perspectives, and negotiate meanings across a diverse array of positions. Three major research projects (with at least one mandatory, graded revision), annotated bibliography, oral presentations, portfolios, journals, in-class writing and collaboration.

ENGL 101H
Intermediate Writing--Humanities/Social Sciences
3:3:0  F, Sp
• Prerequisite(s): ENGL 1010 with a grade of “C-” or better
Explores interfaces between the personal and the public and involves problems for exploration. Emphasizes the production of well-reasoned and carefully researched written arguments that embody the spirit of inquiry, explore and interrogate multiple perspectives, and negotiate meanings across a diverse array of positions. Three major research projects (with at least one mandatory, graded revision), annotated bibliography, oral presentations, portfolios, journals, in-class writing and collaboration.

ENGL 1020**
Intermediate Writing--Science and Technology
3:3:0  Su, F, Sp; DE
• Prerequisite(s): ENGL 1010 with a grade of “C-” or better
Instructs students in exploring and practicing writing typical of academic discourses in science and technology. Emphasizes rhetorical awareness; the production of inquiry-driven, well reasoned, and carefully researched written arguments; and conventions appropriate to academic writing in social sciences, sciences, and technology. Includes one or more major research projects with annotated bibliography and may include collaboration, in-class
writing, oral presentations, journals, and portfolios. Does not teach technical writing; shares outcomes with ENGL 1010.

**ENGL 202H Intermediate Writing--Science and Technology** 3:3:0 F, Sp
- Prerequisite(s): ENGL 101H or ENGL 1010 (C- or better)

Instructs students in exploring and practicing writing typical of academic discourses in science and technology. Emphasizes rhetorical awareness; the production of inquiry-driven, well reasoned, and carefully researched written arguments; and conventions appropriate to academic writing in social sciences, sciences, and technology. Includes one or more major research projects with annotated bibliography and may include collaboration, in-class writing, oral presentations, journals, and portfolios. Does not teach technical writing; shares outcomes with ENGL 1010.

**ENGL 2030** HH Rhetoric of Persuasion 3:3:0 Not 08-09
- Prerequisite(s): ENGL 2010 or ENGL 2020 or instructor/advisor approval

For students from all disciplines interested in the power and control of written and oral language. Teaches principles of language use from ancient Greece to current trends, from politics to advertising. Studies critique, persuasion and its roles, the ethical responsibilities of persuasive language, and the role of language as a tool for success. Includes active class discussions, student-led activities, oral presentations, and final projects in fields of students' choice. Completers should have improved confidence in and control over written and oral language and all that language can accomplish.

**ENGL 2050 Editing** 3:3:0 F
- 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 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 F
- 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 Class and Gender in U.S. Cinema** 3:2:2 F, Sp
- Prerequisite(s): THEA 1023 or ENGL 2150

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.

**ENGL 2200 Introduction to Literature** 3:3:0 Su, F, Sp; DE
- 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 2220 Myths and Legends in Literature** 3:3:0 F, Sp
- 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 Not 08-09
- 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
- Prerequisite(s): ENGL 1010

Introduces students to the basic literary elements of writing short fiction, 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 225H Creative Process and Imaginative Writing** 3:3:0 F, Sp
- Prerequisite(s): ENGL 1010

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/AA and AAS degrees.

**ENGL 2300** HH Shakespeare 3:3:0 Su, F, Sp; DE
- 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.

**ENGL 2310** HH Technical Communication 3:3:0 F, Sp
- Prerequisite(s): ENGL 1010
- Corequisite(s): ENGL 1010

For Technical Communication minors and those interested in improving their professional and technical communication knowledge and abilities. Emphasizes clear and concise written, oral, and visual communication strategies. Includes creation of professional documents such as technical descriptions, proposals, correspondence, and other work-related communication in both print and electronic media.

**ENGL 2510 American Literature before 1865** 3:3:0 Su, F, Sp
- Prerequisite(s): ENGL 1010
- Corequisite(s): ENGL 1010

Surveys American essays, letters, biographies, fiction, and poetry up to 1865. Studies literature as a reaction to American and world events and to the general condition of the American people through discussion, lecture, videos, and writing.
ENGL 2520  American Literature after 1865  3:3:0  Su, F, Sp
- Prerequisite(s): ENGL 1010
- Corequisite(s): ENGL 1010
Surveys American essays, letters, biographies, fiction, drama, and poetry from 1865 to the present. Studies literature as a reaction to American and world events and to the general condition of the American people through discussion, lecture, videos, and writing.

ENGL 2600  Critical Introduction to Literature  3:3:0  Su, F, Sp
- Prerequisite(s): ENGL 2010 or ENGL 2020
Studies critical theoretical and ideological approaches to literature. Includes lectures, screenings, student presentations, assigned readings, explications and written reports, exams, and a final essay. Emphasis varies by semester to include poetry, drama, or fiction. Required for English Majors. Recommended to take early in major.

ENGL 2610  British Literature before 1800  3:3:0  Su, F, Sp
- Prerequisite(s): ENGL 1010
- Corequisite(s): ENGL 1010
Presents a survey of British literature with emphasis on the most important works of the best writers from 450-1800 A.D. Introduces Old English, Middle English, Renaissance, and Neo-Classical British literature. Uses discussion, lecture, films, videos, tests, and papers.

ENGL 2620  British Literature after 1800  3:3:0  Su, F, Sp
- Prerequisite(s): ENGL 1010
- Corequisite(s): ENGL 1010
Introduces British Romanticism, Victorianism, Modernism, and post-Modernism. Emphasizes important works of the best writers from approximately 1800 to the present. May include discussion, lecture, videos, films, tests, and papers.

ENGL 2730  Introduction to Gender Studies  3:3:0  Not 08-09
- Prerequisite(s): ENGL 2010 or ENGL 2020
- Corequisite(s): ENGL 2010
Analyzes gender from an interdisciplinary model. Explores such issues as the definition of masculinity and femininity, the function of gender roles and stereotypes, and what it means to have sexes bodies and minds. Analyzes questions of gender through the different frameworks of literature, anthropology, sociology, history, biology, psychology, and philosophy.

ENGL 276R  Themes in Literature  3:3:0  F, Sp
- Prerequisite(s): ENGL 1010
Analyzes specific themes/topics in literature (generic or other). Requires reading and study of representative works. Includes short papers, tests and presentations. Possible course themes are: horror, fantasy, nonfiction, detective fiction, and western American literature, among others. May be repeated for up to 6 credits toward graduation.

ENGL 281R  Internship  1 to 8:0:5 to 40  Su, F, Sp
- Prerequisite(s): Approval of Cooperative Coordinator
Designed for English majors. Provides experience in the student’s major. Students who receive credit for an internship must establish learning objectives with their Faculty Sponsor at the beginning of their internship and reflect on their learning through academic work (i.e. papers, journal, etc.). Students are required to submit an evaluation of their experience at the end of the semester. Credit is determined by the number of hours a student works during the semester. May be repeated for a maximum of 8 credits toward graduation.

ENGL 290R  English Scholarly Forum  1:1:0  F, Sp
For students interested in literature, language and literacy, or planning on an English major. A varying series of lectures, field trips, and service projects that connect students to the professional community. Increases awareness and appreciation of literature through reading, writing, and experiencing literary works. May be taken three times for credit.

ENGL 299R  Independent Study  0.5 to 3:0 to 3:0 to 12  Su, F, Sp
Provides independent study as directed in reading and individual projects at the discretion and approval of the Dean and/or Department Chair. Limited to three credits toward graduation with an AS/AA degree.

ENGL 3000  Professional Considerations for the English Major  1:1:0  F, Sp
- Prerequisite(s): ENGL 2010 or ENGL 2020
Discusses various career choices for English majors. Familiarizes students with curricular emphases and department faculty. Emphasizes internships and other activities available to help majors professionalize. Features a regular rotation of English faculty guest speakers. English majors must take the course as early as possible, no later than their junior year.

ENGL 3010  Rhetorical Theory  3:3:0  Sp
- Prerequisite(s): ENGL 2010 or ENGL 2020
Considers prominent theories of rhetoric and accompanying methods for the production of texts in various contexts, encouraging adopting, amending, and developing hybrid theories of rhetoric.

ENGL 3020  Modern English Grammars  3:3:0  F, Sp
- Prerequisite(s): ENGL 2010 or ENGL 2020
Explores language structures, discovering connections between grammar (linguistic structure) and language uses (discourse and/or rhetoric). Writing intensive. Includes the study of and practice in informed decision making in the process of developing language structures (grammatical choices) appropriate to a particular rhetorical aim.

ENGL 3030  Writing and Communicating Effectively in Academic Contexts  3:3:0  Not 08-09
- Prerequisite(s): ENGL 2010 or ENGL 2020
Engages rigorous critical reading, listening, thinking, writing, and speaking. Focuses 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.

ENGL 3040  History of the English Language  3:3:0  F
- Prerequisite(s): ENGL 2010 or ENGL 2020
Introduces historical origins of the English language and changes that produced our present speech in its many dialects, creoles and pidgins. Combines linguistic and rhetorical histories. For all English majors and others interested in the origins of our language and how it has grown and continues to change.

ENGL 3050  Advanced Editing and Design for Print Media  3:3:0  Sp
- Prerequisite(s): ENGL 2010 or ENGL 2020 or Instructor Approval; ENGL 2050 recommended
Refines student editing, design, and publishing skills. Provides students with the opportunity to take manuscripts from editing to press-ready. Teaches industry standards for state-of-the-art publishing tools using hands-on projects such as designing books and marketing literature/website identities. Topics include design, typography, and prepress issues as they relate to writing and editing documents. Recommended for students involved with student publications, including journals and campus newspaper.

ENGL 3060  Advanced Writing for English Majors  3:3:0  F, Sp
- Prerequisite(s): ENGL 2600
- Corequisite(s): ENGL 3000 Recommended
Required for upper-division English majors and as elective credit for others. 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  Non-Fiction Cinema History  3:2:3  F
- 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.
Course Descriptions

ENGL 314G (Cross-listed with: THEA 314G, COMM 314G)  
Global Cinema History  
3:2:3  
Prerequisite(s): ENGL 2150  
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  
3:2:3  
Prerequisite(s): ENGL 2150  
Emphasizes film theory as cultural analysis. Relates cultural phenomena to films that reflect elements of contemporary film theory focusing on spectatorship, stars, narration, authorship, genre, and film production. Includes lecture, film screenings, and critical discussions of assigned readings. Some films screened may be considered controversial and carry an “R” rating.

ENGL 3320  
Grant and Proposal Writing  
3:3:0  
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  
Prerequisite(s): ENGL 2010 or ENGL 2020; Recommended: ENGL 2500, 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  
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  
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  
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  
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  
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  
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  
Prerequisite(s): ENGL 2010 or ENGL 2020, and ENGL 2510 or ENGL 2520  
Emphasizes the literary movement of modernism from the early twentieth century to the 1960s. Authors covered may include but are not limited to Gertrude Stein, Ernest Hemingway, William Faulkner, and Langston Hughes.

ENGL 3540  
Contemporary American Literature  
3:3:0  
Prerequisite(s): ENGL 2010 or ENGL 2020, and ENGL 2510 or ENGL 2520  
For English majors and others with an interest in contemporary American literature and culture. Studies significant authors, themes, and topics in American literature from 1965 through the present.

ENGL 3450  
Intermediate Creative Nonfiction Writing  
3:3:0  
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  
Prerequisite(s): ENGL 2010 or ENGL 2020, and ENGL 2610 or ENGL 2620  
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  
Prerequisite(s): ENGL 2010 or ENGL 2020, and ENGL 2610 or ENGL 2620  
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  
Prerequisite(s): ENGL 2010 or ENGL 2020, and ENGL 2610 or ENGL 2620  
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  
Prerequisite(s): ENGL 2010 or ENGL 2020, and ENGL 2610 or ENGL 2620  
Emphasizes the literary movement of modernism from the early twentieth century to the 1960s. Authors covered may include but are not limited to Gertrude Stein, Ernest Hemingway, William Faulkner, and Langston Hughes.

ENGL 3540  
Contemporary American Literature  
3:3:0  
Prerequisite(s): ENGL 2010 or ENGL 2020, and ENGL 2610 or ENGL 2620  
For English majors and others with an interest in contemporary American literature and culture. Studies significant authors, themes, and topics in American literature from 1965 through the present.
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
3:3:0  Sp
- 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 Rossetti, Hardy, and Wilde. Examines historical and philosophical trends that shaped the era’s literature and were shaped by it. Involves lecture, discussion, small group work, audiovisual presentations, examinations, and writing.

**ENGL 3660**
Modern British Literature
3:3:0  Not 08-09
- Prerequisite(s): ENGL 2010 or ENGL 2020, and ENGL 2610 or ENGL 2620
Explores modern British literature (c. 1900-1945) in relation to intellectual and historical developments. Emphasizes the literature of empire and of the world wars, modernist experimental writing, and reactions against modernism. Involves lectures, discussion, audiovisual presentations, written assignments, and exams.

**ENGL 3670**
Contemporary British Literature
3:3:0  Sp
- Prerequisite(s): ENGL 2010 or ENGL 2020, and ENGL 2610 or ENGL 2620
Explores contemporary British literature (1945-present) in relation to intellectual and historical developments. Emphasizes postmodern and postcolonial writing alongside traditional forms that, together, characterize recent British literature. Involves lectures, discussion, audiovisual presentations, written assignments, and exams.

**ENGL 3710**
Literature by Women
3:3:0  Sp
- Prerequisite(s): ENGL 2010 or ENGL 2020
Provides a substantive framework of important critical issues regarding literature by or about women. Studies applications of feminist critical theory to fiction, poetry, personal essays, or drama written by women. Requires oral presentations or discussions by students, written reports, and exams.

**ENGL 373R**
Literature of Cultures and Places
3:3:0  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
3:3:0  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
3:3:0  Sp
- 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
3:3:0  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
3:3:0  F
- 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
3:3:0  F, Sp
- Prerequisite(s): ENGL 2600
Required for English majors. Studies various theoretical and ideological approaches to literature. Focuses on the premises behind these approaches, and explicates various cultural texts from particular critical perspectives. Includes lectures, screenings, student presentations, assigned readings, written reports, exams, and a research essay.

**ENGL 4010**
Studies in Language
3:3:0  Sp
- 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
3:3:0  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  Not 08-09
- 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**
Special Topics in Film Studies
3:2:3  Sp
- Prerequisite(s): 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 nine 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
Presents and explores content-related issues and practices teaching strategies in the secondary education language arts classroom. Uses discussion, group work, and participation in accordance with NCATE standards.

**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 2310, or ENGL 2330
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
4:3:2 Not 08-09
- 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 TBA
- 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, workshop 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
- Prerequisite(s): ENGL 3450
Provides experience in producing nonfiction prose. Focuses on the stylistic/aesthetic development of raw content.

ENGL 4570
Studies in the American Novel
3:3:0 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 Not 08-09
- 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 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/relevant cultural and historical aspects of his times. May use lectures, discussions, group work, oral presentations, papers, tests, and film. May be repeated for a maximum of 6 credits for graduation with different topics.

ENGL 4640
Milton
3:3:0 F
- 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 Sp
- Prerequisite(s): ENGL 2010 or ENGL 2020, and ENGL 2600
Focuses student reading, research, and discussion on specific areas of concentration within the field of gender studies. (Specific areas of focus will change as the instructor and his or her focus or expertise changes.) Analyzes how gender affects and is affected by culture, ideology, socio-economic factors, history, etc. Possible course focuses include: Gender and Popular Culture, Gender and the Canon, and Gender in Literary Theory, among others. May be repeated for up to 6 credits toward graduation.

ENGL 474R
Topics in Folklore
3:3:0 Sp
- 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 475G
Multi-ethnic Literature in America
3:3:0 F
- Prerequisite(s): ENGL 2010 or ENGL 2020
Surveys multi-ethnic literature reflecting the rich cultural diversity inherent in American experience. Includes but is not limited to works by Native American, Hispanic American, Asian American, African American authors.

ENGL 481R
Internship
1 to 3:0:3 to 9 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 485R
Topics in Literature
3:3:0 Su, 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.

ENGL 490R
Directed Readings
1 to 3:0:3 to 9 F, Sp
- Prerequisite(s): Department Chair and Instructor Approval
Reading and writing assignments designed in consultation with a faculty member to meet special
needs or interests not available through regular course work. May be repeated two times for a total of up to nine credits.

**ENGL 4950**
Senior Seminar
3:0  F, Sp
- Prerequisite(s): ENGL 3090 and Senior Status
Culminates exploration into the cultural impact and standing of English Studies. Further professionalizes students by assisting them with career or graduate school preparation. Includes revision of an existing paper as a scholarly writing sample and creation of a professional portfolio to display knowledge and abilities. Students reflect on career possibilities and develop their own professional network by meeting and visiting successfully employed English graduates.

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**ENGR—ENGINEERING SCIENCE**

**ENGR 1000**
Introduction to Engineering
3:0  F, Sp
- Prerequisite(s): MAT 1000 or MAT 1010
Introduces the various areas of engineering to pre-engineering majors and others interested in learning more about the contributions engineers make to our modern society. Includes a brief history of engineering and discussions about what engineers really do. Discusses professional ethics, responsibilities, and career opportunities. Emphasizes problem solving skills and the processes and procedures of engineering design. Includes lectures, projects, guest speakers, field trips, and in-class exercises.

**ENGR 2010**
Engineering Statics
3:0  F, Sp
- Prerequisite(s): MATH 1210, PHYS 2210
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 and MATH 1220
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
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
3:0  F
- Prerequisite(s): MATH 1210, CS 1400
Discusses computational and symbolic methods for the solution of complex engineering problems. Discusses computer representation of numbers and algorithm error analysis. Covers the solution of algebraic and differential equations. Includes the use of modern software tools.

**ENGR 295R**
Special Topics
1 to 3:1 to 3:0  On Sufficient Demand
- Prerequisite(s): Permission of Department Chair
Presents various engineering topics. Examines current technology, techniques, processes and equipment. Includes oral and written reports. May be repeated for a maximum of 3 credits toward graduation.

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**ENST—ENVIRONMENTAL STUDIES**

**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  F
- 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.

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**ENVT—ENVIRONMENTAL MANAGEMENT**

**ENVT 1200**
Environmental Worker Safety
3:0  F
Discusses safety laws, training requirements, and the use of personal protective equipment. Covers management of a safety program and development of a safety culture.

**ENVT 1210**
Introduction to Water Reclamation
3:0  F
Covers the basic processes used to treat wastewater including primary treatment, biological treatment, and chemical treatment processes. Offers excellent preparation for the state license exam.

**ENVT 1270**
Environmental Microbiology
3:0  F
- Prerequisite(s): MICR 2060 recommended
For water managers, public health workers, and environmental managers. Discusses the role microorganisms in water treatment, wastewater treatment, agriculture, environmental change, and others.

**ENVT 1300**
Environmental Lab and Sampling
3:3:0  Sp
Studies basic laboratory techniques used by labs working on environmental projects. Covers safety, pH, dissolved oxygen, BOD, turbidity, organics, and others. Includes opportunities for undergraduate research.

**ENVT 1360**
Introduction to Water Treatment
3:3:0
Introduces the equipment used to treat water. Discusses the prevention of disease through effective treatment.

**ENVT 1510**
Hazardous Materials Emergency Response
3:3:0  F
Meets the requirements for the OSHA 40 hour training. Includes personal protection, identifying hazardous materials, spill control, and incident management. Completers may obtain OSHA certification for handling hazardous materials.

**ENVT 2560**
Environmental Health
3:3:0  Sp
- Prerequisite(s): BIOL 1010 and CHEM 1110 recommended
Presents how environmental protection and proper sanitation can protect the public. Covers control of infectious and noninfectious diseases, safe water supplies, housing safety, radiation hazards, and air pollution.

**ENVT 2600**
Skills for Humanitarian Projects
3:3:0  F
For students interested in participating in humanitarian projects. Covers water supplies, adobe stoves, drip irrigation systems, photovoltaic lighting, and rules for safety in unfamiliar surroundings.
## Course Descriptions

### ENV 2710 Environmental Careers
1:1:0  
**Sp**  
For all students interested in environmental careers. Explores the career opportunities in environmental areas. Covers resumes, letters of inquiry, networking, and other methods of job seeking.

### ENV 2730 Introduction to Soils
3:3:0  
**Sp**  
Covers soil-water relations, soil classification, soil conservation, fertility, and soil chemistry. Discusses impacts such as agriculture and recreation upon soil quality.

### ENV 282R Environmental Internship
1 to 5:0:3 to 15  
**Su, F, Sp**  
- **Prerequisite(s):** Instructor permission  
  Allows students practical experience working at an environmentally related job. May be repeated for a maximum of five credits toward graduation.

### ENV 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.

### ENV 3010 Environmental Toxicology
3:3:0  
**F**  
- **Prerequisite(s):** BIOL 1010 and CHEM 1110 recommended  
  For environmental managers and safety managers. Discusses safe levels of exposure, safe industrial practices and regulations. Reviews standards for toxic substances. Increases awareness of toxins commonly found on job sites.

### ENV 3280 Environmental Law
3:3:0  
**F**  
- **Prerequisite(s):** ENGL 1010 and ENGL 2020 recommended  
  Covers the Clean Water Act, the Safe Drinking Water Act, and the Clean Air Act. Reviews the Toxic Substances Control Act, the Resource Conservation and Recovery Act, the Superfund law, DOT regulations, and OSHA regulations.

### ENV 3290 Environmental Permits and Reports
3:3:0  
**On Sufficient Demand**  
- **Prerequisite(s):** ENVT 1100 and ENVT 2010 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.

### ENV 3320 Hydraulics of Water
3:3:0  
**On Sufficient Demand**  
- **Prerequisite(s):** MAT 1010  
  Prepares students to analyze the flow of water. Includes the continuity equation, Hazen-Williams formula, and the Bernoulli Theorem. Completers will be better able to interact with engineers and operate water equipment in a professional manner.

### ENV 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.

### ENV 3530 Environmental Management Systems
3:3:0  
**On Sufficient Demand**  
- **Prerequisite(s):** ENGL 1010 and ENGL 2020 recommended  
  For those interested in the interaction between industry and the environment. Covers the systems and organization necessary to effectively manage environmental issues. Discusses the ISO 14000 standard and its effect upon management practices.

### ENV 3550 Site Investigation
3:3:0  
**On Sufficient Demand**  
- **Prerequisite(s):** CHEM 1110 (recommended)  
  Covers the investigation and preliminary cleanup of a contaminated site. Includes planning, training, site characterization, sampling, and site control. Completers should have a basic understanding of the process used to remediate an environmentally damaged site.

### ENV 3630 Introduction to Geographic Information Systems
4:3:2  
**Su, F, Sp**  
- **Prerequisite(s):** CHEM 1110 (recommended)  
  Introduces the operation of Geographic Information Systems (GIS). Focuses on GIS software and basic theory of geographic information science. Offers valuable preparation for careers in geography, planning, surveying, marketing, environmental technology, biology, engineering, and other related fields.

### ENV 3700 Current Topics in Environmental Management
3:3:0  
For upper-division students with an interest in environmental policy. Discusses the process by which policies are made and the factors that influence policy formation. Includes political factors, economics, international issues, public awareness and others.

### ENV 3770 Natural Resources Management
3:3:0  
**On Sufficient Demand**  
- **Prerequisite(s):** BIOL 1010 recommended  
  For students in the Environmental Management program and others interested in natural resource issues. Introduces the management and conservation of natural resources. Discusses forestry, range management, wildlife management, and outdoor recreation.

### ENV 3790 Hydrology
3:3:0  
**On Sufficient Demand**  
- **Prerequisite(s):** MAT 1010 and DOM 210D recommended  

### ENV 3800 Energy Use on Earth
3:3:0  
- **Prerequisite(s):** PHYS 1010 or PHSC 1000 or CHEM 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.

### ENV 3850 Environmental Policy
3:3:0  
**Su, F, Sp**  
- **Prerequisite(s):** ENVT 1110 and ENVT 3280 recommended  
  For upper-division students with an interest in environmental policy. Discusses the process by which policies are made and the factors that influence policy formation. Includes political factors, economics, international issues, public awareness and others.

### ENV 482R Geologic/Environmental Internship
1 to 3:0:5 to 15  
- **Prerequisite(s):** GEO 1010 or ENVT 1110, and 12 credit hours of any GEO, ENVT, 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.

### ENV 495R Special Projects in Environmental Management
1 to 3:0:3 to 9  
- **Prerequisite(s):** Instructor Permission  
  Allows students to pursue undergraduate research projects. Includes instructor directed practical research. Students will prepare a report of their
ESEC—Emergency Services—Emergency Care

ESEC 1140 Emergency Medical Technician—Basic
9:7:6 Su, F, Sp
7:7:6 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
• Prerequisite(s): ESEC 1140 or equivalent) or EMT-Basic Certification for one-year; Departmental approval or completion of the following courses with a grade of C- or higher: ZOOL 1090 or higher, ENGH 0990 or higher, MAT 0990 or higher or ESFF 1350.
• Corequisite(s): ESEC 3120, ESEC 3130, and ESEC 3140
Introduces the Emergency Medical Services system and the role of the paramedic. Covers pre-hospital instruction for the care of the sick and injured including lectures in 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. Completers should be qualified to progress to the second semester program.

ESEC 3110 Paramedic I
5:5:0 F, Sp
• Prerequisite(s): EMT-Basic Certification for one-year; Departmental approval or completion of the following courses with a grade of C- or higher: ZOOL 1090 or higher, ENGH 0990 or higher, MAT 0990 or higher or ESFF 1350.
• Corequisite(s): ESEC 3120, ESEC 3130, and ESEC 3140
Introduces the Emergency Medical Services system and the role of the paramedic. Covers pre-hospital instruction for the care of the sick and injured including lectures in communication, medical and legal considerations and documentation. Includes anatomy and physiology of the human body as it applies to emergency care. Discusses proper sterile technique, scene evaluations, and patient assessments. Covers acid/base, fluid and electrolytes and fluid resuscitation, patient assessment and emergency treatment of the respiratory and abdominal systems.

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, cricothyotomy, defibrillation, transcutaneous 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. Completers should be qualified to progress to the second semester program.

ESEC 3140 Paramedic III
4:4:0 F, Sp
• Corequisite(s): ESEC 3110, ESEC 3120, and ESEC 3130
Discusses the Emergency Medical Services system and the role of the paramedic. Covers pre-hospital instruction for the care of the sick and injured including lectures in diabetes, alcoholism, overdose and ingestion, and communicable diseases. Includes pediatric (PALS), obstetrics, childbirth, care of the neonate, geriatrics, incident command system (ICS), interpersonal skills, and critical incident stress. Completers should be qualified to progress to the second semester program.

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. 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.

ESEC 4120 Paramedic Work Experience
6:0:18 Su, Sp
• Corequisite(s): ESEC 4110
Includes field internships with Paramedic rescue, hospital emergency department, pediatric emergency department, intensive care units, aeromedical service, labor and delivery, and operating room to provide field experience. Successful completer 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.

ESFF—Emergency Services—Firefighting

ESFF 1000 Introduction to Emergency Services
4:4:0 Su, F, Sp; DE
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 1010 Firefighting Fundamentals I
3:3:0 On Sufficient Demand
• Corequisite(s): ESFF 1210
Discusses the history and background of the fire service. Teaches terms, definitions, and concepts of NFPA 1001 Professional Qualifications for Firefighters Level I. Includes fire behavior, ventilation rescue, forcible entry, ladders, ropes and knots, self-contained breathing apparatus, firestreams, fire hose, salvage, overhaul, fire suppression techniques, communications, fire sprinklers, and fire inspection.

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
3:1:0 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 1310 Recruit Candidate Academy—Fundamentals
8:8:0 F, Sp
• Prerequisite(s): Departmental approval or completion of the following with a grade of “C-” or higher: ESFF 1000, ESEC 1140, ENGH 0990 or higher, and MAT 0990 or higher.
• Corequisite(s): ESFF 1320
For students with no previous fire fighting experience. Addresses the cognitive requirements...
Course Descriptions

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, ventilation, 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 1320**
Reruit Candidate Academy--Skills
3:2:3 F, Sp
- Corequisite(s): ESFF 1310
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 1330**
Reruit Candidate Academy--Operations
3:2:3 F, Sp
- Corequisite(s): ESFF 1310, ESFF 1320, and ESFF 1340
For students with no fire fighting experience. Addresses the operational and performance requirements of Firefighter I and II certification per NFPA 1001, Professional Qualifications for Firefighters. Includes flammable gas fire fighting, vehicle fire fighting, exterior fire fighting, interior fire attack, flat roof ventilation, pitched roof ventilation, hose lays, search and rescue operations, and self-rescue techniques.

**ESFF 1340**
Hazardous Materials First Responder
3:3:0 F, Sp
- Corequisite(s): ESFF 1310, ESFF 1320, and ESFF 1330
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 1350**
Mathematics for the Fire Service
3:3:0 On Sufficient Demand
For those seeking the Associate of Applied Science degree. 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 problems.

**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 1240
Teaches the knowledge requirements of NFPA 471, 472, and CFR 1910.120 regulation for a Hazardous Materials Technician. Includes emergency response plans, classification of materials, ICS roles, personnel protective equipment needs, masks, containment and confinement concepts, decon requirements, termination concepts, toxicological and chemical terms and definitions.

**ESFF 2420**
Hazardous Materials Technician Skills
2:0:6 On Sufficient Demand
- Prerequisite(s): ESFF 2410
Presents the manipulative skill requirements of NFPA 471, 472, and CFR 1910.120 regulation for a Hazardous Materials Technician. Teaches handling simulated incidents, classifying materials, performing in ICS roles, using personnel protective equipment, containment and confinement operations, setting up and operating decon, diking, plugging, and patching operations.

**ESFF 2700**
Technical Rescue Principles
3:2:3 On Sufficient Demand
For those with limited fire and emergency services training. Addresses the prerequisite knowledge and skills for technical rescue job performance. Applies the Incident Command System to the management of technical rescue operations, resources and hazards. Includes search and rescue techniques, victim care and extrication, and the use of ropes and rigging.

**ESFF 2710**
Environmental Rescue
3:2:3 On Sufficient Demand
- Prerequisite(s): ESFF 1220
Includes analysis and simulation of problems such as wilderness search and rescue, still and swift water rescue, avalanche and mountain rescue. Discusses disaster planning and management as well as rescues from the work place and industrial settings.

**ESFF 2723**
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, rescue suspension systems, high-angle and vertical victim rescue systems, construction and operation of highline systems, and ascent/ decent procedures.

**ESFF 2781R**
Emergency Services Internship
1 to 8:0:5 to 40 Su, F, Sp
- Prerequisite(s): ESFF 1000 or sufficient emergency services work experience, or instructor approval.
Designed for Emergency Services majors. Provides paid, on-the-job work experience. Work experience and the correlated class are coordinated by the Coordinator and director. Must have approval 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 2020**
Incident Command
3:3:0 F, Sp
- Prerequisite(s): ESFF 1000 or sufficient emergency services work experience.
Presents the basic principles of managing an emergency scene through the utilization of an incident command system for simple single unit, to complex multi unit response. Requires use of personnel, equipment, and additional resources to manage an incident by completing a size-up, analyze, develop and implement an action plan,
maintain on scene accountability of personnel and resources by following IMS principles. Meets the incident command requirements for Fire Officer I, Fire Officer II, NFPA 1021, Presidential Directive #5, and NIMS compliance.

ESFO 2030 Fire Inspector I 3:3:0
- Prerequisite(s): ESFF 1000 or sufficient emergency services work experiences.
For Fire Science and Building Inspection Technology students. Addresses the principles of fire inspection and application of the International Fire Code. Topics include identification of fire hazards, fire prevention measures, inspection techniques, and pre-fire planning. Includes classroom discussion and actual inspections of both under-construction and occupied buildings. Successful completers should be prepared to attain Fire Inspector I certification.

ESFO 2050 Fire Protection and Detection Systems 3:3:0
- 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
- 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
- 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 Instructor I and II 3:3:0
- 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
- 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
- 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 audiovisuals and equipment, and be prepared to certify as Fire Service Instructor II.

ESFO 2200 Fire Officer II 3:3:0
- 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
- 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
- Prerequisite(s): ESFF 1000 or sufficient emergency services work experiences.
Presents basic requirements for fire investigators as found in NFPA 1033. Includes scene examination, documenting the scene, evidence collection and preservation, interviewing techniques, post incident investigation and presenting investigation findings.
### Course Descriptions

**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  
- 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. Includes weekly use of the UVU Language Lab where beginning conversation skills are emphasized and practiced.

**ESL 0920**  
Reading Level I  
5:5:0  
- 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  
- 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. Explores 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  
- 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  
- 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  
- 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  
- 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  
- Prerequisite(s): Department Approval  
For students whose native language is other than English. Studies low-intermediate English usage, correct speech and writing forms and patterns, verb tenses and their related structures, and use of nouns, pronouns, adverbs, sentence connectives, descriptives, and related forms. Expands use of modal auxiliaries, conditional sentence usage, phrases and adjective clauses. Introduces noun and adverbial clauses.

**ESL 1270**  
Writing Level III  
5:5:0  
- Prerequisite(s): Department Approval  
For students whose native language is other than English. Studies high-intermediate English usage, word choice, style, organization, idea development, and technical accuracy. Explores longer academic writing tasks. Includes weekly use of the GA Computer Classroom where high-intermediate writing skills are emphasized and practiced.

**ESL 1340**  
Grammar Level III  
5:5:0  
- Prerequisite(s): Department Approval  
For students whose native language is other than English. Studies high-intermediate English usage, correct speech and writing forms and patterns, verb tenses and their related structures, and use of nouns, pronouns, adverbs, sentence connectives, descriptives, and related forms. Expands use of modal auxiliaries, conditional sentence usage, phrases and adjective clauses. Introduces noun and adverbial clauses.

**ESL 2110**  
Advanced Listening/Speaking  
5:5:0  
- 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 2110**  
Advanced Reading/Vocabulary  
5:5:0  
- 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  
- Prerequisite(s): Department Approval  
For international students whose native language is other than English. Using the English language, emphasizes developmental activities in essay organization, outlining, essay writing, editing and punctuation, and research paper writing. Includes lectures, small and large group activities, peer editing, and lab activities. Satisfies AAS Humanities requirements.

**ESL 2140**  
Advanced Grammar  
5:5:0  
- 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.

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Catalog 2008–2009  
Utah Valley University
ESMG—EMERGENCY SERVICES
- MANAGEMENT

**ESMG 3100**
Introduction to Homeland Security—Theory and Practice
3:3:0  DE
- Prerequisite(s): ESFF 1000 or sufficient Emergency Services work experience
Introduces student to current 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  DE
- Prerequisite(s): ESFF 1000 or departmental approval
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  DE
- Prerequisite(s): ESFF 1000 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  DE
- Prerequisite(s): ESFF 1000 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  DE
- Prerequisite(s): ESFF 1000 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  DE
- Prerequisite(s): ESFF 1000 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**
Management, Politics, and Regulations for the Emergency Services
3:3:0  DE
- Prerequisite(s): ESFF 1000 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 and Public Relations for the Emergency Services
3:3:0  DE
- Prerequisite(s): ESMG 3150
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  DE
- Prerequisite(s): ESMG 3150
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  DE
- Prerequisite(s): ESMG 3150
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  DE
- Prerequisite(s): ESMG 3150
Public Emergency Services Management capstone course. Enables students to examine cutting-edge issues under the guidance of top professionals. Includes interviews with local and state officials to identify potential critical issues. Helps develop personal leadership philosophy and strategies for decision making.

**ESWF—EMERGENCY SERVICES
- WILDLAND FIREFIGHTER

**ESWF 1400**
Wildland Firefighting Fundamentals
4:3:3  F, Sp
Designed to meet the Wildland Firefighter I knowledge and skill requirements of NFPA 1051, Wildland Fire Fighter Professional Qualifications. Teaches students to recognize the “Situations That Shout 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.

**ESWF 1410**
Wildland Firefighter Internship I
5:2:9  Su
- Prerequisite(s): ESWF 1410 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.

**ESWF 1420**
Wildland Firefighter Internship II
5:2:9  Su
- Prerequisite(s): ESWF 1410
Provides students with the training and experience that will assist them in gaining a job in wildland fire management and suppression. Features participation in a 20-person wildland fire suppression crew sponsored by the Utah Division of Forestry, Fire and State Lands. Also teaches about wildland fire behavior as well as fire suppression 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.

ESWF 2300 Wildland Firefighter Basics 5:4:3 On Sufficient Demand
- Prerequisite(s): ESWF 1400 or departmental approval
Provides basic fire behavior concepts as well as other factors that influence wildland fire behavior. Requires a more in-depth discussion of fire operations in the urban interface as well as basic aircraft operations on wildland fires. Preps students to meet or exceed National Wildfire Coordinating Group requirements for the following courses; S-215 Fire Operations in the Urban Interface, S-270 Basic Air Operations and S-290 Intermediate Wildland Fire Behavior.

ESWF 2400 Advanced Wildland Firefighter 5:4:3 On Sufficient Demand
- Prerequisite(s): ESWF 2300
Introduces students to advanced wildland fire strategies and tactics as well as to common leadership tasks and principles. Includes the introduction of the Advanced Wildland Firefighter Task book for the NWCG Red Card position of “Advanced Firefighter” or equivalent NFPA Red Card qualification of Wildland Firefighter II. Meets and/or exceeds NWCG standards for the following classes; L-280 Followship to Leadership, I-200 Basic Incident Command, S-200 Initial Attack Incident Commander Type 4, S-211 Portable Pumps and Water, S-131 Advanced Wildland Firefighter.

ESWF 2430 Wildland Firefighter Internship III 5:2:9 Su
- Prerequisite(s): ESWF 1420 and ESWF 2300
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 2500 Wildland/Urban Interface Fire Protection 3:3:0 On Sufficient Demand
- Prerequisite(s): ESWF 1400 or departmental approval
For advanced students. Preps company officers and firefighters to suppress fires in developed areas bordering or intermixed with wildland areas. Teaches company officers and incident commanders to size-up an incident, create an initial strategy and action plan, perform structure triage, implement tactics, assess operations, deal with the public, and provide for safety. Completers should develop skills in prevention and mitigation of wildland urban interface fires.

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**Course Descriptions**

**FAC—Facilities Management**

**FAC 1010 Survey of Facilities Management 3:3:0 F**
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 1600 Survey of Grounds and Building Maintenance 3:3:0 Not 08-09**
Teaches the knowledge and application skills necessary for Facilities Managers to maintain a facility’s exterior appearance and weather protection. Uses theory, hands-on applications, and case studies.

**FAC 281R Cooperative Work Experience 1 to 8:0:5 to 40 F, Sp**
- 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 F, Sp**
- 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 improving present work performance.

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**FAMT—Fine Arts, Music, and Theater**

**FAMT 281R Cooperative Work Experience 2 to 9:1:5 to 40 Not 08-09**
- Corequisite(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.

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**FREN—French**

**FREN 1010 Beginning French I 5:5:1 F, Sp**
Emphasizes understanding, speaking, reading and writing skills. Basic language usage and cultural understanding are acquired through an activity-based approach.
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 from 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.

**GEO—GEOLOGY**

GEO 1010**  
**Introduction to Geology**  
3:3:0  
**Su, F, Sp; DE**  
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 GEOG 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. Stresses 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, mountains, and other environments. Includes an extended outdoor activity to the Grand Canyon or Capital Reef National Park.

GEO 1080  
**Introduction to Oceanography**  
3:3:0  
**F, Sp; DE**  
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 GEOG 1225, the class is sufficiently rigorous to articulate as an introductory earth science class.

GEO 1225  
**Historical Geology Laboratory**  
1:0:2  
**F**  
Designed to be taken in conjunction with GEO 1220. Identifies fossils in correlation with their paleoenvironments and geologic time periods. Illustrates and duplicates methodology of the science of historical geology. Taken with GEO 1220, the class will articulate as an introductory earth science class.

GEO 202R (Cross-listed with: BIOL 202R)  
**Science Excursion**  
1:0:2  
**F, Sp**  
For students interested in the natural world. Explores a wide variety of topics in science, including geology, botany, astronomy, zoology, ecology, and archeology. Consists of a minimum of a four-day field trip. Participants should gain an increased understanding of several fields of scientific study. Graded as credit/no credit. May be repeated as many times as desired for interest.

GEO 204R (Cross-listed with: BIOL 204R)  
**Natural History Excursion**  
3:1:8  
**Su**  
For students interested in the natural world. Promotes an in-depth look at a wide variety of topics in science, including geology, botany, astronomy, zoology, ecology, and archeology. Consists of 15 hours of lecture plus an appropriate field trip. Participants should gain an interdisciplinary understanding of science and nature.

GEO 3080  
**Earth Materials**  
4:3:3  
**F**  
- Prerequisite(s): GEO 1010, GEO 1015; CHEM 1210 (or other chemistry course) recommended  
Investigates geologically significant rocks and rock-forming minerals. Includes origins, occurrences, and associations of several rocks and minerals. Includes hand sample and microscopic methods of identifying rocks and minerals in the laboratory. Involves field trips, possibly including weekend trips.
Course Descriptions

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
- Prerequisite(s): CHEM 1210 and CHEM 1215 or higher
- Corequisite(s): CHEM 1220 and CHEM 1225 recommended
- Provides a survey of the uses of geology in solving crime. Emphasizes actual criminal cases, hands-on laboratory activities, and critical observation skills. Covers mineral-forming processes in rock, soil, and sediment, and teaches minerals identification with a hand lens and microscope. Examines some or all of the following: mineral pigments related to art forgery and cosmetics; imitation amber and other gems; environmental pollution; and crimes in archeology. Serves as an introduction to trace analysis.

GEO 3700
Structure and Tectonics
4:3:3  Sp
- Prerequisite(s): GEO 1010, GEO 1015; MATH 1060 (or other course dealing with trigonometry) recommended.
- Investigates the fundamentals of global plate tectonics and rock deformation. Includes applications to petroleum geology, environmental geology, and engineering geology. Explores geometric techniques of structural analysis in the laboratory. Involves field trips, possibly including weekend trips.

GEO 4080
Petrology
4:3:3
- Prerequisite(s): GEO 3080, CHEM 1220
- Intended for students pursuing graduate school in geology or a career in geology such as mining or petroleum geology. Examines mineral equilibrium in igneous, sedimentary, and metamorphic rocks as it pertains to the genesis of these rocks. Introduces students to techniques of petrographic microscopy. Surveys the use of analytical tools in researching igneous and metamorphic rocks, including the use of isotopes for dating and for tracing the origin of magma and the use of the electron microscope for determining temperatures of metamorphism. Examines the diagenesis of sandstones.

GEO 4200
Teaching Methods in Science
3:3:0  Sp
- Prerequisite(s): Acceptance into Secondary Education program; senior-level standing
- Examines objectives, instructional methods, and curriculum for teaching science in the secondary school. Includes developing, adapting, evaluating, and using strategies and materials for teaching biological and physical sciences. Explores special needs of the learners and characteristics specific to the science discipline.

GEO 425R
Geology for Teachers
1 to 5:1 to 5:0 to 10
- Prerequisite(s): Departmental Approval
- For licensed teachers or teachers seeking to recertify, an update course in geology or basic geology courses for earth science or integrated science endorsements from the Utah State Office of Education. Teaches principles of geology and pedagogy of teaching geology for teachers in public or private schools. Emphasis will be placed on correlation with the Utah Core Curriculum, the National Science Education Standards, and the Benchmarks of Project 2061. Topics will vary.

GEO 4500
Sedimentary Geology
4:3:2  Sp
- Prerequisite(s): GEO 1010, 1015; CHEM 1210 (or other chemistry recommended).
- Focuses on the three main facets of "soft rock" geology: sedimentology, petrology, and stratigraphy. Explores the origin, classification, and occurrence of sedimentary rocks, as well as their distribution in space and time as represented in the rock record. Emphasis on description and interpretation of sedimentary rocks and application of fundamental stratigraphic principles. Includes lab exercises and field trips.

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, paleoecology, and stratigraphy. Emphasis on 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
- 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
Geologic/Environmental Internship
1 to 3:1 to 5:0 to 10
- 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.

GEOG—Geography

GEOG 1400
Introduction to Human Geography
3:3:0
- Prerequisite(s): Departmental Approval
- 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 2100
Geography of the United States
3:3:0
- Prerequisite(s): Acceptance into Secondary Education program; senior-level standing
- Designed for students with one or more Earth Science faculty member and approved by a committee of Earth Science faculty. Includes some combination of literature review, field work, numerical analysis, and/or laboratory analysis. Involves the preparation of a written report. An oral presentation may also be required. May be repeated for up to four credits.

GEOG 2200
Geography of Europe
3:3:0
- Prerequisite(s): GEO 1010 and GEO 1015
- Explores the origin, classification, and occurrence of sedimentary rocks, as well as their distribution in space and time as represented in the rock record. Emphasis on description and interpretation of sedimentary rocks and application of fundamental stratigraphic principles. Includes lab exercises and field trips.

GEOG 3000
Geologic/Environmental Internship
1 to 3:1 to 5:0 to 10
- 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.

GEOG 4200
Geologic/Environmental Internship
1 to 3:1 to 5:0 to 10
- 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.
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 (Cross-listed with: HIST 3800)
Environmental History of the United States
3:3:0 F
- 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 1010
Beginning German I
5:5:1 F, Sp
Studies conversational German that is used in daily settings. Includes culture study and conversation in real life situations. Covers pronunciation, reading, and grammar. Uses the Natural and Total Physical Response teaching methods. Includes field trips and guest lecturers.

GER 1010
Beginning German I
5:5:1 F, Sp
- Prerequisite(s): Student should have equivalent knowledge of GER 1010
Studies second semester conversational German that is used in daily settings. Includes culture study, pronunciation, reading, and grammar. Emphasizes conversation in real life situations. Uses the Natural and Total Physical Response teaching methods. Includes field trips and guest lecturers. Completers should be able to converse enough to visit or work in a German speaking country.

GER 1110
German Conversation I
4:4:0 On Sufficient Demand
A total immersion course taught in a classroom in a German speaking country. Students live in native, German-speaking homes or other total immersion environments. 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 2020
Intermediate German II
3:3:0
- 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. Includes the Natural and Total Physical Response teaching methods. Uses field trips and guest lecturers. Prepares students to enter the advanced level of German at colleges. 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 LH
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 3050
Advanced German
3:3:0 F
- Prerequisite(s): GER 2020, one-year residency in German speaking country, or placement test
Designed for non-native German speakers who have lived in a German speaking country for at least one year and who would like credit for GER 1010, 1020, 2010, and 2020. 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 4200
Advanced Business German
3:3:0 On Sufficient Demand
- Prerequisite(s): Students need equivalent knowledge of GER 3200
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 (Pruefung Wirtschaftsdeutsch). 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

F, Sp

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

F, Sp

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

Su, F, Sp; DE

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

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

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 280H

Independent Study

1:1:0

On Sufficient Demand

- Prerequisite(s): Honors Director Approval

Provides independent study for Honors students unable to secure a desired class within regular semester curriculum offering. Involves designing and completing readings and other projects at the lower-division level in cooperation with the Honors director. Maximum of 3 credits may be applied toward Honors graduation.

HIST 290R

Independent Study

1 to 4:1 to 4:0

On Sufficient Demand

- Prerequisite(s): Dean and/or Department Chair approval

Provides independent study for students unable to secure a desired class within regular semester curriculum offering. With approval of dean and/or department chair, student and instructor design and complete readings and other projects at the lower-division level. Maximum of 6 credits may be applied toward graduation.

HIST 3010

The Nature of History

3:3:0

F, Sp

- Prerequisite(s): ENGL 2010 or ENGL 2020, HIST 2700 and HIST 2710 and Sophomore status or higher

Utilizes a variety of resources to build upon historical research and writing learned in previous history courses, and includes an examination of historiography and the philosophy of history. Expands research skills in primary and secondary sources, critical thinking, historiographic analysis, and comparative history. May select a thesis topic for history thesis writing. May identify an additional instructor to assist their research and writing project. Topics and emphases will vary to include American 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

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, museums, exhibits, 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

On Sufficient Demand

- 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 F, 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, multimedia, and guest lecturers.

HIST 3110
Greek History
3:3:0 F
- Prerequisite(s): ENGL 2010 or ENGL 2020 or permission of instructor
Explores historical and geographical context of Greece from 1600 B.C.E. to the Roman conquest in 30 B.C.E. spanning Minoan, Mycenaean, Hellenic, and Hellenistic ages. Examines the development of social/cultural, political, and economic institutions emphasizing their influence on Western civilization and our own cultural context.

HIST 3130
Roman Republic
3:3:0 F
- Prerequisite(s): ENGL 2010 or ENGL 2020 or permission of instructor
Covers the development of Rome and Italy from prehistory through the end of the Republic in first century B.C.E. Examines the structure of Roman society, 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
Examines the history of the Roman Empire with a focus on the second to fourth centuries A.D. Examines the history of Rome's interaction with the provinces and the empire's role in the Pax Romana. Discusses political structures, social institutions, and cultural phenomena from the Golden Age to the Age of Crisis and the later Empire. Part of a two semester sequence on Roman history. Each semester may be taken independently.

HIST 3150
Medieval Europe
3:3:0 F
- Prerequisite(s): HIST 1500 or permission of instructor
Examines the history of Europe from the collapse of Greco-Roman civilization to the fifteen 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 Sp
- 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 F
- 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 Not 08-09
- Prerequisite(s): (ENGL 2010 or ENGL 2020) or consent of instructor
Examines the social, economic, and political changes in Europe from 1815-1914. Includes the development of modern states, nationalism, colonialism, the two World Wars, and the Cold War. Emphasizes the role of the United States in shaping the course of events.

HIST 3190
Twentieth Century Europe
3:3:0 Not 08-09
- Prerequisite(s): (ENGL 2010 or ENGL 2020) or consent of instructor
Examines the development of the modern world from 1914 to the present. Focuses on the 1945 resolution of the European conflict, the development of the U.S. and the Soviet Union, and the post-1975 developments. Emphasizes the role of the United States in shaping the course of events.

HIST 3200
Women in American History to 1870
3:3:0 F
- Prerequisite(s): Junior standing or consent of instructor
Examines 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 3210
Women in American History since 1870
3:3:0 Sp
- Prerequisite(s): Junior standing, or consent of instructor
Examines women's experiences in American culture from 1870 to the present. Examines major topics, questions, and theories in women's experiences.

HIST 3260
History of Utah
3:3:0 F, Sp
Surveys the history of Utah and its peoples from prehistoric times to the present. Introduces major themes in Great Basin prehistory and Indian history, Mormon history, territorial and state history, and Utah's role in the development of the West and the nation. Examines writings and research in the areas of art, anthropology, demography, geography, ethnography, folklore, gender, literature, cinematography, photography, popular culture, and religion. Can be used for teacher education and recertification requirements.

HIST 3320
Modern Britain
3:3:0 Not 08-09
- Prerequisite(s): (ENGL 2010 or ENGL 2020) or consent of instructor
Examines the political and social history of Britain from the Glorious Revolution to the end of the 20th century.

HIST 3430
Middle East History--1914- Present
3:3:0 Not 08-09
Surveys the political and socioeconomic history of the Middle East since the First World War. Includes the development and discussion of various ethnic and religious groups in the region, the development of modern states, and economic features of the Arab countries, Israel, Turkey, and Iran.

HIST 3450
The History of World War II
3:3:0 F
- Prerequisite(s): (ENGL 2010 or ENGL 2020) or consent of instructor
Examines major themes in U.S. Military History from the colonial period to the present. Studies the evolution of weapon systems, strategies, battleship and naval tactics, military supply, and communication. Includes lecture / discussion, media presentations, guest speakers, research papers and book reviews.

HIST 3520
The United States and Vietnam--1945 to Present
3:3:0 Sp
- Prerequisite(s): ENGL 2010 or ENGL 2020 or consent of instructor
Examines major themes in U.S. Military History from the close of World War II to the present. Examines cultural military, diplomatic, historiographical, and social influences of the Vietnam War on this country. Examines the war's legacy on American politics, culture, and foreign relations. Includes lecture, discussion, audiovisual materials, and guest speakers.

HIST 3530
History of Vietnam
3:3:0 F
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.
Course Descriptions

HIST 3540 History of South Africa
3:3:0 Not 08-09
Explores the history of South Africa from first peoples to the present, with special attention to twentieth-century developments. Topics include Khoisan and Bantu societies, Dutch settlement at the Cape of Good Hope, British colonization, the Zulu kingdom, the Great Trek, British-Boer conflict, the mining economy, Union, segregation and Apartheid, and the struggle for non-racial democracy. For history and integrated studies majors, and other students interested in world history.

HIST 3550 Memory and History
3:3:0 F
Prerequisite(s): (ENGL 2010 or ENGL 2020) and (HIST 3010 or HIST 3020)
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.

HIST 3610 The Modern History of East Asia
3:3:0 Sp
Analogizes the modern history of China, Japan and Korea, covering the last two centuries. Explores the traditional norms of the East Asian peoples up to the beginning of the nineteenth century. Demonstrates the impact of the modern West and its newly developed technology on East Asia. Presents the responses of those countries to external pressures.

HIST 3660 The History of Modern Russia--1864 to Present
3:3:0 F
Surveys the history of Russia and the Soviet Union from 1864 to the present, with special attention to Russia’s politics, economics, and society.

HIST 3730 American Origins to 1790
3:3:0 On Sufficient Demand
Prerequisite(s): HIST 2700 and HIST 2710, or Instructor approval
Surveys United States History from the Pre-Columbian period to the implementation of the United States Constitution. Examines indigenous cultures prior to European exploration. Analyzes social, political, economic, and cultural developments of European colonization. Explores the Revolutionary Era and its impact on the new independent republic.

HIST 3731 United States History 1790-1890
3:3:0 F
Prerequisite(s): HIST 2700 and HIST 2710, or Instructor approval
Surveys United States social, political, economic, and cultural movements from the era of the New Republic to the beginning of the Progressive Reforms. Examines such topics as the creation of the Republic, Antebellum Reforms, Westward Expansion, the Civil War, Reconstruction, and the Gilded Age.

HIST 3732 United States History 1890-1945
3:3:0 On Sufficient Demand
Prerequisite(s): HIST 2720 and HIST 2710, or Instructor approval
Surveys United States’ political, cultural, economic, and social movements from Progressivism through WWII. Examines various topics including the Progressive Reforms, WWII, the Great Depression, the New Deals, and WWII.

HIST 3733 United States since 1945
3:3:0 Sp
Prerequisite(s): HIST 2700 and HIST 2710, or Instructor approval
Provides an overview of major themes in U.S. history from the end of World War II to the present.

HIST 3800 Environmental History of the United States
3:3:0 F
Prerequisite(s): HIST 1700 or (HIST 2700 and HIST 2710)
Examines human modification of the American landscape. Surveys the physical geography of the United States, landscape change during Native American to European transition, and causes of agricultural and industrial pollution. Explores land ethics, processes of environmental degradation, technological remedies, history of federal laws and protection agencies. May include field experiences.

HIST 381G Prcolumbian America
3:3:0 F
Prerequisite(s): HIST 1700 or HIST 2700 or HIST 2710 or ENGL 1010 or HIST 180G or ANTH 180G
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.

HIST 383G Indians of the Great Plains
3:3:0 Sp
Prerequisite(s): HIST 1700 or HIST 2700 or HIST 2710 or ENGL 1010 or HIST 180G or ANTH 180G
Examines 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.

HIST 384G Indians of the Southwest
3:3:0 On Sufficient Demand
Prerequisite(s): HIST 1700 or HIST 2700 or HIST 2710 or HIST 180G/ANTH 180G or ENGL 1010
Examines the cultural geography and social institutions of cultures of Indians of the American Southwest and their ancestors. Examines the similarities and differences among Southwestern Indian cultures and between Indian cultures and other social groups in the United States. Focuses on historic and contemporary relations among Indian cultures and between Indian cultures and the United States federal and state governments.

HIST 385G The Struggle for Self-determination--American Indians 1891 to present
3:3:0 Not 08-09
Prerequisite(s): HIST 1700 or HIST 2700 or HIST 2710 or HIST/ANTH 1800 or ENGL 1010
Surveys American Indian history from the Wounded Knee Massacre of 1891 to the present. Examination of how American Indians changed the emphasis of resistance to social, political, and cultural assimilation from armed conflict to the employment of legal and political strategies for achieving self-determination.

HIST 3870 Constitutional History to Plessy 1896
3:3:0 F
Explores, in a critical and historical framework, US Constitutional History to Plessy (1896). Examines the origins and general principles of Constitutional thought (Coke, Montesquieu, Sidney, etc.), and the Colonial, Confederate, and Constitutional periods of early US history (including the Marshall Court’s advancement of the doctrine 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 08-09
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
- Prerequisite(s): ENGL 2010 or ENGL 2020
- Prerequisite: Consent of instructor

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
- Prerequisite: Consent of instructor

Surveys a specific topic in Global History. Topic varies each semester. A maximum of 6 credits may be applied toward graduation.

**HIST 4250**
Teaching History in the Secondary Curriculum
3:3:0
- Prerequisite: 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 4300**
Violence and Social Conflict in Latin America
3:3:0
- Prerequisite: 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
- Prerequisite: Consent of instructor

Explores development of Western scientific context from 6th century B.C. Greece to modern times. Emphasizes how our understanding of nature is influenced by a scientific approach. Examines technological impact of science on our lives.

**HIST 4330**
Machines in the Making of History
3:3:0
- Prerequisite: Consent of instructor

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.

**Course Descriptions**

Examines military, political, social, economic, and racial issues before, during, and after the war. Analyzes the painful period of Reconstruction and its historiography.

**HIST 482R**
Public History Internship
2 to 3:1:4 to 32
- Prerequisite(s): Consent of instructor

Provides opportunities for internship experience in public history organizations, including, but not limited to, museums, archives, manuscript collections, federal, state, local, and private historical sites, and governmental and non-governmental history organizations. May be repeated for a maximum of 9 credits toward graduation.

**HIST 490R**
Independent Study
1 to 4:1:4
- Prerequisite: Consent of instructor

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 4990**
Senior Research Thesis-Writing Component
3:3:0
- Prerequisite: Consent of instructor

Provides the capstone experience for History majors. Continues the research project begun in The Nature of History. 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
- Prerequisite: Consent of instructor

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

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 1800 Occupational Safety 1:1:0 Not 08-09
Designed to fill the safety requirements for Trade/Technical/Industrial students. Covers general safety guidelines of controlling groups such as OSHA and the Hazardous Waste Material Committee.

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 2300 Medical Terminology II 2:2:0 Not 08-09
Introduces advanced medical terminology. Adds depth to the areas of reading, writing, spelling, abbreviations, and understanding the medical language. Emphasizes irregular inflected forms of medical terms. Covers additional areas of medicine not covered in HLTH 1300. Deals with abbreviations, trade names of drugs, table of elements, table of Latin and Greek terms used in prescriptions, and medical signs and symbols. Emphasizes technical vocabulary. Introduces the use of the Physician's Desk Reference. Includes lectures and audiovisual presentations.

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
Human Sexuality 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, dysfunctions, 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 281R Cooperative Work Experience 2 to 9:1:5 to 40 Not 08-09
- Prerequisite(s): Approval of Cooperative Coordinator
For Community Health majors. Provides paid, on-the-job 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. Credit is determined by the number of hours a student works during the semester. May be repeated for a maximum of nine credits.

HLTH 289R Undergraduate Research 1 to 3:8:5 to 15 F, Sp
- Prerequisite(s): Instructor/departmental permission
Provides students the opportunity to conduct research under the mentorship of a faculty member. Students will put in practice the theoretical knowledge gained in prior major courses. Students will create a significant intellectual or creative product that is characteristic of the community health/health administration discipline and worthy of communication to a broader audience. May be repeated for a maximum of 3 credits toward graduation.

HLTH 3000 Health Concepts of Death and Dying 3:3:0 F, Sp
- Prerequisite(s): Sophomore Standing or Instructor Approval
For students interested in various health care professions. Examines information and data pertaining to death in the United States. Discusses historical and cultural perspectives of death, causes of death, definitions of death, stages of dying, bereavement, the will to live, legal and ethical issues, euthanasia, and suicide. Focuses on attitudes and values of Americans concerning death. Studies ways to work with and relate to dying individuals and their families.

HLTH 3100 Health Education for Elementary Teachers 2:2:0 F, Sp
- Prerequisite(s): ENGL 1010
For Elementary Education majors. Emphasizes the role of the teacher as a health educator and team member in providing a healthy school environment. Studies the basic Utah health core curriculum. Develops learning activities applicable to the health needs of the elementary school student.

HLTH 3150 (Cross-listed with: ANTH 3150) 3:3:0 F
Culture Ecology and Health
- 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 MIRC 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
  • 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 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 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 F, 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 in 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 3:3:5 to 15 F, Sp
- Prerequisite(s): Permission of the instructor and the department
Provides students the opportunity to conduct research under the mentorship of a faculty member. Students will put in practice the theoretical knowledge gained in prior major courses. Students will create a significant intellectual or creative product that is characteristic of the community health discipline and worthy of communication to a broader audience. May be repeated for a maximum of 3 credits toward graduation.

HLTH 490R Special Topics in Community Health
1 to 3:1 to 2:0 On Sufficient Demand
- Prerequisite(s): HLTH 3200 or Instructor Permission
Explores and examines special topics related to community health issues and problems. May include community health topics such as AIDS/HIV, West Nile Virus, special drug and sexuality issues, obesity, suicide, teenage pregnancy and terrorism. May be repeated for a maximum of six credits toward graduation.

HM—HOSPITALITY MANAGEMENT

HM 1010 Introduction to Hospitality Industry
3:3:0 F, Sp; DE
Designed for hospitality management majors and as elective credit for other business majors. Provides a basic understanding of the lodging and food service industry by tracing the industry’s growth and development. Analyzes management’s functions and responsibilities in such areas as administration, organization, communications, accounting, marketing, and human relations. Examines industry opportunities and future trends. Includes lecture, field trips, guest speakers, film, and tapes. Completers should have a knowledge of career opportunities and basic hospitality management principles.

HM 1110 Food Production Principles
3:3:1 F, Sp
Designed for hospitality management majors and as elective credit for other business majors. Examines the techniques and procedures of quality and quantity food production. Studies the selection and preparation of major food products. Provides an extensive set of basic and complex recipes for practice. Includes lectures, lab, visits of guest chefs, and field trips. Completers should be prepared to enter the working field as a prep cook.

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 its 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 proficient in being a beginning front desk clerk.

HM 1180 Food and Beverage Management
3:3:9 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 trips and project. Completers should understand the basic structure of a hospitality unit and how management principles relate to a restaurant.

HM 281R Cooperative Work Experience
2 to 9:1:5 to 40 Su, F, Sp
- Prerequisite(s): Approval of Woodbury School of Business Career and Corporate Manager
Provides opportunities to apply classroom theory on the job. Students work as paid employees in a job that relates to their careers while enrolled at the institution. Credit is determined by the number of hours a student works during the semester. Completers meet individually set goals. A total of six credits may be applied toward graduation with a diploma or AAS degree and three credits toward Certificate programs.

HM 2890 Industrial Work Experience
1 to 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 3:0 On Sufficient Demand
- Prerequisite(s): Instructor/Department Chair Approval
Provides short courses, workshops, and special programs in hospitality management or culinary arts topics. Repeatable for up to three credits.

HM 297R Independent Study
1 to 3:1 to 3:0 On Sufficient Demand
- Prerequisite(s): Department Chair Approval
Offers independent study as directed in reading, in individual projects, etc., in the area of hospitality management or culinary arts at the discretion and approval of the department chair. May be repeated for up to 3 credits.

HM 3020 Hospitality Managerial Accounting
4:4:0 F
- Prerequisite(s): ACC 2010
Presents managerial accounting concepts and explains how these concepts apply to specific operations within the hospitality industry. Covers the principles and procedures involved in developing an operating budget, income and cost 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.
<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>HM 3050</td>
<td>Country Club Management</td>
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<tr>
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<td>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.</td>
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<tr>
<td>HM 3150</td>
<td>Hospitality Finance</td>
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<td>Prerequisite(s): HM 3020</td>
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<td>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.</td>
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<tr>
<td>HM 3200</td>
<td>(Cross-listed with: MGMT 3200) Global Tourism</td>
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<td>Prerequisite(s): MGMT 2200 or ENGL 2010 or ENGL 2020</td>
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<tr>
<td></td>
<td>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.</td>
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<tr>
<td>HM 3210</td>
<td>(Cross-listed with: MGMT 3210) Convention and Events Management</td>
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<td>Prerequisite(s): ENGL 2010 or ENGL 2020</td>
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<td></td>
<td>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.</td>
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<tr>
<td>HM 3390</td>
<td>Hotel Operations II</td>
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<td>Prerequisite(s): HM 1130</td>
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<td>Overviews fundamentals of housekeeping management. Describes the management functions, tools, and practices required in today’s lodging and institutional housekeeping departments. Provides students with information they need to successfully manage a physical plant and work effectively with engineering and maintenance. Includes lecture, role play, site visits, film, and tapes. Completers should have a basic understanding of housekeeping and facility management.</td>
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<tr>
<td>HM 3640</td>
<td>Food and Beverage Controls</td>
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<td>Prerequisite(s): ACC 2010</td>
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<td>Designed for hospitality management majors and as elective credit for other business majors. Covers the principles and procedures involved in an affective food and beverage control system, including standards determination, the operating budget, income and cost control, menu pricing, and computer applications. Includes lecture and computer simulation. Completers should have a basic understanding of control functions within a hospitality unit and be familiar with computer control systems.</td>
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<tr>
<td>HM 3710</td>
<td>Marketing of Hospitality Services</td>
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<td>Prerequisite(s): MGMT 2200</td>
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<td></td>
<td>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.</td>
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<tr>
<td>HM 4550</td>
<td>Hospitality Industry Management</td>
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<td>Prerequisite(s): HM 3710 and Matriculation into Business Management Bachelor’s Degree Program or Hospitality Management Bachelor’s Degree Program</td>
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<td>Examines delivery of the organization’s product or service. Includes investigative and production planning, scheduling of operations, allocation of resources, manpower and equipment decisions, inventory control, production planning, and quality.</td>
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<tr>
<td>HM 4750</td>
<td>Etiquette for Golf and Business</td>
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<td>Examines the development of etiquette skills in dealing with situations in business, dining, and golf. Includes lectures and participation in a luncheon, a formal dinner, a reception, and two rounds of golf. Completers should have a better knowledge of the importance of proper business etiquette.</td>
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<tr>
<td>HM 481R</td>
<td>Cooperative Work Experience</td>
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<td>Prerequisite(s): Approval of Woodbury School of Business Career and Corporate Manager For Bachelor of Science Degree students in Business Management or Hospitality Management. Provides opportunities to apply classroom theory on the job. Students work as employees in a job that relates to their careers while enrolled at the institution. Credit is determined by the number of hours a student works during the semester. Completers meet individually set goals. Three credits may be applied toward a Bachelor of Science degree in Business Management; six credits may be applied to the Hospitality Management degree. Course will be graded credit or no-credit.</td>
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<tr>
<td>HM 482R</td>
<td>Internship</td>
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<td>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.</td>
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<tr>
<td>HM 496R</td>
<td>Hospitality Management Seminar</td>
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<td>Prerequisite(s): Instructor/Department Chair Approval</td>
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<td>Provides short courses, workshops, and special programs in hospitality management. Repeatable for up to three credits.</td>
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<tr>
<td>HM 497R</td>
<td>Independent Study</td>
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<td>Prerequisite(s): Department Chair Approval</td>
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<td>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.</td>
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**HONR—HONORS**

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<th>Course Code</th>
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<tbody>
<tr>
<td>HONR 100A</td>
<td>Fall Honors Colloquium</td>
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<td></td>
<td>Prerequisite(s): Current enrollment in Honors program</td>
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<tr>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>HONR 100B</td>
<td>Spring Honors Colloquium</td>
</tr>
<tr>
<td></td>
<td>Prerequisite(s): Current enrollment in Honors program</td>
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<td>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.</td>
</tr>
<tr>
<td>HONR 2000</td>
<td>Ancient Legacies</td>
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<tr>
<td></td>
<td>Prerequisite(s): current enrollment in Utah Valley University Honors program or permission of the instructor</td>
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</tbody>
</table>
|             | 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,
Course Descriptions

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 4:9 to 3 Su, F, Sp
- 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** 3:6:0
- 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** 3:6:6
- 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 1010**
- **HUM 1010**
- **Humans Through the Arts** 3:3:0 Su, F, Sp; DE
- Studies the mediums, elements, organization of the various art forms: literature, music, visual arts etc. as part of critical approaches for greater understanding and enjoyment. Draws on other disciplines such as history, philosophy, religion, and the social sciences for context. Critically examines how artworks deal with problems humans faced in the past and what possible strategies they suggest for solving problems facing society today.

**HUM 101H**
- **HUM 101H**
- **Humans Through the Arts** 3:3:0 F, Sp
- Studies the mediums, elements, organization of the various art forms: literature, music, visual arts etc. as part of critical approaches for greater understanding and enjoyment. Draws on other disciplines such as history, philosophy, religion, and the social sciences for context. Critically examines how artworks deal with problems humans faced in the past and what possible strategies they suggest for solving problems facing society today.

**HUM 2010**
- **HUM 2010**
- **Arts in Humanistic Traditions I** 3:3:0 F, Sp
- The first of a two-part series which examines world civilizations through the arts. Studies early societies through the 1600s. Explores formative creative events in history and their relationships to modern issues. Presents perspectives of traditional humanistic values of arts and ideas. Investigates how others have dealt with problems that humans faced in the past, and possible strategies for problem solving that might aid students today.

**HUM 201H**
- **HUM 201H**
- **Arts in Humanistic Traditions I** 3:3:0 F, Sp
- The first of a two-part series which examines world civilizations through the arts. Studies early societies through the 1600s. Explores formative creative events in history and their relationships to modern issues. Presents perspectives of traditional humanistic values of arts and ideas. Investigates how others have dealt with problems that humans faced in the past, and possible strategies for problem solving that might aid students today.

**HUM 2020**
- **HUM 2020**
- **Arts in Humanistic Traditions II** 3:3:0 F, Sp
- The second of a two-part series which examines world civilizations through the arts. Studies societies from the 1600s. 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**
- **HUM 202H**
- **Arts in Humanistic Traditions II** 3:3:0
- The second of a two-part series which examines world civilizations through the arts. Studies societies from the 1600s. 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**
- **HUM 2500**
- **Introduction to Ancient Greek I** 6:6:0 Su, F, Sp
- Prerequisite(s): ENGL 1010
- Allows students the opportunity to intensively study 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**
- **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 281R**
- **HUM 281R**
- **Cooperative Work Experience** 2 to 9:1:5 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 290R
**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 AAS degree.

### HUM 295R
**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 300R
**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 310R
**Area Studies in Humanities**

3:3:0  
F, Sp

- Prerequisite(s): ENGL 1010 and (HUM 1010 or HUM 2010 or HUM 2020)

Studies literature, philosophy, and the arts of a particular geographical area. Topics vary and may include American, European, Latin American, Asian, Arabian, and African. Repeatable up to 6 hours toward graduation.

### HUM 320R
**Period Studies in Humanities**

3:3:0  
F, Sp

- Prerequisite(s): ENGL 1010 and (HUM 1010 or HUM 2010 or HUM 2020)

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 330R
**Approaches to Humanities**

3:3:0  
F, Sp

- Prerequisite(s): ENGL 1010 and (HUM 1010 or HUM 2010 or HUM 2020)

Examines critical approaches to the arts. Introduces students to the debates surrounding critical theory. Presents four aspects of critical theory in broad contexts: Marxism, psychoanalysis, structural linguistics, and gender theory.

### HUM 3800
**Introduction to Aesthetics**

3:3:0  
Sp

- Prerequisite(s): PHIL 2050 or PHIL 205H and HUM 1010

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.

### HVAC—HEATING, VENTILATION, AIR CONDITIONING

**HVAC 1110**

**Industrial Maintenance 4D**

5:5:0  
On Sufficient Demand

- Prerequisite(s): Departmental written approval

A heating ventilation air-conditioning course for Industrial Maintenance apprentices. Teaches processes and skills to troubleshoot and repair room and cab air-conditioning.

**HVAC 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 1220

For HVAC apprentices and students interested in exploring the HVAC industry. Provides advanced sheet metal practices, duct size and airflow; joining methods, duct mate, cleats, lock, vibration isolators; field measures (field, residential and commercial); and old timers tricks-of-the-trade. Studies air movement, blowers, fans, ventilation systems and drafts, duct systems, dampers, returns, filters, air flow calculations and system balancing.

**HVAC 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 2220

For HVAC apprentices. Teaches properties of natural gas, natural gas distribution systems, gas piping systems, combustion air, venting, appliance installation, heat loss calculation, equipment sizing and selection, and duct design. Successful completers should be prepared to complete the RMGA certification testing.

### 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; DE

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.
Course Descriptions

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 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 demand paged 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
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 and router configurations.

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
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, INFO 2050, MATH 1050 or higher
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
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 3:0:3 to 9 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. Completes and 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 3120 Principles of Information Systems--A Managerial Approach 3:3:0 Su, F, Sp; DE
- Prerequisite(s): (MGMT 2200 or ENGL 2010 or ENGL 2020) and (Computer Proficiency or INFO 2100 or DGM 2100)
Introduces the field of information systems and technology. Teaches the general business manager how to use and manage the most current information technologies (IT). Studies the Internet, Intranets, and Extranets for electronic commerce and enterprise collaboration. Examines business cases demonstrating IT contributions to competitive advantage, reengineering business processes, and decision making.

INFO 3400 (Cross-listed with TECH 3430) Project Management 3:3:0 Su, F, Sp
- Prerequisite(s): Computer Literacy and (TECH 3000 or INFO 3430)
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 Design 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 3520 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 2660 or INFO 3660. 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, VoS, 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.
addresses hardware and network requirements for implementing ERP systems. Develops a simple prototype enterprise system complete with workflow automation using a popular ERP system.

INFO 4550 Senior Project
3:3:0 F, Sp
- Prerequisite(s): INFO 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
3:3:0 F, Sp
- Prerequisite(s): Department Approval
Provides exposure to emerging technologies and topics of current interest in information systems and technology. Varies each semester depending upon the state of technology. May apply a maximum of six hours toward graduation.

INFO 481R Internship
1 to 8:0:5 to 40 Su, F, Sp
- 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 Department 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 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. 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 Su, F, Sp
- 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.

INFO 4990
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 course work. Requires and facilitates a major research project. Addresses the theoretical and practical problems of interdisciplinary research and writing. Requires participation in peer review groups and in-class presentations.

INFO 5000
Interdisciplinary Studies Capstone
3:3:0
- Prerequisite(s): Senior status
For students nearing completion of an Interdisciplinary Studies minor. Provides an opportunity for students to synthesize their interdisciplinary course work. Requires and facilitates a major research project. Addresses the theoretical and practical problems of interdisciplinary research and writing. Requires participation in peer review groups and in-class presentations.
**JPNS—JAPANESE**

**JPNS 1010**
Beginning Japanese I
5:5:1 F, Sp; DE
LH
Covers basic pronunciation and grammar, simple conversation and Hiragana and Katakana reading and writing.

**JPNS 1020**
Beginning Japanese II
5:5:1 F, Sp
LH
Prerequisite(s): Students need equivalent knowledge of JPNS 1010
Studies second-semester conversation. Includes culture study as well as speaking and listening with an appropriate degree of reading and writing.

**JPNS 2010**
Intermediate Japanese I
5:5:1 F
LH
Prerequisite(s): Students need equivalent knowledge of JPNS 1020
Reviews and builds upon the grammar, reading, writing, and conversation skills learned in the first year courses. Emphasizes Kanji. Introduces readings and discussions on the history, culture, and literature of the Japanese world, maintaining a focus on oral proficiency.

**JPNS 2020**
Intermediate Japanese II
3:3:0 Sp
HH
Prerequisite(s): Students need equivalent knowledge of JPNS 2010

**JPNS 211R**
Conversational Japanese
2:2:1 On Sufficient Demand
Prerequisite(s): Students need equivalent knowledge of JPNS 1020
Emphasizes conversation in different real-life situations. Focuses on related vocabulary and structures. Introduces a variety of readings and multimedia materials and promotes oral proficiency. A maximum of four hours may apply toward graduation. Recommended to be taken simultaneously with JPNS 2010 or JPNS 2020.

**JPNS 3050**
Advanced Japanese
3:3:0 F
Prerequisite(s): Students need equivalent knowledge of JPNS 2020
For non-native Japanese speakers who have attained a fairly good mastery of basic Japanese and some Kanji reading skills. Focuses on the development of all language skills with emphasis on grammar review, reading and writing. Overviews Japanese culture and introduces Japanese literature.

**JPNS 3200**
Business Japanese
3:3:0 Sp
Prerequisite(s): JPNS 3050
For those who plan to pursue careers in international business or related fields, learn the business language for Japanese and understand related cultural protocol in Japanese society. Prepares students to take the Business Japanese Proficiency

**LANG—LANGUAGES**

**LANG 1000**
English Literacy for Deaf Students
5:5:0 On Sufficient Demand
Prerequisite(s): Deaf students fluent in American Sign Language
Individually tailored English course taught entirely in ASL. Covers a variety of topics to prepare Deaf students for entrance to courses satisfying college English requirements. Topics of study, which vary by semester and by student need, include grammar, usage, reading comprehension and analysis, sentence construction, paragraph composition, and thematic approaches to writing. Uses students’ experience with American Sign Language and Deaf culture as the basis for instruction in English as a Second Language.

**LANG 281R**
Language Internship
1 to 8:0:5 to 40
Prerequisite(s): Department approval
Provides supervised, practical, and professional experience for students preparing for careers related to languages. May be repeated for a maximum of eight credit hours.

**LANG 291R**
Independent Study
1 to 3:0 to 12
Prerequisite(s): DGM 2010
Designed primarily for students who will travel or live in a foreign country for a period of time and want to participate in an instructor-directed academic experience worthy of one to three hours of credit. May also be used similarly for directed studies, either on or off campus, dealing with a foreign language or culture.

**LANG 3000**
Cross-listed with: ANTH 3000)
Language and Culture
3:3:0 F, Sp
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.

**LEGL—LEGAL STUDIES**

**LEGL 1000**
Law and the Paralegal
3:3:0 F, Sp
Prerequisite(s): Departmental Approval
Required for Paralegal majors. Studies educational training, job skills, and personal qualities needed to become a successful Paralegal. Examines the structure of the American court system, alternative dispute resolutions, administrative law, civil and criminal law and procedures, legal research, analysis and writing.

**LEGL 1010**
Survey of Law
3:3:0 On Sufficient Demand
Covers the history and development of present-day law practice, including specialized areas of practice. Completers should be able to describe the American court system, know and use legal vocabulary, have a basic understanding of different substantive areas of law.

**LEGL 1110**
Civil Litigation and Preparation
4:4:0 F, Sp
Prerequisite(s): LEGL 1000, ENGL 1010
Overviews court system, emphasizing the Utah State Courts, civil procedural and evidentiary rules, and stages of civil litigation. Emphasizes the paralegal’s role in investigation, preparation, and resolution of lawsuits.

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### Course Descriptions

**LEGL 1220**
**Legal Research in the Library**
3:3:0  
- **F, Sp**  
- Prerequisite(s): ENGL 1010, LEGL 1000  
- Corequisite(s): LEGL 1110

Familiarizes students with the law library. Provides instruction in the variety, use, and interrelationships of basic legal research materials and methodology. Emphasizes manual legal research methods. Uses primary and secondary legal research sources. Minimum of C+ required for graduation.

**LEGL 2000**
**Culture of Law**
2:2:0  
- **F**

Survey course that discusses the impact of earning a law degree; professional options open to a JD; and how to manage one’s career; through lectures on pertinent issues, opportunities to interview lawyers, by film, speakers sharing their experience about different aspects of their career, opportunities to read and write on legal issues.

**LEGL 2180**
**Administrative Law and Advocacy**
3:3:0  
- **Sp**

Prerequisite(s): LEGL 1000 and LEGL 1110  
Covers the Administrative Procedure Act of 1946 and the role, purpose, rules, regulations, procedures and authority of administration agencies. Identifies the route for review of administrative decisions. Includes lecture and out-of-class projects.

**LEGL 2190**
**Legal Ethics**
2:2:0  
- **Sp, F**

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.

**LEGL 2300**
**Computerized Legal Research**
3:3:0  
- **F, Sp**

Prerequisite(s): LEGL 1220, DGM 2010  
Covers legal analysis, a research plan development and database, computerized legal research, and legal writing. Includes case briefing and writing internal and external legal memoranda. Minimum of C+ grade required for graduation. Prepares students for WEST LAW and LEXIS certification.

**LEGL 2330**
**Computer Applications in Law**
3:3:0  
- **F, Sp**

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 be qualified to work in jobs requiring case management and automated litigation support.

**LEGL 2410**
**Law and Banking**
2:2:0  
- **On Sufficient Demand**

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.

**LEGL 281R**
**Internship**
1 to 8:0:5 to 40  
- **Su, F, Sp**

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.

**LEGL 290R**
**Law Society**
1:1:0  
- **F, Sp**

Elective credit for students interested in law or law-related professions. Provides a program of activity relating to current legal issues, encouraging social awareness and developing law and civic consciousness. Students arrange for guest speakers from the legal and criminal justice professions to present information concerning their professions. Teaches leadership skills by serving on committees. Pass/Fail grade issued. Paralegal majors and criminal justice majors may repeat this course for a total of three elective credits towards graduation.

**LEGL 3000**
**Business Law**
3:3:0  
- **Su, F, Sp; DE**

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.

**LEGL 3020**
**Cyber Law**
3:3:0  
- **On Sufficient Demand**

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 out-of-class assignments.

**LEGL 3050**
**Business Associations**
3:3:0  
- **F**

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.

**LEGL 3090**
**Intellectual Property Law**
3:3:0  
- **Sp**

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.

**LEGL 3100**
**Hospitality Law**
3:3:0  
- **F**

Prerequisite(s): ENGL 2010 or ENGL 2020  
Teaches rights and responsibilities that the law grants to or imposes upon a hotelkeeper, and illustrates the possible consequences of failure to satisfy legal obligations. Explains the issues surrounding the need for individualized security programs; examines a wide variety of security and safety equipment and procedures, and discusses guests safety. Presents a systematic approach to the legal issues affecting human resource management. Includes lecture, case studies, videos, and site visits.

**LEGL 3130**
**Real Estate Principles and Finance**
3:3:0  
- **On Sufficient Demand**

Prerequisite(s): ENGL 2010 or ENGL 2020  
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.

**LEGL 3140**
**Utah Real Estate Law**
3:3:0  
- **On Sufficient Demand**

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.
LEGL 3150 (Cross-listed with: PSY 3150, SW 3150)
Survey of Dispute Resolution
3:3:0 F
• 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.

LEGL 3160 Health Care Law
3:3:0 Sp
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.

LEGL 3210 Interviewing Techniques and Methods
3:3:0 Sp
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.

LEGL 3250 (Cross-listed with: POLS 3250)
Introduction to Law and Politics
3:3:0 F
• 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 F
• 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 F
• Prerequisite(s): LEGL 1000 or COMM 1050 or (PSY 1010 or SOC 1010 or SW 1010)
Prepares students to understand and participate knowledgeable 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: NGMT 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.

LEGL 3650 Torts and Personal Injury Law
3:3:0 Sp
• 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 F
• 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 3800 (Cross-listed with: ACC 4800)
Fraud Examination
3:3:0 On Sufficient Demand
• Prerequisite(s): ACC 2010 and ACC 2020
Introduces accounting and business students to the seriousness of fraud and its impact on business and society. Examines the elements of fraud, detection, prevention, and resolution.

LEGL 3980 Certified Legal Assistant Preparation
3:3:0 Sp
• 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 Sp
• 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 Sp
• 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 Probate and Estates
3:3:0 F
• 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 4150 Contract Law
3:3:0 Sp
• 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 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.

LEGL 4800 (Cross-listed with: ACC 4800)
Fraud Examination
3:0 : 3.0 : 0.0
• Prerequisite(s): ACC 2010 and ACC 2020
Introduces accounting and business students to the seriousness of fraud and its impact on business and society. Examines the elements of fraud, detection, prevention, and resolution.

LEGL 4810 Internship
1 to 8:3:0 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.

**LINE—LINEMAN TECHNOLOGY**

**LINE 1000**
Survey of Lineman Technology
2.2:0
Not 08-09
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, down guys, poles, and conductors.

**LINE 1120**
Residential Wiring
2:1:3
F
For students in Lineman Technology as well as apprentice linemen or journeymen wanting to update their skills. Covers house wiring procedures. Includes basic material, installation, and tools. Studies applicable national electric, state, and local electric code sections. Completers should be able to wire a simple building.

**LINE 1130**
Lineman Applied DC Math
3:3:0
F
For students in Lineman Technology as well as apprentice linemen presently working in the trade. Solving of direct current, series, parallel, and complex circuits using Kirchoff'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 presently working in the trade. 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 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 arrestor 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 electrical safety, hazard tree identification, ropes, knots and climbing. Covers chain saw use and safety, first aid/CPR certification, pesticide applications, pruning standards and how trees grow. Includes hot line school.

**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, chippers 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 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.
### Course Descriptions

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisite(s)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LINE 1530</td>
<td>Lineman Substation Apprentice 2B</td>
<td>On Sufficient Demand</td>
<td>Prerequisite(s): Departmental written approval. Teaches distribution line safety, material handling, bucket truck, power transformer insulator resistance, testing, power transformer turns ratio testing, power transformer oil test and power transformer pressure relay testing. Covers new power transformer inspection and tests, power transformer vacuum dry out and vacuum filling, temperature indicating and testing, and oil reconditioning.</td>
</tr>
<tr>
<td>LINE 1600</td>
<td>Meter Apprentice 1A</td>
<td>On Sufficient Demand</td>
<td>Prerequisite(s): Departmental written approval. For meter apprentices. Teaches basic electrical principles, principles of magnetism, Ohm’s law, resistors, and parallel circuits. Teaches trigonometry and alternating current.</td>
</tr>
<tr>
<td>LINE 1610</td>
<td>Meter Apprentice 1B</td>
<td>On Sufficient Demand</td>
<td>Prerequisite(s): Departmental written approval. For meter apprentices. Teaches math for metering, safety, watt hour meter principles and wire tables.</td>
</tr>
<tr>
<td>LINE 1620</td>
<td>Meter Apprentice 2A</td>
<td>On Sufficient Demand</td>
<td>Prerequisite(s): Departmental written approval. For meter apprentices. Teaches math for metering, safety, watt hour meter principles and wire tables.</td>
</tr>
<tr>
<td>LINE 1630</td>
<td>Meter Apprentice 2B</td>
<td>On Sufficient Demand</td>
<td>Prerequisite(s): LINE 1620 or departmental written approval. For meter apprentices. Teaches single phase meter application and installation, polyphase power systems, polyphase meter application, meter testing and calibration. Covers instrument transformers, testing single phase transformer rated meters and Blondel’s theorem.</td>
</tr>
<tr>
<td>LINE 2010</td>
<td>Lineman Apprentice 3A</td>
<td>F, Sp</td>
<td>Prerequisite(s): Departmental written approval. For lineman training technology apprentices. Includes basic electrical principles, principles of magnetism, Ohm’s law, resistors, and parallel circuits. Teaches trigonometry and alternating current.</td>
</tr>
<tr>
<td>LINE 2020</td>
<td>Lineman Apprentice 3B</td>
<td>F, Sp</td>
<td>Prerequisite(s): Departmental written approval. For lineman training technology apprentices. Includes basic electrical principles, principles of magnetism, Ohm’s law, resistors, and parallel circuits. Teaches trigonometry and alternating current.</td>
</tr>
<tr>
<td>LINE 2030</td>
<td>Lineman Apprentice 4A</td>
<td>F, Sp</td>
<td>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.</td>
</tr>
<tr>
<td>LINE 2040</td>
<td>Lineman Apprentice 4B</td>
<td>F, Sp</td>
<td>Prerequisite(s): Departmental written approval. For lineman training technology apprentices. Introduces voltage regulators, consumer relations, cable fault locations, and transformers. Teaches troubleshooting, circuit breakers, capacitors and reactors.</td>
</tr>
<tr>
<td>LINE 2310</td>
<td>Powerline Technician and Safety Code I</td>
<td>F</td>
<td>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.</td>
</tr>
<tr>
<td>LINE 2320</td>
<td>Industrial Wiring</td>
<td>F</td>
<td>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 substations 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.</td>
</tr>
<tr>
<td>LINE 2330</td>
<td>Single and Polyphase Metering</td>
<td>F</td>
<td>Prerequisite(s): LINE 1110, LINE 1130, LINE 1210, and LINE 1230 or departmental approval. For 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. Teaches troubleshooting and installation of proper single and three-phase meters to meet customer needs.</td>
</tr>
<tr>
<td>LINE 2340</td>
<td>Three-Phase Lines and Safety</td>
<td>F</td>
<td>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 be able to work safely and effectively on all types of energized work with rubber gloves.</td>
</tr>
<tr>
<td>LINE 2410</td>
<td>Powerline Technician and Safety Code II</td>
<td>Sp</td>
<td>Prerequisite(s): LINE 1210 and LINE 2310 or departmental approval. For Lineman Technology majors and apprentice linemen currently working in the line, fence and electrical installation, and work methods. Includes basic knowledge of first aid, basic electricity, power line installation, and 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.</td>
</tr>
<tr>
<td>LINE 2430</td>
<td>Substation Equipment</td>
<td>Sp</td>
<td>Prerequisite(s): LINE 1110, LINE 1210, and LINE 2310 or departmental approval. For Lineman Technology majors or apprentice linemen working in the line. Studies substation site design, selecting equipment according to existing load requirements, the equipment used and purposes, and the different types of substation construction. Uses lecture and field trips to establish established substation sites, video tapes, and hands-on work at the outdoor lab.</td>
</tr>
<tr>
<td>LINE 2440</td>
<td>High Voltage Substation and Safety</td>
<td>Sp</td>
<td>Prerequisite(s): LINE 1240 and LINE 2340 or departmental approval. For Lineman Technology majors or apprentice linemen working in the line. 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.</td>
</tr>
<tr>
<td>LINE 2500</td>
<td>Lineman Substation Apprentice 3A</td>
<td>On Sufficient Demand</td>
<td>Prerequisite(s): Departmental written approval. For lineman training technology apprentices. Includes basic electrical principles, principles of magnetism, Ohm’s law, resistors, and parallel circuits. Teaches trigonometry and alternating current.</td>
</tr>
<tr>
<td>LINE 2510</td>
<td>Lineman Substation Apprentice 3B</td>
<td>On Sufficient Demand</td>
<td>Prerequisite(s): Departmental written approval. For lineman training technology apprentices. Includes basic electrical principles, principles of magnetism, Ohm’s law, resistors, and parallel circuits. Teaches trigonometry and alternating current.</td>
</tr>
</tbody>
</table>
Course Descriptions

LINE 2520  
Lineman Substation Apprentice 4A  
6:6:0  
On Sufficient Demand  
- Prerequisite(s): Departmental written approval  
Teaches SF6 gas properties and handling, current transformer testing 1 and 2, vacuum bottle hi-pot testing, infrared conditioning monitoring, corona discharge testing. Covers multimeter operation and use, instrument transformers, reactive metering concepts, SCADA-system protection and monitoring (Provo), and cable terminations.

LINE 2530  
Lineman Substation Apprentice 4B  
6:6:0  
On Sufficient Demand  
- Prerequisite(s): Departmental written approval  
Teaches safety in transmission and distribution maintenance, safety in substations and switchingyards continued, transformers 1, use of electrical test equipment, distribution line safety, power transformer turns ratio testing, power transformer temperature indicating testing, oil reconditioning. Covers relays 1 and 2 continued, capacitors and reactors continued, new circuit breakers inspections and tests continued.

LINE 2600  
Meter Apprentice 3A  
6:6:0  
On Sufficient Demand  
- Prerequisite(s): LINE 1630 or departmental written approval  
For meter apprentices. Teaches self contained polyphase meter testing, polyphase transformer rated application. Covers demand metering concepts.

LINE 2610  
Meter Apprentice 3B  
6:6:0  
On Sufficient Demand  
- Prerequisite(s): LINE 2600 or departmental written approval  
For meter apprentices. Teaches testing and calibrating demand meters, meter mounting devices and test switches. Covers reactive metering and reactive meter testing.

LINE 2620  
Meter Apprentice 4A  
6:6:0  
On Sufficient Demand  
- Prerequisite(s): LINE 2610 or departmental written approval  
For meter apprentices. Teaches totalizing meters, installation checks and inspections. Covers solid state meters and associated devices. Teaches customer relations.

LINE 2630  
Meter Apprentice 4B  
6:6:0  
On Sufficient Demand  
- Prerequisite(s): LINE 2620 or departmental written approval  
For meter apprentices. Teaches energy diversion, trouble shooting techniques, and pulse initiators and recorders. Covers electronic metering, register programming and computers.

LINE 281R  
Cooperative Work Experience  
1 to 8:0:5 to 40  
- 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  
- 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 0800  
Math Fundamentals  
3:3:0  
- Prerequisite(s): Appropriate test scores  
Reviews whole number operations and covers fractions, prime factorization, greatest common factors, and least common multiples. Covers basic operations involving decimals, percents, ratios, and proportions. Includes the basic operations involving measurement and geometry. Introduces basic algebraic operations.

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 0950  
Foundations for Algebra  
5:5:0  
- Prerequisite(s): One of the following: Appropriate test scores taken within the last two years or MAT 0800 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. A preparatory course for MAT 0990, Introductory Algebra.

MAT 0960  
Special Topics in Math--Nursing  
2:2:0  
On Sufficient Demand  
- Prerequisite(s): Completion of MAT 0800 (C- or better) or appropriate test scores  
Prepares students to successfully perform calculations of dimensional analysis required in administering medications. Includes Properties of Real Numbers, Prime factorization, operations with whole numbers, fractions, and decimals, rounding, ratios, proportions, percents systems of measurements, reading and interpreting measurement data on labels and orders, problems-solving strategies, and dimensional analysis.

MAT 0980  
Integrated Pre-Algebra and Beginning Algebra  
5:5:0  
- 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 0990  
Introductory Algebra  
4:4:0  
- Prerequisite(s): One of the following: MAT 0950 or MAT 0980 with a grade of C- or better and taken within the last two years; or appropriate math placement test scores that are no more than two (2) years old  
For students who have completed a minimum of one year of high school algebra or who lack a thorough understanding of basic algebra principles. Teaches integers, solving equations, polynomial operations, factoring polynomials, systems of equations and graphs, rational expressions, roots, radicals, complex numbers, quadratic equations and the quadratic formula. Prepares students for MAT 1010, Intermediate Algebra.

MAT 1000  
Integrated Beginning and Intermediate Algebra  
5:5:0  
- 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 grade of C- or better and taken during 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; exponentials; graphing; and problem solving. Prepares students for MATH 1030, 1040, and 1050.

MAT 1010  
Intermediate Algebra  
4:4:0  
- 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 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); recommended placement by the COMPASS test

Introduces major topics in the field of mathematics. Includes sets, algebra, geometry, and statistics.

MATH 1040 Introduction to Statistics
3:3:0 Su, F, Sp
- Prerequisite(s): One of the following: MAT 1000 or MAT 1010 with a grade of C or better within the past two years; an ACT mathematics score of 23 (assuming the test has been taken within the last two years); recommended placement by the COMPASS 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 Su, F, Sp; DE
- 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); recommended placement by the COMPASS 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 Su, F, Sp
- Prerequisite(s): MATH 1050 with a grade of C or better within the past two years or recommended placement by the COMPASS 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 Su, F, Sp
- Prerequisite(s): MATH 1050 with a grade of C or better within the past two years or recommended placement by the COMPASS 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 Su, F, Sp
- Prerequisite(s): One of the following: MATH 1050 and MATH 1060, each with a grade of C or better within the past two years; MATH 1065 with a grade of C or better within the past two years; recommended placement by the COMPASS 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; recommended placement by the COMPASS 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 Su, F, Sp
- Prerequisite(s): MATH 1210 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 122H Calculus II
5:5:0 F, Sp
- Prerequisite(s): MATH 1210 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 1210 Mathematics for Elementary Teachers I
3:3:0 Su, F, Sp
- Prerequisite(s): MATH 1050 with a grade of C or better within the past two years or recommended placement by the COMPASS test (taken within the past two years)

Includes problem solving, sets, numeration systems, arithmetic of integers, rational numbers, real numbers, elementary number theory, ratios, decimals, and percents.

MATH 2020 Mathematics for Elementary Teachers II
3:3:0 Su, F, Sp
- Prerequisite(s): MATH 1050 with a grade of C or better within the past two years or recommended placement by the COMPASS test (taken within the past two years)

Includes the basic concepts of statistics, geometry, and measurement.

MATH 2040 Principles of Statistics
4:4:0 Su, F, Sp
- Prerequisite(s): MATH 1050 with a grade of C or better within the past two years or recommended placement by the COMPASS 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 Su, F, Sp
- Prerequisite(s): MATH 1220 with a grade of C or better

Includes partial derivatives, gradient vectors, Lagrange multipliers, multiple integrals, line integrals, Green’s Theorem, surface integrals, the Divergence Theorem, and Stokes’ Theorem.

MATH 221H Calculus III
3:3:0 F, Sp
- Prerequisite(s): MATH 1220 with a grade of C or better

Includes partial derivatives, gradient vectors, Lagrange multipliers, multiple integrals, line integrals, Green’s Theorem, surface integrals, the Divergence Theorem, and Stokes’ Theorem.

MATH 2270 Linear Algebra
3:3:0 F, Sp
- Prerequisite(s): MATH 1220 with a grade of C or better

Includes matrices and systems of equations, determinants, vector spaces, linear transformations, orthogonality, and eigenvalues and eigenvectors.

MATH 2280 Ordinary Differential Equations
3:3:0 F, Sp
- Prerequisite(s): MATH 2210 with a grade of C or better

## Course Descriptions

### 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 F  
- Prerequisite(s): MATH 2210 with a grade of C or better  
Provides a survey of the history of mathematics.

### MATH 3010
Methods of Secondary Mathematics Teaching 3:3:0 F  
- Prerequisite(s): MATH 2210 with a grade of C or better  
For Mathematics Education majors. Presents different methods of teaching mathematical ideas at the secondary school level. Includes classroom instruction, student presentations, and field experiences. Studies various techniques of assessment and classroom management.

### MATH 3020
Computer-Based Mathematics for Secondary School Mathematics Teachers 3:3:0 F  
- Prerequisite(s): MATH 2210 and MATH 2270, each with a grade of C or better  
For Mathematics Education majors. Presents one or more popular mathematical computer software packages. Includes mathematical problem solving and presentations of mathematical concepts using a computer as an aid. Introduces an appropriate programming language.

### MATH 3100
Foundations of Geometry 3:3:0 F  
- Prerequisite(s): MATH 1220 with a grade of C or better  
Offers an axiomatic development of Euclidean and non-Euclidean geometries.

### MATH 3200
Foundations of Analysis 3:3:0 Sp  
- Prerequisite(s): MATH 2210, MATH 2270, and MATH 2280, each with a grade of C or better  
Introduces the construction of rigorous proofs of mathematical claims in the context of beginning analysis.

### MATH 3210
Complex Variables 3:3:0  
- Prerequisite(s): MATH 2210 with a grade of C or better  
Includes the algebra of complex numbers, analytic functions, mapping properties of elementary functions, the Cauchy integral formula, residues, and conformal mapping.

### MATH 3300
Foundations of Abstract Algebra 3:3:0 Sp  
- Prerequisite(s): MATH 2210 and MATH 2270, each with a grade of C or better  
Offers an introduction to algebraic structures. Includes groups, rings, integral domains, fields.

### MATH 3400
Partial Differential Equations 3:3:0 On Sufficient Demand  
- Prerequisite(s): MATH 2280 with a grade of C or better  
Includes Bessel functions, Legendre polynomials, Fourier analysis, partial differential equations, and boundary-value problems.

### MATH 4000
Introduction to Probability 3:3:0 F  
- Prerequisite(s): MATH 2210 with a grade of C or better  
Includes random variables, distributions, moments, limit theorems.

### MATH 4210
Advanced Calculus I 3:3:0 On Sufficient Demand  
- Prerequisite(s): MATH 3200 with a grade of C or better  
Provides a rigorous development of single-variable calculus. Includes sequences and series, continuity and differentiation, the Riemann integral, sequences of functions.

### MATH 4220
Advanced Calculus II 3:3:0 On Sufficient Demand  
- Prerequisite(s): MATH 4210 with a grade of C or better  
Provides a rigorous development of multivariable calculus. Includes partial derivatives, the Inverse Function Theorem, the Implicit Function Theorem, multiple integrals, line and surface integrals, Green’s Theorem, and Stokes’ Theorem.

### MATH 4310
Introduction to Modern Algebra I 3:3:0 On Sufficient Demand  
- Prerequisite(s): MATH 3300 with a grade of C or better  
First course of a two-semester sequence that covers groups, rings, integral domains, and fields.

### MATH 4320
Introduction to Modern Algebra II 3:3:0 On Sufficient Demand  
- Prerequisite(s): MATH 4310 with a grade of C or better  
A continuation of MATH 4310.

### MATH 4330
Theory of Linear Algebra 3:3:0 On Sufficient Demand  
- Prerequisite(s): MATH 3300 with a grade of C or better  
Presents a theoretical treatment of vector spaces, linear transformations, and inner product spaces.

### MATH 4340
Introduction to Number Theory 3:3:0 On Sufficient Demand  
- Prerequisite(s): MATH 1220 with a grade of C or better  
Includes divisibility, prime numbers, unique factorization, congruences, and quadratic reciprocity.

### MATH 4500
Introduction to Topology 3:3:0 On Sufficient Demand  
- Prerequisite(s): MATH 4220 with a grade of C or better  
Includes topological spaces and continuity, connectedness, compactness, metric spaces, and the separation axioms.

### MATH 4610
Introduction to Numerical Analysis I 3:3:0 On Sufficient Demand  
- Prerequisite(s): MATH 2210, MATH 2270, and MATH 2280, each with a grade of C or better, and an approved programming language  
Includes numerical solutions of equations in one variable, interpolation and polynomial approximation, numerical solutions of linear systems of equations, and approximating eigenvalues.

### MATH 4620
Introduction to Numerical Analysis II 3:3:0 On Sufficient Demand  
- Prerequisite(s): MATH 4610 with a grade of C or better  
Includes numerical differentiation and integration, numerical solutions of initial-value problems and boundary-value problems for ordinary differential equations, numerical solutions of partial differential equations, and approximation theory.

### MATH 481R
Internship in Mathematics 1 to 4:0:5 to 20  
- 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—Mechatronics Engineering Technology

### MECH 2070
Introduction to Mechatronics 3:3:0  
- Prerequisite(s): ECT 1210, CS 2810  
Introduces the design of computer controlled electromechanical systems. Uses electronic and
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<tr>
<td>MET 2520</td>
<td>Programmable Logic Controllers 3:3:0</td>
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<tr>
<td>MET 3170</td>
<td>Mechatronics Foundations 3:3:0</td>
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<td>MET 1100</td>
<td>Introduction to Manufacturing Engineering Technology 3:2:2 F, Sp</td>
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<td>MET 1300</td>
<td>Drafting/Blueprint Reading/Geometric Dimensioning and Tolerancing 2:1:3 F, Sp</td>
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<td>MET 1350</td>
<td>Related Machine Shop Practice 2:1:3 F, Sp</td>
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<td>MET 1400</td>
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<td>MET 1500</td>
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<td>MET 2300</td>
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<td>MET 2400</td>
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<td>MET 2450</td>
<td>Manufacturing Systems and Quality 3:3:0 F, Sp</td>
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<tr>
<td>MET 2500</td>
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<td>MET 295R</td>
<td>Current Topics in Manufacturing Engineering Technology 1 to 4:1 to 4:0 to 6 F, Sp</td>
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<tr>
<td>MET 1010</td>
<td>Introduction to Meteorology 3:3:0 Su, F, Sp; DE</td>
</tr>
<tr>
<td>MET 1020</td>
<td>Introduction to Meteorology Laboratory 1:0:2 F</td>
</tr>
</tbody>
</table>

**Course Descriptions**

**MET—MANUFACTURING ENGINEERING TECHNOLOGY**

**MET 1100**
Introduction to Manufacturing Engineering Technology 3:2:2 F, Sp

Introduces technological directions of manufacturing, wage scales, advancement opportunities, and job-hunting skills in students' preferred manufacturing field. May include guest speakers, field trips, and labs.

**MET 1300**
Drafting/Blueprint Reading/Geometric Dimensioning and Tolerancing 2:1:3 F, Sp

Studies mechanical and structural blueprint reading as it applies to the manufacturing environment. Teaches dimensioning and tolerancing, including the symbols and terms, datums, material condition symbols, form and profile, orientation and runout, and location. Includes lab.

**MET 1500**
Hydraulics and Pneumatics 3:2:3

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 principles of material 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 2300**
Production Scheduling 2:2:0 F

Prepares student to plan, schedule, organize and direct the manufacturing functions of a company. Includes tool and production planning. Examines the characteristics, dependencies and factors which affect these functions. Students are prepared to plan for specific periods both long and short-term, to use lead time, shop order files, dispatch lists, priority ranking and status reports.

**MET 2400**
Manufacturing Processes 3:2:9 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 2450**
Manufacturing Systems and Quality 3:3:0 F, Sp

- For students desiring an advanced course in the organization and operation of the modern manufacturing company. Focuses on quality in manufacturing.

**MET 2500**
Computer Numerical Control and Automation 3:2:3 Sp

- Prerequisite(s): MET 2400
- Teaches the application of Computer Numerical Control principles to a modern manufacturing facility.

**MET—METEOROLOGY**

**MET 1010**
Introduction to Meteorology 3:3:0 Su, F, Sp; DE

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.

**MET 1020**
Introduction to Meteorology Laboratory 1:0:2 F

Provides hands-on experience for students investigating various meteorologic phenomena.
Course Descriptions

discussed in METO 1010. Students desiring credit for a science major should take METO 1010 and METO 1020.

METO 3100
Climate and the Earth Systems
3:3:0
- Prerequisite(s): CHEM 1110 or 1210, MATH 1050 and GEO 1010
For students interested in understanding the Earth's dynamic environment. Studies the four major Earth systems that constitute the environment: the lithosphere, hydrosphere, atmosphere, and biosphere. Investigates the interdependency of these systems. Explores global warming, ozone depletion, the green house effect, Earth's energy balance and other environmental concerns and discusses important environmental cycles.

MGMT—BUSINESS MANAGEMENT

MGMT 1010
Introduction to Business
3:3:0
Su, F, Sp; DE
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 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.

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 Rho Lambda 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
- Prerequisite(s): ENGH 0990 or equivalent knowledge
For all those desiring to improve business English skills. Studies current usage of English grammar, including parts of speech, syntax, and punctuation. Emphasizes business usage.

MGMT 1250
Principles of Leadership
3:3:0
F, Sp
Required course for integrated studies degree students with an emphasis in leadership. Overviews principles of leadership. Provides students with information on successful leadership styles. Includes lectures, videos, cases, group activities, and class discussion.

MGMT 126R
Leadership Academy—No Greater Heroes I
2:1:3
On Sufficient Demand
Assists in mastery of the key communication skills, beliefs, and physiology of truly successful people. Utilizes a behavioral model with specific strategies to produce extraordinary results on a consistent basis. Helps students take intelligent action toward producing outstanding results in life. Assists in learning to condition mind and body to consistently react with power and focus in situations. Provides life experiences to demonstrate resolve. Provides opportunities to make a difference in another person's life. May be repeated one time for credit for a maximum of 4 credits. (BS Business Management majors may count 2 credits toward degree elective credits.)

MGMT 127R
Leadership Academy—No Greater Heroes II
2:1:3
On Sufficient Demand
- Prerequisite(s): MGMT 126R
Emphasizes the rewards received by those who give extraordinary ways. Produce and use evaluation 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. Includes involvement with the business community. Provides opportunities for leadership positions, committee assignments, participation in school and community activities, and competition in state and national competitive events. Requires payment of local, state, and national dues. Course will be graded on a credit/no credit basis. Can be repeated as many times as desired for interest.

MGMT 182R
Phi Beta Lambda Leadership
1:1:0
F, Sp
For Phi Beta Lambda officers. Includes development, organization, and direction of the PBL program of work for UVU Rho Lambda Chapter. Graded on a credit/no credit basis. May be repeated once for a maximum two credits.

MGMT 2100
Personality Instruments and Business
3:3:0
On Sufficient Demand
Examines the individual personality and identity as it relates to the workplace environment. Provides overview of Color Code, Creating a Climate for Growth, Myers-Briggs, True Colors, and other personality programs. Evaluates personality-induced stressors in the workplace. Provides tools for effective stress reduction through living a principled lifestyle. Identifies processes for internal congruity and ethical behavior. Emphasizes character building modules culminating in a service project.

MGMT 2110
Interpersonal Communication
3:3:0
On Sufficient Demand
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; DE
- Prerequisite(s): Recommended: ENGL 1010 with a grade of "C-" or higher
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 220A
Business Communications
1:1:0
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 220B
Business Communications
2:2:0
On Sufficient Demand
- Prerequisite(s): ENGL 1010 with a grade of "C-" or higher
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 Woodbury School of Business Majors.
### Course Descriptions

**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; DE  
- Prerequisite(s): MATH 1050  
  
For bachelor’s degree business management majors; elective credit for other Woodbury School of Business majors. Studies quantitative tools, which aid in decision making. Teaches use of algebra, mathematical programming, probabilities, and calculus to solve typical business problems. Uses lectures and problem sets to explain concepts.

**MGMT 2250 Job Application and Advancement Skills**  
1:1:0  
On Sufficient Demand; DE  
- 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 2018B or business computer proficiency or Instructor Approval  
  
For students and others interested in developing effective business presentations skills. Teaches students to plan, develop, deliver, and evaluate business presentations using informative and persuasive formats in diverse settings using a variety of media. Provides additional presentation software training.

**MGMT 2450 Principles of Personal Excellence**  
3:3:0  
F, Sp  
  
Introduce students to a holistic framework for the development of personal effectiveness and peak performance. Reviews principles, processes, and practices used by peak performers in many life disciplines. Offers students a chance to apply many practices and techniques, which they can apply within the many performances arenas of their life.

**MGMT 259R Current Topics in International Business**  
1 to 3:1 to 3:0  
On Sufficient Demand  
- Prerequisite(s): Department Chair Approval  
  
Provides exposure to emerging topics of current interest in international business. Topics vary each semester. May apply a maximum of three hours toward graduation.

**MGMT 259R Current Topics in Marketing**  
1 to 3:1 to 3:0  
On Sufficient Demand  
- Prerequisite(s): Department Chair Approval  
  
Provides exposure to emerging topics of current interest in marketing. Topics vary each semester. May apply a maximum of three hours toward graduation.

**MGMT 2700 Business and Service in Action**  
2:1:3  
On Sufficient Demand  
  
Explores previous business course content with hands-on experience. Provides leadership and service opportunities. Includes lecture, homework, and out-of-class lab time consisting of service-related experiential learning. Completers should have a greater understanding of the business major with practical service experience.

**MGMT 281R Cooperative Work Experience**  
2 to 8:0:10 to 40  
Su, F, Sp  
- Prerequisite(s): Approval from 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. 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 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.

**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**  
3:0  
On Sufficient Demand  
  
Emphasizes factors that impact leadership effectiveness and skill development in organizations. Features lectures on topics such as leadership, participative management, negotiations, team building, and women’s issues by local experts in a seminar setting. Includes group interaction and discussions, written summaries and instructor critique of student performance.

**MGMT 3000 Organizational Behavior**  
3:0  
F, Sp  
- Prerequisite(s): ENGL 1010 or ENGL 1060 or ENGL 106A  
  
Studies behavioral theories and concepts for creating effective organizations. Deals with knowledge of individual, group, and organizational processes and variables focusing on practical application of how people work. 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. Introduces students to the impact of globalization on the management process. Requires students to complete a career exploration and planning 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 3100 Principles of Finance**  
3:3:0  
Su, F, Sp; DE  
- Prerequisite(s): ECON 2020, MGMT 2340, and ACC 2020 or ACC 3000  
  
For bachelor’s degree business management majors. Includes financial management in the business environment, time value of money, working capital policies, and fundamentals of security valuation.
Course Descriptions

Covers dividend policy; options, convertibles, and warrants; leasing, mergers and acquisitions; and a brief overview of international finance.

**MGMT 3150**
Financial Management
3:3:0
- Prerequisite(s): MGMT 3100 and Matriculation into the Business Management Bachelor’s Degree Program
Teaches fundamentals necessary to analyze financial statements, identify management problems, determine causes, and make sound decision. Covers cash flow; vertical, horizontal, and ratio analyses; break even analyses, and profit-volume analyses. Discusses tools of financial management, operating leverage, and projections. Requires a written financial analysis paper.

**MGMT 3170**
Entrepreneurship
3:3:0
- Prerequisite(s): ENGL 1010
Cannot be used as an upper-division elective for the Business management bachelor of science degree. Studies a comprehensive business plan including business strategy, location selection, and building design. Covers market potential, capital requirements, business organization, merchandise buying, and price and service policies. Includes communication policies, accounting and finance procedures, and legal environment. Completers should be able to develop their own business plan.

**MGMT 3180**
Business Formation
3:3:0
- Prerequisite(s): ENGL 1010 or ENGL 1060; MGMT 3170 highly recommended
Provides a real-world experience of taking a business idea to the market with students working in teams under the direction of successful entrepreneurs. Integrates business theory with the challenges of working with others, competing with existing firms, and facing economic issues associated with starting a business.

**MGMT 3190**
Entrepreneurship Financing Adventures
3:3:0
Provides non-business students an overview of financial modeling for entrepreneurship and small business, as well as the sources and processes involved in financing new ventures. Course teaches financial management, proforma financial statements, cash flow, bootstrapping, and debt and equity financing in an entrepreneurial environment.

**MGMT 3200** (Cross-listed with: HM 3210)
Global Tourism
3:3:0
- Prerequisite(s): MGMT 2200 or ENGL 2010 or ENGL 2020
Studies the history and future of tourism, the impacts (environment, culture, economy) of tourism, and tourist behavior. Includes lectures, case studies, field trips, and guest speakers. Completers should be sophisticated travelers and understand the nature of the world’s largest industry and its impacts on society and national economics.

**MGMT 3210** (Cross-listed with: HM 3210)
Convention and Events Management
3:3:0
- Prerequisite(s): ENGL 2010 or ENGL 2020
Analyzes the meeting, convention, and events industry. Covers the various disciplines of planning including site selection, organizing, budgeting, catering, entertainment, and promotion. Introduces career opportunities through guest speakers who are industry professionals.

**MGMT 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.

**MGMT 330G** (Cross-listed with: COMM 330)
Survey of International Business
3:3:0
- 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
- 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 3350**
International Marketing
3:3:0
- 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 339A**
Business and Professional Presentations
1:1:0
On Sufficient Demand
- Prerequisite(s): MGMT 2340 and MGMT 3100 and one of the following: DGM 3820, DGM 2010, DGM 201B, or business computer proficiency or Instructor Approval
For students who have completed MGMT 2390 and need the additional theory, skills, and presentation practice required for upper-division credit. Emphasizes critical thinking and multimedia as students plan, develop, deliver, and evaluate presentations one-on-one and in an auditorium or large-facility setting. Emphasizes interaction with audience members.

**MGMT 3400**
Investment Management
3:3:0
- Prerequisite(s): MGMT 2200 and MGMT 2390
Covers dividend policy; options, convertibles, and warrants; leasing, mergers and acquisitions; and a brief overview of international finance. Covers the various disciplines of planning including site selection, organizing, budgeting, catering, entertainment, and promotion. Introduces career opportunities through guest speakers who are industry professionals.

**MGMT 3430**
Human Resource Management
3:3:0
- 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, con-
Course Descriptions

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<td>MGMT 3450 Operations Management</td>
<td>Principles of Marketing</td>
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<td>Su, F, Sp</td>
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<td>MGMT 3470 Lean Management Systems</td>
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<td>MGMT 3500 Leadership Process</td>
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<td>MGMT 3530 Employment and Law</td>
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<td>MGMT 3550 Organization Development</td>
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<td>MGMT 3600</td>
<td>Services Marketing</td>
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<td>MGMT 3610</td>
<td>Selling and Sales Management</td>
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<td>MGMT 3740</td>
<td>Relationship Marketing</td>
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<tr>
<td>MGMT 3890</td>
<td>Career Preparation</td>
<td>2:2:0</td>
<td>Su, F, Sp</td>
</tr>
</tbody>
</table>

For Bachelor's Degree Business Management majors; elective credit for other Woodbury 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.

Covers employment and labor law, cases, 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.

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.

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.

Includes demonstration, role play, and application exercises.
MGMT 4200  
Opportunity Identification in Entrepreneurship  
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 4100  
Management of Financial Institutions  
3:3:0  Sp  
- Prerequisite(s): MGMT 2340, MGMT 3100 and Matriculation into the Business Management Bachelor’s Degree  
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.

MGMT 4160  
Portfolio Management  
3:3:0  
- Pre- or Corequisite(s): MGMT 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.

MGMT 4170  
Derivative Securities  
3:3:0  
- Prerequisite(s): MGMT 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.

MGMT 4180  
International Finance Management  
3:3:0  Sp  
- Prerequisite(s): MGMT 3100 and MGMT 330G and (MGMT 3150 or MGMT 3400 or MGMT 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.

MGMT 4205  
Entrepreneurship Personal Development  
3:3:0  Sp  
- Corequisite(s): MGMT 4200  
Deals with the personal and interpersonal development of entrepreneurs and other business professionals. Addresses issues and provides specific guidance in such areas as business and personal financial strategies, business and family interpersonal relationships, networking and human resource management strategies, and professional business and self image.

MGMT 4220  
Management Communication  
3:3:0  Sp  
- Prerequisite(s): MGMT 2200 and Matriculation into the Bachelor’s Degree Program  
Studies elements of communication in management. Concentrates on written and oral communication in business settings and includes communicating electronically, managing conflict, and dealing with change.

MGMT 4290  
Individual Action and Corporate Social Responsibility  
3:3:1  On Sufficient Demand  
- Prerequisite(s): MGMT 3010, Matriculation into the BS Management Program, and senior status  
Explores the individual decision-making and leadership that underlies, drives, and shapes corporate social responsibility (CSR). Uses cases grouped around the main three areas of leadership, decision-making, and CSR. Uses primarily film to explore these cases, along with documentaries, trial summaries, congressional and government reports, and newspaper and magazine articles. Covers the basic theory and models of corporate social responsibility, decision making, and leadership; and explores the relationship and dynamics between individual decision making and leadership and corporate or collective social responsibility. Utilizes academic and practitioner articles that explore various aspects of leadership, decision making, and corporate social responsibility. Includes case analysis and reflection; an autobiographical exploration of leadership, decision making, and corporate social responsibility models; and a team project.

MGMT 4300  
Entrepreneurship Business Planning  
3:3:0  Sp  
- Prerequisite(s): MGMT 4200 and Matriculation into the Business Management Bachelor’s Degree Program  
Covers marketing research, accounts receivable management, insurance analysis, and business taxation. Deals with local issues, regulations, statistics, patents, and estate planning. Students write a comprehensive business plan and should be able to competeably manage a small business or start their own with a minimum risk of failure.

MGMT 4400  
New Venture Financing  
3:3:0  On Sufficient Demand  
- Prerequisite(s): MGMT 3150 and Matriculation into the Bachelor’s Degree Program  
Covers advanced concepts and skills in entrepreneurship/small business management. Emphasizes how new and emerging companies are financed. Applies functional tools to case situations.

MGMT 4450  
Entrepreneurship Enterprise Formation  
3:3:0  Sp  
- Prerequisite(s): MGMT 4200 and MGMT 4300  
Applies learning from the entrepreneurship program to the start-up of a working business with students working in teams or individually under the direction of successful entrepreneurs. Integrates business theory with the reality of securing resources, developing product/service and taking it to market.

MGMT 457R  
Advanced Topics in Finance  
3:3:0  
- Prerequisite(s): MGMT 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.

MGMT 458R  
Advanced Topics in International Business  
1 to 3:1 to 3:0  On Sufficient Demand  
- Prerequisite(s): Department Chair Approval  
Provides exposure to emerging topics of current interest in international business. Topics vary each semester. May apply a maximum of six hours toward graduation.

MGMT 459R  
Advanced Topics in Marketing  
1 to 3:1 to 3:0  On Sufficient Demand  
- Prerequisite(s): Department Chair Approval  
Provides exposure to emerging topics of current interest in marketing. Topics vary each semester. May apply a maximum of six hours toward graduation.

MGMT 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, 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,
analyses, oral presentations, written assignments, and guest speakers.

area skills via case analysis and methods while international network of subsidiaries, joint-ventures, instilling strategic management concepts and thinking by multinational corporations (MNCs) as they pursue by MNCs in response to opportunities and 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.

MGMT 4650 Strategic Marketing
3:3:0 Sp
• Prerequisite(s): MGMT 4600 and Matriculation into the Business Management Bachelor's Degree 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; DE
• Prerequisite(s): All core classes, senior standing, and Matriculation into a Woodbury 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 8:0:5 to 40 Su, F, Sp
• Prerequisite(s): Approval from Woodbury 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, MGMT 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 the concepts of scholarly conversation, managing scholarship, choosing a topic, identifying appropriate journals, using exemplars, creating a title and abstract, making an outline, developing an introduction and conclusion, writing the body of the paper, and then revising, submitting, and finally publishing in a scholarly journal.

Course Descriptions

MICR 2060 Microbiology for Health Professions
4:3:2 Su, F, Sp
• Prerequisite(s): BIOL 1010 or BIOL 1610, ENGL 1010 or an assessment DRP score of 77 or above required. CHEM 1110 highly recommended. Studies the history of microbiology. Explores bacterial, fungal, parasitic, and viral diseases and their causes. Discusses the classification, physiology, genetics, and physical and chemical control of microbes. Emphasis is on clinical applications. Designed for those planning a career in the health professions such as nursing, dental hygiene, medicine, pharmacy, and dentistry. Includes weekly laboratory.

MICR 3200 Emerging and Re-Emerging Diseases and Zoonoses
3:3:0 On Sufficient Demand
• Prerequisite(s): BIOL 1620 and (MICR 2060 or MICR 3450)

Utilizes the most current infectious disease entities as examples for new (emerging) or old (re-emerging) diseases currently affecting mankind. Also discusses zoonotic diseases (those transmissible from animals to humans and vice-versa) in detail. Emphasizes the underlying mechanisms of disease, and includes fundamental aspects of virology, bacteriology, and parasitology. Also covers fundamental concepts in epidemiology, how the public health system deals with these diseases once they have been identified and instances where the public health system has failed in controlling these diseases and the reasons for these failures. Investigates historical aspects of infectious diseases. Requires a written paper and a presentation on the disease entity of the student's choosing.

MICR 3450 General Microbiology
4:3:2 F, Sp
• Prerequisite(s): BIOL 1620 and BIOL 3400 and CHEM 1220 required, BIOL 3500 and BIOL 3600 recommended Covers taxonomy, physiology and genetics of prokaryotes (bacteria, archaea), viruses and eukaryotic pathogens. Introduces industrial microbiology, biotechnology, and immunology and the biochemical basis of infectious diseases. Designed for biology majors who desire an in-depth coverage of microbiology. Includes weekly laboratory.

MICR 4300 Pathogenic Microbiology
4:3:2 Sp
• Prerequisite(s): MICR 3450 or MICR 2060 with instructor consent Discusses fundamentals of immune mechanisms, pathogenesis, replication, and infection. Explores bacterial, viral, fungal, protozoan, and helminth
### MILS—MILITARY SCIENCE

**MILS 1200**

Introduction to Leadership Excellence I 2:2:0  
- Prerequisite(s): MILS 1200 or Department Approval  
- Corequisite(s): MILS 145R  
  Presents historical overview and development of military value systems and philosophies. Studies individual leadership styles, organization and time management, and writing skills. Includes ethics and code of an officer, role of an officer in the military, drill and ceremonies, fire team tactics, map reading, and basic rifle marksmanship. Lab required.

**MILS 1210**

Introduction to Leadership Excellence II 2:2:0  
- Prerequisite(s): MILS 1200 or Department Approval  
- Corequisite(s): MILS 145R  
  Compares and analyzes leadership styles found in the U.S. Army, as well as business, academic, and government organizations. Studies Army organization, active and re-serve forces; winter survival, advanced fire-team and aggressor tactics. Lab required.

**MILS 143R**

Military Fitness 1:0:3  
F, Sp  
  For Army ROTC students and all other interested students. Uses the Army Physical Fitness Test to evaluate the student’s performance and improvement in the areas of flexibility, strength, and endurance. Includes instruction in foot care and road marching techniques. Repeats are required. See advisor for details.

**MILS 145R**

Introduction to Leadership Dynamics and Techniques 1:0:3  
F, Sp  
- Prerequisite(s): Department Approval  
  Leadership lab for UVU Army ROTC students and other students interested in the study of leadership. Studies the dynamics of leadership of groups and individuals in various environments. Provides opportunities for students to apply leadership principles and techniques in challenging situations and conditions. Required lab for students enrolled in UVU Military Science 1000- and 2000-level classes. Students not enrolled in Army ROTC may take this class up to six credits with department approval.

**MILS 2200**

Advanced Organizational Leadership I 2:2:0  
- Prerequisite(s): MILS 1210 or Dept. Approval  
- Corequisite(s): MILS 245R  
  Builds on skills and fundamentals learned in MILS 1200 and 2210. Studies the dynamics of leadership of groups and individuals in a field environment. Provides opportunities for students to apply leadership principles and techniques in challenging situations to further prepare them for leadership positions in the military or any career field they choose.

**MILS 2210**

Advanced Organizational Leadership II 2:2:0  
- Prerequisite(s): MILS 2200 or Dept. Approval  
- Corequisite(s): MILS 245R  
  Builds on skills and fundamentals learned in MILS 2200 and 1210. Studies the dynamics of leadership of groups and individuals in a field environment. Provides opportunities for students to apply leadership principles and techniques in challenging situations to further prepare them for leadership positions in the military or in any career field they choose.

**MILS 245R**

Leadership Studies 1:0:3  
F, Sp  
- Prerequisite(s): MILS 145R or instructor approval  
  Studies the dynamics of leadership of groups and individuals in a field environment. Provides opportunities for students to apply leadership principles and techniques in challenging situations to further prepare them for leadership positions in the military or in any career field they choose. May be repeated for up to four credits with departmental approval.

**MILS 3200**

Small Unit Leadership I 3:3:0  
- Prerequisite(s): MILS 2210  
- Corequisite(s): MILS 345R  
  Prerequisite to attendance at National Advanced Leadership Camp. Prepares for successful completion of camp. Studies land navigation, squad and platoon tactics, combat operations, physical fitness, and physical leadership. Lab required.

**MILS 3210**

Small Unit Leadership II 3:3:0  
- Prerequisite(s): MILS 3200  
- Corequisite(s): MILS 345R  
  Prerequisite to attendance at National Advanced Leadership Camp. Prepares for successful completion of camp. Studies land navigation, squad and platoon tactics, combat operations, physical fitness, and physical leadership. Lab required.

**MILS 345R**

Advanced Leadership Dynamics and Techniques 1:0:3  
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.

**MILS 4200**

The Profession of Arms I 3:3:0  
- Prerequisite(s): Departmental Approval  
- Corequisite(s): MILS 445R  
  Prepares the prospective officer for initial training and subsequent assignment into the U.S. Army. Includes overview of U.S. Army training management, military writing, administration, logistics, professionalism, and ethics. Lab required.

**MILS 4210**

The Profession of Arms II 3:3:0  
- Prerequisite(s): MILS 4200 or Departmental Approval  
- Corequisite(s): MILS 445R  
  Prepares the prospective officer for successful completion of Army assignments. Includes advanced U.S. Army leadership training, training management, military justice and law, pre-commissioning orientation, military briefing skills, and junior officer leadership.

**MILS 445R**

Transition to Officiership 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 theoretical 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
4:0:0 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 120, 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 machines, 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 120, 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 2330 Introduction to CNC
5:2:9 F, Sp
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 2430 CNC Operations
5:2:9 F, Sp
- Prerequisite(s): MTT 2330
For students who want to enhance their programming and operating skills. Reviews different manufacturing materials and cutting process. Studies industrial CAM software and the process of Computer Aided Manufacturing. Emphasizes fixtureing and basic machine setups. 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 pierce 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—Music

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
Explores diverse music throughout the world. Studies melody, harmony, form, and rhythm in international historical and cultural contexts.

MUSC 1100 Fundamentals of Music
2:2:0 Su, F, Sp
Designed for non-music majors. Examines the fundamentals of music such as keys, scales, intervals, rhythms, meters, and terminology. Completion of a second course is required to satisfy the fine arts requirement (see Graduation section of catalog).

MUSC 1110 Basic Music Theory I
3:3:0 F, Sp
- Prerequisite(s): MUSC 1100 or passing score on Music Program Placement Test
For music majors, interested students and community members. An intense study of the fundamentals of music including elementary harmony, primary and secondary triads with inversions, non harmonic tones and modulation. Concurrent enrollment in MUSC 1130 is highly desirable.

MUSC 1120 Basic Music Theory II
3:3:0 Su, Sp
- Prerequisite(s): MUSC 1110
A continuation of MUSC 1110, Music Theory I.

MUSC 1130 Aural Music Skills I
2:2:0 F, Sp
For music majors and other interested students and community members. An intense study of the skills of analysis, sight reading, and ear training. Develops student’s aural music skills.

MUSC 1140 Aural Music Skills II
2:2:0 Su, Sp
- Prerequisite(s): MUSC 1130
For music majors and other interested students and community members. An intense study of the skills of analysis, sight reading, and ear training. A continuation of MUSC 1130.

MUSC 1150 Group Piano I
2:2:0 Su, F, Sp
Group piano class for students who have had little or no piano experience. A comprehensive course covering fundamentals of aural, tactile, and visual keyboard skills as well as some music theory.

MUSC 1160 Group Piano II
2:2:0 F, Sp
- Prerequisite(s): MUSC 1150 or instructor approval
Group piano class designed for students who have basic performing and technical skills. A comprehensive course including instruction in theory, keyboard skills, and sight-reading.

MUSC 120R Master Works Chorale
1:0:4 F, Sp
- Prerequisite(s): Audition
Provides group training in various styles of choral literature. Requires attendance at scheduled performances and expected acquisition of choir attire. Requires audition. May be repeated. Two credits may apply toward the AAS degree and four credits toward AS degrees.

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 126R Show Choir--Encore
2:1:3 F, Sp
- Corequisite(s): MUSC 120R
For the advanced singer desiring experience in show choir performance. Provides the opportunity of performing in a small group of select singers. Studies music and choreography. Requires participation in concerts, programs and tours. Some costume expenses may be incurred. May be
Course Descriptions

repeated. Four credits may apply toward the AAS degree and eight credits toward the AA/AS degrees.

MUSC 130R 
Symphonic Band
1:0:4 F, Sp
- Prerequisite(s): Audition
Provides opportunity to improve musical performance skills by participating in the band. Studies and performs serious concert literature from all periods of music history. Requires attendance at all concerts, performances, and tours. May be repeated. Two credits may apply toward the AAS degree and four credits toward the AS or BS degrees.

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 institution's electronic music studio.

MUSC 160R 
Private Lessons for Nonmusic Majors
1:1:0
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 five hours of practice each week. May be repeated for a maximum of 8 credits toward graduation.

MUSC 1640 
Group Voice
1:1:1 F, Sp
Designed for non-voice majors. Group instruction to fit the individual needs of the students in developing vocal skills and techniques. Covers vocal tone, melodies, diction, performance skills, etc.

MUSC 1650 
Group Strings
1:1:1 F, Sp
Teaches students basic performing and teaching skills on the violin, viola, cello and bass.

MUSC 1660 
Group Clarinet
1:1:1 F
Teaches basic performing and teaching skills on the clarinet. Covers good clarinet tone, knowledge of fingerings and special problems, correct clarinet assembly, etc.

MUSC 1680 
Group Trumpet
1:1:1 Sp
Teaches basic performing and teaching skills on the trumpet. Covers knowledge of the trumpet mechanism, trumpet tone, trumpet fingerings, etc.

MUSC 170R 
Symphony Orchestra
1:0:4 F, Sp
- Prerequisite(s): Audition
Provides the opportunity to improve musical performance skills by participating in the orchestra. Studies and performs serious concert literature from all periods of music history. Requires attendance at all concerts, rehearsals, and tours. May be repeated. Two credits may apply toward the AAS Degree and four credits toward the AS or BS degrees.

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 
Advanced Music Theory I
3:3:0 F
- Prerequisite(s): MUSC 1120
For music majors and other interested students and community members. Studies chromatic elements of music. Covers the music theory of the twentieth century. Provides additional training in sight-singing and dictation. Covers diminished seventh chords, modulation, augmented sixth chords, etc.

MUSC 2120 
Advanced Music Theory II
3:3:0 Sp
- Prerequisite(s): MUSC 2110
A continuation of MUSC 2110. For music majors, interested students and community members.

MUSC 2350 
Fundamentals of Conducting
2:2:0 F, Sp
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
1:1:0
- 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 eight hours of practice each week. For music majors only. May be repeated for a maximum of 4 credits toward graduation.

MUSC 281R 
Internship in Music I
1 to 8:0:5 to 40
- Prerequisite(s): Departmental Approval
Provides an opportunity for students to receive college credit and explore career options in music by working in music-related fields. Applies academic concepts to actual work experiences. Requires approval of faculty sponsor and completion and acceptance of application. Requires completion of an orientation, completion of Master Agreement between UVU and employer, completion of goals and tasks as required by academic department, and completion of final evaluation. May be repeated for a total of 8 credits towards graduation.

MUSC 290R 
Independent Study
1 to 3:0:3 to 3 Su, F, Sp
- Prerequisite(s): Instructor permission and advisor approval
Individual projects to be negotiated by student and instructor on a case-by-case basis to be approved by the departmental advisor.

MUSC 3010 
Music History and Literature I
3:3:0 F
- Prerequisite(s): MUSC 2110
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 3020 
Music History and Literature II
3:3:0 Sp
- Prerequisite(s): MUSC 2120
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 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 2110
Teaches advanced baton techniques, score preparation and basic rehearsal procedures for instrumental ensembles.

MUSC 320R 
Advanced Master Works 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 for a maximum of 8...
either in the private studio or in the elementary school.

MUSC 3416 String Pedagogy II 2:2:0
- 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 370R Advanced Symphony Orchestra 1:0:4 F, Sp
- Prerequisite(s): Audition required; instructor permission
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 for maximum of 8 credits toward graduation.

MUSC 372R Chamber Orchestra 1:2:0 On Sufficient Demand F, Sp
- Prerequisite(s): Instructor permission
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 373R Small Ensembles 1:1:0 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 for a maximum of 8 credits toward graduation.

MUSC 410 Twentieth-Century Theory 3:3:0
- Prerequisite(s): MUSC 3120
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 2120
Studies techniques of scoring and arranging music for orchestra, band, choir, and small ensembles.

MUSC 4150 Advanced Choral Conducting 2:2:0 F
- Prerequisite(s): MUSC 2350, MUSC 2120, MUSC 2010, MUSC 2020
Develops advanced baton techniques, score preparation and basic rehearsal procedures for choral organizations.

MUSC 450R Private Lessons for Music Majors 1:1:0
- Prerequisite(s): Four semesters of 250R. Passing fourth semester juried examination.
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 twelve hours of practice each week. For music majors only. May be repeated for a maximum of 4 credits toward graduation.

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-VI-I chord progressions. Develops skills through a program of systematic exposition and utilization of fundamental musical structures.

MUSC 481R Internship in Music II 1 to 8:5:4 to 0
- 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
- Prerequisite(s): MUSC 2120 and Instructor approval
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 1:1:0
- Prerequisite(s): MUSC 2120 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 1110 Concepts of Nursing II 9:5:12 F, Sp
- Prerequisite(s): NURS 1030, PSY 1100
Builds upon Nursing Concepts I. Focuses on an expanded recognition and comprehension of concepts and processes fundamental to the practice
Course Descriptions

NURS 1400
Introduction to Nursing
2:2:0 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 2010
Concepts of Nursing III
8:4:12 F, Sp
- Prerequisite(s): Departmental Permission
Focuses on the concepts and processes needed to identify the health needs and/or problems of patients. Identifies discriminating factors used to determine and complete appropriate independent and collaborative nursing interventions. Emphasizes pharmacokinetics and nursing implications for medication use; identification of nursing diagnoses and problems; elaborations of pathophysiologic mechanisms. Includes readings, discussions, demonstrations, multimedia resources, and case studies during which each student will participate in both a lecture and laboratory setting.

NURS 2110
Concepts of Nursing IV
7:3:12 F, Sp
- Prerequisite(s): NURS 2010
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): NURS 2010
- 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 F, Sp
- Prerequisite(s): Acceptance into ASN/BS Nursing program
- Corequisite(s): NURS 2320
Introduces the nursing student to the health history interview and physical assessment techniques for patients across the lifespan. Uses a holistic approach in identifying health care needs of the patient within the context of the nursing process.

NURS 2310
Nursing Pharmacology
3:3:0 F, Sp
- Prerequisite(s): CHEM 1110 and ZOOL 2320
- Pre- or Corequisite(s): ZOOL 2420
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
3:1:6 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 2410, NURS 2420
Examines elements, traits, standards and modes of critical thinking used in nursing practice and applies them in use of the nursing process. Focuses on development of skills required to plan nursing care for individuals, families, groups and communities.

NURS 2410
Nursing Care of Adults with Common Disorders
4:2:6 F, Sp
- Prerequisite(s): NURS 2300, NURS 2310
- Corequisite(s): NURS 2400, NURS 2420
Focuses on implementation of nursing process with adults experiencing common physiologic 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 F, Sp
- Prerequisite(s): NURS 2300, NURS 2310
- Corequisite(s): NURS 2400, 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 "Scope and Standards of Gerontological Nursing Practice."

NURS 2430
Nursing Care of Persons with Psychiatric Disorders
3:2:3 F, Sp
- Prerequisite(s): NURS 2300, NURS 2310
- Pre- or Corequisite(s): NURS 2400, NURS 2410, NURS 2420
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 6:5 to 30
- Prerequisite(s): Department Chair approval.
Provides supervised, practical experience for students preparing for careers in Nursing. May be repeated for a total of 6 credits toward graduation.

NURS 285R
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
- Prerequisite(s): NURS 2400
Introduces health and wellness, and incorporates aspects of healthy living. Creates a foundation on which students can promote healthy lifestyles in clients of all ages. Introduces the Healthy People initiative. Considers application of primary, secondary, and tertiary prevention levels, effective learning/teaching, change theory, and therapeutic communication. Examines use of complementary and alternative therapies. Analyzes service learning and its potential impact related to health promotion in various settings.

NURS 3310
Nursing Care of Child-Bearing Families
2:1:3
- Prerequisite(s): NURS 2400
- Corequisite(s): NURS 3320
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
2:1:3
- Prerequisite(s): NURS 2400
- Corequisite(s): NURS 3310
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...
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 Nursing Care Coordination and Management 3:1:4
• 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
• Prerequisite(s): NURS 2400
Examines professional responsibilities and accountabilities as identified in the Utah Nurse Practice Act, American Nurses Association “Code of Ethics for Nurses” and “Nursing: Scope and Standards of Practice”.

NURS 4000 Nursing Theory 2:2:0
• Prerequisite(s): NURS 2400
Examines various nursing models and theories which influence current nursing practice. Explores essential and interdependent relationships among knowledge, theory, research, and nursing practice. Assists students to conduct a basic assessment of a theory and gain insight into the development of their individual philosophies of nursing practice.

NURS 4320 Nursing in the Community 4:2:6
• 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 Health Systems and Policy 3:3:0
• Prerequisite(s): Acceptance into ASN/BS Nursing Program
Explores the nursing profession's historical and current roles in health care delivery systems and in shaping health policy. Examines health policy issues from social, economic, political, historic as well as nursing perspectives.

NURS 4400 Nursing Leadership 4:2:6
• Prerequisite(s): NURS 3330, NURS 3410, NURS 4320
• Pre- or Corequisite(s): NURS 4330
Explores various management and leadership concepts. Assists students to develop knowledge and skills necessary for leadership in nursing care delivery. Discusses nursing roles of provider of care, manager of care and member of the profession as they relate to leadership and management concepts. Discusses additional roles such as case manager, educator, manager of fiscal resources, and facilitator of quality improvement.

NURS 4410 Nursing in Global Perspective 3:3:0
• 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
• Prerequisite(s): NURS 4300, NURS 4310, NURS 4320
• Corequisite(s): NURS 4430
• Pre- or Corequisite(s): NURS 4330, NURS 4400
Builds upon a general knowledge of current issues and trends in nursing and health care. Examines current nursing issues and trends and their impact on professional practice and the health care system. Provides opportunities for enhancement of research, writing, and evaluation of current nursing practice.

NURS 4430 Senior Project in Nursing 3:1:6
• Prerequisite(s): NURS 4300, NURS 4310, NURS 4320
• Corequisite(s): NURS 4420
• Pre- or Corequisite(s): NURS 4330, NURS 4400
Provides opportunity for student to complete a well-defined clinical project in an area of special interest, to demonstrate culmination of learning achieved through all previous nursing education. Projects are completed in clinical practice areas following faculty approval. Includes faculty supervision and focused formal instruction.

NURS 481R Internship in Nursing 1 to 6:0 to 30
• Prerequisite(s): Department Chair approval
Provides supervised, practical, and research experience for students preparing for careers in Nursing. May be repeated for a maximum of 6 credits toward graduation.

NURS 489R Undergraduate Research in Nursing 1:0:5
• 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.
Departmental 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.

NUTR—Nutrition

NUTR 1020 Foundations of Human Nutrition 3:3:0
Su, F, Sp
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.
Course Descriptions

**NUTR 2020**  
**Nutrition Through the Life Cycle**  
3:3:0 F, Sp  
- 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—PhysEd**

**PES 1010**  
**Aerobics I**  
1:0.5:1.5 Su, F, Sp  
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**  
1:0.5:1.5 F, Sp  
A co-ed aerobic dance-exercise class that emphasizes increased knowledge in cardiovascular training, flexibility, and exercise injuries. Students acquire a more strenuous and advanced level of aerobic proficiency through high impact routines set to music.

**PES 1050**  
**Powertone**  
1:0.5:1.5 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**  
1:0.5:1.5 Su, F, Sp  
Introduces a contemporary approach to Pilates exercise. Provides a total body workout that challenges and optimizes strength, flexibility and endurance. Incorporates FlexBands, BOSU, stability balls, weighted balls, fitness circle and matwork to assist individuals in achieving optimal health and well-being. Designed to lengthen the body, strengthen the mid-section (core and spine), and improve posture and flexibility.

**PES 1057**  
**Power Yoga**  
1:0.5:1.5 Su, F, Sp  
For students interested in bringing balance to both body and mind. Presents a vigorous and powerful approach using Ashtanga, Anusara, and Hatha Yoga’s. Uses flowing progressive postures, meditative awareness, and breath control.

**PES 1085**  
**Weight Training I**  
1:0.5:1.5 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**  
1:0.5:1.5 F, Sp  
An individualized intermediate course for students who wish to continue their weight training program. Students will write their own program and set standards of goals that are attainable throughout the training period.

**PES 1087**  
**Weight Training III**  
1:0.5:1.5 Not 08-09  
- 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 1087**  
**Fitness for Life**  
2:2:0 Su, F, Sp  
Provides information, tools, and skills to aid students in engaging in an active, healthy lifestyle throughout life. Offers the opportunity to learn about exercise program design, physiological adaptations that underlie fitness, and strategies to maintain an active lifestyle across the lifespan. Features access to high quality exercise facilities. Requires participation in exercise 2-3 days per week outside of the scheduled class activities. Stresses comprehensive principles in health, wellness, physical activity, and fitness assessment.

**PES 1100**  
**Tennis I**  
1:0.5:1.5 Su, F, Sp  
Covers the basic concepts of the game. Teaches general tennis skills including serving, forehand, backhand, overhead, volley and net game, and service. Teaches basic tennis rules and strategy techniques. Includes labs, lectures, audio-visual, practice and inter-class participation. Taught on block only.

**PES 1101**  
**Tennis II**  
1:0.5:1.5 Su, F, Sp  
Covers more advanced techniques of tennis. Includes volley and half volley (net game) and technical shots - drop, lob and top spin. Includes labs, lectures, audio-visual, practice and inter-class participation. Covers the more competitive strategies for both singles and doubles. Taught on block only.

**PES 1105**  
**Badminton**  
1:0.5:1.5 Not 08-09  
Covers basic concepts of badminton. Includes scoring, forehand, backhand, overhead, net game, and service. Studies strategy techniques for both singles and doubles. Uses labs, lectures, audio-visual, practice and inter-class participation. Emphasizes skills, fundamentals, conditioning, and rules of the sport.

**PES 1110**  
**Racquetball I**  
1:0.5:1.5 Su, F, Sp  
Covers basic fundamentals of racquetball. Teaches the skills, rules and strategies necessary to play and enjoy racquetball. Uses demonstrations and labs, practice and inter-class participation.

**PES 1111**  
**Racquetball II**  
1:0.5:1.5 F, Sp  
Includes advanced skills, rules and strategies in singles, doubles and cut-throat matches. Uses demonstration and labs, practice and inter-class participation. Successful completers should have developed a minimum of Level C skills.

**PES 1120**  
**Golf I**  
1:0.5:1.5 Su, F, Sp  
A beginning course designed to teach students fundamental techniques, rules and etiquette of the game. Includes instruction on equipment and golf techniques such as grip, stance, and swing. Provides practice rounds leading to in-class tournaments. Uses demonstrations and labs, practice and inter-class participation. Taught on block only.

**PES 1131**  
**Golf II**  
1:0.5:1.5 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**  
1:0.5:1.5 Sp  
For beginners. Covers basic concepts of archery, both for target shooting and field hunting. Includes use of re-curve and compound bows. Studies the language of archery. Includes laboratory sessions (both indoors and outdoors when weather permits), video instruction, demonstration, and shooting practice. Taught on block only.

**PES 1136**  
**Archery II**  
1:0.5:1.5 Sp  
Builds upon the basic concepts learned in PES 1135. Covers skills, fundamentals, conditioning, history, and rules of the sport. Includes lecture, labs, demonstration and practice (outdoors when weather permits), and video presentations. Taught on block only.

**PES 1145**  
**Bowling I**  
1:0.5:1.5 F, Sp  

**PES 1146**  
**Bowling II**  
1:0.5:1.5 F, Sp  
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PES 1105</td>
<td>Beginning Fencing</td>
<td>GE</td>
<td>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.</td>
</tr>
<tr>
<td>PES 1200</td>
<td>Basketball I</td>
<td>GE</td>
<td>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.</td>
</tr>
<tr>
<td>PES 1201</td>
<td>Basketball II</td>
<td>GE</td>
<td>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.</td>
</tr>
<tr>
<td>PES 1210</td>
<td>Volleyball I</td>
<td>GE</td>
<td>Covers basic concepts of volleyball. Teaches fundamentals and rules of the sport. Introduces new skills such as sprawl and roll. Includes labs, lectures, audio-visual, practice and inter-class participation.</td>
</tr>
<tr>
<td>PES 1211</td>
<td>Volleyball II</td>
<td>GE</td>
<td>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.</td>
</tr>
<tr>
<td>PES 1212</td>
<td>Volleyball III</td>
<td>GE</td>
<td>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.</td>
</tr>
<tr>
<td>PES 1214</td>
<td>Volleyball Club Team</td>
<td>GE</td>
<td>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.</td>
</tr>
<tr>
<td>PES 1230</td>
<td>Soccer I</td>
<td>GE</td>
<td>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.</td>
</tr>
<tr>
<td>PES 1231</td>
<td>Soccer II</td>
<td>GE</td>
<td>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 and strategies and conditioning for soccer. Topics will be practiced by using a variety of drills on the field individually and in groups/teams in order to further develop playing performance in real game settings. Examines soccer rules and regulations established by FIFA (Fédération Internationale de Football Association) and (United States Soccer Federation) USSF.</td>
</tr>
<tr>
<td>PES 1234</td>
<td>Soccer Club Team</td>
<td>GE</td>
<td>Pre-requisite(s): Instructor approval. Designed for participation in competitive practice and team play. Advanced fundamentals and skills will be drilled. May be repeated once for credit toward graduation.</td>
</tr>
<tr>
<td>PES 1254</td>
<td>Lacrosse Club Team</td>
<td>GE</td>
<td>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.</td>
</tr>
<tr>
<td>PES 1260</td>
<td>Ice Hockey</td>
<td>F, Sp</td>
<td>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.</td>
</tr>
<tr>
<td>PES 1300</td>
<td>Swimming I</td>
<td>F, Sp</td>
<td>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 all of the required skills early will be put on an individualized swimming workout schedule. Individual attention will be given to students as needed.</td>
</tr>
<tr>
<td>PES 1301</td>
<td>Swimming II</td>
<td>F, Sp</td>
<td>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.</td>
</tr>
<tr>
<td>PES 1315</td>
<td>Water Aerobics</td>
<td>F, Sp</td>
<td>For students interested in an alternative aerobics class. Introduces aerobic conditioning principles designed to develop the cardiovascular - respiratory systems, strength, and coordination.</td>
</tr>
<tr>
<td>PES 1410</td>
<td>Introduction to Tai Chi</td>
<td>F, Sp</td>
<td>Introduces students an ancient martial exercise developed in China. Studies an effortless, low-impact, rhythmic 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.</td>
</tr>
<tr>
<td>PES 1415</td>
<td>Survey of Martial Arts</td>
<td>GE</td>
<td>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.</td>
</tr>
<tr>
<td>PES 1425</td>
<td>Jiu Jitsu I</td>
<td>F, Sp</td>
<td>A beginning class in the martial art of Jiu Jitsu with an emphasis in Russian Sambo Jiu Jitsu also known as Combat Jiu Jitsu. Learn the basics of Jiu Jitsu including: grappling, take downs, escapes, arm locks, etc.</td>
</tr>
<tr>
<td>PES 1435</td>
<td>Kenpo Karate I</td>
<td>GE</td>
<td>A beginning course in the martial art of Kenpo Karate. Introduces basic blocks, punches, strikes, and kicks. Emphasizes self-defense techniques.</td>
</tr>
<tr>
<td>PES 1436</td>
<td>Kenpo Karate II</td>
<td>GE</td>
<td>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.</td>
</tr>
</tbody>
</table>
| PES 1440   | Aikido                           | F, Sp  | Covers beginning techniques to the art of self-defense. Teaches different holds and locks, using...
Course Descriptions

various forms of nonresistance in order to defend and prevent injury from an opponent.

PES 1460 GE Kickboxing I
1:0.5:1.5 F, Sp
A beginning course in the martial art of kickboxing (Muay Thai). Discusses the history of Muay Thai, ring strategy, and the rules of the ring. Includes leg strengthening, shadow boxing, stretching, punches, elbows, kicks, and knees while contact is made to bags and kicking shields. Teaches self-defense, ring strategy and the requirements to advance to the second level of kickboxing (Muay Thai). Includes intense aerobic workout.

PES 1670 GE Ice Skating
1:0.5:1.5 F, Sp
Teaches basic ice skating skills including forward and backward skating, turns, stops, crossovers, spins, and jumps. Students will choreograph and perform a developmentally appropriate ice skating program set to music.

PES 200 R GE Intercollegiate Athletics
1:0.5:1.5 Not 08-09
- Prerequisite(s): Coach approval
May be repeated once for credit towards graduation.

PES 2050
Aerobic Instructor Training
2:2:0 F
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 220
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 221
Officiating Basketball
2:2:0 F
For students wishing to officiate in 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 GE Officiating Volleyball
2:2:0 Not 08-09
Provides students with the necessary skills to officiate the game of volleyball. Teaches both collegiate and high school rules and protocol. Provides students with a working understanding of officiating volleyball, as well as the opportunities for employment, through match observations and practical experience. Prepares students for certification as high school entry level official.

PES 2300
Introduction to Fundamentals of Athletic Coaching
2:2:0 F
For coaches of youth and other interested community members. Overviews methods, teaching techniques, coaching philosophies and practical experiences in both team and individual sports. Includes lecture and demonstration, media presentations, game scouting, and field project and class journals. Stresses motivation, selection, discipline, management, and the technical aspects of coaching.

PES 2400 GE 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
Teaches taping and wrapping techniques for prevention/treatment of sports related injuries. Teaches evaluation techniques for the major joints of the body.

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 281 R Cooperative Work Experience
2 to 9:1:5 to 40 Not 08-09
- 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 3220
Teaching and Coaching Basketball
2:2:0 F, Sp
Designed for those planning to coach basketball. Overviews methods, teaching techniques, coaching philosophies and practical experiences in both team and individual sports. Includes lecture and demonstration, media presentations, game scouting and field project, and class journals.

PES 3230
Teaching and Coaching Volleyball
2:2:0 F
- Prerequisite(s): Approval of Cooperative Coordinator
Prepares students for coaching volleyball. Covers basic offensive and defensive philosophy and techniques. Covers organization, equipment, conditioning, and safety.

PES 3240
Teaching and Coaching Baseball
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
Teaches basic aerobic principles including concepts of anatomy, physiology, and exercise injuries. Emphasizes choreography, cueing, and the use of music. Also, introduces basic cheerleading skills and methods of teaching kicks, jumps, and tumbling. Presents skills necessary to teach an aerobic class and advise a cheerleading program.

PES 3260
Teaching and Coaching Baseball and Softball
2:2:0 Sp
Designed for those planning to coach baseball or softball. Covers teaching techniques, coaching philosophies and building a program. Includes strategy of team selection and offensive and defensive planning. Studies game skills.
**Course Descriptions**

**PES 3270**  
Methods of Teaching Fitness  
3:3:0  Su, 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 HFT, NSCA CPT, or similar certification exams upon course completion.

**PES 3500**  
Kinesiology  
3:3:0  Su, 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  Su, 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. Analyzes how humans learn complex movement skills and control voluntary, coordinated movement. Analyzes the basic psychological processes involved in learning and control of movement and their effect on instruction and practice conditions for the learner. Studies motor development and its effect on skill acquisition.

**PES 3700**  
Exercise Physiology  
4:3:3  Su, F, Sp  
- 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 responses to exercise. Addresses clinical applications. Requires weekly laboratory.

**PES 3730**  
Biomechanics  
3:3:0  F, Sp  
- Prerequisite(s): PES 3500  
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  
2:2:0  Su, 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  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 1090, PES 1097  
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 management.

**PES 4300**  
Research Methods in Physical Education and Recreation  
3:3:0  F, Sp  
- Prerequisite(s): PES 3500, PES 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 1097, PES 3270, 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  F, Sp  
- 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  Su, F, Sp  
- Prerequisite(s): PES 1097 and PES 2700  
Provides students with hands-on professional experience 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  Not 08-09  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  
2:2:0  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  
Analyzes fundamental motor skills, movement concepts, and selected fundamental sport skills. Trains students to give effective feedback to individuals learning fundamental motor skills, movement concepts, and selected fundamental sport skills. Teaches methods for developing individualized learning through the use of developmentally appropriate progressions to move students from the pre-control level, through the control, utilization, and proficiency levels for each skill.

**PETE 2200**  
Skill Analysis II  
3:2:2  Sp  
- Prerequisite(s): PETE 2100  
Builds on concepts covered in PETE 2100. Analyzes a variety of individual and dual sport skills, rules, and strategies. Prepares pre-service physical educators to effectively teach current, as well as yet to be developed, individual and dual sports through analysis of concepts common to individual and dual games and sports. Examines rules and develops developmentally appropriate teaching progressions for individual and dual sport skills. Examines rules and strategies for a variety of individual and dual games and sports.
Course Descriptions

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
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 4210
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 481R
Physical Education Teacher Education Internship
1 to 4:0:5 to 20 Su, F, Sp
Prerequisite(s): PES 1097, PES 3500, PES 3550, PETE 2300, and PETE 3100
Encourages students to apply learning in a professional setting. Allows students practical experience working at a physical education teaching or coaching related job. May be repeated for a maximum of eight credits toward graduation.

PETE 489R
Undergraduate Research in Physical Education Teacher Education
1 to 4: 0:5 to 20
Prerequisite(s): Admission to Physical Education Program. Successful completion of all professional education and content courses.
Corequisite(s): EDSC 4850
Examines each student’s teaching experiences. Encourages students to integrate learning from each all professional education and content courses. Discusses concerns related to current teaching experiences as well as future experiences. Investigates job seeking criteria and opportunities. Supports pre-service teachers during their student teaching experience.

PHIL—PHILOSOPHY

PHIL 1000** Introduction to Philosophy
3:3:0 Su, F, Sp
Designed to investigate major philosophical ideas from the Pre-Socratic era to the present. Students should develop philosophical skills through supervised analysis of readings in epistemology (knowledge), metaphysics (reality), ethics (values), and social philosophy. Emphasizes the articulation,
PHIL 160 Introduction to Eastern Religions
3:3:0
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 major eastern religious traditions including Hinduism, Jainism, Buddhism, Sikhism, Taoism, Confucianism, and Shintoism. Explores similarities and differences between them by examining the primary sources and sacred texts along with the unique beliefs and practices of each tradition.

PHIL 1620 Introduction to Eastern Religions
3:3:0
For students majoring in humanities-related disciplines and other students interested in the academic study of religion. 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 180H Introduction to Ethics
3:3:0
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 180R Introduction to Philosophy
3:3:0
F, Sp
**Prerequisite(s): ENGL 1010
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 205G Ethics and Values
3:3:0
- Prerequisite(s): ENGL 1010
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. Focused 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.

PHIL 205H Ethics and Values
3:3:0
- Prerequisite(s): ENGL 1010
Challenges students to (1) develop knowledge and clarification of values; (2) critically read works of philosophy, literature, religion, and history toward understanding the basis of their ethical views; and (3) read, study, research, discuss, and write about difficult ethical issues. Focuses on issues of good vs. evil, justice vs. injustice, equality vs. inequality, and the necessity of defining and examining happiness and values. Engages students in serious reflection on issues of ethics and values as they relate to the students’ own lives.

PHIL 295R Independent Study
1 to 3:0 to 3:0 to 12
- Prerequisite(s): By permission from departmental chair
Allows philosophy students to receive credit for service as an intern in a governmental, not for profit, or private agency apart from their regular employment. Provides practical and research development in selected areas of service related to students’ academic and/or professional interests or goals. Internship must be supervised by agency representative. Must be approved by philosophy internship advisor and department chair and written contracts must be completed and signed. Repeatable for a maximum of six credit hours toward graduation.

PHIL 295R Directed Readings
1 to 3:0 to 3:0 to 12
- Prerequisite(s): By permission from departmental chair
Provides independent study as directed in reading and individual projects. Request must be submitted for approval by the department. Students may do independent study for one, two or three credits with a limit of three credits applying toward graduation with an AA/AS degree.
Course Descriptions

PHIL 3000  
Formal Deductive Logic  
3:3:0  
- Prerequisite(s): ENGL 1010 or PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H 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  
- Prerequisite(s): PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H 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 gender, including such issues as the nature, explanatory import and normative implications of biological sex differences, the sex/gender distinction, the idea of gender as a social construct, the structure and impact of gender oppression and the nature and value of the norms of femininity and masculinity.

PHIL 3160  
Gender Values Knowledge and Reality  
3:3:0  
- Prerequisite(s): PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H or PHIL 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 3200  
Metaphysics  
3:3:0  
- Prerequisite(s): PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H 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 3300  
Epistemology  
3:3:0  
- Prerequisite(s): PHIL 1000 or PHIL 2050 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 3400  
Philosophy of Science  
3:3:0  
- Prerequisite(s): PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H or PHIL 2110 or PHIL 2150 or permission of instructor  
Explores fundamental issues in the philosophy of science. Includes the structure of the scientific method, scientific explanation, and the epistemological status of scientific laws and theories.

PHIL 3450  
Philosophy of Childhood  
3:3:0  
- Prerequisite(s): PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H 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  
3:3:0  
- Prerequisite(s): PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H 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 assorted thematic topics characteristic of American Pragmatism, as well as the work of the American transcentental school and various philosophical writings from American women, such as Jane Addams, and African-American philosophers, such as Alain Locke.

PHIL 3510  
Business and Professional Ethics  
3:3:0  
- Prerequisite(s): PHIL 2050 or PHIL 205H  
Develops concepts and philosophies essential to understanding ethical concerns in today's business and professions. Presents current case studies and theories about business ethics and helps students determine their own attitudes about contemporary and historical business morality. Examines a variety of approaches, solutions, and methods of critically thinking about ethics in business and professions.

PHIL 3520  
Bioethics  
3:3:0  
- Prerequisite(s): PHIL 2050 or PHIL 205H or permission of instructor  
Shows how ethical theories can help provide frameworks for moral judgment and decision-making in the wake of recent scientific, technological, and social developments which have resulted in rapid changes in the biological sciences and in health care. Topics include: codes of ethics, ethical theories, and practical applications, such as: professional-patient relationships, genetic engineering, euthanasia, managed health care, end-of-life issues, abortion, and reproductive technologies.

PHIL 3530  
Environmental Ethics  
3:3:0  
- Prerequisite(s): PHIL 2050 or PHIL 205H  
Examines the relationship between environmental and ethical concerns. Explores various topics including the traditional arguments for the existence of God, religious experience, the relationship between faith and reason, religious pluralism, and the traditional problem of evil.

PHIL 3540  
Introduction to Christian Theology  
3:3:0  
- 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.

PHIL 3600  
Philosophy of Religion  
3:3:0  
- Prerequisite(s): PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H or PHIL 2110 or PHIL 2150 or permission of instructor  
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 3610  
Approaches to Religious Studies  
3:3:0  
- 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  
3:3:0  
- Prerequisite(s): PHIL 1610  
For students majoring in humanities-related disciplines and other students interested in the academic study of religion. Explores students in exploring the defining features of Mormon thought in relation to the broader Christian tradition. Examines traditional theological questions such as the problem of evil, the scriptural canon, the nature of God and humanity, and the role of ritual.

PHIL 3650  
Environmental Ethics  
3:3:0  
- Prerequisite(s): PHIL 2050 or PHIL 205H  
Examines the relationship between environmental and ethical concerns. Explores various topics including the traditional arguments for the existence of God, religious experience, the relationship between faith and reason, religious pluralism, and the traditional problem of evil.

PHIL 3700  
Approaches to Religious Studies  
3:3:0  
- 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, Emile Durkheim, John Hick, and Rene Girard.

PHIL 366R (Cross-listed with: RLST 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. Addresses specific topics and theoretical approaches related to religious studies. Topics may include religion and violence, religion and public discourse, religious ritual, etc.

PHIL 3700 Social and Political Philosophy 3:3:0 Sp
• Prerequisite(s): PHIL 2050 or PHIL 205H
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 F
• Prerequisite(s): PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H or PHIL 2110 or PHIL 2150 or permission of instructor
Examines the political philosophy of Karl Marx and looks at Marx’s legacy for 20th century and contemporary philosophy. Topics may include: Marx’s criticism of Hegel and Hegelian Idealism, Marx’s philosophy as “ideology critique,” Marx's “materialist” philosophy, Marx’s critique of capital, and several of the following: early 20th century Marxist political philosophy, Critical Theory, structuralist Marxism, phenomenological Marxism, materialist feminism, and post-Marxism.

PHIL 3800 (Cross-listed with: HUM 3800) Introduction to Aesthetics 3:3:0 F
• Prerequisite(s): PHIL 2050 or PHIL 205H and HUM 1010
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 Sp
• Prerequisite(s): PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H 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 Su, F, Sp
• Prerequisite(s): PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H 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 “philosophy” and “great art.” Encourages students to engage texts by learning to read them on different levels. Develops critical reading, writing, and discussion skills. Teaches students to think independently and creatively about the intersections of philosophy and literature. Emphasizes core thesaurics and skills in philosophy.

PHIL 386S Topics in Ancient Philosophy 3:3:0 Sp
• Prerequisite(s): PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H or PHIL 2110 or PHIL 2150 or permission of instructor
Provides students the opportunity to study aspects of ancient Greek philosophy intensively. Focuses on an aspect of the thought of a particular philosopher, such as Plato or Aristotle, or on a particular theme in Ancient philosophy, such as Ethics or Metaphysics. Emphasizes close study of primary texts. Develops strong critical thinking, writing and rhetorical skills. May be repeated up to 3 times for a total of 9 credits.

PHIL 400R Great Philosophers 3:3:0 Su
• Prerequisite(s): PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H 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 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 ideological assumptions.

PHIL 4130 Nineteenth Century European Philosophy 3:3:0 F
• Prerequisite(s): PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H 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 nature. Focuses on the attempts of German Idealism to formulate a systematic science of reality. Discusses the possibilities and problems with conceiving truth as both complete and absolutely knowable. Analyzes the philosophies of nature, art, human freedom, society, and ethics.

PHIL 4140 History of Analytic Philosophy 3:3:0 F
• 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. Boziano, Gottlob Frege, Ludwig Wittgenstein, Rudolph Carnap, G.E. Moore, J.L. Austin, Gilbert Ryle, W.V.O. Quine, and Friedrich Waismann. Studies methods of movements such as Logical Empiricism, and Ordinary Language Philosophy. Explores views such as Logicism, Logical Atomism, Holism, Verificationism, Logical Behaviorism, Psychologism, Nominalism, and Realism.

PHIL 4150 History of Continental Philosophy 3:3:0 Not 08-09
• 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 F
• Prerequisite(s): PHIL 3000
Discusses the philosophical motivation for the formalization of logic. Introduces the metatheory for propositional and quantificational logic. Includes proofs of the soundness and completeness of quantificational 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 Not 08-09
• Prerequisite(s): PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H 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 Not 08-09
• Prerequisite(s): PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H or PHIL 2110 or PHIL 2150 or permission of instructor
Explores the central issues in the philosophy of language. Includes the study of such issues as truth,
PHIL 450R 
Interdisciplinary Senior Ethics Seminar  
3:3:0  
F, Sp  
- Prerequisite(s): Instructor consent  
For integrated studies majors and other interested students. Addresses ethical issues dealing with discipline specific subject matter, i.e., nursing, behavioral, physical, social sciences, etc. Subject matter will vary each semester. Taught by Philosophy faculty in cooperation with faculty of appropriate departments. Repeatable three times for credit with different subjects. See Philosophy Department office for specific topics.

PHIL 451R 
Ethical Theory Seminar  
3:3:0  
F, Sp  
- Prerequisite(s): PHIL 2050 or PHIL 205H or permission of instructor  
Offers detailed investigation of selected ethical theories central to the Western philosophical tradition. Repeatable up to 12 credit hours with different topics.

PHIL 481R 
Internship  
1 to 6:0:5 to 30  
- Prerequisite(s): By permission from departmental chair  
Allows philosophy students to receive credit for service as an intern in a governmental, not for profit, or private agency apart from their regular employment. Provides practical and research development in selected areas of service related to students’ academic and professional interests or goals. Internship must be supervised by agency representative. Must be approved by philosophy internship advisor and department chair and written contracts must be completed and signed. Repeatable for a maximum of six credit hours toward graduation.

PHIL 490R 
Independent Study  
1 to 3:0 to 3:0 to 12  
Su, F, Sp  
- Prerequisite(s): Departmental Approval  
Provides independent study as directed in reading and individual projects. May be repeated for up to 6 total credits toward graduation.

PHIL 4910 
Philosophy Research Capstone  
3:3:0  
F, Sp  
- Prerequisite(s): PHIL 1250 or PHIL 2110 or PHIL 2150, Senior standing  
To be taken during the student’s last semester in the baccalaureate program. Includes writing a senior thesis, which points to post-baccalaureate career path or graduate school goals. Covers advanced Philosophy research and writing instruction. Encourages students to explore the ethical dimensions of their desired professional or graduate research interests. Involves the creation of a portfolio helpful in applying to graduate school or seeking employment. The portfolio includes the senior research thesis, an abstract of the thesis, three letters of recommendation, a Curriculum Vita, a Personal Statement, and a PowerPoint presentation.

PHIL 492R 
Advanced Topics in Philosophy  
1 to 3:1 to 3:0  
F  
- Prerequisite(s): PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H 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.

PHYS 1040 
(Cross-listed with ASTR 1240)  
3:3:0  
Su, F, Sp, DE  
- Corequisite(s): PHYS 107H  
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  
3:3:0  
On Sufficient Demand  
- Prerequisite(s): MATH 1030 or any higher mathematics  
Offers a descriptive and conceptual survey of the solar system. Describes the probable origin and evolution of the sun and planets, and the workings of the sun. Covers light, optics and spectroscopy, and the mechanics of orbital motion. Compares planets by their origins, structures and atmospheres. While the presentation is primarily qualitative, assumes rudimentary math skills on the part of the student to facilitate comparative studies of solar system objects.

PHYS 1060 
Investigations of Stars and Galaxies  
3:3:0  
On Sufficient Demand  
- 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*  
Honors Cultural Astronomy in Our Lives  
3:3:0  
F, Sp  
- Corequisite(s): PHYS 107H  
For those interested in learning about the astronomical realm around us and those having a special interest in anthropology. Explores the visible sky as seen with the naked eye. Presents examples of cultural interpretations of the sun, moon, planets and stars, methods of keeping calendars, and changes that occur through the seasons. Studies the motions of the planets, including the earth, and changes in the sky from different latitudes. Investigates how astronomy has impacted the lives of people throughout the ages and around the world. Includes extensive use of the UVU planetarium, nighttime observation, illustrated lectures, and class demonstrations.

PHYS 1075 
Honors Cultural Astronomy in Our Lives Laboratory  
1:0:3  
- 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.
use of the UVU planetarium, nighttime observation, illustrated lectures, and class discussion.

**PHYS 1080**
Life in the Universe
3:3:0

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.

**PHYS 1700**
Descriptive Acoustics
3:3:0

- Prerequisite(s): MAT 1010
- Corequisite(s): PHYS 2025
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. Examines prospects for alternative energy sources, such as solar, wind, nuclear and geothermal energy at length. Intended for non-science majors interested in energy use in society.

**PHYS 2010**
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 2100**
Physics for Scientists and Engineers I Lab
1:0:2

- Prerequisite(s): PHYS 2210, MATH 1220
- Corequisite(s): PHYS 2225
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 2200**
Physics for Scientists and Engineers II Lab
1:0:2

- Prerequisite(s): PHYS 2210, MATH 1220
- Corequisite(s): PHYS 2225
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 2215**
Physics for Scientists and Engineers I Lab
1:0:2

- Prerequisite(s): PHYS 2215
- Corequisite(s): PHYS 2225

**PHYS 2220**
Physics for Scientists and Engineers II Lab
1:0:2

- Prerequisite(s): PHYS 2210, MATH 1220
- Corequisite(s): PHYS 2225
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 2225**
Physics for Scientists and Engineers II Lab
1:0:2

- Prerequisite(s): PHYS 2210, MATH 1220
- Corequisite(s): PHYS 2225
Designed to accompany PHYS 2220. Provides firsthand experience with the laws of mechanics, thermal physics, vibrations, and waves. Introduces methods of scientific data analysis.

**PHYS 2250**
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 3230**
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 3300**
Mathematical Physics
3:3:0

- Prerequisite(s): MATH 2210
- Corequisite(s): MATH 2280 or instructor consent
Covers the applications of mathematical tools to experimental and theoretical research in the physical sciences. Introduces problems and systems common to physical science that can be modeled by the application of vector and tensor algebra, curvilinear coordinates, linear algebra, complex variables, Fourier series and transforms, differential and integral equations.

**PHYS 3400**
Classical Mechanics
3:3:0

- Prerequisite(s): PHYS 2220
- Corequisite(s): PHYS 3300 (recommended)
Treats classical mechanics of particles and systems using advanced mathematical techniques. Covers conservation principles, Lagrangian dynamics, harmonic oscillators, motion of rigid bodies and non-inertial reference frames.
Course Descriptions

**PHYS 3500**  
Thermodynamics  
3:3:0  Sp  
- 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  F  
- Prerequisite(s): PHYS 2220  
- Corequisite(s): MATH 2280  
Addresses topics of special relativity, development of quantum mechanics, physics of the atom, elementary solid state physics, and elementary particle physics.

**PHYS 3800**  
(Cross-listed with: ENVT 3800, CHEM 3800)  
Energy use on Earth  
3:3:0  F  
- 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.

**PHYS 4000**  
Biophysics  
3:3:1  On Sufficient Demand  
- Prerequisite(s): PHYS 3740, BIOL 1610, or instructor approval  
Explores the thermodynamics and statistical mechanics of biological systems, the mechanics of biologically important molecules, and the laws of fluid mechanics as applied in biological systems. Uses calculus-based mathematical models to treat specific reactions, particularly those treating biological systems as molecular machines.

**PHYS 4100**  
Advanced Experimental Techniques  
3:1:4  F  
- Prerequisite(s): PHYS 3220, PHYS 3230, or instructor’s consent  
Introduces fundamental skills required for conducting successful scientific research in a physics laboratory setting. Covers vacuum technology; basic machine shop practice, electronic instrumentation, electron microscopy, scanning probe microscopy, nuclear magnetic resonance, and x-ray diffractometry.

**PHYS 4250**  
Physics for Teachers  
1 to 5:1 to 5:0 to 10  Su, F, Sp  
- Prerequisite(s): Department Approval  
For licensed teachers or teachers seeking to recertify, an update course in physics and/or basic physics core courses for teachers needing physics or physical science endorsements from the Utah State Office of Education. Teaches principles of physics and pedagogy of teaching physics for teachers in public or private schools. Emphasis will be placed on correlation with the Utah Core Curriculum, the National Science Education Standards, and the Benchmarks of Project 2061. Topics will vary.

**PHYS 4300**  
Computational Physics  
3:3:0  Sp  
- Prerequisite(s): PHYS 3300  
Covers computational algorithms with specific applications to the description of physical systems. Covers iterative approximation methods, computations using matrices and vectors, numerical integration, solutions of differential equations. Uses a computer programming approach to problem solving.

**PHYS 4410**  
Electrostatics and Magnetism  
3:3:0  F  
- Prerequisite(s): PHYS 3740, PHYS 3300  
Explores the theory of electrostatic phenomena in a mathematically rigorous manner. Covers Gauss’ Law, the Laplace and Poisson equations, boundary-value problems, and dielectrics.

**PHYS 4420**  
Electrodynamics  
3:3:0  Sp  
- Prerequisite(s): PHYS 4410  
Explores the theory of electrodynamic phenomena in a mathematically rigorous manner. Covers Ohm’s and Kirchhoff’s Laws, magnetic induction, the Biot-Savart Law, Ampere’s Law, Ferromagnetism, Plasmas, Maxwell’s Equations, and Special Relativity.

**PHYS 4510**  
Quantum Mechanics I  
3:3:0  F  
- Prerequisite(s): PHYS 3740, PHYS 3300  
Covers postulates of quantum mechanics, state functions of quantum systems, Hermitian Operators, the Schrodinger Equation, eigenfunctions of harmonic oscillators, and particles in potential wells.

**PHYS 4520**  
Quantum Mechanics II  
3:3:0  Sp  
- Prerequisite(s): PHYS 4510  
Covers general principles and applications of quantum mechanics. Addresses topics of three-dimensional problems, angular momentum operators, spin wavefunctions, perturbation theory, applications to atomic, molecular, solid-state, and nuclear physics.

**PHYS 4600**  
Optics  
3:3:0  Sp  
- Prerequisite(s): PHYS 3740, PHYS 4410  
Covers the phenomena of reflection, refraction, diffraction, interference, optical behavior in materials and lasers. Presents a mathematically rigorous description of optical phenomena. Includes lab experience.

**PHYS 4700**  
Acoustics  
3:3:0  F  
- Prerequisite(s): PHYS 2220, MATH 2210  
Covers phenomena of sound, resonance, acoustics, and human hearing. Treats associated topics of waves, frequency, vibration and interference using appropriate mathematical tools.

**PHYS 4800**  
Solid State Physics  
3:3:0  Sp  
- Prerequisite(s): PHYS 3740, PHYS 4510  
Explores topics relevant to the structure, behavior, and properties of crystalline materials. Includes a study of lattice vibrations, free electrons, semiconductors, superconductivity, dielectric and ferroelectric materials and magnetism.

**PHYS 489R**  
Undergraduate Research in Physics  
1 to 3:3 to 9  
- Prerequisite(s): PHYS 2220, Departmental Approval  
Allows research on a project determined jointly with a faculty member and approved by the department chair. Emphasizes experimental technique, data collection, modeling, and analysis techniques. May be used as part of a senior thesis. May be repeated for a maximum of 9 credits toward graduation.

**PHYS 490R**  
Seminar  
0.5:0:0  F, Sp  
- Prerequisite(s): Departmental approval  
Studies a chosen topic in physics. Topics vary depending upon student demand. Possible topic may be the mathematics for quantum mechanics. May be taken for a maximum of 6 credits toward graduation, but is limited to 3 credits for the BS in Physics.

**PHYS 495R**  
Independent Readings  
1 to 3:3 to 9  Su, F, Sp  
- Prerequisite(s): PHYS 2220, Departmental Approval  
Working under faculty supervision, allows research on a project determined jointly with a faculty member and approved by the department chair. Emphasizes experimental technique, data collection, modeling, and analysis techniques. May be used as part of a senior thesis. May be repeated for a maximum of 9 credits toward graduation.

**PHYS 499A**  
Senior Project  
2:0:6  Su, F, Sp  
- Prerequisite(s): Instructor and Departmental approval  
Provides an opportunity for senior physics majors to participate in a current research project supervised by a department faculty member. Includes independent study and/or laboratory work as necessary. Culminates in the preparation of a written paper and oral presentation describing the results of the research project as required for PHYS 499B. May be taken concurrently with PHYS 499B.
### PJST—Peace and Justice Studies

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Instructor(s)</th>
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<td>PJST 3000</td>
<td>Introduction to Peace and Justice Studies</td>
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<td>PJST 3020</td>
<td>The Ethics of War and Peace</td>
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### POLS—Political Science

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<th>Course Code</th>
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<td>American Heritage</td>
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<td>POLS 1010</td>
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<td>POLS 1020</td>
<td>Political Ideologies</td>
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<td>POLS 1100</td>
<td>American National Government</td>
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<td>POLS 1440</td>
<td>Introduction to Middle East Politics</td>
<td>3:3:0</td>
<td>Not 08-09</td>
<td></td>
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<tr>
<td>POLS 1800</td>
<td>Our Global Community</td>
<td>3:3:0</td>
<td>GS, Sp</td>
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<td>POLS 2000</td>
<td>Introduction to International Relations</td>
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<td>POLS 2100</td>
<td>Political Parties</td>
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<td>F, Sp</td>
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<td>POLS 2120</td>
<td>Political Parties</td>
<td>3:3:0</td>
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<td>POLS 2200</td>
<td>Introduction to Comparative Politics</td>
<td>3:3:0</td>
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<td>POLS 2350</td>
<td>Introduction to Political Theory</td>
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<td>POLS 3000</td>
<td>Political Analysis</td>
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<td>POLS 3030</td>
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<td>POLS 3100</td>
<td>Survey of International Terrorism</td>
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<td>POLS 3150</td>
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<td>POLS 3250</td>
<td>Introduction to Law and Politics</td>
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- **PHYS 499B Senior Thesis**
  - 1:0:3
  - Prerequisite(s): Instructor and Departmental approval

- **Introduction to Comparative Politics**
  - 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.

- **Introduction to Political Theory**
  - Surveys the history of Western political theory from the Greeks to the 21st Century. 

- **Survey of International Terrorism**
  - 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 Shia Islamic, and various defense theories and religious traditions' teachings about conflict.
means of social order. Focuses on general issues of legal and political theory and the social and political function of law.

POLS 3300 Introduction to Public Administration 3:3:0 F
Introduces basic concepts and principles in the implementation of public policy, as opposed to the formation of public policy. Includes concepts such as chain of command, hierarchy, and span of control.

POLS 3400 American Foreign Policy 3:3:0 Sp
- 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 On Sufficient Demand
- 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 3590 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 On Sufficient Demand
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 420R Issues and Topics in Political Science 3:3:0 Su, F, Sp
- 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 4720 Foundations of American Constitutionalism 3:3:0 F
- Prerequisite(s): POLS 1100, or POLS 1000, or by consent of instructor
Examines the political and constitutional foundations of American constitution-making, beginning with the English Charter of Liberties in 1100 ACE and ending with the United States Bill Rights of 1791. Employs a comparative analysis of early Anglo-American constitutional thought, with special attention being given to the writings of prominent 17th century and 18th century constitutional theorists (e.g. Coke, Bacon, Burke, Penn, Dickinson, Mason, Adams, Madison, Marshall).

POLS 4790 US Constitution 3:3:0 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 3:1.5 to 40 On Sufficient Demand
- 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 490R Independent Study 1 to 4:1 to 4:0 Su, F, Sp
- 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 F, Sp
- 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.
Course Descriptions

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 3200**
Research Methods for the Behavioral Sciences
3:3:0
- Prerequisite(s): PSY 1010 and (ENGL 2010 or ENGL 2020)

Introduces research methods commonly used in behavioral science research. Includes data, subjects, populations, and various experimental designs including non-experimental and Quasi-experimental methods, and experimental designs, including within and between subject designs. Presents basic reasoning behind inferential statistics, without the detail. Requires a student designed research project and write-up of the results in APA Style.

**PSY 3100**
Psychology of Gender
3:3:0
- 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
- 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
- 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
- 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
Course Descriptions

maturation and separation/individuation from parents. Addresses adjustment problems, prevention, and remedies.

**PSY 3220**
**Adult Development**
3:3:0 Sp
- Prerequisite(s): PSY 1010 and (ENGL 2010 or ENGL 2020)
Studies adult developmental stages (end of adolescence through old age). Examines stable patterns and predictable changes in physiological and psychological and cognitive processes, emphasizing current research in optimal adult functioning.

**PSY 3240** (Cross-listed with: SOC 3240)
**Applied Marriage**
3:3:0 F, Sp
- Prerequisite(s): (PSY 1010 or SOC 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 adverse 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** (Cross-listed with: SOC 3500)
**Social Psychology**
3:3:0 Su, F, Sp
- Prerequisite(s): (PSY 1010 or SOC 1010) and (ENGL 2010 or ENGL 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** (Cross-listed with: ENST 3520)
**Environmental Psychology**
3:3:0
- 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** (Cross-listed with: SW 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.

**PSY 3620** (Cross-listed with: SOC 3620, ANTH 3620)
**Intercultural Relations**
3:3:0 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.

**PSY 3700** (Cross-listed with: ANTH 3700)
**Psychological Anthropology**
3:3:0 F
- 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.

**PSY 3710**
**Introduction to Forensic Psychology**
3:3:0
- Prerequisite(s): (PSY 1010 or SOC 1010) and (ENGL 2010 or ENGL 2020) and (PSY 3400 or PSY 3500)
Introduction to the complex field of forensic psychology which involves the overlap between the science of psychology and the law. Involves gaining a basic understanding of the psychological principles and concepts that are part of the legal system, understanding how the science of psychology potentially contributes to improvements and changes in the legal system, and gaining an understanding of the role of forensic psychologists with regard to the legal system. Ideas regarding potential careers in the field are also emphasized. Students customize course activities to suit their learning needs and styles from a variety of choices.

**PSY 3750** (Cross-listed with: 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.

**PSY 3800** (Cross-listed with: SW 3800) 
**Clinical Interviewing Skills**

*Course Description*

- 3:3:0 Su, f, Sp
- **Prerequisite(s):** SW 3600 and PSY 4000

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**

*Course Description*

- 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)

An integrated approach to understanding the roots of good and evil in human behavior. Explores theories and studies of human caring and destructiveness. Analyzes and develops psychological explanation of why individuals choose different courses of action under similar circumstances. Examines how such concepts as attachment and parental discipline, bystander phenomena, response to authority, genocides, killing during war, group identity, bullying, views of the other and racism, forgiveness and reconciliation, and psychopathology and the biology of emotion.

**PSY 4010** 
**Experimental Psychology**

*Course Description*

- 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 experimental research project.

**PSY 4020** (Cross-listed with: SOC 4000) 
**Survey Research Design**

*Course Description*

- 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)

Surveys concepts and practices of major research methods, focusing on research sampling, data collection, data analysis and the reporting, dissemination and application of conclusions.

**PSY 4040** 
**Applied Psychology**

*Course Description*

- 3:3:0 F, Sp
- **Prerequisite(s):** PSY 3020

Uses psychological theory, methods, and knowledge to actively analyze and engage problems facing a variety of clients. Discusses a variety of organizations including businesses, government, religion, social science, health care, criminal justice, and others. Utilizes psychological tools to identify, investigate, and actively seek viable solutions to issues that can be applied by organizations to achieve greater success. Requires students to develop, carry out, and professionally present an original research project.

**PSY 4050** (Cross-listed with: SW 4050) 
**Clinical Research**

*Course Description*

- 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 4100** (Cross-listed with: SW 4100, COMM 4100, LEGL 4100) 
**Advanced Mediation and Negotiation**

*Course Description*

- 3:3:0 F, Sp
- **Prerequisite(s):** PSY 3410 or SW 3410 or COMM 3410 or LEGL 3410

Prepares students to perform at an advanced level in the processes of mediation and negotiation. Builds on the foundations 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 4150** 
**Tests and Measurements**

*Course Description*

- 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 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 4200** (Cross-listed with: SW 4200, LEGL 4200) 
**Domestic Mediation**

*Course Description*

- 3:3:0 F, Sp
- **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.

**PSY 4300** (Cross-listed with: SW 4300) 
**Introduction to Counseling and Psychotherapy**

*Course Description*

- 3:3:0 F, Sp
- **Prerequisite(s):** (PSY 1010 or SW 1010) and PSY 3400 and (ENGL 2010 or ENGL 2020)

Surveys concepts and practices of major therapeutic systems. Introduces students to the major psychotherapeutic models. Addresses basic counseling issues including ethics and professionalism. Develops skills in relationship development, interviewing, initial assessment and intake procedures.

**PSY 4400** (Cross-listed with: SW 4400) 
**Introduction to Group Psychotherapy**

*Course Description*

- 3:3:0 Su, F, Sp
- **Prerequisite(s):** (PSY 1010 or SW 1010) and PSY 3400 and (ENGL 2010 or ENGL 2020) and (PSY 1010 or SW 1010)

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**

*Course Description*

- 3:3:0 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 4600** (Cross-listed with: SW 4600) 
**The DSM of Mental Disorders**

*Course Description*

- 3:3:0 F, Sp
- **Prerequisite(s):** PSY 3400 and (ENGL 2010 or ENGL 2020) and (PSY 1010 or SW 1010)

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 4650** (Cross-listed with: SOC 4650) 
**Family Financial Management**

*Course Description*

- 3:3:0 On Sufficient Demand
- **Prerequisite(s):** (PSY 1010 or SOC 1010) and (ENGL 2010 or ENGL 2020) and (PSY 1010 or SW 1010)

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.
**Course Descriptions**

**PSY 4670** (Cross-listed with: SOC 4670)  
**Family Dynamics and Systems**  
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, infliction, and renewal in contemporary family systems.

**PSY 475R**  
**Current Topics in Psychology**  
On Sufficient Demand  
- Prerequisite(s): PSY 1010 and (ENGL 2010 or ENGL 2020)  
Prepresents 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**  
Su, F, Sp  
- 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  
- 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**  
3:3:0  
- 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.
placemt 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 GE**
**Rock Climbing III**
2:2:0 Not 08-09
- 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 1535 GE**
**Backpacking**
2:2:0 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.

**REC 1542 Wilderness First Responder**
2:2:0 Su
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).

**REC 1550 GE**
**Mountain Biking**
2:2:0 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. Strengthens the enjoyment and lifetime benefits of off-road bicycle riding. Taught on block only.

**REC 1605 GE**
**Skiing I**
1:0.5:1.5 Sp
For the beginning skier. Covers basic skiing concepts including straight runs, stops, turns, traverses, and beginning parallel. Includes 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 GE**
**Skiing II**
1:0.5:1.5 Sp
For the intermediate skier. Designed for those with basic ski skills and who would like to improve their skiing technique. Instruction is given in parallel skiing over bumps and flat terrain, hockey stops, moguls and traversing steep terrain. Uses demonstration and participation. Grading is based on attendance. Lessons are at the Sundance Ski Resort. (Transportation is not provided.) Uses UVU and Sundance instructors. Students are required to have own equipment and purchase a half-day pass each ski day.

**REC 1615 Snowboarding**
1:0:5:1.5 Sp
Provides a fun challenge to snowboarders 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 GE**
**Ski Instructor Training**
1:0:5:1.5 On Sufficient Demand
For advanced skiers who are interested in becoming ski instructors. Discusses the potential in the skiing industry and professionalism as a ski instructor. Introduces American Teaching System. Presents the methodology of ski instruction to intermediate and beginning skiers. Includes lecture and actual ski time on the hill (transportation is not provided). Students are required to have their own equipment and purchase a half-day pass each ski day at a reduced rate.

**REC 1625 Cross Country Skiing**
1:0:5:1.5 Not 08-09
Presents basic ski touring techniques. Studies selection and utilization of winter touring equipment and clothing in relation to varying climatic and terrain conditions. Includes trail etiquette, avalanche avoidance, and other important factors for a successful winter tour. Includes classroom instruction and ski touring. Taught on block only.

**REC 2005 Ropes Course Facilitation**
2:1:3 On Sufficient Demand
Teaches students how to set up, facilitate, and take down high and low ropes course events and initiatives. Covers how to plan out a ropes course day, will learn why and how events are chosen and will learn about safety (physical and emotional).

**REC 2010 Avalanche Awareness**
2:2:0 F, Sp
Examines the relationship of people in the backcountry and their cause/effect relationship with ever-changing snow conditions. Prepares students to safely and effectively venture into the winter backcountry.

**REC 2200 Foundations of Recreation**
3:3:0 F, Sp
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 F, Sp
- Prerequisite(s): REC 2200
  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 On Sufficient Demand
- Prerequisite(s): REC 1527, REC 2400
Teaches top-rope site management and facilitation for instructing student rock climbers. Includes lecture methods and experiential learning, industry standard presentations and critiques of knot tying, belaying, rappelling, top-rope anchors, beginning lead climbing, and rescue techniques, presentations and critiques of placing passive and active anchors on simulated lead climbs and multi-pitch belaying. Teaches self and partner rescuing, ascending, route finding, crack and face climbing techniques, aid climbing, and soft skills to facilitate a positive and safe student experience. Features a trip to a regional climbing location and indoor climbing assignments outside of class. Prepares students to seek professional certification.

**REC 2500 Introduction to Adventure Recreation**
2:2:0 On Sufficient Demand
- Prerequisite(s): REC 2400
Introduces the study of Adventure Recreation. 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 F
- Prerequisite(s): REC 2400
Teaches leadership of outdoor and adventure education topics necessary for instructing the beginning student. Uses pedagogical lecture methods and experiential learning. Includes industry standard presentations and critiques of orienteering, map reading, packing, backcountry cooking.
campsite set-up, food rationing, river crossing, proper clothing, water purification, hygiene, weather forecasting, backcountry travel, Leave NO Trace ethics, and personal risk management. Requires hiking or orienteering assignments outside of class. Prepares students to qualify for certification as Wilderness Stewards through the Wilderness Education Association. Addresses risk management from both physical and emotional perspectives. 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 F
Prerequisite(s): 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
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 On Sufficient Demand
Prerequisite(s): REC 2400, Swim equivalency test
Develops the principles and concepts of experiential education in the water-based context and prepares students for further study and skill development in context specific experiential education programming. Teaches history, theory, and ethics in the domain; as well as, develops experience in the use of learning cycles, facilitation, feedback, processing and effective communication techniques. Includes industry standard presentations and critiques of water safety, hydrology, paddling and stroke technique, self and group rescue techniques, decision-making and judgment, program planning, weather, leave no trace, personal risk management, and equipment care and maintenance. Addresses risk management from both physical and emotional perspectives. Utilizes pedagogical lecture methods and experiential learning, and participation in experiential education programming. Requires observation and participation in programs outside of class time. Prepares students to seek professional certification.

**REC 3100 Recreation Program Planning**
3:3:0 Sp
Prerequisite(s): PES 2700 or instructor approval
Investigates program planning and development in outdoor programs, camps, agencies, and education organizations. Emphasizes writing of technical program plans that state goals, program organization, curriculum, budgets, marketing, and evaluation.

**REC 3300 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 Sp
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 F
Prerequisite(s): Junior Standing
Analyzes the internal organization of a recreation department dealing with finances and accounting, records and reports, publicity and public relations, state and federal legislation, staff organization, coordination of community resources.

**REC 3700 Resource Interpretation**
3:3:0 F
Investigates theories, principles, and techniques of interpreting park, cultural, and natural resources to the public.

**REC 3850 Ethical Concerns in Recreation**
3:3:0 F
Prerequisite(s): REC 2200, REC 2400
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 6:1:5 to 15 On Sufficient Demand
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 4:3:0 to 20 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 institution 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 4400 Park and Protected Area Management**
3:3:0 F
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 Sp
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 4:0:5 to 20 Su, F, Sp
Prerequisite(s): REC 420R, REC 3400, REC 3500
Provides supervised, hands-on field experience for excellent students preparing to take entry-level positions in recreation. May be repeated for a maximum of eight 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**
3:3:0 Su, F, Sp
Prerequisite(s): PES 2700
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 Philosophical Issues in Recreation, among others. May be repeated for up to 6 credits toward graduation.

**REC 4950**
Senior Seminar
3:3:0
- Prerequisite(s): Must have 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
- Prerequisite(s): PHIL 1610
- Examines key developments and conceptions in Christian ethics through historical and conceptual methodologies. Explores the relationship between religious and secular approaches to ethics in their approach to questions of war, economics, politics, and/or other relevant issues.

**RLST 3610** (Cross-listed with: PHIL 3610)
Introduction to Christian Theology
3:3:0
- Prerequisite(s): PHIL 1610
- Examines key developments and conceptions in Christian theology through historical and conceptual methodologies.

**RLST 3620** (Cross-listed with: PHIL 3620)
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
- 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, Emile Durkheim, John Hick, and Rene Girard.

**RLST 366R** (Cross-listed with: PHIL 366R)
Issues in Religious Studies
3:3:0
- 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. Addresses specific topics and theoretical approaches related to religious studies. Topics may include religion and violence, religion and public discourse, religious ritual, etc. Subject matter varies by semester and is repeatable for a total of nine hours of credit.

**RUS—Russian**

**RUS 1010**
Beginning Russian I
5:5:1
- Prerequisite(s): Students need equivalent knowledge of RUS 1010
- Studies first 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.

**RUS 1020**
Beginning Russian II
5:5:1
- 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.

**RUS 2010**
Intermediate Russian I
5:5:1
- Prerequisite(s): Students need equivalent knowledge of RUS 1020
- Reviews and builds upon the grammar, reading, writing, and conversation skills learned in the first year courses. Introduces readings and discussions on the history, culture, and literature of Russia, maintaining a focus on oral proficiency.

**RUS 2020**
Intermediate Russian II
3:3:0
- Prerequisite(s): Students need equivalent knowledge of RUS 2010
- Studies fourth-semester conversational Russian that is used in daily settings. Includes culture study, speaking, listening, reading, and writing. Emphasizes conversation in real life situations. Uses the Natural and Total Physical Response teaching methods. Completers should be able to converse enough to visit or work in a Russian speaking country.

**RUS 3050**
Advanced Russian
3:3:0
- Prerequisite(s): Students need equivalent knowledge of RUS 2020
- 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. Offers a perspective on Russian culture and gives an introduction to Russian literature.

**SOC—Sociology**

**SOC 1010**
Introduction to Sociology
3:3:0
- Studies and compares social groups and institutions and their interrelationships. Includes culture, socialization, deviance, stratification, race, ethnicity, social change, and collective behavior.

**SOC 101H**
Introduction to Sociology
3:3:0
- Studies and compares social groups and institutions and their interrelationships. Includes culture, socialization, deviance, stratification, race, ethnicity, social change, and collective behavior.

**SOC 1020**
Modern Social Problems
3:3:0
- Studies and analyzes modern social problems such as crime, delinquency, family dysfunctions and inequality and exploitation of people in contemporary society. Class requires volunteer experience in community agencies.

**SOC 1150** (Cross-listed with: 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.

**SOC 1200**
Sociology of the Family
3:3:0
- Studies the family from a sociological perspective. Covers historical and developmental patterns of courtship and marriage, dual careers, sexual adjustment, parenting, divorce, step families, and bereavement. Stresses personal values and the application of theories to individual situations.

**SOC 2370**
Gender Roles
3:3:0
- Examines sociological perspectives of gender roles worldwide. Explores biological, cultural, social, and environmental expressions of maleness and femaleness. Addresses the effect of these areas on the construction of gender roles in various cultures around the world. Investigates how roles have changed over time and the consequences of these changes to broader societal norms globally and in the U. S.

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SOC 275R Survey ofCurrent Topics 3:3:0 On Sufficient Demand
• Prerequisite(s): (ANTH 101G or PSY 1010 or SOC 1010) and ENGL 1010
  Presents selected topic in Sociology and will vary each semester. Approaches subjects from a cross-disciplinary perspective. Requires a project demonstrating competency in the specific topic. May be repeated for nine credits toward graduation.

SOC 3000 Contemporary Social Theory 3:3:0 F, Sp
• Prerequisite(s): SOC 1010 and (ENGL 2010 or ENGL 2020)
  Surveys major sociological theories, which provide the basis for sociological research and the interpretation of social processes.

SOC 3010 Statistics for the Behavioral Sciences 4:4:0 Su, F, Sp
• 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.

SOC 3020 Research Methods for the Behavioral Sciences 3:3:0 Su, F, Sp
• 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 statistics, without the detail. Requires a student designed research project and write-up of the results in APA Style.

SOC 320G Race and Minority Relations 3:3:0 Su, F, Sp
• Prerequisite(s): ENGL 2010 or ENGL 2020
  Studies ethnic and racial minority groups and the development of formal and informal relationships shared by these groups and the majority group. Explores the roles and origins of these groups and the concepts of prejudice, ethnic inequalities, current minority group movements, cross-cultural issues, economic, political, and educational aspects of majority-minority relations.

SOC 3240 Applied Marriage 3:3:0 F, Sp
• Prerequisite(s): (PSY 1010 or SOC 1010) and (ENGL 2010 or ENGL 2020)
  Increases knowledge of research based methods and programs to enhance marriage relationships. Prepares students to administer and evaluate pre-marriage and marriage assessments and teach selected portions of a marriage enhancement education program.

SOC 3250 Applied Parenting 3:3:0 F, Sp; DE
• 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.

SOC 3400 Sociology of Religion 3:3:0 On Sufficient Demand
• Prerequisite(s): SOC 1010 and (ENGL 2010 or ENGL 2020)
  Examines religion from a sociological perspective. Analyzes religion as a social phenomenon. Discusses religious organizations, religion and politics, and religion and social class.

SOC 3430 Sociology of Education 3:3:0 F
• Prerequisite(s): SOC 1010 and (ENGL 2010 or ENGL 2020)
  For students who desire a better understanding of United States and world education systems. Examines and investigates educational trends and issues such as private vs. public systems; dropout rates; desegregation; student achievement/failure; education policies; race; class; gender issues; the ‘Hidden Curriculum’; and education reform using Sociological theory and empirical research.

SOC 3450 Environmental Sociology 3:3:0 Sp
• Prerequisite(s): SOC 1010 and (ENGL 2010 or ENGL 2020)
  Explores in detail several different approaches to understanding the social causes of and solutions to environmental degradation. Discusses the development of a wide variety of theory-based critiques of various social institutions (e.g., economic, political, religious) and cultural values and how these institutions’ values can create and perpetuate unsustainable practices.

SOC 3460 Political Sociology 3:3:0 F
• Prerequisite(s): SOC 1010 and (ENGL 2010 or ENGL 2020)
  Explores the distribution of political power at the national and international levels from a variety of theoretical perspectives. Pays particular attention to the power wielded by international media conglomerates and the influence of international institutions such as the World Trade Organization, the World Bank, and the International Monetary Fund.

SOC 3500 Social Psychology 3:3:0 Su, F, Sp
• Prerequisite(s): (PSY 1010 or SOC 1010) and (ENGL 2010 or ENGL 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 3540 Sociology of Deviance 3:3:0 F
• Prerequisite(s): SOC 1010 and (ENGL 2010 or ENGL 2020)
  Examines the strengths and weaknesses of several different definitions of deviance. Explores 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 Intercultural Relations 3:3:0 Sp
• Prerequisite(s): (PSY 1010 or SOC 1010 and (PSY 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.

SOC 3700 Social Inequality 3:3:0 Su, Sp
• Prerequisite(s): SOC 1010 and (ENGL 2010 or ENGL 2020)
  Studies social structure, culture, environment (urban/rural axis), inequality, and poverty in American Society. Examines Spanish Harlem, Detroit, Appalachia, and the Bitterroot Valley of Montana.

SOC 4020 Survey Research Design 3:3:0 Su, F, Sp
• Prerequisite(s): (ENGL 2010 or ENGL 2020) and (ANTH 101G or PSY 1010 or 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 Introduction to Practice Evaluation and Grant Writing 3:3:0 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)
  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 (ENGL 2010 or ENGL 2020)  
Analyzes societies and their component parts. Evaluates various endogenous and exogenous forces which bring about social change. Examines historical and contemporary processes of social change and stratification. Explores current social conditions and applicable methods of social change. Offered once every other year.

**SOC 4660 (Cross-listed with: PSY 4660)**
Family Financial Management 3:3:0 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.

**SOC 4670 (Cross-listed with: PSY 4670)**
Family Dynamics and Systems 3:3:0 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 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 (ENGL 2010 or ENGL 2020)  
Presents selected topic in Sociology and will vary each semester. Requires a project demonstrating competency in the specific topic. May be repeated three times with different topics.

**SOC 499R 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.

**SOC 4995 (Cross-listed with: PSY 4995)**
Senior Seminar 3:3:0 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.

**SOSC—SOCIAL SCIENCE**

**SOSC 291H National Honors Study Topic**
3:3:0  
Sponsored and promoted by Phi Theta Kappa, national organization. Designed for an intellectual pursuit of National Honors Study topic. Discussion topic changes annually. Deals with current international issues that impact society and the quality of life. Students research and discuss the topic from several different perspectives and develop a knowledge base from which to formulate their own ideas.

**SPAN—SPANISH**

**SPAN 1010 Beginning Spanish I**
5:5:1 Su, F, Sp  
Emphasizes listening, speaking, and writing skills along with basic grammar, vocabulary, and verb conjugations, all within the cultural context of modern Hispanic societies. Uses an eclectic method of instruction, emphasizing conversational exchanges. Requires conversational lab. Encourages computer and multimedia lab.

**SPAN 1020 Beginning Spanish II**
5:5:1 Su, F, Sp  
- Prerequisite(s): Students need equivalent knowledge of SPAN 1010  
Includes the remaining grammar and language concepts, literature, and cultural readings. Uses an eclectic method of instruction, emphasizing conversational exchanges. Conversational lab required. Computer and multimedia lab encouraged.

**SPAN 1500 Spanish Travel Study**
3:1:6 On Sufficient Demand  
Introduces students to a Spanish-speaking foreign country for a minimum of 10 days of intensive language and culture study. Course entails several meetings prior to departure and at least one after the return home to facilitate observation and analysis of data to be gathered on the tour. An organized presentation of that data will be contained in a multimedia project due no later than one month after tour.

**SPAN 2010 Intermediate Spanish I**
5:5:1 F, Sp  
- Prerequisite(s): Students need equivalent knowledge of SPAN 1020  
Reviews and builds upon the grammar, reading, writing, and conversation skills learned in the first year courses. Introduces readings and discussions on the history, culture, and literature of the Spanish speaking world, maintaining a focus on oral proficiency.

**SPAN 2020 Intermediate Spanish II**
3:3:0 F, Sp  
- 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 2050 Advanced Spanish Grammar and Composition**
3:3:0 F  
- Prerequisite(s): SPAN 2020 or equivalent  
Explores the grammar of Spanish focusing on areas typically difficult for English speakers. Provides extensive instruction in, and opportunity for the students' improvement in oral production, both oral and written.

**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 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 3040 Introduction to Literary Genres in Spanish**
3:3:0 F  
- Prerequisite(s): SPAN 2050 or equivalent  
Explores different literary genres in the Spanish language. Provides extensive opportunity for improvement in oral and reading/writing development of language skills. Completers should considerably improve their ability to express themselves in the foreign language. Taught entirely in Spanish.

**SPAN 3050 Advanced Spanish**
3:3:0 Su, F, Sp  
- Prerequisite(s): One-year residency in Spanish speaking country, or placement test  
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 2010 and SPAN 2020, which together will be somewhat equivalent to SPAN 3050.)
Course Descriptions

SPAN 3060
Oral Proficiency 1:1:0
- Pre- or Corequisite(s): 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
- 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
- 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
- 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
- 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
- Prerequisite(s): SPAN 3050 or equivalent
Introduces chronologically to 1800 representative Spanish authors. Emphasizes literary analysis and criticism. Completers should develop knowledge of literary history, acquire skills in interpreting literary texts, and deepen understanding of the Spanish language. Presentations and class instruction conducted entirely in Spanish.

SPAN 3620
Spanish Peninsular Literature from 1800 3:3:0
- Prerequisite(s): 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 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 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 4100
Teaching Spanish Grammar 3:3:0
Prerequisite(s): SPAN 3050
Corequisites(s): LANG 4200 recommended.
Prepares prospective Spanish educators to acquire the strategies, methodology and techniques of how to present deductive and inductive principles of Spanish grammar. Discusses basic theory, principles and tools of Spanish linguistic issues. Includes extensive principle development and microteaching used as an assessment tool.

SPAN 4110
Translation and Interpretation 3:3:0
- 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 2020 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 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 “Certificado Superior de Espanol de los Negocios” examination. Taught entirely in Spanish.

SPAN 460R
Topics in Hispanic Literature 3:3:0
On Sufficient Demand
- Prerequisite(s): SPAN 3610 or SPAN 3620 or SPAN 3630 or SPAN 3640
Advanced study of literature in Spanish. Addresses key texts representative of the development of genres, themes, or individual authors’ works. Engages students in critical analysis and discourse. Possible topics include Medieval Spanish Literature, the “Generacion del 98”, the works of Jorge Luis Borges, or the recent Spanish American Novel. Conducted entirely in Spanish. May be repeated for a maximum of six credits toward graduation.

SPAN 4610
Golden Age Spanish Literature 3:3:0
On Sufficient Demand
- Prerequisite(s): SPAN 3610 or SPAN 3620 or SPAN 3630 or SPAN 3640
Examines the literature of Spain from the XVI and XVII centuries. Addresses key texts representative of the social, historical, political, and metaphysical themes of the Spanish Golden Age. Engages students in critical analysis and discourse. May include the study of the novel, short narrative, drama or poetry. Conducted entirely in Spanish.

SPAN 4630
Contemporary Peninsular Literature 3:3:0
On Sufficient Demand
- Prerequisite(s): SPAN 3610 or SPAN 3620 or SPAN 3630 or SPAN 3640
Introduces the major works of Spanish authors in the latter part of the 20th and early 21st centuries. Involves students in close reading and textual analysis through class discussion, written projects, examinations, and oral presentations. Conducted entirely in Spanish.

SPAN 4660
Contemporary Spanish American Literature 3:3:0
On Sufficient Demand
- Prerequisite(s): SPAN 3610 or SPAN 3620 or SPAN 3630 or SPAN 3640
Introduces the major works of Spanish American
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writers in the latter part of the 20th and early 21st centuries. Involves close reading and textual analysis through class discussion, written projects, examinations, and oral presentations. Conducted entirely in Spanish.

SPAN 4900 Capstone Seminar

- Prerequisite(s): 18 credits of upper-division Spanish courses or instructor approval
Explores and reviews comprehensively the undergraduate Spanish course work, providing instruction and testing in specific areas to verify student competency. Completion of a specific reading list required.

**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
Presents selected topic in Social Work and will vary each semester. Approaches subjects from a cross-disciplinary perspective. Requires a project demonstrating competency in the specific topic. May be repeated for nine credits toward graduation.

| SW 3150 | Survey of Dispute Resolution |
| 3:3:0 | F, Sp |

• Prerequisite(s): (SW 1010 or PSY 1010 or SOC 1010) or ENGL 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.

| SW 3410 | Fundamentals of Mediation and Negotiation |
| 3:3:0 | F, Sp |

• Prerequisite(s): (SW 1010 or PSY 1010 or SOC 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.

| SW 3500 | Social Welfare Policies and Services |
| 3:3:0 | F, Sp |

• Prerequisite(s): SW 1010 and (ENGL 2010 or ENGL 2020)
Analyzes current social policy within the context of historical and contemporary factors that shape policy. Examines major social forces and institutions as they relate to and determine social policy emphasizing social welfare services in an industrialized society. Evaluates social welfare frameworks in light of the principles of social and economic justice. Identifies effect of social policy on generalist social work practice.

| SW 3550 | Thanatology--Death and Dying |
| 3:3:0 | On Sufficient Demand |

• Prerequisite(s): (SW 1010 or PSY 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 illnesses, 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 |
| 4:3:3 | F, Sp |

• 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 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 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.

| SW 4100 | Advanced Mediation and Negotiation |
| 3:3:0 | F, Sp |

• Prerequisite(s): PSY 3410 or SW 3410 or COMM 3410 or LEGL 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.

| SW 4200 | Domestic Mediation |
| 3:3:0 | F, Sp |

• 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.
Course Descriptions

SW 4400 (Cross-listed with: PSY 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)  
Discusses group therapy theory, research applied to client assessment and outcomes, legal and ethical issues. Includes screening, assessment, treatment, evaluation, and termination of group members.

SW 4600 (Cross-listed with: PSY 4600)  
The DSM of Mental Disorders  
3:3:0  F, Sp  
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  F, Sp  
- Prerequisite(s): SW 1010 and PSY 3400 and senior in Behavioral Science program  
Provides the conceptual foundation for providing case management services and crisis intervention to individuals in various population groups.

SW 475R  
Current Topics in Social Work  
3:3:0  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 (Cross-listed with: PSY 4800)  
Practicum  
3:3:0  Su, F, Sp  
- 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.

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 gates. 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  
Introduces 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, SST 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 2120  
- 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 cabling 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 2120, CS 2600  
- Corequisite(s): TCT 221L  
Introduces wireless communications 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.
Course Descriptions

TECH 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.

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
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  Sp
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
1:0:3  On Sufficient Demand
• Prerequisite(s): TECH 1000
  Designed to allow students to obtain technical experiential credit through an approved portfolio. Portfolio is developed and approved in TECH 1000. Up to 16 hours may be used toward graduation.

TECH 2000
Technology and Human Life
3:3:0  SS F, Sp
Designed to acquaint students with the main technologies affecting their culture and the global community. Places special emphasis on the moral, social, economic, legal, and political consequences. Introduces students to the major biotechnologies, information technologies, robotics and manufacturing, space, and military technologies of their generation. Explores the central writings and personalities leading the analysis of technology in the 21st century.

TECH 2010
Supervision in Technology
3:3:0  On Sufficient Demand
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
• 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 “Appreciative Inquiry” as an alternative management of change technique. Examines inventors and the invention process, including the patent process. Uses lecture, discussion, group projects, case studies, class activities, presentations, videos and guest lecturers.

TECH 3400 (Cross-listed with: INFO 3400)
Project Management
3:3:0  F, Sp
• Prerequisite(s): Computer Literacy and (TECH 3000 or INFO 3430)
  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
3:3:0  F, Sp
• 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 Six Sigma practices, continuous process/product improvement, best practices, statistical methods, performance measurements, management of supplier partnerships, cost of poor quality, leadership and employee involvement, quality function deployment and global quality initiatives. Assists in preparing students for the relevant professional certifications for career enhancement.

TECH 4000
Reliability Engineering and Safety
3:3:0  F, Sp
• Prerequisite(s): TECH 3000
  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 (Cross-listed with: INFO 4050)
Global Ethical and Professional Issues in Technology
3:3:0
• 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.
Course Descriptions

Applies concepts to technology planning and innovation. Prepares for national distribution certifications.

TECH 4300 Advanced Technical Experience 3:3:0 Not 08-09
- Prerequisite(s): TECH 3400 or INFO 3400
A capstone course for Bachelor's Degree Technology Management majors. Broadens technical skills through group participation, individual investigation, problem solving, and the application of applied research in technology development. Includes the preparation of development plans in a student's chosen discipline.

TECH 4400 Advanced Project Management 3:3:0 F, Sp
- Prerequisite(s): TECH 3400 or INFO 3400
Presents advanced tools and techniques which build on the concepts presented in introductory project management class. Covers principles for managing multiple projects. Studies best practices for project management. Introduces the activities of Program Management, Project Portfolio Management and Strategic Project Leadership and Management. Analyzes basic cost justification techniques for making economic decisions in technical organizations.

TECH 4420 Organization Information Technologies 3:3:0 F, Sp
- 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 3:0:5 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 College 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 4910 Senior Capstone Project 3:1:6 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
- 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 Su, F, F, DE
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 Su, F, F, DE
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 utilization 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 Su, F, F, Sp
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 (I.P.A) combined with lectures, films, demonstrations, and critiques.

THEA 1223 Makeup for Stage and Screen I 3:3:0 F, Sp
Introduction to character makeup application for stage and screen with emphasis on corrective, age, and period with some stylized applications. Studies include the development of physical characterization for scripted characters.

THEA 1513 Stagecraft for Stage and Screen I 3:3:0 F, Sp
Surveys all elements of theatre and film production including sets, lighting, sound, properties, and costumes. Offers experience in the construction, painting, dressing, and striking of sets and props; the hanging, focusing and gelling of lighting instruments; the preparation of sound effects; and the operation of sound and lighting control equipment. Utilizes lecture, demonstration, films, and observation of working production facilities and personnel.

THEA 159R Production Practicum for Stage and Screen I 1:1:2 F, Sp
Provides the opportunity for freshmen students to earn college credit for supervised projects in production for the period up to dress rehearsal and during strike. Involves the development of a contract between the student and the assigned instructor. May be repeated for a maximum of 2 credits toward graduation.

THEA 1713 Script and Text Analysis 3:3:0 F, Sp
Introduces students to the analysis of story-based text across a range of media. Covers dramatic narrative and semiotic theory and dramatic literature from various periods in theatre history. Utilizes lecture, discussion, script and text analysis, film viewing, and live production attendance.

THEA 2033 Fundamentals of Acting II 3:3:0 F, Sp
- Prerequisite(s): THEA 1033, THEA 1113
Designed to build upon the techniques learned in THEA 1033. Emphasizes character development and application in creating a role through intense scene study of scripts in both stage and screen.

THEA 2123 Introduction to Movement for the Actor 3:3:0 Sp
Designed to help actors for both stage and screen develop the physical awareness and self-discipline critical to effective performance of period style, staged combat, and the musical. Emphasizes balance, strength, postural correction, energy drives, motivation, and basic movement vocabulary.

THEA 219R Performance Practicum for Stage and Screen 1:0:3 F, Sp
- Prerequisite(s): Permission of instructor
Provides opportunity for earning college credit for supervised performance and production...
assignments in UVU theatre productions from dress rehearsal through closing performance (excluding strike). Allows students to apply learned skills to productions that are currently in performance. Criteria for project completion will be negotiated with the instructor or Department Chair on an individual basis. May be repeated for a maximum of 3 credits toward graduation.

THEA 2203 
Costume Construction for Stage and Screen I 
3:3:0 
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 213 
Film History I 
3:2:3 
Prerequisite(s): THEA 1023 
Explores the development of the feature film, both in America and abroad from 1895 to 1945. Covers the evolution of motion pictures from conception as an entertainment novelty (c. 1895) to the mass-audience commercial art form of the 1940’s. Examines film as a serious historical study of a form of mass communication, which has had ethical, social, and political consequences on society. Includes lecture, screenings, and demonstrations with critical discussions of assigned readings and films.

THEA 223 
Film History II 
3:2:2 
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 
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 
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 6 credits toward graduation.

THEA 2503 
Stagecraft II 
3:3:0 
Prerequisite(s): THEA 1513 
Develops intermediate skills in the various stage crafts including carpentry, property construction, lighting and sound for theatre and film. Includes further education in drafting; set and lighting principles; professional, management and safety practices. Students fulfill assigned responsibilities for UVU theatrical productions.

THEA 2513 
Introduction to Design for Stage and Screen 
3:3:0 
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 
1:0:3 
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 2713 
Introduction to Writing for the Stage and Screen 
3:3:0 
Prerequisite(s): THEA 159R 
Introduces dramatic writing in plays and screenwriting. Covers script format, 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 
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 
Prerequisite(s): THEA 212 
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 
Non-Fiction Cinema History 
3:2:3 
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 
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 3203 
Stage Dialects 
3:3:0 
Prerequisite(s): THEA 1113 
Teaches the creation of believable characters from various linguistic backgrounds. Emphasizes ill-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 3313 
Stage Combat 
3:3:0 
Prerequisite(s): THEA 2123 
Teaches basic principles of stage combat/ choreography and safety practices.

THEA 314G (Cross-listed with ENGL 314G, COMM 314G) 
Global Cinema History 
3:2:3 
Prerequisite(s): ENGL 2150 
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 
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 
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 
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 
Prerequisite(s): THEA 3413 
Further develops and refines the performer’s abilities as a singer, dancer, and actor. Links trends in musical theatre with past and present artistic choices. Explores design aspects of musical theater and thematic integration of acting, singing, and dancing. Includes lecture, discussion, film, rehearsal, and performance.
THEA 3513  Set and Prop Construction and Painting  3:3:0  F

- Prerequisite(s): THEA 2513

Focuses on integration of elements and phases of advanced set construction, property construction and paint finishes for theatrical sets. Includes shop experience and work on UVU theatre productions.

THEA 3533  Lighting and Sound Design I  3:3:0  F

- Prerequisite(s): THEA 2513

Focuses on the designing and practical application of theatrical lighting and sound. Includes laboratory work on UVU theatre productions.

THEA 3553  Period Styles for Theatre Design  3:3:0  F

- Prerequisite(s): THEA 2513

Introduction to historical styles of architecture, painting, and dress as they influence theatrical design.

THEA 359R  Production Practicum for Stage and Screen III  1:0:3  F, Sp

- Prerequisite(s): THEA 259R

Provides opportunity to earn college credit for managing projects in production for the period up to dress rehearsal and during strike. This includes projects in lighting, sound, costumes, props, scenery, design, stage management, running crews, house management or publicity. Involves the development of a contract between the student and the assigned instructor. May be repeated for a maximum of 2 credits toward graduation.

THEA 3563  Art Direction for Film  3:3:0  Not 08-09

- Prerequisite(s): THEA 3553

Focuses on the basics of production design and art direction, the importance of costumes, props, locations selection, special effects, and set decoration in the visual presentation of a cinematic story.

THEA 3613  Directing Actors I  3:3:0  Sp

- Prerequisite(s): (THEA 1715 and THEA 1033) or DGM 2110

Introduces basic directing techniques utilized in casting and rehearsing actors for stage and screen performance. Places emphasis on achieving honest and believable performances in the intimate style of camera acting, as well as the highly physical acting style of the stage. Includes studies in script structure, visualization, movement, pace and rhythm, gesture, casting techniques, and rehearsal techniques.

THEA 3623  Directing Actors II  3:3:0  F

- Prerequisite(s): THEA 3613

Builds upon concepts covered in Directing I. Includes class workshops and demonstrations followed by class/instructor critique. Requires completion and presentation of a director’s book. Culminates in public presentation of a one-act play.

THEA 3633  Introduction to Stage and Theatre Management  3:3:0  F, Sp

- Prerequisite(s): THEA 1513

Introduces students to the basic processes of creating and managing a theatre production organization. Includes introductory structural organization, collaboration, strategic planning, accounting, and marketing concepts, procedures, and simulation exercises. Prepares students for upper division courses in theatre management.

THEA 3713  Children’s Theatre in the Elementary School  2:2:1  F, Sp

- Prerequisite(s): THEA 1033

Prepares students for teaching the arts at the elementary school level. Studies storytelling, story theatre, mask drama, puppetry, and creative dramatics. Includes lectures, demonstrations, workshops, rehearsals and performances before children in local elementary schools. Addresses the Utah State Core Curriculum in Theatre for the elementary school. Completion of a second course is required to satisfy the fine arts requirement (see Graduation section of catalog).

THEA 3722  Theatre History and Literature I  3:3:0  F

- Prerequisite(s): THEA 1013, THEA 1713, ENGL 2010 or ENGL 2020

Examines the history of the theatre from its earliest origins through the Renaissance. Emphasizes theatre practice in its social, political and economic contexts. Introduces the theory and skills necessary for writing analytically about the theatre.

THEA 3733  Theatre History and Literature II  3:3:0  Sp

- Prerequisite(s): THEA 3723

Examines the history of the theatre and its associated literature and artists from the Restoration to the present time. Focuses on historical theatre practice in its social, political and economic contexts. Introduces the theory and skills necessary for writing performance reviews and extended research papers in theatre.

THEA 374R  New Script Workshop  2:2:3  Not 08-09

- Prerequisite(s): THEA 2713 or THEA 3753 or THEA 3133 or THEA 3613

Acts as a reading, performance, discussion and improvisation lab for scriptwriter’s creative works. Involves students in the process of polishing, refining, and brainstorming dramatic works. Supports original student scripts with the ultimate goal of production. Integrates the work of writers, directors and actors into a collaborative effort. Includes active class discussions, readings, improvisations, written and oral presentations and critiques, research and completion of a project. May be repeated for a maximum of 6 credits toward graduation.

THEA 3753  Script Writing II  3:3:0  Sp

- Prerequisite(s): THEA 2713 or Permission of Instructor

Builds and enlarges on the specific writing craft elements of plot, character, and theme introduced in prior writing classes. Examines plot structures in one-act plays and short films including documentaries. Involves students in identifying and strengthening weaknesses or challenges in their own as well as fellow students’ original scripts. Includes active class discussions, readings, written and oral presentations, research and final projects of a one-act play or short film from 30 to 60 minutes in length.

THEA 4113  Auditioning  3:3:0  F

- Prerequisite(s): THEA 1033

Prepares the student with the specific skills and knowledge to audition for stage and/or screen and to find success in the audition process, both psychologically and physically. Includes resumes and interview skills.

THEA 4123  Acting Styles  3:3:0  F

- Prerequisite(s): THEA 2033, THEA 3123, THEA 3133, and THEA 3723

Includes advanced preparation for performance of classical texts. Emphasizes voice, speech, movement, and character development. Covers Greek and Roman acting styles, Commedia dell Arte and 17th Century French Neoclassic styles, Shakespearean Tragedy and Comedy, Comedy of Manners, and 19th Century Romanticism and Melodrama. Also includes a brief introduction to Modern and Post-modern acting styles.

THEA 414R  Special Topics in Cinema History  3:2:3  Not 08-09

- Prerequisite(s): THEA 1023

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. May be repeated for a maximum of nine credits toward graduation.

THEA 416R  Special Topics in Film Studies  3:2:3  Not 08-09

- 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 4200  Theatre Arts Secondary Teaching Methods  3:3:0

- 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 lecture, discussion, writing, activities, and classroom teaching experiences in the college and public school settings.

THEA 4213 Costume Design I
3:3:0 F
Prerequisite(s): THEA 2513, THEA 3203, 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 Not 08-09
• 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 457R Special Projects in Design for Stage and Screen 1 to 3:0:3 to 9 Not 08-09
• Prerequisite(s): THEA 3223, or THEA 4233, or THEA 4513, or THEA 4533
Involves work on approved projects requiring sophisticated skills in scenic, lighting, costume, or makeup design. May include designs for UVU productions or for community and regional performing groups. Requires approval by appropriate theatre faculty. May be repeated for a maximum of 3 credits toward graduation.

THEA 4633 Theatre Management II
3:3:0
• 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 08-09
• Prerequisite(s): THEA 3753
Extends student dramatic writing skills by creating, rewriting, and polishing a full-length film or play. Focuses on choice of material for specific audiences as well as the specific issues of adaptation of material from an already published source. Emphasizes the processes of selection, securing legal rights, adaptation management imperative to the success of a venture. Includes active class discussions, readings, written and oral presentations, research and final readings of student’s completed projects.

THEA 475R Special Projects in Dramatic Writing 2 to 9:1:4 to 12 Not 08-09
• Prerequisite(s): THEA 4713
Offers upper-division directed study with profession- al/academic supervision to motivated students for writing projects such as commissioned or speculative script and/or dramatic works, i.e. musicals, one-man shows, guerilla theatre, mimes, short or full-length films, documentaries, television shows, sit-coms, movies-of-the-week and other forms not covered by current classes. Allows for a semesters of writing/re-writing and/or critique/development and possible workshop presentation. May be repeated for a maximum of 9 credits toward graduation.

THEA 481R Theatre Internship 1 to 8:0:5 to 40 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 490R Independent Study 1 to 5: 1 to 0: 3 to 15 Not 08-09
Provides independent study as directed in reading and individual projects at the discretion and approval of the Dean and/or Department Chair. May be repeated for a maximum of 3 credits toward graduation.

THEA 497R Professional Topics 1:1:0 Not 08-09
• Prerequisite(s): Junior Status Theatre Major, Department Approval
For those intending to enter professional theatre. Includes, but not limited to, the following topics: literature, research, analysis, design, management or performance aspects of theatre and the performing arts. May be repeated for a maximum of 3 credits toward graduation.

THEA 4981 Portfolio 1:1:0 F
• Prerequisite(s): THEA 2513 and THEA 3733
Features development of student portfolio for the areas of performance, design, management, directing, script writing, and performance. Includes interview skills and website development. Emphasizes placement in the theatrical job market or graduate school placement.

THEA 4993 Senior Project 3:3:0 F, Sp Not 08-09
• Prerequisite(s): THEA 3733 and Senior Status
Provides credit for independent projects and research of advanced nature in the area of Theatre Arts under faculty supervision. Requires an area of study to be designated.

Course Descriptions

WELD—WELDING TECHNOLOGY

WELD 1010 Related Oxyacetylene Welding 2:1:3 Not 08-09
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 Not 08-09
A specialty course designed for various trades and community members. For beginning students interested in learning basic arc welding techniques, theory, and practices including types of machines, electrodes and their application. Studies types of joints, expansion and contraction of metals, inspection and testing of welds, care and use of tools and equipment, as well as safe practices in welding.

WELD 1030 Related Oxyacetylene and Arc Welding 3:1:7 F, Sp Not 08-09
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 08-09
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 08-09
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 bead- ing, fillet and groove welds in flat positions. Emphasizes safety, proper care and use of equipment.
Course Descriptions

WELD 1200 Intermediate Arc Welding 6:2:13 Not 08-09
- 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 08-09
- Prerequisite(s): EGDG 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 08-09
- Prerequisite(s): MAT 0800 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 08-09
- 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 08-09
- 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-contractures, fabrication and layout. Introduces MIG welding and TIG welding.

WELD 1320 Industrial Maintenance 4C 5:5:0 Not 08-09
- 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 08-09
- 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 AWSF7018.

WELD 1340 Industrial Mechanics Orientation and Fundamentals 5:5:0 Not 08-09
For Mechanical Repair Apprentices. Covers applied math, physics, measuring and blue print reading.

WELD 1350 Industrial Maintenance 3D 5:5:0 Not 08-09
- 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 08-09
- Prerequisite(s): WELD 1100, WELD 1200
Studies theories and principles of arc welding equipment and techniques. Emphasizes vertical and overhead positions welding. Includes lab. Successful completers must have passed welding qualification tests in all four welding positions with AWSF7018.

WELD 2310 Welding Inspection 2:2:0 Not 08-09
For Welding Technology majors. Presents skills and techniques to assist welders and welding inspectors to better perform their duties. Procedure and qualification testing welding inspectors 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 08-09
For Welding Technology majors. Emphasizes welding carbon and alloy steels used with metals such as cast irons, 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 08-09
- Prerequisite(s): WELD 1100, WELD 1200, WELD 2300

WELD 2410 Advanced Blueprint and Design 3:2:3 Not 08-09
- Prerequisite(s): EGDG 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 8:3:5 to 40 Not 08-09
- 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 related class are coordinated and approved by the Cooperative Coordinator. Includes student, employer, and coordinator evaluations, on-site work visits, written assignments, and oral presentations. Gives experience in writing and completing individualized work objectives that improve present work performance.

WELD 285R Cooperative Correlated Class 1:1:0 Not 08-09
- Corequisite(s): WELD 281R
For Welding Technology majors. Designed to identify on-the-job problems and provide remediation of those problems through in-class discussion and study. Includes the study of identifying and maximizing service opportunities. Students register for this class with approval of the Cooperative Coordinator. Methods include lecture, guest speakers, video tapes, role playing, case analysis, oral presentations, and written assignments. Completers should be better able to perform in their field of work or study.

WELD 299R VICA 1:1:0 Not 08-09
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.

ZOOLOGY

ZOO 1090 Introduction to Human Anatomy and Physiology 3:3:0 Su, F, Sp; DE
- Prerequisite(s): BIOL 1010 or BIOL 1610
Presents a basic introduction to the sciences of anatomy and physiology. Covers the basic structure and function of the human body at the cellular, tissue, organ, and system levels. Provides a foundation of particular value for pre-nursing students who wish to have a preview of their required life science courses.

ZOO 2320 Human Anatomy 4:3:3 Su, F, Sp
- Prerequisite(s): 1. BIOL 1010 or BIOL 1610.
- ENGL 1010 or one of the following assessment exam scores or higher: Reading DRP 85 or English Writing skills 80 or Pre-algebra 70 or Algebra 31. Or 3. 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**  
| Credits: | 4:3:3 |  
| F, Sp |  
| Prerequisite(s): 1. BIOL 1010 or BIOL 1610, 2. ENGL 1010 or one of the following assessment exam scores or higher: Reading DRP 85 or English Writing skills 80 or Pre-algebra 70 or Algebra 31. Or 3. 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 biomedical sciences, especially pre-nursing, pre-med, pre-dent, and pre-vet students. Emphasizes the role and value of anatomical knowledge in health and disease. Covers the same general material as ZOOL 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**  
| Credits: | 4:3:2 |  
| On Sufficient Demand |  
| 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**  
| Credits: | 4:3:3 |  
| Su, F, Sp |  
| 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**  
| Credits: | 4:3:3 |  
| F, Sp |  
| 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**  
| Credits: | 3:2:2 |  
| F |  
| Prerequisite(s): junior standing |  
| Designed for students who plan to apply for admission to dental schools. Basic course designed to introduce students to the art, science, and practice of dentistry. Subjects include dental terminology, tooth morphology, dental materials, dental school application and curriculum and the professional career. Includes weekly laboratory. Will not count toward the departmental upper-division elective requirement. |  

**ZOOL 3100 Vertebrate Zoology**  
| Credits: | 4:3:2 |  
| F |  
| Prerequisite(s): BIOL 1010 or 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**  
| Credits: | 4:3:2 |  
| Sp |  
| Prerequisite(s): BIOL 1010 |  
| A course for intended Zoology and Biology majors covering the anatomy, physiology, systematics, evolution and ecology of invertebrate animals. Includes field trips and weekly laboratory. |  

**ZOOL 3300 Herpetology**  
| Credits: | 3:2:2 |  
| Sp (Even Years) |  
| Prerequisite(s): BIOL 1610 and BIOL 1620 |  
| Covers the evolution, ecology, and diversity of reptiles and amphibians. Includes active class discussions, oral presentations. Emphasizes native Utah herpetofauna. Includes weekly laboratory and required field trips. |  

**ZOOL 3430 Entomology**  
| Credits: | 3:3:0 |  
| On Sufficient Demand |  
| Prerequisite(s): BIOL 1620 and BIOL 1625 |  
| Corequisite(s): ZOOL 3435 |  
| An introduction to the study of insects, including insect diversity and classification, anatomy and physiology, relationships to other animals and plants, behavior, and ecology. Also includes the application of the study of insects to pest management, environmental assessment, and forensic investigations. |  

**ZOOL 3435 Entomology Laboratory**  
| Credits: | 1:0:2 |  
| On Sufficient Demand |  
| Corequisite(s): ZOOL 3430 |  
| Laboratory to accompany ZOOL 3430. Will examine collection, preservation, and identification of insects. An individual reference collection is required of each student. |  

**ZOOL 3500 Mammalogy**  
| Credits: | 4:3:2 |  
| On Sufficient Demand |  
| Prerequisite(s): BIOL 1620 required, ZOOL 3100 strongly recommended |  
| Explores the taxonomy, morphology, behavior, ecology, evolution, development, and conservation of mammals. Includes three weekly lectures and a weekly laboratory. |  

**ZOOL 3700 Exercise Physiology**  
| Credits: | 4:3:3 |  
| Su, F, Sp |  
| 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**  
| Credits: | 3:3:0 |  
| Sp |  
| Prerequisite(s): BIOL 1620 and ZOOL 3100 |  
| 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**  
| Credits: | 3:0:0 |  
| Not 08-09 |  
| 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**  
| Credits: | 4:3:2 |  
| On Sufficient Demand |  
| Prerequisite(s): BIOL 1620 or MICR 2060 or BIOL 1010 |  
| Introduces the study of parasites. Emphasizes the biology of principal groups of parasites affecting humans and livestock, including their medical and economic significance. Laboratory experience will involve identification of parasites. Includes weekly laboratory. |  

**ZOOL 4300 Histology**  
| Credits: | 4:3:2 |  
| F (Alternate years) |  
| Prerequisite(s): (ZOOL 2320 or 252H) or written permission of the instructor |  
| For pre-professional students pursuing biomedical careers and Biology majors with a particular interest in vertebrate structure and function. Studies the microscopic structure of the body at the cellular, tissue, and organ levels. Emphasizes physical and functional relationships of various tissues in the organs of the body. Includes weekly laboratory. |  

**ZOOL 4400 Pathophysiology**  
| Credits: | 4:4:0 |  
| Su, F, Sp |  
| 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}
Course Descriptions

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.

ZOO 4500
Comparative Vertebrate Zoology
4:3:3 On Sufficient Demand
- Prerequisite(s): (Biol 1010 or Biol 1610) or (Zool 1090 or Zool 2320) and (Engr 1010 with a grade of C- or better)
Studies the structure and function of vertebrates at the cellular, tissue, organ and systems levels. Emphasizes developmental and evolutionary comparative aspects of mammalian, avian, reptilian, amphibian, and piscian organs and systems. Includes weekly laboratory.

ZOO 4600
Ornithology
4:3:2 F
- Prerequisite(s): Biol 1620, Zool 3100 highly recommended
Provides an in-depth study of avian evolution, systematics, developmental anatomy (wings, beaks, feathers), physiology, and social and reproductive behavior. Emphasizes an evolutionary and adaptive theme to the study of birds. Includes lectures, laboratories and field trips.

ZOO 4700
Advanced Anatomy
4:2:6 F, Sp
- Prerequisite(s): Zool 2320 or permission of the anatomy program coordinator
For students interested in biomedical science careers or with a special interest in anatomy. Covers principles and techniques of anatomical investigation and specimen preparation. Provides supervised experience in human cadaver dissection, anatomic interpretation of radiographs, craniometrics, and palpation of the body. A regional dissection approach will be used in the lab. Requires problem solving and analytical thinking. Includes the theory and basic principles of various forms of diagnostic imaging, light and electron microscopy, skeletal preparation, and injection/maceration techniques. Includes weekly laboratory.

ZOO 4750
Human Physiology A Cell Biology Approach
4:3:3 Not 08-09
- 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.

ZOO 4780
Neuroscience
4:4:0 On Sufficient Demand
- Prerequisite(s): Zool 2420
Focuses on neurobiology and neuroscience, covering aspects of molecular and cell biology, physiology, pharmacology, anatomy and the interplay of these and other disciplines in our understanding of the structure and function of the nervous system.

Topics to be covered include neuroanatomy and developmental neurobiology, electrophysiology and membrane specializations related to signal propagation and signal transmission, neurotransmitter function and neuropharmacology, structure and function of simple neuronal circuits and complex neural networks and the plasticity of the nervous system, among others. Incorporates discussion of journal articles related to the latest advances in neuroscience. Requires students write a paper on a neuroscience topic of interest to them.
Wasatch Campus

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The UVU-Wasatch Campus is located in Wasatch County between Park City and Heber City, Utah, approximately 30 miles from the Orem Campus. The campus tag line is “Success Elevated.” Students and visitors will feel the energy and excitement of a university campus where the elevation is 6,000 feet. Students come first and success is our priority. The Wasatch Campus is for those who appreciate smaller classes, excellent faculty and staff that are committed to individual academic support and attention.

For more information about the Wasatch Campus, see www.uvu.edu/wasatch.

The UVU Wasatch Campus serves the higher education needs in the Wasatch and Summit Counties mountainous communities. Additionally, because of the picturesque location the campus specializes in programs that are unique to the area. Students attending the Wasatch Campus appreciate the opportunity of access to high-paying, quality jobs in the service region. The Wasatch Campus is truly a distinctive experience.

All classes are accredited by Northwest Accreditation and transfer to other colleges and universities within the state of Utah, and credits should be accepted by other accredited institutions. Complete information about the classes for the current semester is available online at the website www.uvu.edu/acadsched.

ACADEMIC PROGRAMS AND DEGREES

Accounting  
Behavioral Science - Psychology  
Business Management  
Communications  
Elementary Education  
General Academics  
Nursing  
Technology Management  
Hospitality Management

The Wasatch Campus offers four-year degrees in Bachelors of Science and two-year degrees in both Associate in Arts and Associate in Science. General Education classes, essential to meeting the general education requirements for an Associate in Arts or Science degree, are offered each semester. All classes are accredited by Northwest Accreditation and transfer to other colleges and universities with the state of Utah, and credits should be accepted by other accredited institutions.

Classes are available both during the day and evening. Complete information about the classes for the current semester is available online http://www.uvu.edu/wasatch/.

An Associate Degree is a minimum of 60 hours, and the candidate must show satisfactory completion of appropriate program requirements. Graduation requirements for the Associate in Science/Arts Degree can be found in the Graduation and General Education section of the catalog.

STUDENT SERVICES

The following student services are available:

• Academic, career and financial aid advisement
• Admissions, registration and cashiering services
• Testing and assessment services
• Computer labs equipped with internet access
• Bookstore
• Library
• Wireless internet
• Student Life
  • Student Activities
  • Clubs and Organizations
  • Student Leadership Opportunities
  • Intramurals
• Counseling Services (coordinated with Orem Campus)
  • Accessibility
  • Mental Health
  • Career Services

Several scholarships are available to students attending the Wasatch Campus.

COMMUNITY EDUCATION

The Wasatch Campus and School of Continuing and Adult Education sponsor courses and programs to provide lifelong education opportunities for residents of our service region. 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.

Classes are available both during the day and evening. Complete information about the classes for the current semester is available online: https://aceware.uvu.edu/SubGroup.awp?~CEW~DISCOVER+Community+Ed+WasatchCampus.
GENERAL OFFICERS

President ................................................................. William A. Sederburg
Assistant Attorney General ............................................ David C. Jones
Assistant to the President for Institutional Planning and Development ....................... Cameron K. Martin
Director, Institutional Research .................................. Robert Loveridge
Director, Institutional Effectiveness ............................... TBD
Director, Compliance & Policy Administration .................... Nancy Bartlett
Special Assistant to the President, Constituent Relations ....................... Vincent T. Fordiani
Vice President, Academic Affairs ..................................... Elizabeth J. Hitch
Vice President, Student Affairs ....................................... Cory L. Duckworth
Vice President, Administration and External Affairs .............. Val L. Peterson
Vice President, Institutional Advancement and Marketing ................... Val Hale
Executive Director of Budgets ........................................ Linda L. Makin
Internal Auditor .......................................................... Brent R. Turner
Executive Director, Center for Engaged Learning ................. Jack R. Christianson

ACADEMIC AFFAIRS

Vice President ............................................................. Elizabeth J. Hitch
Associate Vice President, Curriculum and Accreditation ....................... J. Karl Worthington
Associate Vice President, Faculty Relations .............................. Bruce D. Parker
Associate Vice President, Undergraduate Research and International Programs ................ Loretta Palmer
Assistant Vice President .............................................. Scott C. Hammond
Assistant Vice President, Wasatch Campus ......................... Shad Sorenson
CTE Director ..................................................................... Susan Thackeray
Dean, Woodbury School of Business .................................. Stanley Earl Jenne
Associate Dean, Woodbury School of Business ........................ Eugene Seeley
Dean, School of Education .............................................. Briant J. Farnsworth
Dean, University College ............................................... Bonnie Henrie
Associate Dean, University College ..................................... K.D. Taylor
Interim Dean, College of Humanities and Social Sciences .................... David Yells
Interim Dean, School of the Arts ......................................... Kathie Debenham
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 ....................... Rich Tolman
administration and legislative affairs

Vice President......................................................... Val L. Peterson
Associate Vice President, Facilities/Planning ...................... Jim Michaels
Associate Vice President, Finance .................................. Douglas E. Warner
Associate Vice President, Information Technology/CTO ........ Ray Walker
Assistant Vice President, Business Services/Controller .... Mike Francis
Director, Parking Services and Transportation .................. Steve Jackson
Director, Risk Management........................................ Joe Marrott
Director, Grounds.................................................. Jack Boswell
Director, Public Safety............................................ John Brewer
Director, Physical Plant........................................... Robert Clark
Director, Space Management.................................... Frank Young
Director, Accounting............................................... Michael Jones
Director, Auxiliary Services..................................... Kenneth Matthews
Director, Business Affairs........................................ Bernell Hofheinz
Director, Small Business Development Center .................. Steve Clark
Executive Director, Human Resources.............................. Patricia Forbes
Director, Printing Services....................................... David Scott
Director, Purchasing............................................... Ryan Lindstrom
Director, McKay 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.......................... David Tobler
Director, Web Development Services............................. Nathan Gerber
Director, Computer and Technician Help Desk ................... JoAnn Innes
Director, Infrastructure Implementation and Management .... Chad Lyman
Associate Director, Administrative Programming............... Dan Lukins

administration

IT Security Officer.................................................. Leroy Brown
Director, Automation & Integration............................. Mike Duffin
Director, Media Services......................................... Travis Tasker
Director, Infrastructure Operations............................... Brett McKeachnie
Director, Administrative Computing............................. Joe Belnap

institutional advancement

Vice President....................................................... Val Hale
Associate Vice President........................................ Tom Rasmussen
Associate Vice President, College Marketing and Communications ........................................ Chris Taylor
Associate Vice President, Development ......................... Jack Jenks
Associate Vice President, International Affairs................... Rusty Butler
Director, Alumni Relations......................................... Jeri Allphin
Director, Annual Fund............................................ Cristina Planezola
Director, Creative Services....................................... Matt Bambrough
Director, Data Management...................................... Bart Jacobs
Director, Events.................................................... Mike Maughan
Director, Planned Giving.......................................... Glenn Simmons
Director, Publication and Marketing.............................. Megan Simmons
Director, Stewardship and Donor Relations ..................... Nancy Smith
Director, Studios..................................................... Will McKinnon
Director, Web Resources.......................................... Anne Arendt

student affairs

Vice President......................................................... Cory L. Duckworth
Associate Vice President, Student Services/Dean of Enrollment Management ......................... Michelle Taylor
Assistant Vice President, Wasatch Campus ....................... Shad Sorensen
Senior Director, Student Success & Retention.................. Cheryl Hanewicz
Director, Prospective Student Services.......................... Jill Smith
Director, Career Counseling..................................... Michael Snapp
Senior Director, One Stop Shop................................... Liz Childs
Director, Financial Aid............................................. Joanna McCormick
Registrar............................................................. LuAnn Smith
Director, Graduation/Transfer Services........................ Margaret Bellon
Assistant Vice President, Career and Academic Advisement ........................................ Wayne Mangelson
Senior Director, Career and Academic Counseling................ Paula Tibbitts
Director, Multicultural Center................................... Gwen Anderson
Director, Accessibility Services.................................. Edward Martinelli
Administration

Director, Testing Services..................................................Colleen Sorensen
Director, TRiO Support Services........................................Keith Jensen
Director, TRiO/Upward Bound/Talent Search .....................Maraia Weingarten
Senior Director, Career and Student Employment ..............Cary Boone Jones
Director, Internship Services..............................................Marsha Haynes
Director, Disability Career Services.................................Sue Stephenson
Assistant Vice President, Student Life, Dean of Students ......Bob Rasmussen
Director, Sorensen Student Center/Auxiliary Services .......Ken Mathews
Senior Director, Student Health Services.............................Bill Erb
Senior Director, Student Leadership.....................................Phil Clegg
Director, Dispute Resolution/Judicial Affairs ......................Clay Chivers
Assistant Vice President – School, College, and University Partnerships .....................E. Mark Bezzant
Director, Student Affairs Grants and Development ............Greg Jackson
Director, Student Involvement..............................................Grant Flygare
Director, School, College and University Partnerships ........Liz Andrus
Director, Statewide GEAR UP ..............................................Laurie Hadley
Associate Vice President/Director, Athletics .......................Michael V. Jacobsen
Associate Athletic Director, Internal Operations..................D. J. Smith
Assistant Director, Athletics, External Operations ...............Brad Mertz
Assistant Director, Athletics, Senior Woman Administrator ...Megan Kennedy
Assistant Director, Athletics, Marketing and Promotions ....Nate Mathis
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, Humanities and Philosophy; B.A., German Literature; M.A., German Literature, Philosophy minor, Brigham Young University; Ph.D., German Literature, Princeton University.

ABDRISAEV, Baktybek (2007); Lecturer, History & Political Science; 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); Assistant Professor, English/Literature; B.A., American Literary and Cultural History, Ludwig-Maximilians University; M.A., American Studies, Washington State University; Ph.D., Rhetoric and Technical Communication, Michigan Technological University.

ALLISON, Charles (2001); Associate Professor, Computing and Networking Sciences; B.S., Mathematics/Portuguese; M.S., Mathematics/Statistics, Brigham Young University; M.S. (Ph.D. ABD), Applied Math/Computer Science, University of Arizona.

AMIN, Masood (1997); Associate Professor, Pre-Engineering Science; B.S.; M.S., Mechanical Engineering, Brigham Young University.

AMOSA, Milo (2001); Lecturer, English/Literature; B.A., English, Brigham Young University - Hawaii; M.A.; English; M.A., History, Brigham Young University.

ANDERSON, Clay (2007); Lecturer, Physical Education & Recreation; M.S., Exercise Science, Brigham Young University.

ANDERSON, Douglas D. (1978); Professor, Art and Visual Communications; B.A., Fine Arts; M.S., Industrial Education, Brigham Young University.

ANDERSON, Genan (2000); Associate Professor, Elementary Education; B.S., Elementary Education and Child Development, Utah State University; M.S., Child Development, Utah State University; Ph.D., Marriage, Family and Human Development, Brigham Young University.

ANDERSON, John (2007); Assistant Professor, Information Systems & Technology; B.A., English; M.B.A., Strategy & Finance, University of Utah.

ANDERSON, Karin A. (1991); Professor, English/Literature; B.A., English, Utah State University; M.A., English, Brigham Young University; Ph.D., Literary Theory and Creative Writing, University of Utah.

ANDERSON, Thor (2005); 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); Assistant Professor, Finance & Economics; B.S., Mathematics, Brigham Young University; J.D., J. Reuben Clark College of Law, Brigham Young University; Ph.D., Finance, Arizona State University.
ARRINGTON, James (1999); Associate Professor, Theatre; 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.

BACKUS, Ellen (2002); Assistant Professor, Mathematics; B.A., Math Education; M.A., Mathematics, Brigham Young University.

BAIRD, Deborah K. (1993); Associate Professor, Business Management; B.A., Business Accounting/Management (Marketing); M.B.A. (Economics Emphasis), Brigham Young University.

BAIRD, Kellan (1998); Associate Professor, Cabinetry and Architectural Woodwork; B.S., Industrial Education, Brigham Young University.

BALDEN, John A. (1996); Associate Professor, Accounting; B.S., Accounting; M.Acc. (Federal Taxation emphasis), Brigham Young University.

BANCHERO-KELLEHER, Angela (2006); Assistant Professor, Dance; B.A., History, University of Utah; M.F.A., Dance, University of Utah.

BARBER, Lori (1996); Professor, Nursing; B.S.; M.N., Nursing, University of Phoenix.

BARGERON, Brent (2002); Department Chair/Professor, Physics; B.S., Physics, Brigham Young University; M.S., Ph.D., Physics, University of Illinois-Urbana.

BARTHEL, Brian R. (1998); Associate Professor, Community Health; B.S.; M.S., Health Science/Community Health, Brigham Young University; Ph.D., Health Education, Southern Illinois University.

BARTHOLOMEW, Aaron (2007); Assistant Professor, Legal Studies; B.A., Communication; J.D., Brigham Young University.

BARTHOLOMEW, Kimberly W. (1994); Associate Professor, Information Systems & Technology; B.S.; M.S., Computer Science, Brigham Young University.

BAYER, Virginia E. (2000); Associate Professor, Biology; B.S., Biological Science; B.A., Classical Languages, University of California, Irvine; Ph.D., Medical Sciences-Neuroscience, Cornell University Graduate School of Medical Science; D.V.M., Cornell University College of Veterinary Medicine.

BEAN, Ben (1990); Professor, Accounting; M.B.A., Accounting Emphasis; B.S., Business Management, University of Utah.

BEAN, Paul (1997); Program Coordinator/Associate Professor, Automotive Technology; B.S., Industrial Education, Brigham Young University; M.Ed., Instructional Technology, Utah State University.

BENDER, Melinda A. (1998); Associate Professor, Basic Composition/English as a Second Language; B.S., Speech Communication; MAIS, Communication and Human Development, Oregon State University.

BENNITT, Lyn E. (1996); Associate Professor, History and Political Science; B.A., History; B.A., Anthropology; MSE Curriculum and Instruction; Ph.D., History, University of Kansas.

BENSON, Alvin K. (2001); Professor, Physics; B.S.; Ph.D., Physics, Brigham Young University.

BENSON, Robert (2007); Lecturer, EART; B.S., Business Management, Utah Valley State College.

BENTLEY, Jan (1999); Assistant 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.

BERRY, Gregory R. (2004); Associate Professor, Business Management; M.B.A., Organizational Behavior and Organizational Analysis; B.Ed., University of Alberta, Ph.D., Organizational Analysis.

BIGGS, Barbara (2007); Instructor, Developmental Mathematics; B.S., Physical Education, University of Nevada, Reno; M.A., Math Education, Brigham Young University.

BIRCH, Brian D. (1999); Associate Professor, Humanities and Philosophy; B.S.; M.S., Philosophy, University of Utah; Ph.D., Philosophy of Religion, Claremont Graduate School.

BLACK, Katherine D. (2005); Associate Professor, Accounting; B.S. Accounting, 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); Assistant Professor, Diesel Mechanics Technology; A.A.S., Diesel and Heavy Duty Mechanics, Utah Valley State College.

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, Foreign Languages (ASL Deaf Studies); B.A., Sociology, University of Utah; J.D. (Disability Law & Policies), Northeastern University School of Law.

BOGGESS, Chris Dee (1999); Associate Professor, Automotive/Diesel Technology; Certificate, Auto Body Repair, Utah Technical College at Salt Lake.

BOHL, Dean (2001); Associate Professor, Diesel 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.

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); Assistant Professor, Earth Science; B.S., Vocational Education, Southern Illinois University.

BRANDT, David W. (1992); Associate Professor, Mathematics; B.S., Electrical Engineering; B.S., Mathematics, University of Missouri; M.S., Mathematics, University of Illinois.

BRISCOE, GREGORY G. (2002); Assistant Professor, Languages; B.A., Spanish, Utah State University; M.A., Spanish, University of California, Berkeley; Ph.D., Spanish, University of Pennsylvania.

BROWN, Clayton (2006); Instructor, Developmental Mathematics; M.A., Teachers of Mathematics, Central Washington University.

BROWN, Kathren A. (2002); Assistant Professor, History and Political Science; B.A., Alma College; M.A., World History; Ph.D., World History; Bowling Green 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 Communication; B.A., Italian and Art History, Brigham Young University; Ph.D., Art History, Ohio State University.

BULGER, Jeffery W. (1998); Associate 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, Legal Studies; B.S., Law Enforcement Administration; M.P.A., Public Administration; J.D., 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.

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); Artist/Poet in Residence, Philosophy and Humanities.

CALL, Jolayne (1991); Associate Professor, English/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 (1989); 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.

CAREY, Ernest L. (1992); Dean, College of Technology and Computing/Professor, Computing 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.

CARNEY, Rob (1997); Associate Professor, English/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, Brigham Young University.

CHAPARRO, Ana Maria (2007); Lecturer, Languages; B.A., Spanish Translation; M.A., Spanish Peninsular Literature, Brigham Young University.

CHARLES, Judy (2007); Lecturer, Music; B.M., Music Theory, University of Utah; M.A., Music Piano Performance/Pedagogy, Brigham Young 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.

CHILDSD, Kara (2007); Instructor, Developmental Mathematics; B.S., Mathematics; M.Ed., Secondary Education, Utah State University.

CHOU, Grace (2002); Assistant 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.

CHRISTOFFERSON, Max L. (1994); Associate Professor, Lineman Technology and Lineman Apprenticeship Training Program; Journeyman Lineman.

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, Christopher (2006); Assistant Professor, Theatre; M.F.A., Directing Shakespeare, University of Exeter, Devonshire, England.

CLARK, Steven C. (2000); Past President, Faculty Senate/Department Chair/Associate Professor, Behavioral Science; B.S., Psychology, Brigham Young University; M.A.; Ph.D., Psychology, University of New Hampshire.

CLARKE, Alan (2003); Associate Professor, Integrated Studies; LL.M., Human Rights Law, Queen's University, Kingston, Ontario; J.D., College of William and Mary.

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 & 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.

COLLEDGE, Jacqueline (2000); Lecturer, Dance.

COLVIN, Janet (2007); Assistant Professor, Communication; B.A., Public Relations, Brigham Young University; M.A., Instructional Technology, University of Utah; Ph.D., Speech Communication, University of Utah.

CONDIE, Heidi (2001); Associate Professor, Basic Composition/English as a Second Language; B.A., German Literature, Brigham Young University; M.A., Linguistics, University of Utah.

CORRELL, Gretchen (2006); Professor, Nursing; B.S., Nursing, Fort Hays State University; M.S.N., University of Illinois; Ph.D., Education Administration, University of Missouri.
Cousins, Robert J. (1998); Department Chair/Associate Professor, English/Literature; B.A., Humanities, Brigham Young University; M.A., Ph.D., American Studies, Purdue University.

Cox, Susan (2007); Lecturer, Elementary Education; B.A., Spanish; M.S.; Ph.D. (ABD), Instructional Psychology & Technology, Brigham Young University.

Cozzens, Charles F. (1996); Associate Professor, Business Management; B.S., Psychology; M.B.A., Marriott School of Business Management, Brigham Young University.

Craig, Nathan (2007); Lecturer, Legal Studies; B.S., Criminal Justice, Utah Valley State College; J.D., Southern Illinois University.

Craik, William S. (2006); Assistant Professor, Earth Science; B.A., Physics, Carleton College; Ph.D., Geology (Metamorphic Petrology), University of California, Santa Barbara.

Crane, Jay A. (2005); Assistant Professor, Art & Visual Communications; B.F.A., Painting, Brigham Young University.

Crawford, Malcolm (1985); Professor, Physics; B.E.S.; M.S.E.E., Electrical Engineering, Brigham Young University.

Crook, Kenneth (2007); Lecturer, Legal Studies; B.A., Middle East History; J.D., Brigham Young University.

Davidson, J.D. (1972); Professor, English/Literature; B.A., English, Brigham Young University; M.S., English, Utah State University.

Davis, Ben Fred (1994); Associate Professor, Building Inspection Technology; B.S., Geography/Urban Planning, University of Utah; M.S., Instructional Technology, Utah State University.

Davis, Courtney (2007); Lecturer, Art & Visual Communication; B.A., Art History; M.A., Art History & Curator Studies; J.D., Brigham Young University.

Dean, David (2007); Instructor, Developmental Mathematics; B.S., Mathematics, Utah Valley State College; M.S., Mathematics, University of Houston.

Debenham, Kathie (1995); Interim Dean, School of the Arts/Professor, Dance; B.A.; M.A., Physical Education/Dance, Brigham Young University; Certified Laban/Bartenieff Movement Analyst, University of Utah.

Debry, Roger K. (1998); Associate Professor, Computing and Networking Sciences; B.S., Mathematics; M.S., Computer Science; Ph.D., Electrical Engineering (Computer Science), University of Utah.

DeSart, Jay A. (2004); Assistant Professor, History and Political Science; B.A., Political Science and International Relations, Concordia College; M.A., Ph.D., Political Science, University of Wisconsin-Milwaukee.

Deslerner, Todd (2006); Lecturer, Aviation Science; B.S., Sociology, Brigham Young University.

DeWitt, Robert B. (1986); Professor, Art and Visual Communications; B.A., Art; M.F.A., Art/Painting, Brigham Young University.

Dinklage, William S. (2002); Assistant Professor, Earth Science; B.A., Physics, Carleton College; Ph.D., Geology (Metamorphic Petrology), University of California, Santa Barbara.

Downing, Catherine (1996); Professor, Art and Visual Communications; B.F.A., Drawing, University of Florida; M.F.A., Painting, University of South Florida.

Downs, Douglas (2004); Assistant Professor, English & Literature; B.A., English, Southeast Missouri State University; M.A., English, Emporia State University; Ph.D., English, University of Utah.

Dunn, Robert H. (1972); Program Coordinator/Professor, Building Construction and Construction Management.

Durney, Brian (2001); Associate Professor, Computing and Networking Sciences; B.S., Computer Science, University of Utah; M.S., Computer Science, Stanford University; Ph.D., Computer Science, University of Oregon.

Eagar, L. Brent (1999); Associate Professor, Finance and Economics; B.S.E.E., University of Utah; M.B.A., University of Michigan; Ph.D., Business Management; University of Washington.

Eastly, Jay (2007); Lecturer, Biology; B.S., Secondary Education, Utah State University; M.A., Teaching Science Education, Harvard University.

Eldredge, Bryan K. (1998); ASL & Deaf Studies Program Coordinator/Associate Professor, Languages (ASL & Deaf Studies); B.A., English; M.A., Linguistics, Brigham Young University; Ph.D., Linguistic Anthropology, University of Iowa.

Englehardt, Elaine Elason (1979); Distinguished Professor of Ethics/Professor, Humanities and Philosophy; B.A., Journalism; M.A., Communications, Brigham Young University; Ph.D., Communications, University of Utah.

Erdmann, DeWayne (1999); Associate Professor, Building Construction and Construction Management; B.S., Industrial Education, Brigham Young University.

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