

UTAH VALLEY STATE

Catalog 2007-2008



Success.

President's Welcome Message

Welcome to Utah Valley State College.

Welcome to Utah Valley State College (beginning July 1, 2008 - UTAH VALLEY UNIVERSITY). I commend you for **your decision** to further **your education**, and I hope you feel **welcome** here at UVSC. 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.

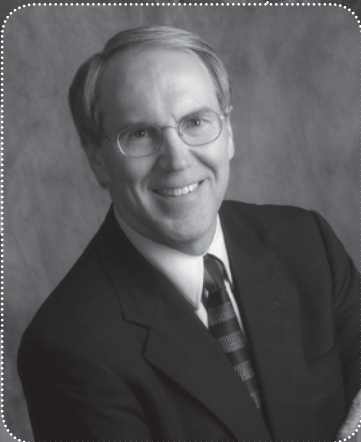
I believe you will find the UVSC approach to education engaging and refreshing. UVSC is a student-centered institution whose faculty and staff are committed to helping you succeed; however, the **most important** part of this commitment is the one you make. **Take advantage of the vast** number of **opportunities** that UVSC provides you--to learn, to grow and to **prepare for meaningful lifework**. Be **involved** in your classes, join a club, and attend campus events. **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 UVSC so enjoyable. Help me get to know you; send me an e-mail (William.Sederburg@uvsc.edu), or stop me in the halls to say "Hello," offer an insight, or ask a question.

Good luck in reaching your educational goals, and welcome to the home of the UVSC Wolverines!

Sincerely, 

William A. Sederburg



Success.

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IMPORTANT PHONE NUMBERS

Accessibility Services	863-8747
Admissions	863-8466
Assessment Center.....	863-8269
Athletics	863-8653
Bookstore.....	863-8641
Campus Connection (ID Desk) ..	863-8797
Campus Police.....	863-5555
Career Services and Student Employment.....	863-8395
Career/Academic Counseling Center.....	863-8425
Cashier	863-7200
College Relations.....	863-8206
College Times (Student Newspaper).....	863-8688
Concurrent Enrollment	863-8376
Continuing Education.....	863-8450
<u>GENERAL INFORMATION.....</u>	<u>863-8000</u>
Graduation	863-8438
High School Relations	863-8811
Butler Institute for International Understanding	863-8342
Institutional Advancement.....	863-8205
Library.....	863-8265
McKay Events Center.....	863-8767
Multicultural Center	863-8357
Parking Services.....	863-8188
Ragan Theater	863-8799
Registration/Records	863-8468
School of Business	863-8260
School of Education	863-8228
School of General Academics...	863-6312
School of Humanities, Arts and Social Sciences.....	863-7435
School of Science and Health ..	863-6441
School of Technology and Computing	863-8995
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Veteran's Office	863-8212
Wasatch Campus.....	863-6601
Weekend College/Evening School	863-8449
Women's Resource Center.....	863-8080

This issue of the Utah Valley State College Catalog contains information about every facet of the institution as currently approved by the governing boards. This catalog is not to be considered a binding contract between Utah Valley State College and any student or other institution. The College reserves the right to change its role, policies, or course offerings from time to time.

The College offers programs at its several campus sites including Orem campus, Provo Airport campus, West campus, North Valley Center, Wasatch campus. The UVSC semester class schedule designates at which campus site each class section is taught.

SUMMER TERM 2007

Summer Terms at UVSC are being reviewed and the number and date ranges of the sessions listed below may be changed. Watch <http://www.uvsc.edu/acadsched/acadcal/index.html> for any updates. For questions on this or any academic calendar email yatesta@uvsc.edu.

Session I (5 weeks)	May 2 - June 4
Session II (7 1/2 weeks)	May 2 - June 20
Session III (10 weeks)	May 2 - July 9
Session IV (15 weeks)	May 2 - August 10
Session V (10 weeks)	June 5 - August 10
Session VI (7 1/2 weeks)	June 21 - August 10

Summer Term Holidays

Memorial Day.....	May 28
Independence Day.....	July 4
Pioneer Day.....	July 24

FALL SEMESTER 2007

Faculty Return	August 15
Classes Begin	August 22
Weekend Classes Begin	August 25
Labor Day Holiday	September 3
Fall Break Holidays*	October 11, 12
Weekend Classes Holiday*	October 13
First Block Classes End	October 15
Second Block Classes Begin	October 16
Thanksgiving Holidays*	November 21, 22, 23
Weekend Classes Holiday*	November 24
Classes End	December 6
Study Day	December 7
Final Exams	December 10, 11, 12, 13
Fall Semester Ends	December 13
Grading Day	December 14
Weekend Classes Final Exams	December 15

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 2008

Faculty Return	January 2
Classes Begin	January 3
Weekend Classes Begin	January 5
Martin Luther King Jr. Day Holiday	January 21
President's Day Holiday*	February 18
First Block Classes End	February 25
Second Block Classes Begin	February 26
Spring Break Holidays*	March 12, 13, 14
Weekend Classes Holiday*	March 15
Classes End	April 17
Study Day	April 18
Weekend Classes Final Exams	April 19
Final Exams	April 21, 22, 23, 24
Spring Semester Ends	April 24
Grading Day	April 25
Commencement	April 25

SUMMER TERM 2008

Session I (5 weeks)	April 30 - June 2
Session II (7 1/2 weeks)	April 30 - June 18
Session III (10 weeks)	April 30 - July 7
Session IV (15 weeks)	April 30 - August 8
Session V (10 weeks)	June 3 - August 8
Session VI (7 1/2 weeks)	June 19 - August 8

Summer Term Holidays

Memorial Day.....	May 26
Independence Day.....	July 4
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 UVSC 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.

MAY 2007

S	M	T	W	Th	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
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27	28	29	30	31		

JUNE 2007

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JULY 2007

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AUGUST 2007

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SEPTEMBER 2007

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OCTOBER 2007

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NOVEMBER 2007

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DECEMBER 2007

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JANUARY 2008

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FEBRUARY 2008

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23/30	24/31	25	26	27	28	29

APRIL 2008

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MAY 2008

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JUNE 2008

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JULY 2008

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General Information

General Information



Utah Valley State College is dedicated to providing a broad range of quality academic, vocational, technical, cultural, and social opportunities designed to encourage students in attaining their goals and realizing their talents and potential, personally and professionally. The College is committed to meeting student and community lower division and upper division needs for occupational training; providing developmental, general, and transfer education; meeting the needs for continuing education for personal enrichment and career enhancement; and providing diverse social, cultural, and international opportunities, and student support services.

Success.

MISSION STATEMENT

Utah Valley State College is a state college comprised of two interdependent divisions. The lower division embraces and preserves the philosophy and mission of a comprehensive community college, while the upper division consists of programs leading to baccalaureate degrees in areas of high community demand and interest.

Utah Valley State College is dedicated to providing a broad range of quality academic, vocational, technical, cultural, and social opportunities designed to encourage students in attaining their goals and realizing their talents and potential, personally and professionally. The College is committed to meeting student and community lower division and upper division needs for occupational training; providing developmental, general, and transfer education; meeting the needs for continuing education for personal enrichment and career enhancement; and providing diverse social, cultural, and international opportunities, and student support services.

Our Student Community

Students are the major focus and first priority of UVSC. All decisions are examined to determine whether the results assist students in attaining their goals and maximizing their potential and talents both personally and professionally.

Our Faculty and Staff Community

Our dedicated faculty is enthusiastic about the satisfactions of teaching and giving generously of their time to students.

UVSC is committed to maintaining an atmosphere for faculty and staff which encourages innovation, experimentation and entrepreneurial investigation relative to college programs and interests.

Our Diverse Community

UVSC strives to provide an environment which encourages a diverse population to participate in a broad range of educational opportunities, social enrichments and cultural experiences that reflect the value of diverse voices and disparate opinions.

Our Industrial Community

UVSC is committed to developing, broadening, and strengthening mutually beneficial partnerships with business and industry to provide an increasingly educated work force and to enhance economic growth and development in the community.

Our Global Community

Global awareness, understanding, and responsibility on campus and in the community are sought through internationalizing curriculum, lectures, seminars, and international exchanges.

The term “Community” is defined not only as a region to be served but also as a climate to be created.

HISTORICAL DEVELOPMENT

Utah Valley State College 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.

ACCREDITATION

UVSC 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 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

- Bachelor of Applied Technology (BAT)
- Bachelor of Arts (BA)
- Bachelor of Fine Arts (BFA)
- Bachelor of Science (BS)
- 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

Bachelor of Applied Technology

- Community Health
- Information Technology

Bachelor of Arts

- ASL and Deaf Studies Education
- Art and Visual Communications
- Behavioral Science
 - Anthropology

- Psychology
- Social Work
- Sociology
- Communication
 - Communication Theory and Practice
 - Journalism
 - Public Relations
- Deaf Studies
 - General Deaf Studies
 - Interpreting
- Deaf Studies Education
- English
 - Creative Writing
 - Literary Studies
- English Education
- History
 - General History
 - Public History
- Integrated Studies
 - Accounting
 - American Sign Language
 - Anthropology
 - Ballet
 - Ballroom Dance
 - Biology
 - Business Management
 - Communication
 - » Analytic
 - » Applied
 - Community Health
 - Computer Networking
 - Computer Science
 - Digital Media
 - Earth Science
 - English
 - Environmental Studies
 - French
 - History
 - Hospitality Management
 - Humanities
 - Leadership
 - Military Science
 - Modern Dance
 - Music
 - Office Management
 - Outdoor Leadership
 - Philosophy
 - Physical Education
 - Psychology
 - Religious Studies
 - Social Sciences
 - Sociology
 - Spanish
 - Technology Management
- Music
- Philosophy
- Physical Education
 - Exercise Science
 - Outdoor Recreation Management
- Political Science
 - American Government
 - International Relations
 - Political Philosophy/Public Law
- Spanish
- Spanish Education
- Theatre Arts

Bachelor of Fine Arts

- Art and Visual Communications
 - Fine Arts
 - Graphic Design
 - Illustration
 - Photography
- Dance

- Ballet
- Modern Dance

Bachelor of Science

- Accounting
- Art and Visual Communications
- Aviation
 - Aviation Administration
 - Professional Pilot
- Behavioral Science
 - Anthropology
 - Psychology
 - Social Work
 - Sociology
- Biology
- Biology Education
- Business Management
 - Entrepreneurship
 - Finance and Banking
 - General Business
 - Hospitality Management
 - International Business
 - Marketing
- Business/Marketing Education
- Chemistry
 - Forensic Chemistry
 - Professional Chemistry
- Chemistry/Physics Education
- Communication
 - Communication Theory and Practice
 - Journalism
 - Public Relations
- Community Health
 - Community Health Education
 - Health Services Administration
- Computer Science
 - Computer Engineering
 - Computer Networking
 - Computer Science
 - Database Engineering
- Criminal Justice
- Digital Media
- Early Childhood Education
- Earth Science
 - Environmental Management
 - Geology
- Earth Science Education
- Elementary Education
- English
 - Creative Writing
 - Literary Studies
- English Education
- Forensic Science
- History Education
- Hospitality Management
- Information Systems
- Information Technology
 - Database Administration
 - Enterprise Systems
 - Network Administration and Security
- Integrated Studies
 - (see BA for list of emphases)
- Mathematics
- Mathematics Education
- Movement Studies
 - Ballroom Dance
- Music
- Music Education
- Nursing
- Paralegal Studies
- Philosophy
- Physical Education and Recreation
 - Exercise Science
 - Outdoor Recreation Management

General Information

- Physical Education Teacher Education
- Physics
- Political Science
 - American Government
 - International Relations
 - Political Philosophy/Public Law
- Public Emergency Services Management
- School Health Education
- Software Engineering
- Technology Management
 - Air Conditioning and Refrigeration Technology
- Apprentice
 - » Carpenter Union (JATC)
 - » Electrical Construction
 - » Electrical Union (JATC)
 - » Heat, Ventilation & Air Conditioning
 - » Industrial Maintenance
 - » Lineman
 - » Lineman Meter
 - » Lineman Substation
 - » Plumber
 - » Sheet Metal
- Art and Visual Communications
- Automotive Technology
- Aviation Science
- Building Construction and Construction Management
- Building Inspection Technology
- Cabinetry and Architectural Woodwork
- Collision Repair Technology
- Diesel Mechanics Technology
- Drafting Technology
- Electrical Automation and Robotics Technology
- Facilities Management
- Fire Science
- Information Systems and Technology
- Lineman Technology
- Digital Media
- Welding Technology
- Others from regionally accredited institutions offering an AAS degree
- Theatre Arts
- Theatre Arts Education

Minors

- Accounting
- American Indian Studies
- American Studies
- Biology
- Business Education
 - Basic Business Core
 - Business Information Technology
 - Marketing
- Business Information Technology
- Business Management
- Chemistry
- Community Health Education
- Computer Science
- Criminal Justice
- Deaf Studies
- Earth Science
- English Creative Writing
- English Education
- English Literary Studies
- Environmental Studies
- Gender Studies
- History
- Humanities
- Information Systems and Technology
- Mathematics
- Music
- Paralegal Studies

- Peace and Justice Studies
- Philosophy
- Physical Education
- Physics
- Political Science
- Religious Studies
- School Health Education
- Spanish
- Technical Communication
- Technology Management
- Theatre Arts

Baccalaureate Programs under Development

- Biotechnology
- General Studies
- Mild/Moderate Special Education
- Secondary Education (Additional)

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.

The following pre-majors are available in an Associate in Arts and/or an Associate in Science degree:

- Accounting
- Administrative Information Management
- Art and Visual Communications
- Automotive Technology
- Aviation Science
- Behavioral Science
- Biology
- Building Construction and Construction Management
- Business
- Cabinetry and Architectural Woodwork
- Communication
- Community Health
- Computer Science
- Criminal Justice
- Dance
- Drafting Technology
- Early Childhood Education
- Electrical Automation and Robotics Technology
- English
- English
 - Technical Communication
- Fire Science
- General Academics
- History and Political Science
- Hospitality Management
- Humanities
- Information Systems and Technology
- Integrated Studies
- Mathematics
- Music
- Paralegal Studies
- Philosophy
- Physical Education and Recreation
 - Physical Education
 - Recreation
- Physical Science

- Pre-Elementary Education
- Pre-Engineering
- Theatre Arts

Associate in Pre-Engineering

Associate in Science in Business

Associate in Science in Nursing

Associate in Applied Science

- Accounting
 - Administrative Information Support
 - Air Conditioning and Refrigeration Technology
 - Apprentice
 - Aircraft Mechanics
 - Carpenter Union (JATC)
 - Diesel Mechanics
 - Electrical Construction
 - Electrical Union (JATC)
 - Heating, Ventilation & Air Conditioning
 - Industrial Maintenance
 - Lineman
 - Lineman Meter
 - Lineman Substation
 - Plumber
 - Sheet Metal
 - Art and Visual Communications
 - Design/Illustration
 - Graphic Design
 - Photography
 - Automotive Technology
 - Aviation Science
 - Building Construction and Construction Management
 - Building Inspection Technology
 - Business Management
 - Cabinetry and Architectural Woodwork
 - Collision Repair Technology
 - Collision Repair
 - Street Rod
 - Computer Science
 - Computer Engineering
 - Computing and Networking Sciences
 - Culinary Arts
 - Dental Hygiene
 - Diesel Mechanics Technology
 - Digital Communication Technology
 - Drafting Technology
 - Electrical Automation and Robotics Technology
 - Electrical Automation
 - Semiconductor Instrumentation and Maintenance
 - Facilities Management
 - Fire Science
 - Fire Officer
 - Firefighter/Paramedic
 - Wildland Fire Management
 - Hospitality Management
 - Information Systems and Technology
 - Lineman Technology
 - Welding Technology
- ### Diploma Programs
- Automotive Technology
 - Cabinetry and Architectural Woodwork
 - Collision Repair Technology
 - Collision Repair
 - Custom Street Rod
 - Diesel Mechanics Technology
 - Lineman Technology
 - Welding Technology
- ### One-Year Certificate Programs
- Accounting

- Administrative Support
- Art and Visual Communications
- Automotive Technology
- Building Construction
- Building Inspection Technology
- Business Management
- Cabinetry & Architectural Woodwork
- Collision Repair Technology
- Diesel Mechanics Technology
- Early Care and Education
- Firefighter Recruit Candidate Certificate
- Network Administration
- Paramedic
- Programmer
- Water and Wastewater Operations

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

Admissions

Admissions



Utah Valley State College 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.

Success.

ADMISSIONS OFFICE

Office: BA 106

Telephone: (801) 863-8466

Admissions Policy

UTAH VALLEY STATE COLLEGE 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

UVSC 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 18 years of age, whose age group will not have graduated from high school prior to the enrollment period for which admission is sought, need to submit a high school permission form from the Center for High School Studies office with their application. Applicants under 17 years of age must apply for exception to policy through the office of the Director of Admissions.

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 College 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 College, an applicant must submit the following to the Office of Admissions:

1. *Application for Admission. For immediate response apply online at: www.uvsc.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 College 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 College are required to change their major through their academic advisor.

Assessment

All first-time students are required to satisfy the College's assessment requirement prior to being classified as "matriculated" (degree seeking) into any major of the College. 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 State College 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 UVSC 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 UVSC 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 College 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 College 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 UVSC. 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 UVSC, 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

UVSC requires international applicants (with their sponsors) to submit an "Affidavit of Support" for an International Student at UVSC. 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 UVSC 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 UVSC. 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 UVSC 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

UVSC recommends that international students acquire appropriate insurance while in school. Information can be obtained at the UVSC 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, Tuition and Fees

Registration, Tuition and Fees



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.uvsc.edu/.

Success.

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.uvsc.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

Registration, Tuition and Fees

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.

Students may not challenge courses that they have audited. An incomplete grade may not be made up by repeating the class for audit.

Noncredit Continuing Education Unit (CEU)

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

TUITION AND FEES POLICY

Tuition and student fees are established by the Utah State Board of Regents. Tuition and other charges as listed in the catalog and other UVSC publications are subject to change without notice. Students are advised to consult current information at www.uvsc.edu/. **The College 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 College 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.

2007-2008 TUITION & GENERAL FEE SCHEDULE								
RESIDENT					NON-RESIDENT			
Hours	Tuition	Fees	Total		Hours	Tuition	Fees	Total
0.5	166.00	36.50	202.50		0.5	581.00	36.50	617.50
1.0	224.00	54.00	278.00		1.0	784.00	54.00	838.00
1.5	282.00	71.50	353.50		1.5	987.00	71.50	1058.50
2.0	340.00	89.00	429.00		2.0	1190.00	89.00	1279.00
2.5	398.00	106.50	504.50		2.5	1393.00	106.50	1499.50
3.0	456.00	124.00	580.00		3.0	1596.00	124.00	1720.00
3.5	514.00	141.50	655.50		3.5	1799.00	141.50	1940.50
4.0	572.00	159.00	731.00		4.0	2002.00	159.00	2161.00
4.5	630.00	176.50	806.50		4.5	2205.00	176.50	2381.50
5.0	688.00	194.00	882.00		5.0	2408.00	194.00	2602.00
5.5	746.00	211.50	957.50		5.5	2611.00	211.50	2822.50
6.0	804.00	229.00	1033.00		6.0	2814.00	229.00	3043.00
6.5	862.00	246.50	1108.50		6.5	3017.00	246.50	3263.50
7.0	920.00	264.00	1184.00		7.0	3220.00	264.00	3484.00
7.5	978.00	264.00	1242.00		7.5	3423.00	264.00	3687.00
8.0	1036.00	264.00	1300.00		8.0	3626.00	264.00	3890.00
8.5	1094.00	264.00	1358.00		8.5	3829.00	264.00	4093.00
9.0	1152.00	264.00	1416.00		9.0	4032.00	264.00	4296.00
9.5	1210.00	264.00	1474.00		9.5	4235.00	264.00	4499.00
10.0	1268.00	264.00	1532.00		10.0	4438.00	264.00	4702.00
10.5	1326.00	264.00	1590.00		10.5	4641.00	264.00	4905.00
11.0	1384.00	264.00	1648.00		11.0	4844.00	264.00	5108.00
11.5	1442.00	264.00	1706.00		11.5	5047.00	264.00	5311.00
12.0	1500.00	264.00	1764.00	Equal Tuition Payment	12.0	5250.00	264.00	5514.00
12.5	1500.00	264.00	1764.00		12.5	5250.00	264.00	5514.00
13.0	1500.00	264.00	1764.00		13.0	5250.00	264.00	5514.00
13.5	1500.00	264.00	1764.00		13.5	5250.00	264.00	5514.00
14.0	1500.00	264.00	1764.00		14.0	5250.00	264.00	5514.00
14.5	1500.00	264.00	1764.00		14.5	5250.00	264.00	5514.00
15.0	1500.00	264.00	1764.00		15.0	5250.00	264.00	5514.00
15.5	1500.00	264.00	1764.00		15.5	5250.00	264.00	5514.00
16.0	1500.00	264.00	1764.00		16.0	5250.00	264.00	5514.00
16.5	1500.00	264.00	1764.00		16.5	5250.00	264.00	5514.00
17.0	1500.00	264.00	1764.00		17.0	5250.00	264.00	5514.00
17.5	1500.00	264.00	1764.00		17.5	5250.00	264.00	5514.00
18.0	1500.00	264.00	1764.00		18.0	5250.00	264.00	5514.00
18.5	1552.50	264.00	1816.50		18.5	5434.00	264.00	5698.00
19.0	1605.00	264.00	1869.00		19.0	5618.00	264.00	5882.00
19.5	1657.50	264.00	1921.50		19.5	5802.00	264.00	6066.00
20.0	1710.00	264.00	1974.00		20.0	5986.00	264.00	6250.00
20.5	1762.00	264.00	2026.50		20.5	6170.00	264.00	6434.00
21.0	1815.00	264.00	2079.00		21.0	6354.00	264.00	6618.00
21.5	1867.50	264.00	2131.50		21.5	6538.00	264.00	6802.00
22.0	1920.00	264.00	2184.00		22.0	6722.00	264.00	6986.00
22.5	1972.50	264.00	2236.50		22.5	6906.00	264.00	7170.00
23.0	2025.00	264.00	2289.00		23.0	7090.00	264.00	7354.00
23.5	2077.50	264.00	2341.50		23.5	7274.00	264.00	7538.00
24.0	2130.00	264.00	2394.00		24.0	7458.00	264.00	7722.00
24.5	2182.50	264.00	2446.50		24.5	7642.00	264.00	7906.00
25.0	2235.00	264.00	2499.00		25.0	7826.00	264.00	8090.00

For each credit hour over 25, \$105 per credit hour will be assessed for residents and \$368 per credit hour for non-residents

- | | |
|---|---|
| <ul style="list-style-type: none"> • Application Fee \$35 • Late Application Fee \$75 • Foreign Student Admission Fee..... \$100 • Graduation Fee..... \$20 • Late Graduation Fee..... \$25 • Special Lab and Course Fees..... (see online class schedule) • Challenge Credit Fee \$5 per credit • Challenge Credit Form \$15 | <ul style="list-style-type: none"> • Add Card Fee \$5 • For each credit hour over 25:..... <li style="padding-left: 20px;">- Resident \$98 <li style="padding-left: 20px;">- Non-resident.....\$344 • Baccalaureate Fee.....\$20 • Late Tuition Payment Fee.....\$100 |
|---|---|

Registration, Tuition and Fees

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 State College refunds for students who withdraw from school or drop classes are calculated as follows:

Semester

- Through third week of instruction100%
- Beginning fourth week of instruction0%

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

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

Check Cashing Procedures

The College will not accept two-party checks. Checks written to UVSC 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 "dishonored checks".

Checks written up to \$5 over the amount of the purchase may be cashed at the Bookstore. All other campus locations accept checks for amount of purchase (or payment) only.

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

Students who have current dishonored checks will not be allowed to receive grades and/or transcripts, make changes in registration, register for future semesters, graduate, nor pick up checks that are disbursed by UVSC, 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.

Financial Aid



A varied and comprehensive program of financial assistance is available to all students at the College. The general qualifications include acceptable scholastic standing and financial need. Citizens and permanent residents of the United States may apply for assistance under these programs regardless of race, color, religion, age, sex, national origin, pregnancy-related condition, handicap, or status as a veteran.

Success.

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 College 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.

	Commuter	Resident	Nonresident
Books & Supplies	1,532	1,532	1,532
Living Expenses	5,142	9,040	9,040

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 UVSC Financial Aid Data Form at www.uvsc.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.uvsc.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 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 UVSC and private scholarships.
March 1	Continuing student scholarship deadline for all UVSC 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 Federal Student Aid (FAFSA). These

Financial Aid

forms are available on the Financial Aid web site at www.uvsc.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 \$4,050 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 is variable but will not exceed 8.25% for new borrowers. 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 variable interest rate for new loans, which may not exceed 8.25%, is adjusted each year. 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 (FPLUS) are the third of the Federal Family Education Loan Program alternatives. Parents of dependent students enrolled at least half-time may borrow from a bank or credit union. The variable interest rate for new loans is adjusted annually, with the maximum being 9%. Not based on need and subject to limits, the amount of the FPLUS may never exceed the student's cost of attendance (as determined by the College) minus the student's financial assistance. Repayment of principal (unless deferred) and interest begins 60 days after the loan is disbursed. The lender has more information.

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 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.

Student Loan Limits

Loan Level	Credit Hours	Stafford Annual Limit	Perkins Annual Limit
1	0 - 29.9	\$3,500	\$3,000
2	30 - 96	\$4,500	\$3,000
3*	60 - 192	\$5,500	\$3,000
Aggregate Total		\$23,000	\$20,000

*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.

HOURLY CAMPUS EMPLOYMENT is available on a limited basis. At their own expense some departments hire students without regard to financial aid eligibility. For more information check with Career Services and Student Employment.

Scholarships

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

There are additional facts to know about scholarships. Utah residency is required

for all except exceptional performance and privately funded programs. If a student is offered more than one scholarship, it may be necessary to indicate a preference. Scholarships are offered to New, Transfer, and Continuing students.

New UVSC Students, those students who have never attended UVSC (including transfers and high school concurrent enrollment) will automatically be considered for academic scholarships if they are admitted to UVSC 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.uvsc.edu/finaid for more information.

Continuing UVSC Students, those who have completed at least 12 total post-high-school UVSC credits since enrolling at the College after high school graduation, may also apply for scholarships. Applications must be postmarked by: March 1 for Fall & Spring two-semester awards. Please see "scholarships" at www.uvsc.edu/finaid for detailed information.

ATHLETIC SCHOLARSHIPS are awarded to students who are selected by the coaching staff for specific athletic teams. Tryouts are required. Contact Athletics Department 801-863-8998 for more information on the different sports programs or for the specific head coach(es).

PRIVATELY FUNDED SCHOLARSHIPS are funded through generous donations from individuals and organizations. Recipients are selected through a joint process between the UVSC Gifts and Grants Committee and the individuals and organizations. All awards are subject to available funding and donor specified criteria. Contact the Scholarship Office Desk at 801-863-8443.

ROTC SCHOLARSHIPS are awarded to new and continuing UVSC 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.

UTAH CAREER TEACHING SCHOLARSHIPS are offered to continuing UVSC 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 UVSC GPA of 3.0; and (3) have completed at least 25 UVSC credits hours. Applications must be submitted no later than March 1. Contact the Education Department at 801-863-8527

SUMMARY OF SELECT FINANCIAL AID POLICIES

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

To be eligible to receive or continue to receive financial aid a student must be enrolled in the College and be in good standing. Being in good standing means complying with accepted enrollment and behavior standards and practices of the College 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 Advisor(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 UVSC refund of tuition and fees. Time schedules are published in the catalog and/or class schedules.

If a refund is payable and the student

Financial Aid

received any Federal, State or Institutional scholarship or financial assistance funds (except Federal Work-Study or UCOPE Work) the entire amount of the UVSC 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 College restores to the Title IV accounts. In addition, all State and Institutional funds received for non-institutional costs must also be repaid.

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

VERIFICATION

Approximately one third of all applicants are randomly selected by the Federal Processor for a process called verification.

The UVSC 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 College Catalog.

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

Costs of attending UVSC: Outlined in the College 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 College 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.

GED program information: Available on-line at www.uvsc.edu/testing/services/ged.

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 College Catalog or Class Schedule.

List of faculty and other instructional

personnel: Listed in the College Catalog.

Loan repayment: Information available online at www.uheaa.org.

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

Refund policy: Defined in the College 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 College Catalog and Class Schedule as well as the UVSC web site.

ENDNOTES

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

1. Budget and Resource
2. Awarding and Packaging
3. Satisfactory Academic Progress
4. Refunds and Returns
5. Verification and Documentation
6. Student Loan Limits

CONCLUSION

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

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

Academic Policies and Standards

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:

- 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)
- Three hours in a laboratory, with additional outside work in preparation and documentation;
- 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 UVSC as two semester credits. A three semester credit course at UVSC transfers to a college or university operating on the quarter calendar as 4.5 quarter credits.

FULL-TIME STUDENT STATUS

UVSC 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



Success.

Academic Policies and Standards

One Credit of: Equals Grade Points:

A	4.0
A-	3.7
B+	3.4
B	3.0
B-	2.7
C+	2.4
C	2.0
C-	1.7
D+	1.4
D	1.0
D-	0.7
E	0.0
UW	0.0

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 College 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 UVSC overall GPA for UVSC 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 UVSC.

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

Changing a Grade POLICY

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

PROCEDURE

Student Action—

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

First - The student shall approach the instructor of the course. He/she has the right to discuss the merits of his/her appeal in an informal and non-threatening environment.

Second - After obtaining feedback from the instructor regarding rationale for assigning the original grade, and assuming dissatisfaction still exists at the conclusion of the first step, or if the original instructor is no longer available, the student has a right to submit an informal appeal to the department head, either in writing or verbally, in a consultation setting.

Finally - If a mutual understanding cannot be reached in the **second** step, the student has the right to submit a formal written appeal through the Office of the Registrar to the 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 UVSC, 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."

If a student stops attending (but does not officially withdraw) **before the last day to withdraw**, he/she should receive a "UW."

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

"UW's" are calculated into the grade point average (GPA) as 0.00, the same as "E's" (failing grades).

Administrative Withdrawal

Students may be withdrawn from classes by the administration if they: 1. Register, but do not attend equipment or lab-related courses within the first three days of a semester, 2. Register for courses for which they have not completed prerequisites, 3. Default on short-term loans, or 4. Neglect to pay tuition and fees for any given semester/term by the end of the fourth week. Such changes to a student's schedule could affect financial aid, scholarships and/or refunds.

Withdrawal from the College

It is the responsibility of the student who withdraws from school to complete an Official Withdrawal Form and submit it to One Stop. Complete withdrawal from college may adversely affect financial aid and/or Veterans' benefits.

Simply stopping attendance does not qualify as a withdrawal, and a student who

does so may receive a failing grade.

Reinstatement

Students who withdraw from the College and then desire to be reinstated during the same academic semester may do so by obtaining clearance from the Registration Office and by paying a \$5 reinstatement fee.

Student Military Leave Procedure

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

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

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

COLLEGE CREDIT

College credit at UVSC may be obtained through the following methods: 1. UVSC 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. UVSC Credit

UVSC credit is obtained through admittance to UVSC, 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 UVSC college credit. Students enrolled in cooperative education work as paid employees of a business, agency, or institution while enrolled at the College 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:

Credit Hours	Minimum Hours of Work
1	75
2	150
3	225
4	300
5	375
6	450
7	525
8	600

Coop credits are registered for at the same time and in the same manner as UVSC 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 UVSC Admissions Office. Transcripts accepted as official by the UVSC 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 UVSC 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 UVSC. Transfer courses are not calculated in the GPA.

Academic Policies and Standards

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, UVSC 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 UVSC.

General Education for Transfer Students

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

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 UVSC 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 UVSC, the institution from which credit is to be transferred must be accredited by one of the following regional associations:

- Middle States Association of Colleges and Schools (MSA)
- Northwest Association of Colleges and Universities (NACU)
- North Central Association of Colleges and Schools (NCA)
- New England Association of Schools and Colleges, Inc./Commission on

Institutions of Higher Education (NEASC-CIHE)

- Southern Association of Colleges and Schools/Commission on Colleges (SACS-CC)
- Western Association of Schools and Colleges/Accrediting Commission for Community and Jr. Colleges (WASC-Jr.)
- Western Association of Schools and Colleges/Accrediting Commission for Sr. Colleges and Universities (WASC-Sr.)

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

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

International and Foreign Institutions

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

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

3. Experiential/Challenge Credit (Equivalency Examination and/or Documentation of Earned Competency)

Credit for any course that appears in the current catalog may be awarded to individuals who can prove through appropriate assessment and/or documentation that they have already acquired the equivalent knowledge and/or expertise required for successful completion of that course.

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

- a. be admitted to the College and currently enrolled for at least three semester hours of credit;
- b. complete the semester in which the challenge credit is awarded with at least three earned semester hours of credit, excluding the challenge credit;
- c. obtain department chair approval prior to step d;
- d. pay in advance a nonrefundable processing fee;
- e. complete a comprehensive examination (theoretical and/or applied) with at least a "C-" grade

and/or provide documentation of practical experience to the satisfaction of the department chairperson and dean showing course objectives have been met; OR complete an advanced course with a grade of "C-" or higher as a validation procedure (if deemed necessary by the department);

- f. pay a fee for each approved credit hour.

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

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

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

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

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

4. Language Challenge Credit

Students may obtain an Experiential Language Credit Request Form in the UVSC Language Department.

Students who have acquired proficiency in languages **offered at UVSC** by means other than college courses (high school, foreign residency, etc.) may earn up to 18 credit hours. To qualify for these credits, a student must complete a course in that language at a higher level than the credits for which he/she applies; the grade in that course must be a "C-" or better.

To qualify for credit for language courses **not offered at UVSC**, a student may take the appropriate nationally normed language test at an accredited four-year college or university and provide UVSC 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 UVSC.

Proficiency tests to determine placement (not credit) in advanced courses are administered in the UVSC 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 UVSC 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 UVSC 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.

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

ACADEMIC STANDARDS

Career and Academic Counseling Center

Room: WB 147

Telephone: 863-8425

The mission of Academic Standards at Utah Valley State College (UVSC) 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 UVSC in good standing. To this end, the following policies have been established:

Academic Warning

A student with a current GPA below 2.0

will be on academic warning and will be required to attend a short workshop before the hold will be removed from his/her student record.

Academic Probation

1. A student with a cumulative GPA below the 2.0 minimum will be on academic probation.
2. A student will be removed from academic probation when their cumulative GPA and current GPA are 2.0 or above.

Suspension

1. A student who fails to achieve both a current and cumulative GPA of at least 2.0 after two semesters of probation will be suspended from UVSC.
2. A student who has been suspended must petition the Academic Appeals Committee in order to register for a subsequent semester.
3. If a student's petition is granted, the conditions and length of probation will be determined by the Academic Appeals Committee. When the student has completed the terms of probation and his/her grades are consistently above 2.0 for a least two semesters, the student will be returned to good standing at UVSC.

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 UVSC. Such a student has exhausted his/her opportunity to study at UVSC in a degree-seeking program until he avails himself of the appeals process.

Re-Admission

Students who withdraw from UVSC 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 UVSC 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

Academic Policies and Standards

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, UVSC 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 UVSC.
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 UVSC course work within a minimum cumulative GPA of 2.50. This course work must have been completed after the course work being considered for elimination.

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

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

This policy will not be used for individual courses, or for students already holding associate or baccalaureate degrees. Since this is already a policy of exception, no

exceptions will be made to the aforesaid conditions. Students should be aware that this policy MAY NOT BE ACCEPTED at transfer institutions. Academic renewal may be requested only once during a student's academic career at UVSC.

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.

Graduation and General Education

GRADUATION OFFICE

Room BA 114
801-863-8438

Utah Valley State College offers the following degrees: 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 State College reserves the right to change graduation requirements at any time.*

The College confers degrees, diplomas or certificates upon students who meet both the *General Education* requirements of the College 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.

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 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.

Graduation and
General Education



Success.

Graduation and General Education

Global Intercultural Requirement

Beginning Fall of 2008, a new 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 fulfill this requirement will be coded with a GI course attribute.

Residence Requirement

At least 30 credit hours in residence at UVSC 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.

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 UVSC. However, a student having an AAS degree from another college may earn additional AAS degree(s) and/or an AS/AA degree at UVSC, 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 UVSC 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 UVSC (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;
- Residency hours - minimum of 30 credit hours through course attendance at UVSC, 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.

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 UVSC;
- 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. Ten credits of the same language taken at UVSC or transferred from another college; or
2. 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;

Graduation and General Education

- Overall grade point average of 2.0 (C) or above;
- Residency hours - minimum of 20 credit hours earned through course attendance at UVSC;
- 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 an Application for Graduation form (obtained from the Graduation Office, BA 114 or online), fulfill all requirements listed thereon, turn the application in to the Graduation Office by the deadline on the application. The graduation fee must be paid to the cashier prior to graduation.

APPLICATION DEADLINES ARE:

Fall Semester Deadline: First Friday in October

Spring Semester Deadline: First Friday in February

Summer Semester Deadline: 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 State College 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.)

Two-year Degrees

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

UVSC 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 Schools of the College will select a valedictorian from a list supplied by the Graduation office of candidates graduating with honors during the academic year. Schools with bachelor's degrees will select a valedictorian for both associate degree graduates and one for bachelor's 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 State College 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 UVSC 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 UVSC 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 UVSC department advisors or the Graduation and Transfer Services Office, BA 114.

GENERAL EDUCATION CODE SYSTEM

General Education course designator codes 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:

AS - American Institutions
BB - Biology
CC - English Composition
FE - Fitness for Life
FF - Fine Arts
HH - Humanities
IH - Ethics and Values
LH - Foreign Language
MM - Mathematics
PP - Physical Science
SS - Social Science
TE - Personal Health
XF - Must be taken with another course to equal FF (see department)

In addition to the courses listed above, the courses listed below also fulfill the minimum requirements in general

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education for the Associate in Applied Science Degree:

- GB - Biology
- GC - English Composition
- GE - Health or Physical Education
- GF - Fine Arts
- GH - Humanities
- GM - Mathematics
- GP - Physical Science
- GS - 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.

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 UVSC, taking into account adjustments that may be required by academic departments to fulfill their specific needs. Honors courses with the same prefix and number also satisfy distribution requirements. Total core and distribution is 35 credits.

Core Requirements

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

Complete the following: 6 credits
ENGL 1010 Introduction to Writing
and

ENGL 2010 Intermediate Writing—Humanities/
Social Science

or
ENGL 2020 Intermediate Writing—Science and
Technology

Complete one: 3 or 4 credits
MATH 1030 Quantitative Reasoning
(recommended for Humanities or Arts majors)

or
MATH 1040 Introduction to Statistics
(recommended for Social Science majors)

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

or
One course that requires MATH 1050 as a
prerequisite (excluding MATH 1060)

or
An Advanced Placement (AP) Mathematics Test with
a score of 3 or higher.

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

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

HIST 1700 American Civilization
HIST 1740 US Economic History
POLS 1100 American National Government

Complete the following: 5 credits
PHIL 2050 Ethics and Values
HLTH 1100 Personal Health & Wellness
or
PES 1097 Fitness for Life

Distribution Requirements 18 credits

A. SCIENCE

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

Biology

BIOL 1010 General Biology 3.0
BIOL 1070 Genetics 3.0
BIOL 1200 Prehistoric Life 3.0
BIOL 1500 Physical Anthropology 3.0
BIOL 1610 College Biology I 5.0
BIOL 204R Natural History Excursion* 3.0
BIOL 2500 Environmental Biology 3.0
BOT 2050 Field Botany 3.0
BOT 2100 Flora of Utah 3.0
BOT 2400 Plant Kingdom 4.0
HLTH 3400 Human Diseases 3.0
MICR 2060 Microbiology for Health Professions 4.0
NUTR 2020 Nutrition Through Life Cycle 3.0
ZOOL 1090 Introduction to Human Anatomy/
Physiology 3.0
ZOOL 2320 Human Anatomy 4.0
ZOOL 2400 Animal Kingdom 4.0
* May be used as the third science only

Physical Science

ASTR 1040 Elementary Astronomy 3.0
CHEM 1010 Introduction to Chemistry 3.0
CHEM 1110 Elementary Chemistry for the Health
Sciences 4.0
CHEM 1120 Elementary Organics
Bio-Chemistry 4.0
CHEM 1210 Principles of Chemistry I 4.0
CHEM 1220 Principles of Chemistry II 4.0
GEO 1010 Introduction to Geology 3.0
GEO 1020 Prehistoric Life 3.0
GEO 1080 Introduction to Oceanography 3.0
GEO 1220 Historical Geology 3.0
GEO 204R Natural History Excursion* 3.0
METO 1010 Introduction to Meteorology 3.0
PHSC 1000 Survey of Physical Science 3.0
PHYS 1010 Elementary Physics 3.0
PHYS 1040 Elementary Astronomy 3.0
PHYS 1070 Cultural Astronomy 3.0
PHYS 1080 Life in the Universe 3.0
PHYS 2010 College Physics I 4.0
PHYS 2020 College Physics II 4.0
PHYS 2210 Physics for Scientists/Engineers I 4.0
PHYS 2220 Physics for Scientists/Engineers II 4.0
*May be used as the third science only

B. HUMANITIES—One course minimum

AMST 2000 Introduction to American Studies ... 3.0
ASL 2020 Intermediate American Sign
Language II 3.0
CHIN 2020 Intermediate Chinese II 3.0
COMM 1020 Public Speaking 3.0
COMM 1050 Introduction to Speech
Communication 3.0
COMM 1130 Writing for Mass Media 3.0
COMM 1500 Introduction to Mass
Communications 3.0
COMM 2010 Mass Communication and Society 3.0
ENGL 2030 Rhetoric of Persuasion 3.0
ENGL 2130 Science Fiction 3.0

ENGL 2200 Introduction to Literature 3.0
ENGL 2210 Introduction to Folklore 3.0
ENGL 2230 Myths/Legends in Literature 3.0
ENGL 2250 Creative Procedure/Image Writing 3.0
ENGL 2300 Shakespeare 3.0
ENGL 2310 Technical Communication 3.0
ENGL 2510 American Literature before 1865 3.0
ENGL 2520 American Literature after 1865 3.0
ENGL 2600 Critical Introduction to Literature ... 3.0
ENGL 2610 British Literature Before 1800 3.0
ENGL 2620 British Literature After 1800 3.0
ENGL 3760 World Literature 3.0
FREN 2020 Intermediate French II 3.0
GER 2020 Intermediate German II 3.0
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
IS 3000 Introduction to Integrated Studies 3.0
JPNS 2020 Intermediate Japanese II 3.0
PHIL 1000 Introduction to Philosophy 3.0
PHIL 1250 Logical Thinking and Philosophical
Writing 3.0
PHIL 1610 Western Religions 3.0
PHIL 1620 Eastern Religions 3.0
PHIL 2110 Ancient Philosophy 3.0
PHIL 2130 Medieval Philosophy 3.0
PHIL 2150 Early Modern Philosophy 3.0
PHIL 3400 Philosophy of Science 3.0
PHIL 3530 Environmental Ethics 3.0
PORT 2020 Intermediate Portuguese II 3.0
RUS 2020 Intermediate Russian II 3.0
SPAN 2020 Intermediate Spanish II 3.0

C. FINE ARTS—One course minimum

ART 1010 Introduction to Visual Arts 3.0
ART 1050 Photography I 3.0
ART 1110 Drawing I 3.0
ART 1340 Sculpture I 3.0
ART 1350 Ceramics I 3.0
ART 1630 Introduction to Landscape Painting .. 3.0
ART 1650 Watermedia I 3.0
ART 1680 Fundamentals of Fiber Design 3.0
ART 1690 Glass Design and Construction 3.0
ART 1700 Process of Jewelry/ Metal Design 3.0
ART 1720 Architectural Rendering 3.0
ART 2110 Drawing II 3.0
ART 2630 Painting I 3.0
ART 2710 Alternative Photography I 3.0
ART 2720 Color Photography 3.0
ART 3400 Fundamentals of Art Education 2.0
ARTH 2710 History of Art to the Renaissance 3.0
ARTH 2720 History of Art from the Renaissance 3.0
DANC 1010 Dance as an Art Form 3.0
DANC 2110 Orientation to Dance 3.0
MUSC 1010 Introduction to Music 3.0
MUSC 1100 Fundamentals of Music 2.0
To Be Taken With One of the Following:
MUSC 120R A Cappella Choir 2.0
MUSC 122R Chamber Choir 1.0
MUSC 124R UVSC Concert Choir 2.0
MUSC 126R Show Choir (Encore) 2.0
MUSC 130R Symphonic Band 2.0
MUSC 132R Jazz Ensemble 2.0
MUSC 170R Symphony Orchestra 2.0
MUSC 172R Chamber Orchestra 1.0
MUSC 3010 Music History/Literature I 3.0
MUSC 3020 Music History /Literature II 3.0
THEA 1013 Introduction to Theater 3.0
THEA 1023 Introduction to Film 3.0
THEA 2313 Film History I 3.0

Complete 2 of the following to equal 1 Fine Arts
Distribution course*
DANC 3400 Dance in Elementary School* 2.0
MUSC 3400 Music in Elementary School* 2.0
THEA 3713 Child Theater Elementary School*. 2.0

D. SOCIAL/BEHAVIORAL SCIENCE—One course minimum

ANTH 1010 Social/Cult Anthropology 3.0
ANTH 1070 Multicultural Societies 3.0

Graduation and General Education

ANTH 1500 Physical 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
CJ 1010 Introduction to Criminal Justice	3.0
COMM 2110 Interpersonal Communications	3.0
ECFS 1400 Marriage	3.0
ECFS 2400 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 Introductin to Human Geography. 3.0	
GEOG 2100 Geography of U.S.	3.0
HIST 1100 History of Civilization I.....	3.0
HIST 1110 History of Civilization II	3.0
HIST 1700 American Civilization**	3.0
HIST 1740 US Economic History	3.0
(If not used as Core Requirement)	
HIST 1800 Introduction to American Indian Studies	3.0
HIST 2700 US History to 1877**	3.0
HIST 2710 US History Since 1877**	3.0
HIST 4320 History of Scientific Thought	3.0
HIST 4330 Machines in the Making of History... 3.0	
HLTH 2600 Drugs, Behavior and Society	3.0
HLTH 2700 Health Concepts of Death/Dying	3.0
HLTH 2800 Human Sexuality.....	3.0
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 1010 Introduction to Political Science	3.0
POLS 1100 American National Government** ..	3.0
POLS 2100 Introduction to International Relations.....	3.0
POLS 2200 Introduction to Comparative Politics.....	3.0
PSY 1010 General Psychology	3.0
PSY 1100 Human Development: Life Span.....	3.0
PSY 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	

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

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

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

Associate in Arts degrees require 10 hours of these 25 hours to be from the same recognized foreign language. See your specific academic department for further information on appropriate course work to complete a pre-major or the remaining 25 hours. The Career and Academic Counseling Center (WB 147) has some specific outlines available to transfer to other institutions.

ASSOCIATE IN APPLIED

SCIENCE DEGREE

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

A. ENGLISH2 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. MATHEMATICS2 credits
MAT 1000 Integrated Beginning and Intermediate Algebra
or
MAT 1010 Intermediate Algebra
or
Any Higher Mathematics course
or
Any approved Departmental Mathematics Course

C. HUMANITIES/FINE ARTS/FOREIGN LANGUAGE2 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 SCIENCE2 credits
EGDT 1810 Principles of Technology
or
Any approved Biology or Physical Science Distribution Course

F. PHYSICAL ED/HEALTH/SAFETY OR ENVIRONMENT1 credit
Any approved Physical Education, Health, Safety or Environment Course

TRANSFER INFORMATION

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

UVSC 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 UVSC 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 UVSC 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 UVSC.

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.

Student Rights and Responsibilities

STUDENT RIGHTS AND RESPONSIBILITIES



The primary 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 college community. Students, faculty, staff, and administration should always exercise their freedom with personal responsibility.

The College 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 College accepts the obligation to conduct himself/herself in an adult manner acceptable at an institution of higher education.

Success.

POLICY STATEMENT

The educational environment is ideally conducted in an atmosphere where respect for all individuals exists. Therefore, students enrolled in the College accept the obligations to conduct themselves in an appropriate manner acceptable at an institution of higher learning.

The College has established written procedures outlined in this Student Rights and Responsibility Code, which provide a clear set of standard and fair treatments for its students.

STUDENT DISCIPLINARY PROCEDURES

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

Behavior which violates the Student Code should be reported to the Office of Student Judicial Affairs at 801-863-8694 (non-emergency) or Campus Police at 801-863-5555 (emergency.)

GENERAL RIGHTS

A student, while properly enrolled at the College, will have the right to the following college services, treatment, and information:

1. Free and open discussion, inquiry, expression, and assembly subject to constitutional limitations regarding time, place, and manner. (See college peaceful assembly policy)
2. Protection against the College'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 College rules.
9. Security for his/her person, papers, and personal effects against unreasonable searches and seizures.
10. Freedom to inquire and to be informed regarding campus crime statistics.
11. Freedom to form and to operate an organized student association within the guidelines prescribed by the institution.
12. Access to the College Ombudsman for consultation in matters of personal and school issues and concerns.
13. Student representation through ASUVSC on College committees, councils, commissions, and other formally constituted bodies that make general policy and procedure decisions directly affecting students or that govern student activities and conduct.
14. Access to all ASUVSC sponsored activities.
15. Accurate information in advertising, recruitment, and orientation efforts.
16. When contractually agreed to, off-campus housing grievances may be addressed under the student code of conduct.

ACADEMIC RIGHTS

1. A student will have the following rights in academic affairs,

Student Rights and Responsibilities

<p>services, and information when properly enrolled as a student at Utah Valley State College:</p> <ol style="list-style-type: none"> Performance based on a written syllabus. Appropriate and open discussion, inquiry, and expression, both in the classroom and in student/instructor conferences. Freedom to take exception to views presented in a classroom setting and to reserve judgment in matters of opinion. Professional and ethical conduct from all college personnel. Competent and professional instruction. Competent academic advisement. Protection against an instructor's improper disclosure of a student's records, academic work, views, beliefs, and political associations. Information prior to registering regarding the costs of tuition, activity fees, lab fees, course fees, etc. Scheduled access to and use of college services, facilities, and programs. Accurate information regarding course offerings, programs, majors, transfer policies, and institutional requirements and expectations. Accurate information regarding changes in course programs or institution requirements and reasonable accommodations for those already enrolled in a program or class. The right to receive academic credit and/or academic degrees when all specified requirements and course work have been satisfied. The right to appeal regarding grade change, withdrawals, etc. <p>GENERAL RESPONSIBILITIES</p> <p>A student assumes the responsibility to conduct himself/herself in an appropriate manner. Categories of misconduct that are not considered responsible behavior include, but are not limited to, the following:</p> <ol style="list-style-type: none"> 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. Sexual assault, harassment, or any other unwelcome verbal or physical sexual activity, including the support or assistance of such activities. Unauthorized seizure or occupation of any College building or facility. Obstruction, disruption, or interference with teaching, disciplinary proceedings, College-sponsored activities, services, or events. Use or possession of any weapon, explosive device, or fireworks or storage 	<p>of such on college property without prior written approval from the Chief of Campus Police.</p> <ol style="list-style-type: none"> 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 College or at any activity sponsored by the College. Initiation or circulation of any false report, warning, or threat of fire, bombs, or explosives on College premises or during College-sponsored events. Violation of the Utah Indoor Clean Air Act and/or the College no smoking policy. Sale, possession, manufacture, distribution, or consumption of alcoholic beverages on College properties or during college sponsored events on/off campus. Unauthorized possession, forgery, alteration, misuse, or mutilation of College documents, records, educational materials, identification, (i.e. personal ID, parking decal) library material or other College property. Violation of city ordinances and/or state statutes regarding gambling. Delivery of false information to College personnel. Theft or malicious destruction, damage, or misuse of College property or private property of another person on the College campus or when engaged in activities sponsored or supervised by the College off campus. Intentional or reckless destroying, defacing, vandalizing, damaging, or misusing property, equipment, materials, services, or data of the College. Unauthorized possession or use of a key, or a combination to any College facility or equipment. Obscene or lewd conduct as defined by College policy, city ordinances, and/or state statutes, including but not limited to, personal audio, video, film, and computer generated material. 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. Unauthorized use of or charges to any College telephone for long distance calls. Unauthorized off-campus fund raising activities on behalf of the College. All fund-raising must have prior written approval from the College Development Office. Intent to defraud the College in any 	<p>financial matter including, but not limited to:</p> <ol style="list-style-type: none"> non-redemption of personal checks refused by a bank; sale/resale of supplies, books, or equipment in violation of College agreements; falsifying College financial records; and/or nonpayment of tuition and fees as set forth by College regulations. <ol style="list-style-type: none"> Failure to adhere to all laws/College Policies or to conduct oneself in a way not to endanger the health and well-being of other students and college personnel. Unauthorized commercial ventures or enterprises on College property. Bringing animals on campus except for those serving the disabled or those used for educational purposes. Allowing children in College classrooms or laboratories (unless they are an integral part of instruction) or leaving children unattended in hallways, and restrooms or at college-sponsored events and functions. <p>Students are encouraged to report violations of this policy to the office of Student Life (SC 109) or College Police (863-8187).</p> <p>ACADEMIC RESPONSIBILITIES</p> <ol style="list-style-type: none"> Each student is expected to take an active role in the learning process by meeting course requirements as specified in written syllabi. Each student is expected to display appropriate conduct in classroom situations, which will enhance the learning environment. 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. Each student is expected to maintain academic ethics and avoid dishonesty in all its forms, including but not limited to, cheating and plagiarism, and fabrication as defined hereafter: <ol style="list-style-type: none"> Cheating is the act of using, attempting to use, or providing others with unauthorized information, materials, or study aids in academic work. Cheating includes, but is not limited to, passing examination answers to or taking examinations for someone else or preparing or copying another's academic work. 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
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Student Rights and Responsibilities

them off as the product of one's own work in any academic exercise or activity.

c. Fabrication is the use of invented information or the falsification of research or other findings. Examples include but are not limited to:

1. Citation of information not taken from the source indicated. This may include the incorrect documentation of secondary source materials.
2. Listing sources in a bibliography not used in the academic exercise.
3. Submission in a paper, thesis, lab report or other academic exercise of falsified, invented, or fictitious data or evidence, or deliberate and knowing concealment or distortion of the true nature, origin, or function of such data or evidence.
4. Submitting as your own any academic exercises, (e.g., written work, printing, sculpture, etc.) prepared totally or in part by another.

SANCTIONS

The purpose of sanctions is to provide a uniform method of dealing with infractions of the Student Code at Utah Valley State College. This process ensures that each situation considered for action receives a fair and impartial hearing. In preparing the procedure, careful attention will be given to the Student Code of Rights and Responsibilities including the legal rights provided citizens under the Constitution of the United States and the State of Utah.

Sanctions are assigned in accordance with two criteria:

1. The educational value for the person penalized.
2. The consistency between the offense and the penalty assigned.

INSTITUTIONAL SANCTIONS

The student found in violation of the Student Code may be subject to one or more of the following sanctions:

1. Warning: Verbal or written notice to a student that his/her conduct may be in violation of College rules and regulations and that the continuation of such conduct or actions may result in further disciplinary action.
2. Reprimand: Issuance of a written censure by the faculty member or College official stating violations and possible penalties sent to the student and also kept on file.
3. Probation: A specified period of

observation and review of conduct during which the student must demonstrate compliance with College rules and regulations. Counseling or participation in specific courses or workshops for a specified period of time may be required. Terms of probation and the probationary period will be determined at the time the sanction is imposed. Appropriate College officials shall be notified of the imposition of the sanction.

4. Suspension from Participation in a Restricted Enrollment Program: The opportunity to participate in a restricted enrollment program may be denied or suspended.
5. Suspension of Specific Privileges: The opportunity to participate in extracurricular activities; attend campus activities; utilize campus facilities, resources, and services; or other such measures may be suspended for a specific period of time, up to one year.
6. Suspension of Use of Specific College Services: The right to access and receive transcripts, to register, etc., may be suspended for a specific period of time or until specific conditions are met.
7. Separation of the Person from the College: Separation of the person from the college for a specified or indefinite period of time. Temporary and/or permanent suspension may appear on the student's transcript. Participation in any college-sponsored activity or the person's physical presence on the campus may be restricted.*
8. Expulsion: The student may be permanently separated from the College. A permanent indication of expulsion will be made on the student's transcript. The person can also be barred from the College campus or campus activities.*
9. Readmission: Students separated from the College may reapply with the consent of the Campus Appeals Board and the President of Utah Valley State College.

*Sanctions 7 and 8 will be recommended to the President of Utah Valley State College for implementation.

MONETARY SANCTIONS

1. Forfeiture: Loss of tuition and/or monies due to an individual or group and/or other appropriate fees may be imposed jointly with expulsion, suspension, suspension of specific privileges, or probation.
2. Restitution: Reimbursement for damage to or misappropriation of property, which may take the form of direct financial compensation and/ or up to 20 hours per week of uncompensated

work for the College, community, or other forms of indirect compensation as outlined in the official decision.

3. Fines: Payment of punitive fines may be required. Fines may be imposed separately or in conjunction with any other individual sanction or combination of sanctions. A portion of the fine may be suspended pending successful completion of other sanctions. Failure to make required payment may result in cancellation or denial of academic registration or to hold office in student organizations (ASUVSC).

PERSONAL DEVELOPMENT SANCTIONS

Requirements or recommendations for counseling, enrollment in specific campus courses, or workshops may be made. If requirements are not met, probation and further sanctions may result.

INDIVIDUAL/GROUP SANCTIONS

Any single sanction or combination of sanctions listed in this Student Code, including the loss of ASUVSC status, may be imposed against an entire group, individual group officers, or individual group members, arising from their conduct in or leadership of the group, pursuant to the provisions for personal conduct outlined in this Student Code. Notification of any sanction imposed may be made to national affiliates and officials.

TEMPORARY/INTERIM/ EMERGENCY SANCTIONS

In special circumstances, any sanction listed below may be temporarily implemented prior to a hearing and carried out by official enforcement agencies or officers.

1. Situations in which there is reasonable cause to believe the continued presence of either the student or a student group on campus or at College events poses an unreasonable risk of harm to the health, safety, or welfare of the college community or individuals in the college community include:
 - a. Threatening or inflicting bodily harm on oneself or others;
 - b. Inflicting serious emotional or mental distress or fear on oneself or others;
 - c. Creating a substantial disruption of normal campus functions, including campus instruction;
 - d. Presenting a threat to the stability and continuance of any normal College function;

- e. Being arrested on misdemeanor or felony charges.
2. Any student/student group receiving a sanction on an interim basis shall be given the opportunity for a review by the College Appeals Board chair or another appropriate authority before a hearing committee within a reasonable time period from the effective date of the action.
3. If, after a review, the determination is made that a student or registered student organization did not violate College policy or fall under the provisions of this emergency section, arrangements will be requested of faculty members so that any missed academic work may be made up.
4. As soon as possible, the chair of the appropriate committee will schedule a hearing to determine if temporary sanctions should be extended or become permanent.

PENDING CIVIL OR CRIMINAL ACTIONS

Civil or criminal court actions may be grounds for sanctions imposed by the college before or after courts have determined guilt or civil liability.

1. College actions, in addition to formal civil or criminal legal action, may be considered at the request of campus police or other interested parties. Such an issue must allow for due process before further action is taken.
2. Temporary sanctions may be imposed, based on guidelines outlined in this Student Code.
3. Permanent sanctions may be imposed only after a hearing committee decision is reached.
4. The due process procedures and guidelines outlined in this Student Code must be followed where permanent sanctions or additional College sanctions may be imposed.

APPEALS

As with all issues, problems should be resolved at the lowest possible level and shall involve individuals closely aware of, and involved in, the issue(s) before seeking appeals.

In the case of appeal hearings, penalties may not be assigned that are more severe than those assigned by the lower body unless additional evidence has been presented justifying such an action.

Penalties may not be overthrown until a review of written lower body recommendations and evidence. (See Grievance Procedures)

GRIEVANCE PROCEDURES

The appeals procedure outlined hereafter applies to all student grievances. Individuals who feel they have been unfairly treated may make a written appeal through the appropriate channels described herein.

The primary purpose of this document is to provide a set of procedures through which a student may seek redress, or be disciplined for violations of college policies and practices that are relative to provisions found in the Student Rights and Responsibility Code. The grievance procedure is not applicable for situations deemed more appropriate for other appeal and adjudication procedures provided by the College.

TYPES OF COLLEGE APPEALS

Academic Grievances

For academic grievances, the channel of appeal shall be through the Academic Department regarding academic dishonesty, plagiarisms, cheating, grade change, withdrawals, etc. by contacting the respective department coordinator or chairperson.

Discrimination Grievances

For matters related to discrimination on the basis of national origin, race, color, sex, sexual harassment, marital or parental status, religion, age, the channel of appeal shall be through the Equity Officer by contacting the office of Human Resources or the office of Student Life.

General Student Grievances

For general student grievances in which alleged violations of the Student Rights and Responsibility Code are involved, an individual may petition for a hearing by contacting the Office of Student Life in SC 109.

FILING A GRIEVANCE

Individuals utilizing any grievance procedure may do so by completing and submitting the appropriate appeal form to the responsible body. Appeals subject to the Campus Appeals Board should be submitted no later than 14 days following the time of the alleged violation. College personnel directly involved in or knowledgeable about the student(s) issue must also respond within 14 days, after which the procedure will automatically proceed to the next step as outlined in the Campus Appeals Board procedure (steps 1-3) as listed below.

CAMPUS APPEALS BOARD

PROCEDURE

1. The aggrieved student is encouraged to first confer with the individual(s) involved in the grievance in an attempt to resolve the problem informally. This could include assistance from the Office of Student Life.
2. Unresolved grievances shall be filed in written form, utilizing the Campus Appeals Board appeal form, and submitted to the respective chairperson or his/her designee. The chairperson, within 14 days from the date of the grievance filing date, shall conduct a formal hearing or inquiry and shall attempt to resolve the matter impartially as quickly as possible.
3. If the panel's decision requires a student's separation or termination from school, the recommendation for dismissal will be forwarded with copies of all documentation to the College President or his/her designee who shall accept the panel's decision or provide written exception after review of all evidence presented. The decision of the President or his/her designee shall become the final institution decision. The College President will provide the hearing panel a written copy of his/her final decision within 14 days.

At the step the grievance is resolved, a written statement shall be prepared, signed, dated, sent to appropriate parties and filed with the appropriate corresponding office.

HEARING COMMITTEE/ HEARING AND DECISIONS

The Campus Appeals Board shall constitute the hearing panel, consisting of at least two faculty (selected by the Faculty Senate Executive Board), one staff member (selected by the PACE Board), three student representatives (selected by the student body President). The hearing panel shall serve three, two-, or one- year terms as needed to provide continuity. The intent of the Board will be to establish a hearing panel that is unbiased. Therefore, all panel members shall be impartial toward the case before them. The Dean of Student Life will appoint panel members as needed where members are disqualified or unavailable for the entire hearing. The panel will receive legal advice in conducting such hearings.

Due process shall be accorded to all parties involved in the grievance including their right to notice of hearing, time and date, a list of charges, the right to obtain advice from counsel, the right to present witnesses, and the right to present written statements.

Should any of the parties by their choice wish not to attend, the hearing will continue to be conducted. No fewer than five

Student Rights and Responsibilities

committee members will hear grievances put before the panel. Decisions by the hearing panel will be by majority vote of the members present at the meeting. At the completion of the hearing, a decision will be rendered and announced by the panel chairperson.

A panel's written decision will be made available within 14 days following the conclusion of the final hearing. Copies of the written decision shall be provided to appropriate parties and official officers.

WITHDRAWAL

A grievance may be withdrawn by the grievant at any time without prejudice.

REPRISALS

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; however, individuals furnishing false information and/or documentation to the hearing panel are subject to disciplinary action.

CONFIDENTIALITY

Appropriate confidentiality will be observed in all grievance procedures and record thereto.

INFORMAL RESOLUTION OF GRIEVANCE ENCOURAGED

Nothing contained herein shall be construed so as to limit in any way the ability of the grievant and the College to resolve any grievance mutually and informally.

APPROVAL AND AMENDMENT

1. Approval
 - Approval of the Student Code becomes effective immediately as per college policy and procedure and approval of the College Board of Trustees.
2. Amendment
 - Any member of the UVSC community may recommend amendment of this procedure by submitting such recommendation in writing to the Student Rights and Responsibility Committee. An amendment becomes effective immediately as per College policy and procedure and approval of the College Board of Trustees.

CAMPUS APPEALS BOARD
GRIEVANCE PROCEDURES
Utah Valley State College
800 West University Parkway
Orem, UT 84058-5999

THE ASSOCIATED STUDENTS OF
UTAH VALLEY STATE COLLEGE

ALL STATEMENTS HEREIN ARE BELIEVED TO BE TRUE AND CORRECT AT TIME OF PUBLICATION. UTAH VALLEY STATE COLLEGE RESERVES THE RIGHT TO MAKE NECESSARY CHANGES, DELETIONS, OR REVISIONS.

Student Services



Success.

ACADEMIC TUTORING

Academic Tutoring is available at no charge to all UVSC 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: Gary Sauter
Office: LA 221p
Telephone: 801-863-7418
E-mail: gary.sauter@uvsc.edu

The Learning Strategist provides many resources:

- Advisement in developing a personalized program of study processes
- Support programs for transitional and provisionally admitted students
- Student success workshops
- Referral to other services and agencies

Math Lab

Manager: Kathryn Van Wagoner
Office: Academic Tutoring, LA 201
Telephone: 801-863-8411
Online: <http://www.uvsc.edu/mathlab>
E-mail: kathryn.vanwagoner@uvsc.edu

The Math Lab offers free drop-in math tutoring for all UVSC students in a relaxed, friendly atmosphere. Resources include individual tutoring, group tutorials, a group study room, and live Internet tutoring through Math Lab Online. Video-taped lectures are available for use in the lab, as well as solution manuals.

Peer Tutoring

Drop In Lab: LA 201
Manager: Regie Holdaway
Office: LA 201
Telephone: 801-863-8356
Online: <http://www.uvsc.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 UVSC students. Services include a drop-in tutoring lab, 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: Jennifer Abbot Paul
Office: Academic Tutoring, LA 201;
Library Extension, LC 424
Telephone: 801-863-8099
Online: <http://www.uvsc.edu/owl>
E-mail: jennifer.paul@uvsc.edu

The Writing Center provides free one-on-one tutoring to all UVSC 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

Student Services

materials, and the On-line Writing Lab (OWL) <http://www.uvsc.edu/owl>.

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. UVSC 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 UVSC 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 UVSC Alumni Association exists to serve both present and former students, and operates utilizing a "perpetual fund" concept used by Utah's pioneer ancestors. Today's students are the beneficiaries of former students, who continue to give to UVSC, 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 UVSCAA provides benefits and support for over 100,000 UVSC alumni, and is responsible for many services, like publishing SEQUEL Magazine, providing benefits programs, the Alumni Classic Golf Tournament, and other similar offerings. In addition, the UVSCAA maintains its home page, located on the internet at www.uvsc.edu/alumni, where both students and alumni can access various services of the association through the on-line community. The Alumni Association also sponsors

over 20 private scholarships using the money raised at the Alumni Classic Golf Tournament.

The UVSCAA 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 Advancement Building in AB-104. For more information about this and other Alumni related topics, call 801-863-8179.

BOOKSTORE

UVSC Bookstore
Located: SC 102
Telephone: (801) 863-8641
Hours:
Mon-Thurs 7:45 am-7:00 pm
Fri 7:45 am-5:00 pm
Sat 9:00 am-1:00 pm (Fall and Spring semesters only)
Mon & Fri 8:00 am-5:00 pm (Summer semester only)
Tue, Wed, Thurs 8:00 am-6:00 pm (Summer semester only)
Closed Sunday and Campus Holidays

The bookstore is open each weekday to serve the students, faculty and staff of UVSC. 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 UVSC apparel.

INTERNATIONAL CENTER

Office: WB 100
Telephone: 801-863-8342
<http://www.uvsc.edu/international>
E-mail: (for international student inquiries): international@uvsc.edu
E-mail: (for study abroad inquiries): 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

Established more than a decade ago, the Ross and Margie Butler Institute for International Understanding coordinates UVSC's international student services and educational activities. The International

Student Services section of the Butler Institute manages the federally mandated Student and Exchange Visitor Information System (SEVIS) on behalf of UVSC. Professionally trained advisors work to ensure that UVSC's international students maintain their legal status and successfully adjust to their new living environment. In addition to managing the college's SEVIS compliance, the Butler Institute's director oversees the coordination of UVSC's international sister-school relationships and short-term training programs. In addition, the Butler Institute staff assists with hosting distinguished international visitors, advising and supporting the International Student Council, and promoting various international educational and cultural activities for the campus and Utah Valley communities.

Directly related to UVSC's mission to provide "international opportunities" to students, the Butler Institute's International Study Programs section provides support for faculty and academic departments regarding international faculty exchanges, visiting scholars, Fulbright Program opportunities, and faculty-directed study abroad. The Institute's associate director collaborates with UVSC faculty and staff in developing and coordinating the College's study abroad, international internship, and overseas volunteer opportunities. Recently, UVSC faculty led study abroad experiences in China, England, France, Ghana, Italy, Russia, and Spain. The Institute's staff works hard to maintain economically feasible opportunities while providing safe, high-quality international academic experiences.

CAMPUS CONNECTION

Student Center
Telephone: 801-863-8797

Campus Connection provides information on all student activities sponsored by or held at the College Campus. Campus Connection is open from 8:00 a.m. to 7:30 p.m. Monday through Thursday, 8:00 a.m. to 5:00 p.m. on Friday, and 9 a.m. to 1 p.m. on Saturdays. Holiday hours may vary.

ID/Library Card/Activity Card/Wolverine Debit Card (available at Campus Connection)

The card will allow access to most student activities, athletic events, library book checkout, PE Issue Room, and athletic facilities. Student fees entitle each student to one ID/Activity Card for the duration of his/her enrollment at UVSC. Students should save their cards even if they skip a semester or a year or two, because

the card is automatically validated when registration is paid. Replacement cards (lost, stolen or name changes) are \$10.

Your ID/Activity Card can also be a valid UTA Bus Pass by taking your UVSC ID and current semester tuition receipt to Campus Connection to obtain a UTA bus pass. It also offers entrance into selected different community events, activities, and dances.

The Wolverine Debit Card is a debit account made available for students to deposit funds at Campus Connection or online and then to use their card to make purchases on campus for food, books, and special event tickets. Students can also pay for their tuition and fees at the Cashiers office with their Wolverine Debit Card. When the Wolverine Debit Card is used in food services, students receive a 5% discount. VISA, MasterCard, and Discover cards are accepted to put money on the Wolverine Debit Card.

Other Services

Lost and Found for the College 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 3:45pm Monday-Friday and 12:45pm on Saturday. Cash, Check, Credit and Debit Cards are accepted. Sorry, no Wolverine Debit Card use for the Post Office.

CAREER AND ACADEMIC COUNSELING CENTER

Office: WB 147
Telephone: 801-863-8425
Hours:
Monday 8:00 am - 7:00 pm
Tuesday 8:00 am - 6:00 pm
Wednesday 8:00 am - 6:00 pm
Thursday 8:00 am - 7:00 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 assist 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.

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

Advisor Training

Advisor Training at UVSC is an evolving campus-wide program based on the standards outlined by the Council for the Advancement of Standards (CAS) in Higher Education. Training is initiated by a computer-based Orientation program to familiarize new advisors with many of their advising duties and school resources. An on-line Advisor Handbook provides detailed information about school policy and procedures. Advisors are also encouraged to participate in one-on-one, small group, and Advisement Forum training sessions. The goals of the program include the following objectives:

Develop and improve training programs for new academic advisors

- Disseminate current information and resources.
- Model and facilitate best advising practices to advisors.
- Cultivate professional relationships among administrators, departmental advisors, central advisors and other academic/student support services.
- Provide continuing professional development through the campus Advisement Forum.

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 page 18.

College Transfer Information

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

- Articulation agreements between UVSC 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.uvsc.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

Student Services

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.uvsc.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: 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 UVSC 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.uvsc.edu/leadership, or requesting a DVD from the Director, Dr. Bruce H. Jackson (863-7431).

THE CENTER FOR HIGH SCHOOL STUDIES

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

863-8707

The Center for High School Studies offers services to all UVSC 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 UVSC 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 CENTER FOR SERVICE AND LEARNING

Office: SC 101
Telephone: 801-863-8786

The Center for Service and Learning is dedicated to providing service and service-learning opportunities for the students, faculty, and staff of UVSC. 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.

THE CENTER FOR STUDENT COMPUTING

Office: SC 116
Telephone: 801-863-8390
<http://csc.uvsc.edu>

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

The Open Student Computer Labs are available to all currently registered UVSC 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 55 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 9:00 am to 5:00 pm on Saturday. Check with lab assistant for holiday hours. The lab's telephone number is 801-863-6081.

The "Fishbowl" lab is located in SC116 at the north end of the Student Center. The hours 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.

CENTER FOR STUDENT SUCCESS

Academic Director: Michael A. Jensen
Office: LC 210
Telephone: 801-863-7090
E-mail: jensenmi@uvsc.edu

Assistant Director, UV Mentors:
Marinda Ashman
Office: LC
Telephone: 801-863-7227
E-mail: ashmanma@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
- Self-awareness
- Connecting to the campus community

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.

CLUBS AND ORGANIZATIONS

Office: LC 101
Telephone: 801-863-8820

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

UV Clubs, a branch of ASUVSC, 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 UVSC 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.uvsc.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 College 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 UVSC 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 Association 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://www.uvsc.edu/depts/athletic>.

Cheerleaders and "THE WOLVERINE"

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

DINING SERVICES

Office: SC 201
Telephone: 801-863-8664

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

The Centre Courte main food court is located on the main floor of the Sorensen Student Center. With the recent expansion of the Student Center, food service options are plentiful. The "CENTRE COURTE" has a large variety of retail food options: Wolverine Wok, Courte Side Grille, Fresh Wrapz, Freshetta's Italian Café, Wolverine Cuisine Corner, Hogi-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 3:00 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 UVSC 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 108
Telephone: 801-863-6163

The Extramural/Intramural Sports Department offers a variety of different competitive activities for UVSC students. Intramural activities include team sports such as basketball, flag football, volleyball, and ultimate frisbee, as well as individual and dual sports including racquetball,

Student Services

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 UVSC competing against one another), we also have Extramural Sports (teams from UVSC that compete against other campuses). Extramural activities include teams sports such as Men's Soccer, Men's Volleyball, Men's Lacrosse, Men's Rugby, Men's Golf, and Rodeo Team.

LIBRARY

Losee Center (3rd & 4th Floor)
Telephone: 801-863-8265

Fax: 801-863-7065
<http://www.uvsc.edu/library>

Director: Michael J. Freeman
Office: LC 403
Telephone: 801-863-8751

Assistant Director: Kimberly Rollins
Office: LC 312e
Telephone: 801-863-8752

Hours:

7 am - 11 pm Monday-
Thursday
7 am - 7 pm Friday
8 am - 7 pm Saturday

Advisory Committee: Cindy Clark, Chair;
Jeff Kahn; Gene Nelson; Joel Sybrowsky

The library houses over 210,000 volumes, 14,000 videos, and over 28,000 periodicals in print or electronic format. Reference service is available to assist students doing research; formal classroom instruction is also available. The library network provides electronic access to 123 indexes and databases, six full-text newspaper databases, and library catalogs throughout Utah, the United States, and around the world. Full Internet access is provided. Through the Utah Academic Library Consortium, UVSC student cards are good at all public and private academic libraries in the state. Web-based Interlibrary Loan moves materials quickly between consortium members. The library contains reserve materials (including electronic reserve) for instructors, a teacher education resource center, specialized hardware and software for students with disabilities, and hosts a series of art exhibits throughout the year.

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.uvsc.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 UVSC. 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.uvsc.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.uvsc.edu/housing, or it can be mailed to you.

The UVSC 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 UVSC 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 provides information to prospective UVSC Students, promotes UVSC, and establishes positive relationships with high school and junior college counselors and administrators. Utah Valley State College is also promoted by attendance at college, and education fairs

The Office of Prospective Student Services also provides Campus Tours. To schedule an individual or group tour call us at 801-863-8811. For more prospective student information visit our website, <http://www.uvsc.edu/prospective.html> or call an Orientation Leader at 801-863-7445.

OMBUDS

Office: SC 107
Telephone: 801-863-8665

Within the UVSC community misunderstandings and disagreements needing resolution occur. The UVSC 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 UVSC 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. UVSC 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 UVSC on-line services.

OUTDOOR EDUCATION

Office: SC 108g
Telephone: 801-863-6545
Hours: Mon-Fri, 9am - 5pm

The Outdoor Education department provides students, staff, and faculty an opportunity to learn from the vast outdoor classroom. We offer students a chance to experience nature while also learning how to protect and preserve the natural environment. Opportunities range from clinics, adventure outings and free Friday afternoon activities. Stop by and take advantage of this great resource, located in the Student Center SC 108g or visit our website at www.uvsc.edu/outdoored.

ADVENTURE RESOURCE CENTER

Office: SC 103h
Telephone: 801-863-7052
Hours: Mon-Fri, 9am - 5pm

The ARC has something for everyone. Located in the heart of the Student Center we offer rentals and resources to get you out for your favorite activities. Come in today to plan your next adventure. For a list of rental prices visit www.uvsc.edu/outdoored.

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 are required to obtain parking permits for each vehicle parked on the College 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 or at our satellite office in the Student Center.

Parking for People with Disabilities

Only those vehicles carrying distinctive (logo) license plates for people with disabilities or temporary permits obtained from the Utah State Division of Motor Vehicles at 150 East Center in Provo plus a valid UVSC handicapped parking permit shall be allowed to park in stalls for the disabled.

Student and Employee Parking

Students and employees operating vehicles on College properties must adhere to all state, local, and college 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 registration and current emissions must be shown.

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

Visitor Parking

Visitors operating vehicles on College properties must adhere to all state, local, and college traffic/parking regulations. Free parking is provided for visitors in Lot U, or free 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 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

Regie Holdaway, Manager
Drop In Lab: LA 201
Telephone: 801-863-8310
<http://www.uvsc.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.

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 UVSC 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.

Student 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 (801-863-6158), (SC 109); Student Center Administration and Scheduling (801-863-8612), (SC 103); UVSC Dining and Catering Services (801-863-8664), (SC 201); Centre Courte (food court), (SC 111); Valley View Room (cafeteria and dining services), (SC 203); Scoops Ice Cream Shop (SC 103f); Centre Stage (dining, banquet, and multi-purpose services), (SC 108); Campus Bookstore (801-863-8641), (SC 102); Judicial Affairs and Dispute Resolution (801-863-8694), (SC 107); Ombuds (801-863-8665), (SC 107); Student Leadership and Activities (801-863-8150), (SC105); College Times and NetX News Services (801-863-8688), (SC220); Center for Service and Learning (801-863-8786), (SC101); Outdoor Adventure Excursion (801-863-6545), (SC 108g); Adventure Resource Center (rentals and sales) (801-863-7052) (SC 103h); Campus Intramurals (801-863-6163), (SC 108h); Student Wellness Center (medical and mental health services) (801-863-8876), (SC 221); Wellness Education (801-863-8127), (SC 222); 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 (801-863-8797), (SC 106); U.S. Postal Services (801-863-6067), (SC104); Ragan Theater (400 seating for multipurpose events and programming) (801-863-8799), (SC 216); Copy Center (801-863-8355), (SC 101f); Utah Community Credit Union (801-863-8188), (SC 101E); Off-Campus Housing Services (801-863-8659), (SC 106); and Conference Room Facilities (the Grande Ballroom, the Commons, SC 206, SC 213, SC 214 and Centre Stage).

STUDENT GOVERNMENT

(Associated Students of UVSC)

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 College. 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 Associated Students of Utah Valley State College (ASUVSC) 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 WELLNESS CENTER

Office: SC 221
Telephone: 801-863-8876

The Student Wellness Center is designed to assist students, faculty, and staff with a variety of wellness issues. Our purpose is to provide patrons with opportunities to improve their well-being through basic medical care and Therapeutic services (counseling) and Wellness services and education. We promote healthy lifestyles, through educational programs that teach effective life skills and behaviors. Our focus is on promoting wellness in the form of a healthy body, healthy mind, and healthy lifestyle.

Student Wellness Programs

Student 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. This is done through services which include: behavior modification programs, educational campaigns, classroom presentations, wellness workshops, and fitness opportunities.

Therapy Services

Personal Counseling, Emotional Support and Referral

Wellness is promoted through short-term counseling to assist students through stressful and crisis situations affecting their performance in school as well as personal relationships. Self-help and educational materials are available in areas of assertiveness training, ADHD assessment, stress management, alcohol and drug abuse, motivation, and self-esteem. Counseling is available for pre-marital issues, conflict management, eating disorders, abuse, depression/anxiety, and LD testing. Persons aware of problems with friends, roommates, or family members enrolled at or employed by

UVSC are encouraged to act responsibly by consulting with one of UVSC's counselors as soon as possible. The College 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 help is available for medications with referral from a Therapist.

Medical Services

Medical Services of UVSC is located in the Student Wellness Center (SC 221). A nominal fee is charged for each visit. Insurance coverage is not needed to receive medical services. Additional fees may be charged for lab work. We are staffed by medical doctors, nurse practitioners and medical assistants.

Students enrolled at UVSC or any of its satellite campus locations are eligible for medical care on campus. We treat a variety of acute and chronic illnesses and injuries. We are able to write prescriptions, do lab work, physical exams, suture and treat many other medical conditions.

STUDENT MEDIA AND PUBLICATIONS

Office: SC 220
Telephone: 801-863-6498

Student Media and Publications is UVSC'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 College'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 UVSC 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.uvsc.edu/testing-services/>

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 UVSC Admissions)

Another function of Testing Services is to administer screening instruments, standardized tests, and other assessment instruments required by College 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 UVSC 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.uvsc.edu/testing-services/>.

Classroom Testing Center

801-863-7461, WS 112

The Classroom Testing Center (CTC) is located in the Wolverine Service Center (WS 112). The CTC provides testing services enabling students to take participating instructors' exams in the center on a flexible schedule. The CTC is generally open six days a week Monday - Saturday. Students can obtain test schedules and scores by logging into uvlink, click on Student tab and under Student Registration & Information Services click on CTC Student Exam Scores and Schedules. Students can also call 863-7461 or visit the Testing Services home page on the web at <http://www.uvsc.edu/testing-services/>.

Proctored Exam Center (PEC)

801-863-8544, WS 111

The Proctored Exam Center (PEC) provides testing accommodations to UVSC 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:

- a. Increase the retention and graduation rates of eligible students
- b. Increase the transfer rate of eligible students from two-year to four-year institutions
- c. 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:

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

UVSC 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

Student Services

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 UVSC 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. UVSC forms can be found on line at http://www.uvsc.edu/grad_tran/veterans/forms.html

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 UVSC Veterans' Services Office at least six weeks prior to the first day of classes. 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 come to UVSC Veterans' Service Office promptly after registering for the semester. A Veterans' Class Schedule Form must be completed for each semester attended. This form with the student's signature, indicates that the student wants to receive educational benefits for that semester.

WELLNESS CENTER

See *Student Wellness Center* in this section.

WELLNESS EDUCATION

See *Student Wellness Center* in this section.

WRITING CENTER

Jennifer Abbot Paul, Manager
Drop In Lab: LA 201
Telephone: 801-863-8310
<http://www.uvsc.edu/owl>

See *Academic Tutoring* in this section.

OTHER IMPORTANT STUDENT INFORMATION

ALCOHOL, TOBACCO AND DRUGS

Utah Valley State College, 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 UVSC, or at any activity sponsored by the College. (UVSC Policy A-7.2)

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

Smoking is prohibited in all college buildings and concourses. (UVSC Policy A-7.1)

All students can access a copy of the College Drug Policy in class schedules each semester. It is also available through the UVSC web site, http://www.uvsc.edu/info/policy/admin/a-7_2. 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 State College 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 College 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 College 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 College to be private records of College 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 College 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 institution 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 College, 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 College.

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/College Equity Officer.

Students should also consult the Student's Rights and Responsibilities Handbook, 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 College 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 Student 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

Student Services

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 College 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 College 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 College Police for traffic and crowd control, if necessary
- 5. Post fliers and/or cardboard signs according to the College Poster Policy
- 6. Pay rental charges, if required
- 7. Commit to obey local, state and federal laws and College policies
- 8. Agree not to disrupt the educational process of the College

Prohibitions

- 1. Interference with the rights of others. Examples are harassment, intimidation and discrimination
- 2. Disruption of normal functions of the College
- 3. Damage to College 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 College 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 College 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, Ballroom, Theater, 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: College 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.

CAMPUS POLICE



Utah Valley State College provides several important services to a diverse College 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 College properties, employees, students and visitors on campus.

Success.

CRIME AWARENESS AND CAMPUS POLICE

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

Although the UVSC 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 State College Police Department (UVSCPD), 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 College community is required to allow for the pursuit of knowledge in a safe and secure environment.

Utah Valley State College provides several important services to a diverse College 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 College properties, employees, students and visitors on campus.

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

All UVSCPD 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 College properties, including uniformed and plain clothes, vehicle, foot, and bike patrol.

College police officers are also responsible for providing a full range of public safety services to the College 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.

College 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 College campuses are reported nationwide through the National Crime Information Center (NCIC).

UVSCPD 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 UVSC 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 College 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 College police dispatcher.

Campus Police

CRIME AWARENESS/CRIME PREVENTION

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

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

The UVSC police department sponsors Rape Aggression Defense, a self-defense class for Women only, held several times a year. Interested parties contact (801) 863-8014.

CAMPUS SAFETY AWARENESS PROGRAMS

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

Officer Friendly Program

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

Traffic School

Utah Valley State College police offer traffic school for persons cited for moving violations. Attendance will give licensed drivers an opportunity to improve their knowledge and keep a clean driving record. Upon completion of the class the citation will be dismissed and will not appear on your driving record with the Utah Driver's License Division. Traffic school is allowed for one citation per calendar year.

GROUNDINGS AND BUILDING SAFETY

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

Representatives from College Police/Department of Public Safety and Facilities Planning routinely inspect the

entire campus to review lighting and environmental safety concerns.

CRIME STATISTICS FOR THE COLLEGE COMMUNITY

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

<http://bci.utah.gov/Stats/StatsHome.html>

UVSC also submits crime data to the Department of Education. The following statistics show the aggregate number of occurrences and arrests for on campus, non-campus, and public property. For a more detailed breakdown, see

<http://www.uvsc.edu/police/statistics.html>

Number of Occurrences for Selected Crimes

Criminal Offense	2003	2004	2005	2006
Murder/Non-negligent Manslaughter	0	0	0	0
Forcible sex offenses	0	3	0	0
Non-forcible sex offenses	0	0	2	2
Robbery	0	0	0	0
Aggravated Assault	1	0	3	2
Burglary	6	0	0	0
Motor Vehicle Theft	1	0	0	0
Arson	0	0	0	0
Negligent manslaughter	0	0	0	0
Total	8	3	5	4

Number of Arrests for Liquor/Drug and Weapons Offenses

Arrests	2003	2004	2005	2006
Liquor Law Violations	14	5	5	11
Drug Law Violations	9	0	3	6
Illegal Weapons Possessions	1	0	2	2
Total	24	5	10	19

No hate crimes were reported during this period.

A glossary of offenses is available at <http://ope.ed.gov/security/Search.asp>

Updated campus crime data is posted by October 1 of each year on the UVSC

Police statistics page <http://www.uvsc.edu/police/statistics.html>

ON CAMPUS HOUSING

At the present time, UVSC does not have any on campus housing.

OFF-CAMPUS STUDENT RESIDENCES

There are numerous privately owned rental units off-campus in which students reside. The College 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 COLLEGE 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 College Police Department, telephone 801-863-5555.

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

The College 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 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 State College by notices or citations which may be processed and settled through the police office.

OTHER FACILITIES UTILIZED BY UVSC

UVSC has satellite offices located in several communities throughout Utah such as: American Fork, and Heber City. College 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.

Academic Schools

CATALOG 2007-2008

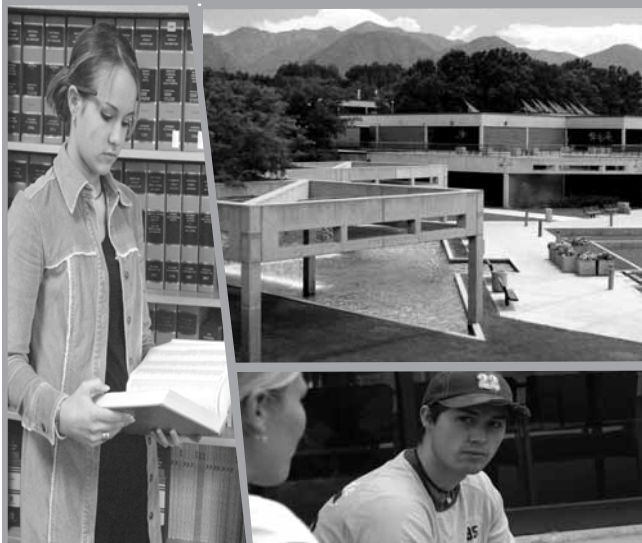


Considered an affordable option in higher education, Utah Valley State does not cut corners on quality. This is evidenced by the number of graduates gaining employment or acceptance into top-ranked professional and graduate schools. With small class sizes, knowledgeable faculty and instruction incorporating the latest technologies, students experience a quality, relevant education.

Success.

School of Business

School of Business



The 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.

Success.

SCHOOL OF BUSINESS

The 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: STANLEY EARL JENNE, PH.D.

Office: WB 128b
Telephone: 801-863-8239
E-mail: jennest@uvsc.edu
Fax: 801-863-7314

Associate Dean: Janice Gygi

Office: WB 219
Telephone: 801-863-8863
E-mail: gygija@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: David A. Brewer

Office: WB 203d
Telephone: 801-863-8458
E-mail: brewerda@uvsc.edu
Fax: 801-863-7314

Advisory Council

Edward F. Allebest, Law Office of Allebest and Associates; Steve Beck, COBE Real Estate Development; Sue Bingham, Branch Manager, Les Olson Company; John Blatter, Goldman Sachs (retired); Michael Colemere, Consultant; Mary Crafts, Owner, Culinary Crafts Catering; James Croft, Mortgage Asset Research Institute; Martin Frey, Consultant; Reed Halladay, Managing Director Bel Air Investments; Randy Harris, Director, LDS Worldwide Church Education System; Chris Horton, Sr. VP, Business Development Engage Thoughtware; Dan Howells, CEO, Nature's Sunshine Products, Inc.(retired); Amy Lewis, MediConnect Global, Inc; Christopher Liechty, Meyer & Liechty, Inc.; Kenneth Macey, President/CEO Macey's Food Stores (retired); Tim Martin, Nuclear Management Consultant; Carla Meine, Owner, O'Curran Teleservices; Dan Reeve, Current Council Chair, Managing Director, Horsley Bridge Partners; Mark Rogers, Council Chair Elect, VP Sales, Intel Corporation; Steve Sessions, President & CEO Fuller, Western Real Estate; Bill Siddoway, Consultant, UVSC Institutional Advancement; Kevin L. Simister, Partner, Hawkins, Cloward & Simister; Greg Warnock, Managing Director, Fund I, vSpring Capital; John Whetten, President & CEO, Challenge Dairy; W. Richards (Rick) Woodbury, Past Council Chair, President, Woodbury Corporation.

Law Enforcement Academy

Director: Steve DeMille
Office: WB 254
Telephone: 801-863-8062 or 863-6156
Fax: 801-863-7327
E-mail: demillst@uvsc.edu

Professorships

Reed and Christine Halladay Executive Lecture Professor: Douglas G. Miller, Professor of Management

Miles and Mary Morris Professor of Entrepreneurship: Peter Robinson, Professor of Management

School of Business Alumni Board

Jeri Allphin, UVSC; David Brewer, UVSC; Louise Bridge, UVSC; Mike Brown, US Synthetic; Blake Christensen, Nature's Sunshine Products, Inc.; Paul Gifford, Associated Food Stores; Eric Graves, SweetLiving; Tami Jensen, UVSC; Robynn Kirkham, UVSC; Linda Makin, UVSC; Matt L. Merrell, Daniels Capital, LLC; Ryan Teeter, UVSC; Mary Tilson, UVSC; Brian Wall, President, Nature's Sunshine Products, Inc.; Jason Wright, Nature's Sunshine Products

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 UVSC 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 for work/life/educational balance and lifelong learning;
- integration and application of knowledge;
- faculty and student scholarship;
- social, ethical, cultural, and global awareness;
- leadership, community outreach, and service learning.

Accreditation

The 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 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 School of Business. Each student should make an appointment to see a School of Business advisor early in his/her first semester on campus.

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

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

Advisor: Mignon Nicol

Office: WB 257d
Telephone: 801-863-8749
E-mail: nicolmi@uvsc.edu

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

Internships

The 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 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 School of Business managers of career and corporate development are:

Peggy Adams-Williams
Office: WB 257c
Telephone: 801-863-8379
E-mail: adamspe@uvsc.edu

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

ADMISSION TO THE SCHOOL OF BUSINESS

Students choosing to pursue majors in the 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 School of Business Advisement Center.

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

School of Business Admissions Office
Utah Valley State College, MS 207
800 West University Parkway
Orem, UT 84508

Accessibility to the School of Business Courses

All 1000- and 2000-level business courses are open to all UVSC 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 UVSC School of Business with advanced standing.

Repeating Failed Foundation Core Courses

Each School of 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 School of Business majors.

School of Business

Application Requirements for Advanced Standing (Matriculation)

To be considered for admission to advanced standing in a 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 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 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 School of Business, the student must maintain the 2.5 business GPA to remain in the 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 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 School of Business program.

Graduation Requirements

A Bachelor of Science degree in a 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 School of Business courses taken at UVSC; 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 School of Business courses and a minimum 2.0 GPA overall for graduation.

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

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

Credit Policy

1. Obsolete Credit: UVSC 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 UVSC 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 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 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 School of Business advisor for the maximum number of coop/internship credits that can be applied to your specific program. Additional coop/internship credits may be taken (but not applied toward graduation) with the approval of the manager of career and corporate development and the assistant dean.
5. Transfer Credits: Students transferring from other colleges or universities within the Utah System of Higher Education (USHE) should consult their School of Business advisor to determine which credits will be accepted by UVSC. Students wishing to transfer 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, School of Business advisor, department chair, and/or 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 School of Business offers courses leading to the following degrees.

Bachelor of Science (BS)

Accounting

Business Management with a specialization in:

- Entrepreneurship
- Finance and Banking
- General Business
- Hospitality Management
- International Business
- Marketing

Criminal Justice with a specialization in:

- Corrections
- Criminal Law

Law Enforcement
Forensic Science
Hospitality Management
Paralegal Studies

Minors

Accounting
Business Management
Criminal Justice
Paralegal Studies

Associate in Arts (AA)

Criminal Justice

Associate in Science (AS)

Accounting
Business Management
Criminal Justice
Hospitality Management
Paralegal Studies
School of Business—transfer degree

Associate in Applied Science (AAS)

Accounting
Business Management
Hospitality Management

Certificate

Accounting
Business Management

Law Enforcement Academy Certification

Prior to applying for the Utah Valley State College Law Enforcement Academy (UVSC-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 per year beginning in January and March. Contact Steve DeMille at 801-863-8062 or stop by the Legal Studies Department in WB 242. All information can be found at www.uvsc.edu/legl

Master of Business Administration Degree Partnership

The UVSC 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 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 AIM 1050 class or the AIM 105A-F modules as needed and passing the tests given at the end of each module at 80 percent or higher.

School of Business

The business computer proficiency exam consists of six modules: Windows/computer concepts/ethics, Internet/e-mail, 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.

DEGREE REQUIREMENTS

See the individual departmental sections in the catalog that follow this School of Business section for specific requirements on each degree offered by the individual departments.

The Associate in Science School of Business transfer degree is available for students planning to transfer to another college or university in Utah, or it can be completed by students seeking a BS degree at UVSC.

Associate in Business		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)
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:		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
Distribution Courses		
• Biology		3.0
• Physical Science		3.0
• Additional Biology or Physical Science		3.0
• Behavioral/Social Science Distribution		3.0
• Humanities Distribution		3.0
• Fine Arts Distribution		3.0
Discipline Core Requirements:		25 Credits
• ACC 2010	Financial Accounting	3.0
• ACC 2020	Managerial Accounting	3.0
• MATH 1100	Introduction to Calculus	4.0
• MGMT 2200	Business Communications	3.0
• ECON 2020	Macroeconomics	3.0
• ECON 2010	Microeconomics	3.0
• LEGL 3000	Business Law	3.0
• MGMT 2340	Business Statistics I	3.0
or	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 UVSC with at least 12 credits of School of Business courses.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.

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

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: Steve Johnson

School of Business

Office: WB 136b
Telephone: 801-863-7186
E-mail: johnsod@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.

BUSINESS MANAGEMENT

Chair: Douglas Miller
Office: WB 203e
Telephone: 801-863-8859
E-mail: millerdo@uvsc.edu

Students graduating from the Business Management Department have many opportunities in private industry, government, and entrepreneurship fields. Bachelor of Science degrees are offered with emphases in entrepreneurship, hospitality, 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 UVSC business management program are well prepared to work in business and industry or to go on to graduate school for additional education.

FINANCE AND ECONOMICS

Chair: Lowell M. Glenn
Office: WB 215
Telephone: 801-863-8385
E-mail: glennlo@uvsc.edu

The business world is more competitive today than in past generations. Decision makers understand the increasing importance of getting things right the first time using business models and measurement methods in making those policy decisions. The classes taught in the Department of Finance and Economics are designed to give students the background to make professional business decisions.

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

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

HOSPITALITY MANAGEMENT

Chair: Douglas Miller
Office: WB 203e
Telephone: 801-863-8859
E-mail: millerdo@uvsc.edu

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

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

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.

LEGAL STUDIES

Chair: Curtis Fillmore
Office: WB 243
Telephone: 801-863-8857
E-mail: fillmocu@uvsc.edu

Advisor: Bobbi Gren
Office: WB 247
Telephone: 801-863-8489
E-mail: grenbo@uvsc.edu

The mission of the Department of Legal Studies is to provide educational opportunities that emphasize skills and knowledge that will allow the student to adjust through a lifetime of social change. We recognize that education is vital in developing skills needed for a productive society and essential in promoting the individual's sense of worth, values, and high ethical standards.

Recognizing the need to increase and improve access to the legal system, the Department of Legal Studies promotes quality paralegal education, develops educational standards, and encourages professional growth in order to prepare graduates to perform a significant role in the delivery of legal services.

The Department of Legal Studies provides students with an understanding of how the criminal justice system functions in theory and in practice. The criminal justice program addresses the functions and organization of the criminal justice system integrating critical thinking, reasoning, research, writing, and technology skills. Many of our students assume professional roles within the criminal justice system or matriculate to the study of law or other graduate degrees.

The UVSC Legal Studies Department has the only ABA (American Bar Association) approved paralegal program in Utah.

School of Education

DEAN: BRIANT J. FARNSWORTH

Office: EB 117B

Telephone: 801-863-8006

DEGREES OFFERED

Bachelor of Science

Early Childhood Education/Dual

Elementary Education

Secondary Education

ASL and Deaf Studies Education

Biology Education

Business/Marketing Education

Chemistry/Physics Education

Dance Education

Earth Science Education

English Education

History Education

Math Education

Music Education

Physical Education Teacher Education

Theatre Arts Education

School Health Education

Spanish Education

Associate of Arts/Science Emphases

Early Childhood Education

Pre-Elementary Education

Minors

English Education

Business Education

Basic Business

Business Information Technology

Marketing

School Health 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: Cathy Schumann

Office: EB 116

Telephone: 801-863-8228

Field Director: Richard Allred

Office: EB 112B

Telephone: 801-863-6580

Advisor: Leslie Hudson

Office: EB 114B

Telephone: 801-863-8527

Advisor: Shaunna Requilman

Office: EB 114A

Telephone: 863-6555

School of Education



The mission of the Utah Valley State College School of Education is empowering the students through ethics, knowledge, and preparation.

Success.

School of Education

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

Elementary Education Partner Schools:

Alpine School District - Elementary Schools: Aspen, Barrett, Cedar Ridge, Deerfield, Foothill, Greenwood, Legacy, Lehi, Mt. Mahogany, Orem, Saratoga Shores, Scera Park, Sego Lily, Valley View, Vineyard, Westfield

Granite School District - Elementary Schools: Frost, Oakwood.

Jordan School District - Elementary Schools: Herriman, Ridgecrest, Foothill.

Nebo School District - Elementary Schools: Brockbank, Grant, Rees, Salem, Parkview.

Provo School District - Elementary Schools: Amelia Earhart, Canyon Crest, Provost, Wasatch.

Department of Secondary Education

Department Chair: Roger Wise
Office: EB 116B
Telephone: 801-863-8499

Department Office Manager: Cathy Schumann
Office: EB 116
Telephone: 801-863-8228

Field Director: Susan Stone
Office: EB 112N
Telephone: 801-863-8587

Advisor: Lexi Powell
Office: EB 114B
Telephone: 863-8217

College Secondary Education Committee:

School of Technology and Computing - Kelly Baird, Ernest Carey, Bonnie Cook, Diane Hartman, Jan Bentley.

School of Education - Numsiri Kunakemakorn, Axel Ramirez, Roger Wise.

School of Humanities, Arts and Social Sciences - Douglas Anderson, Dawn Chase, William Cobb, Fred Silvia, Kay Smith, Kim Strunk, Hannah Thomson, Sandy Vogel, David Wilson

School of Science and Health - Dennis Allison, Calvin Bond, Vance Hillman, Daniel Horns, Christine Merrin, Dee Oyler, Shaunna McGhie, Sam Rushforth, Paul Tayler, Richard Tolman.

Associate Vice President of Academic Affairs - Karl Worthington

Vice President of Academic Affairs - Elizabeth J. Hitch

School of General Academics

School of General Academics



The School of General Academics, through the complementary and collaborative missions of its components, focuses on assisting students exploring the directions of their academic careers, seeking flexibility in degree choices, and undertaking enhanced college experiences. The interdisciplinary nature of General Academics exemplifies, promotes and supports academic excellence of Utah Valley State College.

Success.

The School of General Academics fosters educational opportunities and collaborations by providing specialized academic experiences; meeting individual student needs; facilitating the achievement of educational goals; supporting exceptional and diverse students; engaging students and faculty in learning and scholarship; creating and strengthening interdisciplinary partnerships; encouraging exploration, curiosity and self-discovery; and challenging students with new expectations and ideas.

DEAN: BONNIE G. 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
E-mail: kd.taylor@uvsc.edu

Assistant Dean: Lisa Lambert

Office: LA 210d
Telephone: 801-863-8741
E-mail: lisa.lambert@uvsc.edu

Administrative Assistant: Frankie Jensen

Office: LA 210
Telephone: 801-863-6312
E-mail: frankie.jensen@uvsc.edu

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

COMMITTEE ON INTERDISCIPLINARY STUDIES

Committee Chair: Jans B. Wager

Office: LA 114j
Telephone: 801-863-8340
Fax: 801-863-6255
E-mail: wagerja@uvsc.edu

School of General Academics

Interdisciplinary Studies Faculty Committee:

Professor

Scott Abbott
Kathie Debenham

Associate Professor

Brian Birch
Robert Cousins
Bryan Eldredge
Philip Gordon
David Keller
David Knowlton
Jans B. Wager

Assistant Professor

John Goshert
Michael Minch
Shannon Mussett
Michael Shaw
Jeff Torlina
David Wilson

Honors Program Director

Joy Ross

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 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 developing and interstitial fields that often does not fit easily into the standard demarcations of academic departments. While the disciplines have their role to play, future scholarship will depend in part on shifting configurations of resources. 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

Committee Chair: David R. Wilson

Office: LA 012t
Telephone: 801-863-6916
Email: wilsondr@uvsc.edu

Faculty Committee:

Professor

Laurelyn Whitt

Associate Professors

David Knowlton
Jan Wellington

Assistant Professor

David R. Wilson

Lecturer

Ken Sekaquaptewa

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

Committee Chair: Robert Cousins

Office: LA 114n
Telephone: 801-863-8571

Faculty Committee:

Professor

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

Committee Chair: Bryan Eldredge

Office: LA 003j
Telephone: 801-863-8529 voice/videophone

Committee Member:

Associate Professor

Minnie Mae Wilding-Diaz

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

Committee Chair: David R. Keller

Office: LA 109b
Telephone: 801-863-6363
Web site: www.environmentalstudies.cc
E-mail: enst.studies@uvsc.edu

Faculty Committee:

Professor

Elaine Englehardt
Lowell Glenn
Larry Harper
Jim Harris
Paul Tayler

Associate Professor

Lyn Bennett
Eddy Cadet
Kathryn French
Laura Hamblin
Daniel Horns
Faridul Islam
David R. Keller
Jan Wellington

Assistant Professor

Joel Bradford
Bill Dinklage
Phil Gordon
Scott Hatch
Michael Minch
Jon Moore
Daniel A. Stephen
Joylin Namie
Jeff Torlina

Environmental Studies is premised on the idea that nature and culture are inextricably linked. Nature provides the context in which "culture" is constructed, and culture acts as a lens through which humans define "nature."

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

Committee Chair: Shannon Mussett

Office: LA 121v
Telephone: 801-863-6264
Email: shannon.mussett@uvsc.edu

Faculty Committee:

Associate Professor

Lyn Bennett
Bryan Eldredge
Laura Hamblin
Bonnie Kyburz
Karen Mizell
Jans Wager
Jan Wellington
Christine Weigel

Assistant Professor

John Goshert
Numsiri Kunakemakorn
Shannon Mussett
Joylin Namie
Michael Shaw
Ryan Simmons

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.

PEACE AND JUSTICE STUDIES

Committee Chair: Michael Minch

Office: LA 121J
Telephone: 801-863-7482

Faculty Committee:

Dean

William Cobb, School of Humanities, Arts and Social Sciences

Professor

Robert Robbins

Associate Professor

Lyn Bennett
Kathryn French
Laura Hamblin
Jill Jaspersen

Assistant Professor

Stephen Gibson
Michael Minch
Jeff Torlina

Adjunct Faculty

Barbara Hammond
Robert Norton
Grant Skabelund

Peace and Justice Studies at UVSC 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)

School of General Academics

Mediation and Conflict Resolution, 4) Philosophy and Religion. Although organized into concentrations, the curricula must also be approached in a way that disallows the student from studying within one concentration only (note the accent on interdisciplinary). Peace and nonviolence are investigated at multiple levels from the realm of the personal and familial, to international structures, conventions, institutions, and history. Likewise, justice and injustice are 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.

RELIGIOUS STUDIES:

Committee Chair: Brian Birch

Office: LA 121
Telephone: 801-863-8759

Faculty Committee:

Professor

Jen Wahlquist

Associate Professor

Brian Birch

Philip Gordon

David Knowlton

Assistant Professor

Grace Chou

Michael Minch

R. Dennis Potter

Lecturer

Boyd Peterson

Alex Stecker

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.

HONORS

Director: Joy Ross

Office: LC 203
Telephone: 801-863-6262
Fax: 801-863-7060
E-mail: joy.ross@uvsc.edu

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 UVSC 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 UVSC, 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.

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: lynne.hetzel@uvsc.edu

Faculty:

Professor

Scott Abbott

Mark Jeffreys

Laurie 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.

LIBRARY

Losee Building - 3rd & 4th Floors
Telephone: 801-863-8265
Fax: 801-863-7065
<http://www.uvsc.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: LC 403
Telephone: 801-863-8751
E-mail: michael.freeman@uvsc.edu

Assistant Director: Kimberly Rollins

Office: LC 312e
Telephone: 801-863-8752
E-mail: kim.rollins@uvsc.edu

The Utah Valley State College 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 210,000 volumes, 14,000 videos, and nearly 28,000 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, UVSC 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

The School of General Academics 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. General Academics' interdisciplinary composition supports all areas in increasing the academic excellence of Utah Valley State College

BASIC COMPOSITION/ENGLISH AS A SECOND LANGUAGE

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

ESL Program Director: Kevin Eyraud
Office: LA 234f
Telephone: 801-863-7091
E-mail: kevin.eyraud@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: Denise Hodgkin
Office: LA 208
Telephone: 801-863-8277
E-mail: denise.hodgkin@uvsc.edu

Assistant: Marni Sanft
Office: LC 211
Telephone: 801-863-6183
Email: marni.sanft@uvsc.edu

Academic Director of Center for Student Success: Michael Jensen
Office: LC 210
Telephone: 801-863-7090
E-mail: mike.jensen@uvsc.edu

Assistant Director, UV Mentors: Marinda Ashman
Office: LC (TBA)
Telephone: 801-863-7227
Email: 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.

DEVELOPMENTAL MATHEMATICS

Department Chair: Carole Sullivan
Office: LA 217b
Telephone: 801-863-7318
E-mail: carole.sullivan@uvsc.edu

Assistant Chair: Keith White
Office: LA 217c
Telephone: 801-863-7261
E-mail: keith.white@uvsc.edu

Evening Coordinator: Clayton Brown
Office: LA 221n
Telephone: 801-863-6446
E-mail: clayton.brown@uvsc.edu

The courses offered by the Department of Developmental Mathematics are designed to provide a foundation in preparatory mathematics that is required for higher level mathematics courses and that support our students in many disciplines. The courses also provide for the development of critical thinking skills that are applicable to all aspects of academic life.

The Department of Developmental Mathematics offers MAT 1000 and MAT 1010, Intermediate Algebra as transferable, college credit classes, and as prerequisites for MATH 1030, MATH 1040, and MATH 1050. The Department of Developmental Mathematics also offers preparatory, non-transferable courses for students who need to strengthen mathematics skills before entering MAT 1010.

School of General Academics

ENGLISH AS A SECOND LANGUAGE

Program Director: Kevin Eyraud

Office: LA 234f

Telephone: 801-863-7091

E-mail: kevin.eyraud@uvsc.edu

Department Chair: Forrest Williams

Office: LA 234e

Telephone: 801-863-8494

E-mail: forrest.williams@uvsc.edu

The English as a Second Language program has three goals:

- To assist international students in becoming proficient in English communication skills of listening, speaking, reading, and writing.
- To prepare international students to succeed either in college or in the job market.
- To familiarize international 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.

CAMPUS SUPPORT SERVICES

ACADEMIC TUTORING

Academic Tutoring

Academic Tutoring is available at no charge to all UVSC 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: Gary Sauter

Office: Academic Tutoring, LA 221p

Telephone: 801-863-7418

E-mail: gary.sauter@uvsc.edu

The Learning Strategist provides many resources for students:

- Advisement in developing a personalized program of study processes
- Support programs for transitional and provisionally admitted students
- Student success workshops
- Referral to other services and agencies

Math Tutoring

Manager: Kathryn Van Wagoner

Office: Academic Tutoring, LA 201

Telephone: 801-863-8411

Online: <http://www.uvsc.edu/mathlab>

E-mail: kathryn.vanwagoner@uvsc.edu

The Math Lab offers free drop-in math tutoring for all UVSC students in a relaxed, friendly atmosphere. Resources include individual tutoring, group tutorials, a group study room, and live

Internet tutoring through Math Lab Online. Video-taped lectures are available for use in the lab, as well as solution manuals.

Peer Tutoring Center

Drop In Lab: LA 201

Manager: Regie Holdaway

Office: LA 201

Telephone: 801-863-8356

Online: <http://www.uvsc.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 UVSC students. Services include a drop-in tutoring lab, 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: Jennifer Abbot Paul

Office: Academic Tutoring, LA 201; Library Extension, LC 424

Telephone: 801-863-8099

Online: <http://www.uvsc.edu/owl>

E-mail: jennifer.paul@uvsc.edu

The Writing Center provides free one-on-one tutoring to all UVSC 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.uvsc.edu/owl>.

School of Humanities, Arts and Social Sciences

DEAN: WILLIAM W. COBB, JR.

Office: LA 209d
Telephone: 801-863-7435

Associate Dean for Academics: Kathie Debenham

Office: LA 209b
Telephone: 801-863-7129

Assistant Dean for Administration: William W. Bridges

Office: LA 209c
Telephone: 801-863-8094

Assistant Dean for External Relations: Barbara G. Hammond

Office: LA 209f
Telephone: 801-863-6246

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

ASL and Deaf Studies Education

Art and Visual Communications

Behavioral Science

- Anthropology
- Psychology
- Sociology
- Social Work

Communication

- Communication Theory & Practice
- Journalism
- Public Relations

Dance

- Movement Studies—Ballroom Dance

Deaf Studies

- General Deaf Studies
- Interpreting

English

- Creative Writing
- Literary Studies

History

- General History
- Public History

Music

Philosophy

Political Science

- American Government
- International Relations
- Political Philosophy/Public Law

Spanish

Secondary Education

- ASL and Deaf Studies
- Dance

School of Humanities, Arts and Social Sciences



The School of Humanities, Arts and Social Sciences offers degree programs and courses of study in numerous disciplines. Through interaction with exceptional faculty members in and outside the classroom, students and graduates of the School acquire many of the intellectual and practical skills necessary for the workplace, for further professional and graduate study, and for participation as citizens of the community and the nation.

In the challenging yet nurturing environment of the classroom, and through undergraduate scholarship, research, internships, creative work, and service-learning projects, our students have the opportunity to reach their academic and employment goals. Many of the School's graduates move right into the workforce, and many others continue their education in fields such as law, business, medicine, government, teaching, the social sciences, the humanities, and the fine and performing arts.

Success.

School of Humanities, Arts and Social Sciences

English
History
Music
Spanish
Theatre Arts

Theatre Arts

Associate in Arts/Science Emphases

Art and Visual Communications
Behavioral Science
Communication
Dance
English
English: Technical Communication Specialization
History/Political Science
Humanities
Music
Philosophy
Theatre Arts

Associate in Applied Science

Art and Visual Communications
Design/Illustration Specialization
Graphic Design Specialization
Photography Specialization

Minor

English Creative Writing
English Education
English Literary Studies
History
Humanities
Music
Philosophy
Political Science
Spanish
Technical Communication
Theatre Arts

Certificate

Art and Visual Communications

Other

Technical Communication Certification

DEPARTMENTS

Department of Art and Visual Communications

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

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

Visual Communications; they may also apply toward our Integrated Studies emphasis or Technology Management pre-majors.

Department of Behavioral Science

Chair: David Yells
Office: LA 012b
Telephone: 801-863-8083/863-8585

The mission of the Department of Behavioral Science is to prepare students 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.

Department of Communication

Chair: Philip Gordon
Office: FA 727
Telephone: 801-863-8186/863-8452

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 agency, 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 UVSC 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 Dance

Chair: Kim Strunk
Office: LA 111g
Telephone: 801-863-7225

The mission of Utah Valley State College Department of Dance

School of Humanities, Arts and Social Sciences

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 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 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 History and Political Science

Chair: Keith Snedegar
Office: LA 030e
Telephone: 801-863-8847

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.

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

Department of Music

Chair: Bryce Rytting
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 Philosophy and Humanities

Chair: Christine Weigel
Office: LA 121
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.

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 UVSC student community, and the community at large, preparing

School of Humanities, Arts and Social Sciences

students not only for continued education and employment, but also for lifelong learning, personal fulfillment, and culturally active citizenship.

The Department mounts six to ten productions per year encompassing a rich variety of genres and time periods. Students work side-by-side with faculty whose combined professional theatre experience and academic credentials enrich coursework in performance, script analysis, script writing, directing, theatre history and literature, theatre management, and in design for lighting, sound, scenery, costumes, and makeup. Productions are often selected for showcasing in the Kennedy Center American College Theatre Festival, where students also compete for scholarships and professional employment.

Smaller student cohorts make it possible for the vast majority of student performers to be on stage in any given school year and for aspiring technicians and designers to be involved in the production process early in their college careers. The annual *Short Attention-Span Theatre Festival* features student-written, -directed, -designed, and -performed productions.

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.

School of Humanities, Arts and Social Sciences Advisory Board

Chair: Mary Robinson (current), Adam Robertson (past)

The Advisory Board of the School of Humanities, Arts, and Social Sciences 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 State College.

School of Science and Health

DEAN: SAM RUSHFORTH

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Associate Dean: Bill Evenson

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Assistant Dean: Lori Barber

Office: BA 205c
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E-mail: barberlo@uvsc.edu

Assistant Dean: Louise Illes

Office: PS 201d
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Assistant Dean: David Jordan

Office: PS 201c
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Academic Advisor, Pre-Health Professions: James Holmes
Office: PS 202b
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Administrative Assistant: Cathy Marshall
Office: PS 201
Telephone: 801-863-6441
E-mail: marshaca@uvsc.edu

Environmental Seminar Coordinator: Lasca Wood
Office: EN 101
Telephone: 801-863-8677
E-mail: woodla@uvsc.edu

Advisory Council: Bill Pope, Chair; Clyde Davis; Ron Hansen; Jeffery Taylor; Carl Black; Carol Walker; Alene Harrison

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

1. Developing courses and programs which will provide students with the knowledge to succeed in their chosen profession.
2. Delivering high quality courses and programs using teaching methodologies which stimulate learning.
3. Maintaining and improving faculty expertise in specific disciplines and education/pedagogy.
4. Identifying and advising students who are "at risk."
5. Using classroom assessments to determine student progress and

School of Science and Health



The School of Science and Health is committed to providing courses and programs to meet community needs for professional education, general education, skills development and personal and career enhancement. The faculty of the School is committed to providing an atmosphere in which students can actively participate in learning, questioning and developing a scholarly approach to the sciences. All programs in the School emphasize critical thinking and lifelong learning.

Success.

School of Science and Health

course/program evaluation.

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

DEGREES OFFERED

Bachelor of Science

Biology

Biology Education

Chemistry

Forensic Chemistry

Professional Chemistry

Community Health

Community Health Education

Health Services Administration

Composite Chemistry and Physics Education

Earth Science

Environmental Management

Geology

Earth Science Education

Mathematics

Mathematics Education

Nursing

Physical Education

Exercise Science

Outdoor Recreation Management

Physical Education Teacher Education

Physics

School Health Education

Associate in Arts/Science

Biology

Community Health

Mathematics

Nursing

Physical Education and 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

DEPARTMENTS

Department of Biology

Administrative Assistant: Alana Korstanje

Office: PS 212

Telephone: 801-863-8511

E-mail: korstaal@uvsc.edu

Chair: Mark Bracken

Office: PS 230

Telephone: 801-863-8739

E-mail: brackerma@uvsc.edu

Associate Chair: Lawrence Gray

Office: PS 225

Telephone: 801-863-8558

E-mail: graylag@uvsc.edu

Advisor: Kimberly Frandsen

Office: PS 212a

Telephone: 801-863-6208

E-mail: frandski@uvsc.edu

Advisor, Secondary Education: Richard Tolman

Office: PS 224

Telephone: 801-863-6229

E-mail: tolmanri@uvsc.edu

Advisor, Pre-Health Professions: James Holmes

Office: PS 202b

Telephone: 801-863-7207

E-mail: holmesja@uvsc.edu

Department of Chemistry

Administrative Assistant: Kellie Hancock

Office: PS Reception

Telephone: 801-863-6295

E-mail: hancockke@uvsc.edu

Chair: Dee Oyler

Office: PS 221

Telephone: 801-863-8638

E-mail: oylerde@uvsc.edu

Advisor: Karli Grover

Office: PS 212a

Telephone: 801-863-8616

E-mail: groverka@uvsc.edu

Department of Community Health

Administrative Assistant: Kristie Dockstader

Office: PE 147

Telephone: 801-863-8651

E-mail: dockstkr@uvsc.edu

Chair: Robert O. Walsh

Office: PE 147b

Telephone: 801-863-6193

E-mail: walshro@uvsc.edu

Advisor: Please contact Kristie Dockstader or Robert Walsh to meet with an advisor.

Department of Dental Hygiene

Administrative Assistant: Joyce Henderson

Office: BA 203

Telephone: 801-863-7536

E-mail:

Chair: George Veit

Office: BA 203d

Telephone: 801-863-7536

E-mail: veitge@uvsc.edu

Advisor: George Veit

Advisor: Lynnae Marsing

Office: BA 205f

Telephone: 801-863-6317

E-mail: marsinly@uvsc.edu

Department of Earth Science

Administrative Assistant: Kellie Hancock

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E-mail: hancocke@uvsc.edu

Chair: Daniel Horns

Office: EN 115b

Telephone: 801-863-8582

E-mail: hornsda@uvsc.edu

Advisor: Karli Grover

Office: PS 212a

Telephone: 801-863-8616

E-mail: groverka@uvsc.edu

Program Director, Environmental Management: Jim Callison

Office: EN 101

Telephone: 801-863-8679

E-mail: callisji@uvsc.edu

Advisor, Environmental Management: Jim Callison

Department of Physical Education and Recreation

Administrative Assistant: Shauna Roberts

Office: PE 147

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E-mail: robertsh@uvsc.edu

Chair: Tom Perkins

Office: PE 147j

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E-mail: perkinto@uvsc.edu

Advisor: Mercedes Kelsey

Office: PE 147h

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E-mail: kelseyem@uvsc.edu

Advisor, PE: Jason Slack

Office: PE 147l

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E-mail: slackja@uvsc.edu

Advisor, PETE: Shaunna McGhie

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Department of Mathematics

Administrative Assistant: Kristine Farnsworth

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E-mail: farnswkr@uvsc.edu

Department Chair: Carolyn Hamilton

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Telephone: 801-863-8801

E-mail: hamiltca@uvsc.edu

Associate Chair: Kathy Andrist

Office: LA 022r

Telephone: 801-863-6309

E-mail: andriska@uvsc.edu

Advisor: Kathy Andrist

Office: LA 022r

Telephone: 801-863-6309

E-mail: andriska@uvsc.edu

Advisor: Lynn Turnquist

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E-mail: turnquly@uvsc.edu

Department of Physics

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Office: PS Reception

Telephone: 801-863-6295

E-mail: hancocke@uvsc.edu

Chair: Brent Barger

Office: PS 207

Telephone: 801-863-6205

E-mail: bargerbr@uvsc.edu

Advisor: Karli Grover

Office: PS 212a

Telephone: 801-863-8616

E-mail: groverka@uvsc.edu

Department of Nursing

Administrative Assistant: Victoria Martinez

Office: BA 205

Telephone: 801-863-8211

E-mail: martinvi@uvsc.edu

Department Chair: Gary Measom

Office: BA 205c

Telephone: 801-863-8192

E-mail: measomga@uvsc.edu

Associate Chair: Mina Wayman

Office: BA 205j

Telephone: 801-863-8193

E-mail: waymanmi@uvsc.edu

School of Technology and Computing

School of Technology and Computing



The School of Technology and Computing at Utah Valley State College is committed to educate and train students for careers. Our programs teach students the skills needed to obtain employment in business and industry, and incorporate up-to-date technologies. Our classes focus on the delivery of pertinent subject-matter materials and provide individual student attention. Our instructors/professors are competent (with industry experience), dedicated, caring, and will do everything possible to assure students a satisfying and beneficial educational/training experience.

Success.

INTERIM DEAN: ERNEST CAREY

Office: CS 720
Telephone: 801-863-8321

Administrative Assistant to Dean: Jamie Winn

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Telephone: 801-863-8321
E-mail: winnja@uvsc.edu

Assistant to Dean & Director of Finance: Jennifer Clegg

Office: GT 605b
Telephone: 801-863-8771
E-mail: cleggie@uvsc.edu

Associate Dean: Ernest Carey

Office: GT 605a
Telephone: 801-863-8237
E-mail: careyer@uvsc.edu

Assistant Dean: Diane Hartman

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E-mail: hartmadi@uvsc.edu

Assistant to Dean: Gordon Stokes

Office: CS 720a
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E-mail: stokesgo@uvsc.edu

Administrative Assistant to Associate Dean: Sallie Dodge

Office: GT 605
Telephone: 801-863-8556
E-mail: dodgesa@uvsc.edu

Recruitment Coordinator/Rodeo Coach: Lewis Feild

Office: GT 622a
Telephone: 801-863-7074
E-mail: feildle@uvsc.edu

Advisement Center

Advisement Center for School 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: Patti Miner

Office: CS 635
Telephone: 801-863-8408
E-mail: minerpa@uvsc.edu

- » Computing Science
- » Information Systems and Technology

Advisor: Fred Orchard

Office: CS 635
Telephone: 801-863-6238
E-mail: orcharfr@uvsc.edu

- » School Internship and Cooperative Education Manager

School of Technology and Computing

- » Computer Sciences
- » Pre-Engineering

Advisor: Amy Ostler
Office: CS 635
Telephone: 801-863-8138
E-mail: ostleram@uvsc.edu

- » ACRT Technology
- » Building Construction and Construction Management
- » Building Inspection Technology
- » Cabinetry and Architectural Woodwork
- » Facilities Management
- » Welding Technology

Advisor: Carrie Peterson
Office: CS 635
Telephone: 801-863-7454
E-mail: petersonca@uvsc.edu

- » 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 Professional Pilot
Business/Marketing Education
Computer Science

- Computer Engineering
- Computer Networking
- Computer Science

Digital Media

Information Systems

Information Technology

Database Administration

Enterprise Systems

Network Administration and Security

Public Emergency Services Management

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

Drafting Technology

Electrical Automation and Robotics Technology

Fire Science

Information Systems and Technology

Pre-Engineering

Associate in Applied Science

Administrative Information Support

Air Conditioning and Refrigeration Technology

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 and Construction Management

Building Inspection Technology

Cabinetry and Architectural Woodwork

Collision Repair Technology

Collision Repair

Street Rod

Computer Science

Computer Engineering

Computing and Networking Science

Culinary Arts

Diesel Mechanics Technology

Digital Communication Technology

Drafting Technology

Electrical Automation and Robotics Technology

Electrical Automation

Semiconductor Instrumentation and Maintenance

Facilities Management

Fire Science (with specialization in)

Fire Officer

Firefighter/Paramedic

Wildland Management

Information Systems and Technology

Lineman Technology

Welding Technology

School of Technology and Computing

E-mail: lamphde@uvsc.edu

Associate in Pre-engineering

Biological and Chemical Engineering
Civil and Mechanical Engineering
Computer and Electrical Engineering

Minor

Business Information Technology
Business Education
 Basic Business Core
 Business Information Technology
 Marketing
Computer Science
Information Systems and Technology

Diploma

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

One-Year Certificate

Administrative Support (Receptionist)
Automotive Technology
Building Construction
Building Inspection Technology
Cabinetry and Architectural Woodwork
Collision Repair Technology
Diesel Mechanics Technology
Firefighter Recruit Candidate
Network Administration
Paramedic
Programmer

PROGRAMS

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

Air Conditioning and Refrigeration Technology

Chair: Steve Fordham
Office: GT 601
Telephone: 801-863-8167
E-mail: fordhast@uvsc.edu

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

Apprenticeship

Director: Steve Fordham
Office: GT 601
Telephone: 801-863-8167
E-mail: fordhast@uvsc.edu

Administrative Support: Deann Lamph
Office: Geneva Building (GB 104)
Telephone: 801-863-7950

Automotive 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

Aviation Science

Department Chair: Larry Marsing
Office: Provo Municipal Airport
Telephone: 801-863-7810
E-mail: marsinla@uvsc.edu

Associate Chair: Rick Vincent
Office : Provo Municipal Airport
Telephone: 801-863-7755
E-mail: vincerri@uvsc.edu

Associate Chair for Academic Support: Rich Crandall
Office: Provo Municipal Airport
Telephone: 801-863-7784 or 801-863-7836
E-mail: crandari@uvsc.edu

Associate Chair for Flight Training: Steve Smith
Office: Provo Municipal Airport
Telephone: 801-863-7791
E-mail: smithst@uvsc.edu

Associate Chair for Flight Ops: Mario Markides
Office: Provo Municipal Airport
Telephone: 801-863-7785
E-mail: markidma@uvsc.edu

Assistant to the Chair: Claire Downing
Office: Provo Municipal Airport
Telephone: 801-863-7816
E-mail: downincla@uvsc.edu

Building Construction and Construction Management

Chair: Steve Fordham
Office: GT 601
Telephone: 801-863-8167
E-mail: fordhast@uvsc.edu

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

Building Inspection Technology

Chair: Steve Fordham
Office: GT 601
Telephone: 801-863-8167
E-mail: fordhast@uvsc.edu

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

Cabinetry and Architectural Woodwork

Chair: Steve Fordham

School of Technology and Computing

Office: GT 601
Telephone: 801-863-8167
E-mail: fordhast@uvsc.edu

Office Manager: Sandra Ozuna
Office: GT 613e
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

Culinary Arts Institute

Director: Greg Forte
Office: MC 007e
Telephone: 801-863-8087
E-mail: fortegr@uvsc.edu

Office Manager/Advisor: Julie Slocum
Office: MC 007e
Telephone: 801-863-8914
E-mail: slocumju@uvsc.edu

Computer Science and Pre-Engineering

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

Office Manager: Carol Robinson
Office: CS 520h
Telephone: 801-863-8218
E-mail: robinsca@uvsc.edu

Diesel Mechanics 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

Digital Media

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

Co-Department Chair: Jan Bentley
Office: CS 526g
Telephone: 801-863-6362
E-mail: bentleja@uvsc.edu

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

Electrical Automation and Robotics Technology

Chair: David Manning
Office: CS 704e
Telephone: 801-863-8085
E-mail: manninda@uvsc.edu

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

Emergency Services/Utah Fire & Rescue Academy

Department Chair: 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
Office: FS205
Telephone: 801-863-7701
E-mail: kingsu@uvsc.edu

Academic Advisor: Yudi Lewis
Office: Provo Airport (PA 205)
Telephone: 801-863-7753
E-mail: lewisyu@uvsc.edu

Engineering Graphics and Design Technology

Chair: David Manning
Office: CS 704e
Telephone: 801-863-8085
E-mail: manninda@uvsc.edu

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

Facilities Management

Chair: Steve Fordham
Office: GT 601
Telephone: 801-863-8167
E-mail: fordhast@uvsc.edu

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

Information Systems and Technology

Chair: Christopher G. Jones
Office: CS 601g
Telephone: 801-863-8308
E-mail: jonescg@uvsc.edu

Office Manager: Fiona Judd
Office: CS 601
Telephone: 801-863-8182
E-mail: juddfi@uvsc.edu

Lineman Technology

Chair: Steve Fordham
Office: GT 601

School of Technology and Computing

Telephone: 801-863-8167

E-mail: fordhast@uvsc.edu

Office Manager/Advisor: Jenny Hoover

Office: Geneva Building (GB 200)

Telephone: 801-863-7980

E-mail: hooverje@uvsc.edu

Technology Management

Department 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:

Welding Technology

Chair: Steve Fordham

Office: GT 601

Telephone: 801-863-8167

E-mail: fordhast@uvsc.edu

Office Manager: Sandra Ozuna

Office: GT 613e

Telephone: 801-863-7405

E-mail: ozunasa@uvsc.edu

Interdisciplinary Programs



Success.

Interdisciplinary Programs

INTERDISCIPLINARY PROGRAMS

Occasionally academic programs span all or several of the Schools of the College. These programs, which operate within more than one School or across more than one School often have an interdisciplinary aspect to them. These special programs are enhancements to and enrichments of other existing programs explained within the Schools and departments in other descriptions in this catalog.

Students are invited and encouraged to take advantage of the opportunities to learn while on the job through Internships and Cooperative Education Program* and courses; to learn at a more rigorous pace and/or depth and breadth of material through the classes in the Honors Program*; and/or learn in more diverse areas than one School or department offers and obtain a Bachelor of Science or Arts Degree in the Integrated Studies Program*.

Vice President for Academic Affairs: Elizabeth J. Hitch

Office: BA 218

Telephone: 801-863-8951

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

The Center for the Study of Ethics

Director: David Keller

Office: LA 109

Telephone: 801-863-8455

The Center for the Study of Ethics enhances awareness of ethical issues through a variety of approaches to foundational, applied, and professional ethical dilemmas. The Center promotes the study of ethics throughout the curriculum. The community benefits from the Center through lectures, workshops, publications, and informal discussions.

BACHELOR OF SCIENCE MINORS**

American Indian Studies

American Studies

Deaf Studies

Environmental Studies

Gender Studies

Peace and Justice Studies

Religious Studies

*For more information please see the individual department pages.

**For more information please see the Committee on Interdisciplinary Studies Department pages.

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

Interdisciplinary Programs

for any and all students on the UVSC 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.uvsc.edu/leadership, or requesting a DVD from the Director, Dr. Bruce H. Jackson (863-7431).

Leadership Certification Structure

There are three certification options that are available through the CAL. Each certification denotes a different level of rigor. Students can choose between: Leadership Certification (approximately 1 year to complete); Leadership Certification with Distinction (approximately 1 ½ - 2 years to complete) and Leadership Certification with High Distinction (approximately 2-2 ½ years to complete). Each leadership certification program has been customized for every academic degree on campus. The basic steps of each leadership certification program are as follows:

1. Application and interview
2. Peer and self leadership assessment (360° Feedback)
3. Participate in a group mentoring program
4. Begin personal journal of reflection on leadership development
5. Begin your academic core courses (3, 4, or 5 courses based on certificate level goal)
6. Choose among a variety of leadership development workshops/seminars (15, 30, or 45 hours based on certificate level goal)
7. Participate in leadership experience projects (30, 45, or 60 hours based on certificate level goal)
8. Interview leaders in your chosen field (1, 3, or 5 interviews based on certificate level goal)
9. Portfolio review and certification
10. Use the CAL to write a letter of recommendation and generally promote you to your employer.

Note: In addition to the 10-step Leadership Certification Program, additional leadership certification options are available. Please contact the CAL for more information.

For students interested in developing their leadership potential without the desire to complete the full Leadership Certification Programs, other options for leadership training, experiences, and recognition are available. Students interested in any type of leadership training or experiences should make contact with the center (863-6466) to review their options. In many cases students involved in on- or off-campus leadership may apply their experiences to leadership certification. Students interested in leadership are also invited to attend our monthly MasterMind Sessions and social events.

Advisory Board includes:

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.uvsc.edu/business/leadership for more detail.

Academic Departments and Programs

Catalog 2007-2008



Building on its historic roots in trades and industry, Utah Valley State is continually expanding its academic offering to meet the demands of students and the community. Programs span a variety of majors, from science and technology to business and the arts. With more than 54 bachelor degree options, UVSC offers something for everyone. For more information, go to <http://www.uvsc.edu/students/schools/>.

Success.

Accounting

Accounting

Department Chair: Steve Johnson

Office: WB 136B

Telephone: 801-863-7186

Faculty:

Professor

Ben Bean
Sheldon Smith
Michael Stemkoski
Steve Teeter

Associate Professor

John Balden
Kathy Black
Richard Henage
Steve Johnson

Assistant Professor

Bunney Schmidt

Advisory Committee: Shane Edwards, CPA, (Chair), Partner, Squire & Company, CPA's; Layne Peterson, CPA, owner, Layne R. Peterson's; Dr. Clifford Skousen, CPA, Senior Associate Dean, College of Business, USU; Dr. Robert Gardner, CPA, Professor, Department of Accounting & Information Systems, BYU; Glen Twede, Controller, DHI Computing.

School of Business

Dean: Stanley Earl Jenne, Ph.D.

Office: WB 128b

Telephone: 801-863-8239

Associate Dean: Janice Gygis

Office: WB 219

Telephone: 801-863-8863

Assistant Dean: Mikki O'Connor

Office: WB 129

Telephone: 801-863-8850

CAREER OPPORTUNITIES

According to the Department of Labor the employment of accountants and auditors is expected to grow about as fast as the average for all occupations through the year 2008. As the economy grows, the number of business establishments will increase, requiring more accountants and auditors to set up books, prepare taxes, and provide management advice. Although computers and accounting software will decrease the clerical need for accountants, there will be an ever increasing demand for accountants to provide management and consulting services.

Employment areas are numerous for accounting graduates. They include general accounting, payroll, bookkeeping,

credit analysis, auditing, taxation, budgeting, cost analysis, controllership, treasurer, and chief financial officer. Opportunities are available in education, government, and industry.

COOPERATIVE EDUCATION/ INTERNSHIP

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

PROGRAMS

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

Certificate

in Accounting 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 295R Executive Lecture Series 0.5

or MGMT 495R Executive Lecture Series (1.0)

Elective Requirements: 7 Credits

- School of Business courses (ACC, DGM, BMED, CJ, HM, INFO, LEGL prefixes) 7.0

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 School of Business classes.

AAS in Accounting

63.5 CREDITS

General Education Requirements: 16 Credits

- MGMT 2200 Business Communications 3.0
- ACC 1150 Fundamentals of Business Math 3.0
- ENGL 1010 Introduction to Writing 3.0
- MGMT 3000 Organizational Behavior 3.0
- or Any approved Behavioral, Social, or Political Science Distribution Course
- Any approved Biology or Physical Science Distribution Course 3.0
- Any approved Physical Education, Health, Safety, or Environment Course 1.0

Discipline Core Requirements: 31.5 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 3020 Intermediate Accounting II 3.0
- ACC 3400 Individual Income Tax 3.0

- DGM 2010 Business Computer Proficiency 3.0
- or Business Computer Proficiency Exam *
- DGM 2360 Spreadsheet Applications 3.0
- MGMT 1010 Introduction to Business 3.0
- MGMT 2250 Job Application and Advancement Skills 1.0

or MGMT 3890 Career Preparation (2.0)

• MGMT 295R Executive Lecture Series 0.5

or MGMT 495R Executive Lecture Series (1.0)

Elective Requirements: 16 Credits

- Complete any coursework from the following 16.0 prefixes: ACC, DGM, BMED, CJ, HM, INFO, LEGL, MGMT, ECON

Graduation Requirements:

- 1 Completion of a minimum of 63.5 semester credits.
- 2 Overall grade point average of 2.0 or above with a 2.5 GPA in Business courses and a grade of "C-" or higher in all business courses.
- 3 Residency hours: minimum of 20 credit hours through course attendance at UVSC with at least 12 credits of School of Business courses.
- 4 Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.

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 Accounting

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 (recommended for Business, Education, Science, and Health Professions majors) 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

- 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
- MATH 1100 Introduction to Calculus 4.0
- ECON 2020 Macroeconomics 3.0
- ECON 2010 Microeconomics 3.0
- LEGL 3000 Business Law 3.0
- MGMT 2340 Business Statistics I 3.0
- DGM 2010 Business Computer Proficiency 3.0
- or Business Computer Proficiency Exam *

Graduation Requirements:

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

Footnotes:

- * Students will be required to complete the Business Computer Proficiency exam with a score of 80 percent or higher on each module or complete the DGM 2010 course or DGM 201A-D modules as necessary with a score of 80 percent or higher on each module.

BS in 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 since 1877 (3.0)
- and HIST 2710 US History since 1877 (3.0)
- HIST 1700 American Civilization (3.0)
- HIST 1740 US Economic History (3.0)
- POLS 1000 American Heritage (3.0)
- POLS 1100 American National Government (3.0)

Complete the following:

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

Distribution Courses

- Biology 3.0
- Physical Science 3.0
- Additional Biology or Physical Science 3.0
- Humanities Distribution 3.0
- Fine Arts Distribution 3.0
- Social/Behavioral Science 3.0

Discipline Core Requirements: 60 Credits**Business Foundation Courses:**

- ACC 2010 Financial Accounting 3.0
- ACC 2020 Managerial Accounting 3.0
- DGM 2010 Business Computer Proficiency
- or Business Computer Proficiency Exam**
- MATH 1100 Introduction to Calculus 4.0
- ECON 2010 Microeconomics 3.0
- ECON 2020 Macroeconomics 3.0
- MGMT 2200 Business 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 3300 Survey of International Business 3.0
- MGMT 3450 Operations Management * 3.0
- MGMT 3600 Principles of Marketing 3.0
- MGMT 4800 Strategic Management 3.0
- MGMT 4830 Strategic Management Capstone Simulation 1.0
- 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: 9.0
- ACC 4020 Advanced Financial Accounting (3.0)
- ACC 4030 Governmental and Not-For-Profit Accounting* (3.0)
- ACC 4110 Auditing* (3.0)
- ACC 4350 Management Control* (3.0)
- ACC 4400 Taxation of Corporations/Partnerships/Estates and Trusts (3.0)
- or ACC 4420 Corporate Tax (3.0)
- and ACC 4440 Partnership Tax (3.0)
- ACC 4510 Advanced Accounting Information Systems* (3.0)
- Complete 15 hours of elective credits at any level- 15.0
- 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:

- 1 Completion of a minimum of 120 semester credits; a minimum of 40 credits must be upper division.
- 2 Overall grade point average 2.0 or above with a minimum of 2.5 GPA in all 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 UVSC, with at least 10 hours earned in the last 45 hours.
- 4 Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.

Footnotes:

- ** Students will be required to complete the Business Computer Proficiency exam with a score of 80 percent or higher on each module or complete the DGM 2010 course or DGM 201A-D modules as necessary with a score of 80 percent or higher on each module.
- * 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 UVSC.

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

Elective Requirements: 12 Credits

Choose 12 credits from the following: 12.0

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

Graduation Requirements:

- 1 Overall grade point average of 2.5 GPA in all School of Business courses and no grade lower than a C- in business courses.
- 2 Completion of GE and specified departmental requirements.

NOTE: Students are responsible for completing all prerequisite courses.

Footnotes:

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

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

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

Emphasis in Accounting 18 Credits**Emphasis Requirements: 18 Credits**

- ACC 3010 Intermediate Accounting I 3.0
 - ACC 3020 Intermediate Accounting II 3.0
- Choose 12 credits from the following: 12.0
- ACC 3300 Cost Management (3.0)
 - ACC 3400 Individual Income Tax (3.0)
 - ACC 3510 Accounting Information Systems (3.0)
 - ACC 4110 Auditing (3.0)
 - ACC 4400 Taxation of Corporations/Partnerships/Estates and Trusts (3.0)

NOTE: A minimum of 2.5 GPA in all 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

Administrative Information Management

Department Chair: Rodayne Esmay

Office: CS 526C
Telephone: 801-863-7050

Faculty:

Professor

Cynthia Krebs

Associate Professor

Diane Hartman

Assistant Professor

Jan Bentley

Administrative Support: Katrina Van Cott

Office: CS 526
Telephone: 801-863-6217

Advisor: Bonnie Cook
Telephone: 801-863-8403

Administrative Information Management Advisory Committee:

Joyce Bell, CPS, Office Manager, Western Engineering, (IAAP); Janeen Jones, Administrative Assistant, Provo City Community Development, (IAAP); Carolyn Kuehne, former Training Instructor, Franklin Covey; Annette Skewes, Office Manager, Horrocks Engineering, (IAAP); Toni Sullivan, Owner, A Plus Home Care; Katrina Van Cott, Administrative Office Manager, Utah Valley State College.

School of Technology & Computing

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

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 Information Management | 3.0 |
| • DGM 2350 | Word Processing | 3.0 |
| • DGM 2360 | Spreadsheet Applications | 3.0 |
| • DGM 2370 | Database Applications | 3.0 |
| • ACC 1150 | Fundamentals of Business Math | 3.0 |
| • ACC 1750 | Applied Accounting (4.0) | |
| or ACC 2010 | Financial Accounting | 3.0 |
| • MGMT 2200 | Business Communications | 3.0 |
| • MGMT 2250 | Job Application and Advancement Skills * | 1.0 |
| or MGMT 3890 | Career Preparation (2.0) * | |

Elective Requirements:~ 3 Credits

Complete 3 credits from the following: 3.0

- | | | |
|------------|---|--|
| • DGM 1060 | Introduction to Computer Security and Programming (3.0) | |
| • DGM 2120 | Web Essentials (3.0) | |
| • DGM 210R | Special Topics in Digital Media (1.0) | |

Graduation Requirements:

- 1 Overall GPA of 2.0 or higher with a minimum grade of "C-."
- 2 A minimum keyboarding skill of 40 net words per minute is required for graduation.
- 3 Students are responsible for completing all prerequisite courses.

Footnotes:

- * Take near end of program

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 |
| | or MAT 1010 | Intermediate Algebra (4.0) | |
| | or MATH 1050 | College Algebra (4.0) | |
| HUMANITIES/FINE ARTS/FOREIGN LANGUAGE | • ENGL 1010 | Introduction to Writing | 3.0 |
| SOCIAL AND BEHAVIORAL SCIENCE | • ECON 2020 | Macroeconomics | 3.0 |
| | or MGMT 3000 | Organizational Behavior (3.0) | |
| | or PSY 1010 | General Psychology (3.0) | |
| BIOLOGY OR PHYSICAL SCIENCE | • Any approved Biology or Physical Science Distribution | | 3.0 |
| PHYSICAL EDUCATION/HEALTH/SAFETY OR ENVIRONMENT | • Any approved Physical Education, Health, Safety or Environment Course | | 1.0 |

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) | 2.0 |
| • DGM 2300 | Records and Information Management | 3.0 |
| • DGM 2350 | Word Processing | 3.0 |
| • DGM 2360 | Spreadsheet Applications | 3.0 |
| • DGM 2370 | Database Applications | 3.0 |
| • DGM 2380 | Integrated Software Projects * | 3.0 |
| • DGM 3820 | Presentation Applications | 3.0 |
| • DGM 3850 | Desktop Publishing Skills | 3.0 |
| • ACC 2010 | Financial Accounting | 3.0 |
| or ACC 1750 | Applied Accounting (4.0) | |
| • MGMT 2250 | Job Application and Advancement Skills * | 1.0 |
| or MGMT 3890 | Career Preparation (2.0) * | |

Elective Requirements: 15 Credits

- Choose a minimum of 15 credits from the following: 15.0
- | | | |
|---|---|--|
| • DGM 296R | 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 UVSC.
- 4 Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.

Note: Potential 4-year students need to take ACC 2010 (or 3000), MATH 1050, ECON 2020, and MGMT 3890.

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 |
| 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) | 3.0 |
| • Biology | | 3.0 |
| • Physical Science | | 3.0 |
| • Additional Biology or Physical Science | | 3.0 |
| • Humanities Distribution | | 3.0 |
| • Fine Arts Distribution | | 3.0 |

Discipline Core Requirements: 19 Credits

- | | | |
|--------------|---|-----|
| • DGM 2350 | Word Processing | 3.0 |
| • DGM 2360 | Spreadsheet Applications | 3.0 |
| • DGM 2370 | Database Applications | 3.0 |
| • DGM 3820 | Presentation Applications | 3.0 |
| • ACC 2010 | Financial Accounting | 3.0 |
| or ACC 3000 | Financial Managerial and Cost Accounting Concepts (4.0) | |
| • MGMT 2200 | Business Communications | 3.0 |
| • MGMT 2250 | Job Application and Advancement Skills * | 1.0 |
| or MGMT 3890 | Career Preparation (2.0) * | |

Elective Requirements: 8 Credits

Complete 8 credits from the following: 8.0

- | | | |
|------------|---|--|
| • 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 2300 | Records and Information Management (3.0) ** | |
| • DGM 3870 | Web Graphics Applications (3.0) ** | |
| • DGM 3850 | Desktop Publishing Skills (3.0) ** | |

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 and elective courses with no grade lower than a C-.
- 3 Residency hours--minimum of 20 credit hours through attendance at UVSC.
- 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) 2.0
 - DGM 4350 Information Workflow Management 3.0
 - DGM 3220 Digital Media Project Management 3.0
- Complete 8 or more credits from the following: 8.0
- 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

Air Conditioning and Refrigeration Technology

Air Conditioning and Refrigeration Technology

**Department of Construction
Technologies**

Department Chair: Steve Fordham

**APPR Program Coordinator: Dale
M. Olson**

Office: GT 601
Telephone: 801-863-8167

Faculty:

Associate Professor
Steve Fordham
Dale Olson

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

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

Advisory Committee: Dean Gunther,
Gunther's Comfort Air; Gary Wadsworth,
RSD Total Control; Scott Woffinden,
Cobalt Refrigeration; Dan Dearden, Trane
Company; Harvey Liston, Canyon Park
Management Company; Keith Sabin, UVSC
Central Plant.

School of Technology and Computing

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

CAREER OPPORTUNITIES

Students who earn a degree in Air Conditioning and Refrigeration Technology (ACRT) may choose from a wide variety of work applications. Throughout the country, the industry as a whole is facing a shortage of qualified service personnel. A graduate may do specialty work in areas such as supermarket refrigeration, manufacturing process cooling, industrial air conditioning, transport refrigeration, building maintenance, controls, or installation and repair of residential air conditioning and heating equipment. Virtually anywhere

that you find food or people you will find a need for heating, ventilation, refrigeration and air conditioning.

EPA laws and the increased use of computers have significantly increased the demand for highly trained technicians. This increased demand has resulted in significant wage increases in the past few years. The rapidly expanding industry with its new technologies provides many new job opportunities as well as opportunities for advancement within specific organizations.

The industry encourages personal development. Entry-level technicians may move into other areas of the industry such as installation, service, sales, estimating, design or wholesale operations for various-sized firms.

Many ACRT personnel eventually open their own businesses. Refrigeration and air conditioning personnel are necessary in almost any place people reside or work.

PROGRAMS

Students may receive 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.

AAS in Air Conditioning and Refrigeration Technology 69 CREDITS

General Education Requirements: 16 Credits

- ACRT 1120 Special Refrigeration Mathematics 3.0
- ENGL 1060 Career Writing for Technology 3.0
- or ENGL 1010 Introduction to Writing (3.0)
- Biology/Physical Science 3.0
- Health/PE/Safety/Environment 1.0
- Humanities/Fine Arts/Foreign Language 3.0
- Social/Behavioral Science 3.0

Discipline Core Requirements: 53 Credits

- ACRT 1110 Refrigeration I 10.0
- ACRT 1210 Refrigeration II 9.0
- ACRT 1220 Basic Electricity and Motor Controls 5.0
- ACRT 2320 Motors--Controls and Wiring Diagrams 5.0
- ACRT 2330 Sheet Metal Layout 1.0
- ACRT 2420 Heating and Air Conditioning Controls 5.0
- ACRT 2340 Commercial Refrigeration Theory 4.0
- ACRT 234L Commercial Refrigeration Lab 5.0
- ACRT 2440 Commercial Refrigeration Heating and Air Conditioning Theory 4.0
- ACRT 244L Commercial Refrigeration Heating and Air Conditioning Lab 5.0

Graduation Requirements:

- 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 credits hours through course attendance at UVSC.
- 4 Completion of GE and specified departmental requirements.
- 5 Complete all Technical Specialty courses with a minimum grade of "C-" or better.

BS in Technology

Management 124 CREDITS

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

Specialization in Air Conditioning and Refrigeration Technology 47 Credits

Emphasis Requirements: 47 Credits

Complete the following:

- ACRT 1110 Refrigeration I 10.0
- ACRT 1210 Refrigeration II 9.0
- ACRT 1220 Basic Electricity and Motor Controls 5.0
- ACRT 2320 Motors--Controls and Wiring Diagrams 5.0
- ACRT 2340 Commercial Refrigeration Theory 4.0
- ACRT 234L Commercial Refrigeration Lab 5.0
- ACRT 2440 Commercial Refrigeration Heating and Air Conditioning Theory 4.0
- ACRT 244L Commercial Refrigeration Heating and Air Conditioning Lab 5.0

Due to the technical nature of the material in ACRT 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 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

Apprenticeship

Director: Steve Fordham

Office: GT 601
Telephone: 801-863-8167
E-mail: fordhamst@uvsc.edu

Coordinator: Deann Lamph

Office: Geneva Building (GB 104)
1410 West 1250 South (Business Park Drive)
Telephone: 801-863-7950

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

School of Technology and Computing

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

Utah Valley State College, through the School 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 College 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 and/or 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: 16 Credits

Apprenticeship

ENGLISH	2.0
• ENGL 1060 Career Writing for Technology (3.0)	
• Any higher English course	
MATHEMATICS	2.0
• MAT 1010 Intermediate Algebra (4.0)	
• Any higher Mathematics Course	
• Any approved Departmental Mathematics Course	
HUMANITIES/FINE ARTS/FOREIGN LANGUAGE	2.0
• PHIL 2050 Ethics and Values (3.0)	
• Any approved Humanities, Fine Arts, or Foreign Language Distribution Course	
SOCIAL AND BEHAVIORAL SCIENCE	2.0
• MGMT 3000 Organizational Behavior (3.0)	
• Any approved Behavioral Science, Social, or Political Science Distribution Course	
BIOLOGY OR PHYSICAL SCIENCE	2.0
• EGDT 1810 Principles of Technology (2.0)	
• Any approved Biology or Physical Science Distribution Course	
PHYSICAL EDUCATION/HEALTH/SAFETY OR ENVIRONMENT	1.0
• Any approved Physical Education, Health, Safety or Environment Course	
ADDITIONAL CREDITS FROM ANY OF THE ABOVE	5.0
Emphasis:	
Complete one of the following:	
• Aircraft Mechanic	48.0
• Carpenter Union Apprentice (JATC)	48.0
• Diesel Mechanics Apprentice	48.5
• Electrical Construction Apprentice	48.0
• Electrical Union Apprentice (JATC)	50.0
• HVAC Apprentice	48.0
• Industrial Maintenance Apprentice	48.0
• Lineman Apprentice	48.0
• Lineman Meter Apprentice	48.0
• Lineman Substation Apprentice	48.0
• Plumber Apprentice	48.0
• Sheet Metal	48.0
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 UVSC.	
4 Completion of GE and specified departmental requirements.	

Emphasis in Aircraft Mechanics 48 Credits

Emphasis Requirements:	48 Credits
• AVSC 1310 AMT Procedures and Practices A	5.0
• AVSC 1320 AMT General Knowledge A	5.0
• AVSC 1330 AMT Airframe Phase I B	5.0
• AVSC 1340 AMT Powerplant Phase I B	5.0
• AVSC 2210 AMT Airframe Phase II C	5.0
• AVSC 2220 AMT Airframe Phase III D	5.0
• AVSC 2230 AMT Powerplant Phase II C	5.0
• AVSC 2240 AMT Powerplant Phase III D	5.0
• AVSC 281R Cooperative Work Experience (Must be repeated 7 times) (1.0)	7.0
• AVSC 285R Cooperative Related Class	1.0

NOTES: The Airframe and Powerplant (A&P) Aircraft Mechanic program is a 3-year apprenticeship program with formal course work offered by the UVSC Aviation Science program in coordination with Apprenticeship services. Apprentices need to be employed by an airline, fixed base operator (FBO), or the military in a related occupation which offers aircraft mechanic experience on the job. Formal classroom training to Federal Aviation Agency Standards is offered by the Aviation program via distance learning.

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 (Must be repeated 7 times) (1.0)	7.0
• BCCM 285R Cooperative Correlated Class	1.0

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

Apprenticeship

• DMT 1030	Diesel Apprentice Governor Systems 2A	3.5
• DMT 1040	Diesel Apprentice Engine Controls 2B	3.5
• DMT 1050	Diesel Apprentice Engine Diagnostics and Air 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 (Must be repeated 7 times) (7.0)	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 UVSC 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
• APPR 281R	Cooperative Work Experience (Must be repeated 7 times) (1.0)
• APPR 285R	Cooperative Correlated Class
• EART 1110	Electrical Apprentice 1A
• EART 1120	Electrical Apprentice 1B
• EART 1210	Electrical Apprentice 2A
• EART 1220	Electrical Apprentice 2B
• EART 2310	Electrical Apprentice 3A
• EART 2320	Electrical Apprentice 3B
• EART 2410	Electrical Apprentice 4A
• EART 2420	Electrical Apprentice 4B

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, blue print reading, and mechanical drawing.

Emphasis in Electrical Union

Apprentice (JATC)	50 Credits
Emphasis Requirements:	50 Credits
• EART 1300	Electrical Union Apprentice 1A
• EART 1310	Electrical Union Apprentice 1B
• EART 1320	Electrical Union Apprentice 2A
• EART 1330	Electrical Union Apprentice 2B
• EART 2330	Electrical Union Apprentice 3A
• EART 2340	Electrical Union Apprentice 3B
• EART 2350	Electrical Union Apprentice 4A
• EART 2360	Electrical Union Apprentice 4B
• EART 2370	Electrical Union Apprentice 5A
• EART 2380	Electrical Union Apprentice 5B

NOTE: The Electrical Union Apprenticeship program is a four-year program which is offered through the Electrical JATC. Classes are conducted at UVSC.

Emphasis in HVAC Apprentice

Apprentice	48 Credits
Emphasis Requirements:	48 Credits
• APPR 281R	Cooperative Work Experience (Must be repeated 7 times) (1.0)
• APPR 285R	Cooperative Correlated Class
• HVAC 1200	HVAC 1A
• HVAC 1130	HVAC 1B
• HVAC 1220	HVAC 2A
• HVAC 1150	HVAC 2B
• HVAC 2200	HVAC 3A
• HVAC 1170	HVAC 3B
• HVAC 2220	HVAC 4A
• HVAC 1190	HVAC 4B

NOTE: The Heating, Ventilation, and Air Conditioning (HVAC) apprenticeship program is a four-year program that combines on-the-job work experience with class room instruction to prepare HVAC technicians for working in the field at the Journeyman level. Apprentices are given training in service, installation, safety and code requirements.

Emphasis in Industrial Maintenance Apprentice

Apprentice	48 Credits
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Emphasis Requirements:	48 Credits
Complete the following:	
• APPR 281R	Cooperative Work Experience (1.0)
• APPR 285R	Cooperative Correlated Class (1.0)
• DMT 1400	Industrial Maintenance 1A
• DMT 1410	Industrial Maintenance 1B
• DMT 1430	Industrial Maintenance 2B
• EART 1010	Industrial Maintenance 2A
Complete 10 credits from the following:	10.0
• 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:	10.0
• 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)

NOTE: The Industrial Maintenance apprenticeship program is a four-year program that combines on-the-job work experience with classroom instruction to prepare the Industrial Maintenance apprentices for working in the field at the Journeyman level.

Emphasis in Lineman

Apprentice	48 Credits
Emphasis Requirements:	48 Credits
• LINE 1010	Lineman Apprentice 1A
• LINE 1020	Lineman Apprentice 1B
• LINE 1030	Lineman Apprentice 2A
• LINE 1040	Lineman Apprentice 2B
• LINE 2010	Lineman Apprentice 3A
• LINE 2020	Lineman Apprentice 3B
• LINE 2030	Lineman Apprentice 4A
• LINE 2040	Lineman Apprentice 4B

The lineman apprentice courses are offered for lineman apprentices to complete the Federal Bureau of Apprentice 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 Meter

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

NOTE: Courses offered for lineman meter apprentice to complete the Federal Bureau of Apprenticeship Related instruction requirement.

Emphasis in Lineman Substation

Apprentice	48 Credits
Emphasis Requirements:	48 Credits
• LINE 1500	Lineman Substation Apprentice 1A
• LINE 1510	Lineman Substation Apprentice 1B
• LINE 1520	Lineman Substation Apprentice 2A
• LINE 1530	Lineman Substation Apprentice 2B
• LINE 2500	Lineman Substation Apprentice 3A
• LINE 2510	Lineman Substation Apprentice 3B
• LINE 2520	Lineman Substation Apprentice 4A
• LINE 2530	Lineman Substation Apprentice 4B

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

Emphasis in Plumber

Apprentice	48 Credits
Emphasis Requirements:	48 Credits
• APPR 1410	Plumbing Independent 1A
• APPR 1420	Plumbing Independent 1B
• APPR 1430	Plumbing Independent 2A
• APPR 1440	Plumbing Independent 2B
• APPR 1450	Plumbing Independent 3A
• APPR 1460	Plumbing Independent 3B
• APPR 1470	Plumbing Independent 4A
• APPR 1480	Plumbing Independent 4B
• APPR 281R	Cooperative Work Experience (Must be repeated 7 times) (1.0)
• APPR 285R	Cooperative Correlated Class

NOTE: Plumbing is a compulsory licensed trade where the plumber performs any mechanical work in the installation, maintenance, repair, removal and replacement of water supply and water/liquid waste removal. Plumbers do both interior and exterior work in greatly varying job conditions. Education suggestions for high school subjects include basic mathematics, geometry, algebra, physics, welding, wood shop, blueprint reading, and mechanical drawing. The Independent Plumbing program requires 576 hours of related training and 8,000 hours of on-the-job training. Upon completion of these requirements students will be eligible to sit for the Utah State Plumbers Journeyman Examination.

Emphasis in Sheet Metal

Apprentice	48 Credits
Emphasis Requirements:	48 Credits
• APPR 1110	Sheet Metal 1A
• APPR 1120	Sheet Metal 1B
• APPR 1210	Sheet Metal 2A
• APPR 1220	Sheet Metal 2B
• APPR 2310	Sheet Metal 3A
• APPR 2320	Sheet Metal 3B
• APPR 2410	Sheet Metal 4A
• APPR 2420	Sheet Metal 4B

BS in Technology

Management 124 CREDITS

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

Specialization in Carpenter Union

Apprentice (JATC)	45 Credits
Emphasis Requirements:	45 Credits
• APPR 1800	Carpenter Apprentice 1A
• APPR 1810	Carpenter Apprentice 1B
• APPR 1820	Carpenter Apprentice 2A
• APPR 1830	Carpenter Apprentice 2B
• APPR 1840	Carpenter Apprentice 3A
• APPR 1850	Carpenter Apprentice 3B
• APPR 1860	Carpenter Apprentice 4A
• APPR 1870	Carpenter Apprentice 4B
• BCCM 281R	Cooperative Work Experience (Must be repeated 4 times) (1.0)
• BCCM 285R	Cooperative Correlated Class

BS in Technology

Management 124 CREDITS

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

Specialization in Electrical Construction

Apprentice	45 Credits
Emphasis Requirements:	45 Credits
• APPR 281R	Cooperative Work Experience (Must be repeated 4 times) (1.0)
• APPR 285R	Cooperative Correlated Class
• EART 1110	Electrical Apprentice 1A
• EART 1120	Electrical Apprentice 1B
• EART 1210	Electrical Apprentice 2A
• EART 1220	Electrical Apprentice 2B
• EART 2310	Electrical Apprentice 3A
• EART 2320	Electrical Apprentice 3B
• EART 2410	Electrical Apprentice 4A
• EART 2420	Electrical Apprentice 4B

BS in Technology

Management 124 CREDITS

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

Specialization in Electrical Union

Apprentice (JATC)	45 Credits
Emphasis Requirements:	45 Credits
• EART 1300	Electrical Union Apprentice 1A
• EART 1310	Electrical Union Apprentice 1B
• EART 1320	Electrical Union Apprentice 2A
• EART 1330	Electrical Union Apprentice 2B
• EART 2330	Electrical Union Apprentice 3A
• EART 2340	Electrical Union Apprentice 3B
• EART 2350	Electrical Union Apprentice 4A
• EART 2360	Electrical Union Apprentice 4B
• EART 2370	Electrical Union Apprentice 5A

BS in Technology

Management 124 CREDITS

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

Specialization in HVAC Apprentice 45 Credits

Emphasis Requirements: 45 Credits		
• ACRT 281R	Cooperative Work Experience (Must be repeated 4 times) (1.0)	4.0
• ACRT 285R	Cooperative Correlated Class	1.0
• HVAC 1130	HVAC 1B	5.0
• HVAC 1150	HVAC 2B	5.0
• HVAC 1170	HVAC 3B	5.0
• HVAC 1190	HVAC 4B	5.0
• HVAC 1200	HVAC 1A	5.0
• HVAC 1220	HVAC 2A	5.0
• HVAC 2200	HVAC 3A	5.0
• HVAC 2220	HVAC 4A	5.0

BS in Technology Management 124 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 45 Credits

Emphasis Requirements: 45 Credits		
• APPR 281R	Cooperative Work Experience (Must be repeated 4 times) (1.0)	4.0
• 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:		10.0
• 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:		10.0
• 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 124 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 124 CREDITS

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

Specialization in Line 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

BS in Technology Management 124 CREDITS

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

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

BS in Technology Management 124 CREDITS

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

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
• BCCM 281R	Cooperative Work Experience (Must be repeated 4 times) (1.0)	4.0
• BCCM 285R	Cooperative Correlated Class	1.0

BS in Technology Management 124 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		
• 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

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

- APPR, Appretrice
- AUT, Automotive Technology
- AVSC, Aviation Science
- DMT, Diesel Mechanics Technology
- EART, Electrical Automation and Robotics Technology
- HVAC, Heating, Ventilation, Air Conditioning
- LINE, Lineman Technology
- MET, Manufacturing Engineering Technology
- MTT, Machine Tool Technology
- WELD, Welding Technology

Art and Visual Communications

Art and Visual Communications

Department Chair: Steve Bule

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Telephone: 801-863-7378

Faculty:

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Douglas D. Anderson
Steve Bule
Bob deWitt
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School of Humanities, Arts, and Social Sciences

Dean: William W. Cobb, Jr.
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Advisory Committee: Stephen Hales, Stephen Hales Creative, Inc.; David Canaan, SBG Partners; Jeff Bell, Springville High School.

PROGRAM DESCRIPTION

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

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

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. The graduate is 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. Most larger 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 and a minimum GPA of a 3.2 in the AVC Program as well as 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:

For students that have received an AAS degree from the Art and Visual Communications Department, they will then 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. If a student has an AAS degree from a different field other than art, they 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 30 CREDITS

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 2710	History of Art to the Renaissance (3.0)	
or ARTH 2720	History of Art from the Renaissance	3.0
• ART 1130	3 D Design	3.0
Elective Requirements:		12 Credits
• Any ART course not already taken (See Department 12.0 Advisor).		

AAS in Art and Visual Communications 64 CREDITS

General Education Requirements:		16 Credits
• ENGL 1010	Introduction to Writing	3.0
• MAT 1010	Intermediate Algebra* (4.0)	
or ACC 1150	Fundamentals of Business Math*	3.0
• Social or Behavioral Science		3.0
• Biology or Physical Science		3.0
• P.E. or Health		1.0
• ARTH 2710	History of Art to the Renaissance (3.0)	
or ARTH 2720	History of Art from the Renaissance	3.0
Discipline Core Requirements:		15 Credits
• ART 1120	2D Design	3.0
• ART 1400	Graphic Computer Applications	3.0
• ART 1110	Drawing I	3.0
• ART 1050	Photography I	3.0
• ART 1130	3 D Design	3.0
Emphasis:		
Complete one of the following:		
• Design/Illustration		33.0
• Graphic Design		33.0
• Photography		33.0
Graduation Requirements:		
1 Completion of a minimum of 64 semester credits.		
2 Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)		
3 Residency hours--minimum of 20 credit hours through course attendance at UVSC.		
4 Completion of GE and specified departmental requirements.		

Footnotes:

* See AVC advisor

Emphasis in Design/Illustration 33 Credits

Emphasis Requirements:		21 Credits
• ART 2210	Drawing for Illustration	3.0
• ART 2230	Illustrative Media and Techniques I	3.0
• ART 2240	Illustrative Media and Techniques II	3.0
• ART 2460	Interactive Design I	3.0
• ART 2630	Painting I	3.0
or ART 1650	Watermedia I	
• ART 2640	Painting II	3.0
or ART 2650	Watermedia II	
• ART 200R	Art and Visual Communications Lectures (1.0)	2.0
• ART 2590	Portfolio	1.0
Emphasis Elective Requirements:		12 Credits

Art and Visual Communications

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
Emphasis Requirements: 21 Credits

- ART 1430 Digital Prepress 3.0
- ART 1410 Typography and Layout I 3.0
- ART 2410 Typography and Layout II 3.0
- ART 2430 Graphic Design I 3.0
- ART 2450 Digital Imaging 3.0
- ART 2590 Portfolio 1.0
- ART 200R Art and Visual Communications Lectures (1.0) 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 part of this requirement with the following courses:

- ARTH 3010 History of Design and Visual Arts (3.0)
- ART 3460 Interactive Design II (3.0)
- ART 3410 Advanced Layout (3.0)
- ART 3430 Graphic Design II (3.0)

Emphasis in Photography

33 Credits
Emphasis Requirements: 21 Credits

- ART 2450 Digital Imaging 3.0
- ART 2710 Alternative Photography I 3.0
- ART 2720 Color Photography 3.0
- ART 2700 Photography II 3.0
- ART 2730 Photographic Lighting 3.0
- ARTH 2790 The History of Photography 3.0
- ART 200R Art and Visual Communications Lectures (1.0) 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 part of this requirement with the following courses:

- ART 1410 Typography and Layout I (3.0)
- 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 3.0
- or ENGL 2020 Intermediate Writing--Science and Technology (3.0)

Complete one of the following: 3.0

- MATH 1030 Quantitative Reasoning (3.0)
- MATH 1040 Introduction to Statistics (3.0)
- MATH 1050 College Algebra (4.0)

Complete one of the following: 3.0

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

Complete the following:

- 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 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 UVSC.
- 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 Art and Visual Communications

62 CREDITS

General Education Requirements: 35 Credits

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

Complete one of the following: 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
- 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: 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

Elective Requirements: 9 Credits

Complete a minimum of 9 credits from any ART/ARTH Course not already required. Courses relative to the type of Bachelors Degree you plan to pursue are recommended. (See department advisor for appropriate courses.)

Graduation Requirements:

- 1 Completion of a minimum of 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 UVSC.
- 4 Completion of GE and specified departmental requirements.

BA in Art and Visual Communications

122 CREDITS

General Education Requirements: 35 Credits

- ENGL 1010 Introduction to Writing 3.0
- ENGL 2010 Intermediate Writing--Humanities/ Social Sciences 3.0
- 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
- or PES 1097 Fitness for Life (2.0)

Distribution Courses

- Biology 3.0

- Physical Science 3.0
- Additional Biology or Physical Science 3.0
- 2020 of chosen foreign language (Humanities Distribution) 3.0
- ARTH 2710 History of Art to the Renaissance 3.0
- Social/Behavioral Science 3.0

Discipline Core Requirements: 63 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 Lectures (1.0) 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. (Departments may require a higher GPA.)
- 3 Residency hours-- minimum of 30 credit hours through course attendance at UVSC, with at least 10 hours in the last 45 hours.
- 4 Completion of GE and specified departmental requirements.
- 5 For the BA degree, completion of 18 credit hours of course work from one language to include the 1010, 1020, 2010, and 2020 levels or transferred equivalents.

BS in Art and Visual Communications

122 CREDITS

General Education Requirements: 35 Credits

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

- 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 Lectures (1.0) 3.0

Complete 45 credits from any ART/ARTH courses not already taken, of which 36 credits must be upper division.

Elective Requirements: 15 Credits

- Complete any courses 1000 level or higher 15.0

Graduation Requirements:

- 1 Completion of a minimum of 122 semester credits.
- 2 Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
- 3 Residency hours-- minimum of 30 credit hours through course attendance at UVSC, with at least 10 hours earned in the last 45 hours.
- 4 Completion of GE and specified departmental requirements.

Art and Visual Communications

BFA in Art and Visual Communications

125 Credits

Matriculation Requirements:

- 1 AA, AS, or AAS Degree or equivalent in Art and Visual Communication or advisor approval
- 2 Portfolio Review

General Education Requirements:

35 Credits

- ENGL 1010 Introduction to Writing 3.0
- ENGL 2010 Intermediate Writing--Humanities/ Social Sciences 3.0
- or ENGL 2020 Intermediate Writing--Science and Technology (3.0)

Complete one of the following:

- MATH 1030 Quantitative Reasoning (recommended for Humanities or Arts majors) (3.0)
- MATH 1040 Introduction to Statistics (recommended for Social Science majors) (3.0)
- MATH 1050 College Algebra (recommended for Business, Education, Science, and Health Professions majors) (4.0)

Complete one of the following:

- HIST 2700 US History to 1877 (3.0)
- and HIST 2710 US History since 1877 (3.0)
- 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:

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

Emphasis:

Complete one of the following:

- Fine Arts 63.0
- Graphic Design 63.0
- Illustration 63.0
- Photography 63.0

Elective Requirements:

9 Credits

- Complete any ART/ARTH courses not already used. 9.0

Graduation Requirements:

- 1 Completion of a minimum of 125 semester credits.
- 2 Overall 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 UVSC, with at least 10 hours earned in the last 45 hours.
- 4 Completion of GE and specified departmental requirements.

Emphasis in Fine Arts

63 Credits

Emphasis Requirements:

21 Credits

Complete the following:

- ART 1340 Sculpture I 3.0
- ART 1350 Ceramics I 3.0
- ART 1650 Watermedia I 3.0
- ART 2110 Drawing II 3.0
- ART 2350 Ceramics II (3.0)
- or ART 2340 Sculpture II (3.0)
- or ART 2640 Painting II (3.0)
- or ART 2650 Watermedia II 3.0
- ART 2630 Painting I 3.0
- ART 200R Art and Visual Communications Lectures 3.0

Emphasis Elective Requirements:

42 Credits

Choose 1 of the following 2 Options. Each option is 42 credits.

Drawing/Painting

- ARTH 3020 Classical Art and Architecture History (3.0)
- or ARTH 3050 Baroque Art and Architecture History (3.0)
- ARTH 3040 Renaissance Art History (3.0)
- ART 363R Painting III (3.0)
- ART 365R Watermedia III (3.0)
- or ART 311R Drawing III (3.0)

- ART 4890 Senior Seminar (3.0)
- ART 4990 Senior Studio (3.0)
- ART 4991 BFA Project (3.0)
- ART 361R Figure Drawing I (3.0)
- ART/ARTH Upper Division Electives (18 credit hours)

Sculpture/Ceramics

- ARTH 3020 Classical Art and Architecture History (3.0)
- or ARTH 3050 Baroque Art and Architecture History (3.0)
- ARTH 3040 Renaissance Art History (3.0)
- ART 3340 Sculpture III (3.0)
- ART 3350 Ceramics III (3.0)
- ART 4360 Mold Making and Casting (3.0)
- or ART 4370 Hand Building Ceramics (3.0)
- ART 4890 Senior Seminar (3.0)
- ART 4990 Senior Studio (3.0)
- ART 4991 BFA Project (3.0)
- ART 361R Figure Drawing I (3.0)
- ART/ARTH Upper Division Electives (15 credit hours)

Emphasis in Graphic Design

63 Credits

Emphasis Requirements:

54 Credits

- ART 1410 Typography and Layout I 3.0
- ART 1430 Digital Prepress 3.0
- ART 2410 Typography and Layout II 3.0
- ART 2430 Graphic Design I 3.0
- ART 2450 Digital Imaging 3.0
- ART 2460 Interactive Design I 3.0
- ART 200R Art and Visual Communications Lectures (must be repeated) 3.0
- ART 3410 Advanced Layout 3.0
- ART 3430 Graphic Design II 3.0
- ART 3460 Interactive Design II 3.0
- ART 3470 Digital Painting 3.0
- ART 443R Special Topics in Graphic Design 3.0
- ART 446R Advanced Interactive Design 3.0
- ART 449R Advanced Graphic Design Studio 3.0
- ART 4890 Senior Seminar 3.0
- ART 4990 Senior Studio 3.0
- ART 4991 BFA Project 3.0
- ARTH 3010 History of Design and Visual Arts (3.0)
- or ARTH 3070 Twentieth Century Art and Architectural History 3.0

Emphasis Elective Requirements:

9 Credits

- Complete any upper-division ART or ARTH course not already completed or any advisor approved courses 9.0

Emphasis in Illustration

63 Credits

Emphasis Requirements:

21 Credits

- ARTH 3010 History of Design and Visual Arts (3.0)
- or ARTH 3070 Twentieth Century Art and Architectural History 3.0
- ART 2210 Drawing for Illustration 3.0
- ART 2230 Illustrative Media and Techniques I 3.0
- ART 2240 Illustrative Media and Techniques II 3.0
- ART 2460 Interactive Design I 3.0
- ART 361R Figure Drawing I 3.0
- ART 200R Art and Visual Communications Lectures 3.0

Emphasis Elective Requirements:

42 Credits

Choose 1 of the following 3 Options. Each Option is 42 credit hours.

Traditional

- ART 2630 Painting I (3.0)
- or ART 1650 Watermedia I (3.0)
- ART 2640 Painting II (3.0)
- or ART 2650 Watermedia II (3.0)
- ART 3210 Illustration I (3.0)
- ART 3220 Illustration II (3.0)
- ART 370R Figure Structure (3.0)
- or ART 370R Figure Structure (3.0)
- ART 412R Advanced Illustration (3.0)
- ART 4890 Senior Seminar (3.0)
- ART 4990 Senior Studio (3.0)
- ART 4991 BFA Project (3.0)
- ART 3290 Rendering the Human Head (3.0)
- ART/ARTH Upper Division Electives (12 credit hours)

Digital

- ART 1410 Typography and Layout I (3.0)
- ART 2730 Photographic Lighting (3.0)
- ART 3230 3-D Computer Modeling (3.0)
- or ART 3470 Digital Painting (3.0)
- ART 412R Advanced Illustration (3.0)
- or ART 3750 Digital Imaging II (3.0)
- ART 3210 Illustration I (3.0)
- ART 3220 Illustration II (3.0)

- ART 370R Figure Structure (3.0)
- or ART 370R Figure Structure (3.0)
- ART 412R Advanced Illustration (3.0)
- ART 4890 Senior Seminar (3.0)
- ART 4990 Senior Studio (3.0)
- ART 4991 BFA Project (3.0)
- ART 3290 Rendering the Human Head (3.0)
- ART/ARTH Upper Division Electives (6 credit hours)

Animation

- ART 3230 3-D Computer Modeling (3.0)
- ART 4230 Advanced 3D Computer Modeling (3.0)
- ART 370R Figure Structure (3.0)
- DGM 2620 Principles of Animation I (3.0)
- ART 470R Interpretive Drawing (3.0)
- DGM 3630 Character Modeling (3.0)
- DGM 2210 3D Modeling and Animation Essentials (4.0)
- DGM 3620 Principles of Animation II (3.0)
- DGM 3130 Digital Storyboarding (3.0)
- DGM 3640 SFX and Compositing (4.0)
- DGM 3680 Animation Project (3.0)
- ART 4990 Senior Studio (3.0)
- ART 3290 Rendering the Human Head (3.0)
- ART Upper Division Electives (6 credit hours)

Emphasis in Photography

63 Credits

Emphasis Requirements:

21 Credits

Complete the following:

- ART 200R Art and Visual Communications Lectures (1.0) 3.0
- ART 2710 Alternative Photography I 3.0
- ART 2720 Color Photography 3.0
- ART 2730 Photographic Lighting 3.0
- ART 2700 Photography II 3.0
- ART 2450 Digital Imaging 3.0
- ARTH 2790 The History of Photography 3.0

Emphasis Elective Requirements:

42 Credits

- ARTH 3010 History of Design and Visual Arts (3.0)
- or ARTH 3070 Twentieth Century Art and Architectural History 3.0
- ART 371R Alternative Photography II (Must be repeated once for credit) 6.0
- ART 3750 Digital Imaging II 3.0
- 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 124 Credits

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

Art and Visual Communications 45 Credits

Specialty Requirements:

45 Credits

- ART 1120 2 D Design 3.0
- ART 1400 Graphic Computer Applications 3.0
- ART 1000 Color Theory 3.0
- Complete an additional 36 credits from the AVC courses. 36.0

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

Department Chair: Don Wilson

Office: SA 325

Telephone: 801-863-8124

Program Coordinator: Orrin Nelson

Office: SA 320

Telephone: 801-863-6433

or 801-863-8349

Faculty:

Associate Professor

Paul Bean

Robert Campbell

Todd Low

Orrin Nelson

Lecturer

Dennis Tolman

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, MPI; John Pagnelli, MPI; Dave Johnson, DJ Auto; David Read, Saturn of Orem; Mel Ferguson, LKQ.

School of Technology and Computing

Interim 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 State College 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.

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

Discipline Core Requirements: 31 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 1260	Tech Math for Mechanics	3.0
• CLSS 1000	Student Success (3.0)	
or ENGL 106A	Career Writing for Technology--A	2.0
• Any approved Behavioral Science, Social, or Political Science Distribution course		2.0

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

Diploma in Automotive

Technology 55 Credits

Discipline Core Requirements: 55 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 201R	Automotive Service Practicum	8.0
or AUT 281R	Cooperative Work Experience (1.0)	8.0
• 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 2250	Electronic Fuel Management Systems	2.0
• AUT 2240	Automotive HVACR	2.0
• CLSS 1000	Student Success (3.0)	
or ENGL 106A	Career Writing for Technology--A	2.0
• Any approved Behavioral Science, Social, or Political Science Distribution Course		2.0
• AUT 1260	Tech Math for Mechanics	3.0

Graduation Requirements:

Automotive Technology

1. Completion of a minimum of 55 semester hours.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Completion of specified departmental requirements.

AAS in Automotive

Technology 64 Credits

General Education Requirements: 16 Credits

ENGLISH		2.0
• ENGL 1010	Introduction to Writing (3.0)	
• ENGL 1060	Career Writing for Technology (3.0)	
• ENGL 106A	Career Writing for Technology--A (2.0)	
MATHEMATICS		3.0
• AUT 1260	Tech Math for Mechanics (3.0)	
• Any higher Mathematics Course		
HUMANITIES/FINE ARTS/FOREIGN LANGUAGE		2.0
• Any approved Humanities, Fine Arts, or Foreign Language Distribution Course		
SOCIAL AND BEHAVIORAL SCIENCE		2.0
• Any approved Behavioral Science, Social, or Political Science Distribution Course		
BIOLOGY OR PHYSICAL SCIENCE		2.0
• Any approved Biology or Physical Science Distribution Course		
PHYSICAL EDUCATION/HEALTH/SAFETY OR ENVIRONMENT		1.0
• Any approved Physical Education, Health, Safety, or Environment Course		

ADDITIONAL CREDITS FROM ANY OF THE ABOVE 4.0

Discipline Core Requirements: 48 Credits

• AUT 1110	Brake Systems	2.0
• AUT 111L	Brake Systems Lab	1.0
• AUT 1120	Manual Power Trains	2.0
• AUT 112L	Manual Power Trains Lab	1.0
• AUT 1130	Engine Repair	2.0
• AUT 113L	Engine Repair Lab	1.0
• AUT 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 2210	Advanced Braking and Control Systems	2.0
• AUT 2220	Automatic Transmissions and Electronic Controls	2.0
• AUT 2250	Electronic Fuel Management Systems	2.0
• AUT 2240	Automotive HVACR	2.0
Complete 8 credits from the following:		8.0
• AUT 201R	Automotive Service Practicum (2.0)	
• AUT 281R	Cooperative Work Experience (1.0)	

Graduation Requirements:

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

AS Pre Major in Automotive

Technology 60 Credits

General Education Requirements: 35 Credits

• ENGL 1010	Introduction to Writing	3.0
• ENGL 2020	Intermediate Writing--Science and Technology	3.0
or ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
Complete one of the following:		3.0
• MATH 1030	Quantitative Reasoning (3.0)	
• MATH 1040	Introduction to Statistics (3.0)	
• MATH 1050	College Algebra (4.0)	
Complete one of the following:		3.0
• POLS 1000	American Heritage (3.0)	
• HIST 2700	US History to 1877 (3.0)	
and HIST 2710	US History since 1877 (3.0)	
• HIST 1700	American Civilization (3.0)	

Automotive Technology

- HIST 1740 US Economic History (3.0)
- POLS 1100 American National Government (3.0)

Complete the following:

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

Distribution Courses

- Biology 3.0
- Physical Science 3.0
- Additional Biology or Physical Science 3.0
- Humanities Distribution 3.0
- Fine Arts Distribution 3.0
- Social/Behavioral Science 3.0

Discipline Core Requirements: 16 Credits

- Choose from AUT or related 1000 level of higher courses 16.0

Elective Requirements: 9 Credits

- Choose electives from 1000 level or higher courses 9.0

Graduation Requirements:

- 1 Completion of a minimum of 60 semester credits.
- 2 Overall grade point average of 2.0 (C) or above. (Departments may require higher GPA.)
- 3 Residency hours--minimum of 20 credit hours through course attendance at UVSC.
- 4 Completion of GE and specified departmental requirements.

BS in Technology

Management 124 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 HVACR 2.0
- AUT 2250 Electronic Fuel Management Systems 2.0

Complete 5 credits from the following: 5.0

- AUT 201R Automotive Service Practicum (2.0)
- 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 students 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 UVSC Campus

Associate Department Chair for Academics:

Rick Vincent, Assistant Professor
Telephone: 801-863-7755
Office: Provo Municipal Airport

Associate Department Chair for Flight Training:

Steve Smith, Associate Professor and Chief Pilot
Telephone: 801-863-7791 or 801-863-7777
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

Associate Department Chair for Flight Operations:

Mario Markides, Flight Operations Manager
Telephone: 801-863-7785 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
Rick Vincent
Telephone: 801-863-7755
Brice Williams
Telephone: 801-863-7818

Lecturer
Todd Deshler
Dustin Berlin

Chief Flight Instructors:

Adam Clegg
Telephone: 801-863-7852

Brian Bastin
Telephone: 801-863-7864

Michelle Koerner
Telephone: 801-863-7854

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 Mario Jimenez, Federal Express; Captain Steve Morrison, United Airlines; Captain Kory Morgan, Southwest Airlines; Captain James Healy, SkyWest Airlines; Captain Jayson Esplin, Jet Blue Airlines; Dr. Lee Suidzinski, Experimental Aircraft Association; Dr. Sherwood Williams, CAVU Aviation

School of Technology and Computing

Interim 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

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/sight-seeing pilot, police and traffic control, research and development, test flight, airplane sales/demonstration and generic commercial airline pilot. Graduates of the Associate in Applied Science or Associate in Science are qualified to become a commercial pilot or certified flight instructor and should qualify for entry into a four-year degree program for upper division course work. Graduates of the Bachelor of Science in Aviation Professional Pilot are qualified to be hired by 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.

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 65 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		
• POLS 1000	American Heritage	3.0
or HIST 1700	American Civilization (3.0)	
or Any other Social Science		
• Any approved Biology or Physical Science		3.0
Distribution Course		
• HLTH 1100	Personal Health and Wellness (recommended)	2.0
Discipline Core Requirements:		47 Credits
• AVSC 1010	Survey of Aviation Science	2.0
• AVSC 1100	Ground Private Pilot	4.0
• AVSC 1110	Flight Private Pilot Certification	3.0

Aviation Science

• 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 2300	Ground Commercial Pilot--Phase II	2.0
• AVSC 2310	Flight Commercial Pilot--Phase II	3.0
• AVSC 2440	Ground Multi-Engine	1.0
• AVSC 2450	Flight Multi-Engine	1.0
• AVSC 281R	Cooperative Work Experience* (1.0)	5.0
• AVSC 285R	Cooperative Related Class (1.0)	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)	
• AVSC 2410	Flight Certified Flight Instructor (1.0)	
• AVSC 2420	Ground CFI Instrument (1.0)	
• AVSC 2430	Flight CFI Instrument (1.0)	
• AVSC 2500	Ground Multi-Engine Instructor (1.0)	
• AVSC 2510	Flight Multi-Engine Instructor (1.0)	

First Officer		
• AVSC 3300	Jet Transport Systems (3.0)	
• AVSC 3600	Crew Resource Management/Human Factors (3.0)	

Aviation Management (Choose 9 credits)		
• AVSC 2860	SkillsUSA (1.0)	
• AVSC 3020	Aviation Insurance and Risk Management (3.0)	

• AVSC 3100	Corporate Aviation Management (3.0)	
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• AVSC 3120	Airport Management (3.0)	
• AVSC 3140	Fixed Base Operations Management (3.0)	

Air Traffic Control		
• AVSC 3030	Air Traffic Control (3.0)	
• AVSC 3040	Air Traffic Control II (3.0)	
• AVSC 3600	Crew Resource Management/Human Factors (3.0)	

Graduation Requirements:

- 1 Completion of a minimum of 65 or more semester credits.
- 2 Overall grade point average of 2.0 (C) or above. C- or above required for all aviation major classes.
- 3 Residency hours--minimum of 20 credit hours through course attendance at UVSC.
- 4 Completion of GE and specified departmental requirements
- 5 Completion of Commercial Pilot Certificate.

Footnotes:

- * One credit from AVSC 1020 Aircraft Identification may be substituted for one of cooperative work experience.

AS Pre Major in

Aviation Science

61 Credits

General Education Requirements: 35 Credits

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

Complete one of the following: 3.0

• MATH 1030	Quantitative Reasoning (recommended for Humanities or Arts majors) (3.0)	
• MATH 1040	Introduction to Statistics (recommended for Social Science majors) (3.0)	
• MATH 1050	College Algebra (recommended for Business, Education, Science, and Health Professions majors) (4.0)	

Complete one of the following: 3.0

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

Complete the following:

• 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
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Discipline Core Requirements: 24 Credits

• AVSC 1010	Survey of Aviation Science	2.0
• AVSC 1100	Ground Private Pilot	4.0
• AVSC 1110	Flight Private Pilot Certification	3.0
• AVSC 1220	Ground Commercial Pilot--Phase I	1.0
• AVSC 1230	Flight Commercial Pilot--Phase I	3.0
• AVSC 1240	Ground Instrument Pilot	4.0
• AVSC 1250	Flight Instrument Pilot Rating	2.0
• AVSC 2300	Ground Commercial Pilot--Phase II	2.0
• AVSC 2310	Flight Commercial Pilot--Phase II	3.0

Elective Requirements: 2 Credits

Complete two credits from the following: 2.0

• AVSC 1020	Aircraft Identification (1.0)	
• AVSC 2150	Air Transportation Management (3.0)	
• AVSC 2160	Aviation Law (3.0)	
• AVSC 2330	Theory of Instruction (1.0)	
• AVSC 2400	Ground Certified Flight Instructor (3.0)	
• AVSC 2410	Flight Certified Flight Instructor (1.0)	
• AVSC 2420	Ground CFI Instrument (1.0)	
• AVSC 2430	Flight CFI Instrument (1.0)	
• AVSC 2440	Ground Multi-Engine (1.0)	
• AVSC 2450	Flight Multi-Engine (1.0)	

Graduation Requirements:

- 1 Completion of a minimum of 61 or more semester credits.
- 2 Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
- 3 Residency hours--minimum of 20 credit hours through course attendance at UVSC.
- 4 Completion of GE and specified departmental requirements.
- 5 Completion of Commercial Pilot Certificate.

BS in Aviation

120 CREDITS

Matriculation Requirements:

- 1 Medical Requirement: Class 1 FAA medical exam.
- 2 Completion of 25 aviation credits and a 2.5 GPA.

General Education Requirements: 35 Credits

• ENGL 1010	Introduction to Writing	3.0
• ENGL 2020	Intermediate Writing--Science and Technology	3.0

Complete one of the following: 3.0

• MATH 1030	Quantitative Reasoning (recommended for Humanities or Arts majors) (3.0)	
• MATH 1040	Introduction to Statistics (recommended for Social Science majors) (3.0)	
• MATH 1050	College Algebra (recommended for Business, Education, Science, and Health Professions majors) (4.0)	

Complete one of the following: 3.0

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

Complete the following:

• 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 (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

Discipline Core Requirements: 30 Credits

• AVSC 1010	Survey of Aviation Science	2.0
• AVSC 2150	Air Transportation Management	3.0
• AVSC 2160	Aviation Law	3.0
• AVSC 281R	Cooperative Work Experience (1.0)	3.0
• AVSC 285R	Cooperative Related Class	1.0
• AVSC 3010	Flight Environment	3.0
• AVSC 3200	Flight Physiology	3.0
• AVSC 3600	Crew Resource Management/Human Factors	3.0

Complete 8 credits from the following: 8.0

• AVSC 481R	Cooperative Work Experience (minimum of 2 credits) (1.0)	
• AVSC 490R	Safety and Professional Seminars (2.0)	
• AVSC 491R	Undergraduate Research Project (minimum of 3 credits) (3.0)	

Emphasis:

Complete one of the following:

• Aviation Administration	55.0
• Professional Pilot	55.0

Graduation Requirements:

- 1 Completion of a minimum of 120 or more semester credits, with a minimum of 40 upper division semester credits.
- 2 Overall grade point average of 2.0 (C) or above. Aviation courses require a C- or above. (Departments may require a higher GPA.)
- 3 Residency hours--minimum of 30 credit hours through course attendance at UVSC, with at least 10 hours earned in the last 45 hours.
- 4 Completion of Commercial Pilot Certificate for the Professional Pilot emphasis.
- 5 Completion of GE and specified departmental requirements including successful completion of the Class 1 FAA medical exam.

NOTE: If student chooses HIST 2700 and 2710, the additional hours may be used towards a social science distribution requirement.

Emphasis in

Aviation Administration

55 Credits

Emphasis Requirements: 40 Credits

• AVSC 1020	Aircraft Identification	1.0
• AVSC 1030	Aviation Customer Service	3.0
• AVSC 1040	In-flight Service	3.0
• AVSC 2050	Introduction to Aviation Security	3.0
• AVSC 2180	Airline Computer Applications	3.0
• AVSC 2190	Introduction to Dispatch and Scheduling	3.0
• AVSC 2200	Aviation Marketing	3.0
• AVSC 3020	Aviation Insurance and Risk Management	3.0
• AVSC 3050	Aviation Human Resource Management	3.0
• AVSC 3060	Regional Airline Management	3.0
• AVSC 3070	Aviation Cargo Operations	3.0
• AVSC 3100	Corporate Aviation Management	3.0
• AVSC 3120	Airport Management	3.0
• AVSC 3140	Fixed Base Operations Management	3.0

Emphasis Elective Requirements: 15 Credits

- Must complete 15 credits from the following elective courses:
- AVSC 1100 Ground Private Pilot (4.0)
 - AVSC 1110 Flight Private Pilot Certification (3.0)
 - AVSC 1220 Ground Commercial Pilot--Phase I (1.0)
 - AVSC 1230 Flight Commercial Pilot--Phase I (3.0)
 - AVSC 1240 Ground Instrument Pilot (4.0)
 - AVSC 1250 Flight Instrument Pilot Rating (2.0)
 - AVSC 2300 Ground Commercial Pilot--Phase II (2.0)
 - AVSC 2310 Flight Commercial Pilot--Phase II (3.0)
 - AVSC 2330 Theory of Instruction (1.0)
 - AVSC 2400 Ground Certified Flight Instructor (3.0)
 - AVSC 2410 Flight Certified Flight Instructor (1.0)
 - AVSC 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)

Emphasis in

Professional Pilot

55 Credits

Emphasis Requirements: 36 Credits

• AVSC 1100	Ground Private Pilot	4.0
• AVSC 1110	Flight Private Pilot Certification	3.0
• AVSC 1220	Ground Commercial Pilot--Phase I	1.0
• AVSC 1230	Flight Commercial Pilot--Phase I	3.0
• AVSC 1240	Ground Instrument Pilot	4.0
• AVSC 1250	Flight Instrument Pilot Rating	2.0
• AVSC 2300	Ground Commercial Pilot--Phase II	2.0
• AVSC 2310	Flight Commercial Pilot--Phase II	3.0
• AVSC 2440	Ground Multi-Engine	1.0
• AVSC 2450	Flight Multi-Engine	1.0
• AVSC 3030	Air Traffic Control	3.0
• AVSC 3400	High Altitude Navigation/International Flight Operations	3.0

• AVSC 3530	Advanced Aerodynamics	3.0
• AVSC 3300	Jet Transport Systems	3.0

Emphasis Elective Requirements: 19 Credits

- Must complete 19 credits from the following courses, including 10 hours of upper division.
- AVSC 1020 Aircraft Identification (1.0)
 - 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 1260 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 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 Airport Management (3.0)
- AVSC 3140 Fixed Base Operations Management (3.0)
- AVSC 4200 Ground Turbine Transition (3.0)
- AVSC 4210 Flight Turbine Transition (1.0)
- AVSC 4300 Ground Airline Transport Pilot/Aircraft Dispatcher (3.0)
- AVSC 4310 Flight Airline Transport Pilot (1.0)
- AVSC 475R Current Topics in Aviation (1.0)

BS in Technology

Management **124 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: **39 Credits**

- AVSC 1010 Survey of Aviation Science 2.0
- AVSC 1100 Ground Private Pilot 4.0
- AVSC 1110 Flight Private Pilot Certification 3.0
- AVSC 1220 Ground Commercial Pilot--Phase I 1.0
- AVSC 1230 Flight Commercial Pilot--Phase I 3.0
- AVSC 1240 Ground Instrument Pilot 4.0
- AVSC 1250 Flight Instrument Pilot Rating 2.0
- AVSC 2150 Air Transportation Management 3.0
- AVSC 2160 Aviation Law 3.0
- AVSC 2300 Ground Commercial Pilot--Phase II 2.0
- AVSC 2310 Flight Commercial Pilot--Phase II 3.0
- AVSC 2440 Ground Multi-Engine 1.0
- AVSC 2450 Flight Multi-Engine 1.0
- AVSC 281R Cooperative Work Experience (Must repeat 3 times) (1.0) 3.0
- AVSC 285R Cooperative Related Class 1.0
- METO 1010 Introduction to Meteorology 3.0

Elective Requirements: **6 Credits**

Complete 6 credits from the following: 6.0

- AVSC 1020 Aircraft Identification (1.0)
- AVSC 2330 Theory of Instruction (1.0)
- AVSC 2400 Ground Certified Flight Instructor (3.0)
- AVSC 2410 Flight Certified Flight Instructor (1.0)
- AVSC 2420 Ground CFI Instrument (1.0)
- AVSC 2430 Flight CFI Instrument (1.0)
- AVSC 2500 Ground Multi-Engine Instructor (1.0)
- AVSC 2510 Flight Multi-Engine Instructor (1.0)
- AVSC 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 2860 SkillsUSA (1.0)
- AVSC 475R Current Topics in Aviation (1.0)

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

- AVSC, Aviation Science

Behavioral Science

Behavioral Science

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Faculty:

Professor

Mark Jeffreys
Kathy French
Norma Gould
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Associate Professor

Steven Clark
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Assistant Professor

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Susan Middleton
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School of Humanities, Arts, and Social Sciences

Dean: William W. Cobb, Jr.
Office: LA 209d
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The UVSC Behavioral Science Department offers classes that fulfill the social science distribution requirements for graduation, the Behavioral Science pre major for the associate degree, and the Behavioral Science major for the bachelor degree (with an emphasis in Anthropology, Psychology, Social Work or Sociology). Students enrolled in the Integrated Studies bachelor degree may also select Anthropology, Psychology, or Sociology as an emphasis. See the Integrated Studies section in this catalog for more information related to the Integrated Studies bachelor degree.

CAREER OPPORTUNITIES

Courses in these areas of study lead to possible careers in mental health, counseling, family services, education, law enforcement, research, marketing, human resources, management, rehabilitation, anthropology, psychology, sociology, social work, and other human services.

PROGRAMS

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.

AA/AS Pre Major in Behavioral Science

61 CREDITS

General Education Requirements:		35 Credits
• ENGL 1010	Introduction to Writing	3.0
• ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3.0
or ENGL 2020	Intermediate Writing--Science and Technology* (recommended)	(3.0)
Complete one of the following:		3.0
• MATH 1030	Quantitative Reasoning	(3.0)
• MATH 1040	Introduction to Statistics (recommended)	(3.0)
• MATH 1050	College Algebra	(4.0)
Complete one of the following:		3.0
• 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

Discipline Core Requirements:		14 Credits
Complete two of the following:		6.0
• ANTH 1010	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.

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. (Departments may require a higher GPA).
3. Residency hours-- minimum of 20 credit hours through course attendance at UVSC.
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 1010 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) 3.0

- 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)
- SOC 3200 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) 18.0
- Any course numbered 1000 or higher 6.0

Graduation Requirements:

1. Completion of a minimum of 126 credits, 40 of which must be 3000 level or higher.
2. Minimum UVSC GPA of 2.0 upon graduation.
3. Residency hours--minimum of 30 credit hours through course attendance at UVSC, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements, all major course work taken to meet Behavioral Science requirements must be completed with a grade of C- or better.
5. For the BA degree, completion of 18 credit hours of course work from one language to include the 1010, 1020, 2010, 2020 levels or transferred equivalents.

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 1020 Biological Anthropology* 3.0
- Lower Division Anthropology Requirement - (1 course / 3 credits)

Complete one of the following: 3.0

- ANTH 1030 World Prehistory (3.0)
- ANTH 1070 Multicultural Societies (3.0)
- ANTH 1800 Introduction to American Indian Studies (3.0)
- ANTH 2030 Ancient Anthropology (3.0)

Behavioral Science

<ul style="list-style-type: none"> • ANTH 275R Survey of Current Topics (3.0) 	
Anthropology Core Requirements (4 courses / 12 credits)	
<ul style="list-style-type: none"> • ANTH 4150 Contemporary Theory and Debates 3.0 • ANTH 4160 History of Anthropological Thought 3.0 	
Complete two 360R courses, must be two different cultures:	
<ul style="list-style-type: none"> • 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)	
<ul style="list-style-type: none"> • Choose four upper-division (3000 or higher), 3 credit ANTH courses (4 courses / 12 credits) 	12.0
Allied Credit Requirement - (2 courses / 6 credits).	6.0
Choose courses totaling 6 credits. All must be 3000 level or above. 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 490R: Independent Studies.	
Advanced Research Requirement - (1 course / 3 credits)	
<ul style="list-style-type: none"> • ANTH 4850 Ethnographic Project 3.0 	
Emphasis Elective Requirements: 12 Credits	
Behavioral Science Electives (4 courses / 12 credits).	12.0
In addition to the requirements listed above, students must complete 12 credits of approved Behavioral Science electives. Please see the Behavioral Science advisor for a list of approved courses.	
Footnotes:	
<ul style="list-style-type: none"> * 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:	3.0
<ul style="list-style-type: none"> • 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)	
Complete one of the following:	3.0
<ul style="list-style-type: none"> • 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:	3.0
<ul style="list-style-type: none"> • PSY 2250 Psychology of Interpersonal Relationships (3.0) • PSY 2400 Psychology of Personal Effectiveness (3.0) 	
Upper Division Psychology Requirement - (5 courses / 15 credits)	
Content Area (1 course/ 3 credits). Complete one of the following:	3.0
<ul style="list-style-type: none"> • 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:	
<ul style="list-style-type: none"> • 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
Allied Credit Requirement - (2 courses / 6 credits).	6.0
Choose courses totaling 6 credits. All must be 3000 level or above. They must be in Anthropology, Behavioral Science, Social Work, and/or Sociology (ANTH/BESC/SW/SOC). Only 3 credits may be used from ANTH/SW/SOC 490R: Independent Studies. SW 4800 not allowed.	
Research Requirement- (2 courses / 6 credits)	
<ul style="list-style-type: none"> • PSY 3020 Research Methods for the Behavioral Sciences (3.0) 	3.0
Complete one of the following (1 course / 3 credits):	3.0
<ul style="list-style-type: none"> • PSY 4010 Experimental Psychology (3.0) • PSY 4020 Survey Research Design (3.0) • PSY 4030 Introduction to Program Evaluation and Grant Writing (3.0) • PSY 4040 Applied Psychology (3.0) • PSY 4050 Clinical Research (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:	
<ul style="list-style-type: none"> * 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.	
<ul style="list-style-type: none"> • SW 1010 Introduction to Social Work and Social Welfare* 3.0 	
Social Work Core Requirements (7 courses / 21 credits)	
<ul style="list-style-type: none"> • PSY 1100 Human Development Life Span (3.0) 3.0 • PSY 3400 Abnormal Psychology (3.0) 3.0 • BESC 3100 Career Preparation for Behavioral Science Majors (2.0) 2.0 • SW 3500 Social Welfare Policies and Services (3.0) 3.0 • SW 3800 Clinical Interviewing Skills (4.0) 4.0 • SW 4300 Introduction to Counseling and Psychotherapy (3.0) 3.0 • SW 4400 Introduction to Group Psychotherapy (3.0) 3.0 	
Allied Credit Requirement - (2 courses / 6 credits).	6.0
<ul style="list-style-type: none"> • Choose courses totaling 6 credits. All must be 3000 level or above. They must be in Anthropology, Behavioral Science, Psychology, and/or Sociology (ANTH/BESC/PSY/SOC). Only 3 credits may be used from ANTH/PSY/SOC 490R: Independent Studies. 	
Research Requirement - (2 courses / 6 credits)	
<ul style="list-style-type: none"> • PSY 3020 Research Methods for the Behavioral Sciences (3.0) 3.0 	
Complete one of the following (1 course / 3 credits)	3.0
<ul style="list-style-type: none"> • PSY 4020 Survey Research Design (3.0) • PSY 4030 Introduction to Program Evaluation and Grant Writing (3.0) • PSY 4050 Clinical Research (3.0) 	
Senior Capstone Requirement- (1 course / 3 credits)	
<ul style="list-style-type: none"> • SW 4800 Practicum (3.0) 3.0 	
Emphasis Elective Requirements: 12 Credits	
Behavioral science electives (4 courses / 12 credits).	12.0
In addition to the requirements listed above, students must complete 12 credits of approved Behavioral Science electives. Please see the Behavioral Science advisor for a list of approved courses.	
Footnotes:	
<ul style="list-style-type: none"> * 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 courses.	
<ul style="list-style-type: none"> • SOC 3000 Contemporary Social Theory* 3.0 	
Lower Division Sociology Requirement - (2 courses / 6 credits)	
Complete two of the following:	6.0
<ul style="list-style-type: none"> • SOC 1020 Modern Social Problems (3.0) • SOC 1150 Marriage/Relationship Skills (3.0) • 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)	12.0
Choose four upper division (3000 or higher), 3 credit SOC courses (4 courses/ 12 credits)	
Allied Credit Requirement - (2 courses / 6 credits).	6.0
Choose courses totaling 6 credits. All must be 3000 level or above. They must be in Anthropology, Behavioral Science, Psychology, and/or Social Work (ANTH/BESC/PSY/SW). Only 3 credits may be used from ANTH/PSY/SW 490R: Independent Studies.	
Research Requirement- (2 courses / 6 credits)	
<ul style="list-style-type: none"> • SOC 3020 Research Methods for the Behavioral Sciences (3.0) 3.0 	
Complete one of the following (1 course / 3 credits)	3.0
<ul style="list-style-type: none"> • SOC 4020 Survey Research Design (3.0) • SOC 4030 Introduction to Program Evaluation and Grant Writing (3.0) • SOC 4040 Applied Sociology (3.0) 	
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:	
<ul style="list-style-type: none"> * Course must be completed before a student can matriculate. 	
BS 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	
<ul style="list-style-type: none"> • 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
<ul style="list-style-type: none"> • 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
<ul style="list-style-type: none"> • HIST 2700 US History to 1877 (3.0) and HIST 2700 US History Since 1877 (3.0) • HIST 1700 American Civilization (3.0) • HIST 1740 US Economic History (3.0) • POLS 1000 American Heritage (3.0) • POLS 1100 American National Government (3.0) 	
Complete the following:	
<ul style="list-style-type: none"> • 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	
<ul style="list-style-type: none"> • 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	
Matriculation requirement - (5 courses / 16 credits). These courses must have a cumulative GPA or 3.0 or better:	
Complete 3 of the following; must complete the 1010 course that corresponds to their emphasis:	9.0
<ul style="list-style-type: none"> • ANTH 1010 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 the following:	
<ul style="list-style-type: none"> • PSY 3010 Statistics for the Behavioral Sciences* 4.0 or SOC 3010 Statistics for the Behavioral Sciences* (4.0) 	
<ul style="list-style-type: none"> • 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)	3.0
<ul style="list-style-type: none"> • 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) • SOC 3200 Race and Minority Relations (3.0) 	
Emphasis:	
Complete one of the following:	
<ul style="list-style-type: none"> • Anthropology 51.0 • Psychology 51.0 • Social Work 51.0 • Sociology 51.0 	
Elective Requirements: 24 Credits	
<ul style="list-style-type: none"> • Elective Requirement (approximately 24 elective credits) 24.0 	
Graduation Requirements:	

Behavioral Science

- 1 Completion of a minimum of 126 credits, 40 of which must be 3000 level or higher.
- 2 Minimum UVSC GPA of 2.0 upon graduation.
- 3 Residency hours--minimum of 30 credit hours through course attendance at UVSC, 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.

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 1020 Biological Anthropology* (3.0) 3.0
- Lower Division Anthropology Requirement - (1 course / 3 credits)

Complete one of the following: 3.0

- ANTH 1030 World Prehistory (3.0)
- ANTH 1070 Multicultural Societies (3.0)
- ANTH 1800 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) 3.0
- ANTH 4160 History of Anthropological Thought (3.0) 3.0

Complete two 360R courses, must be two different cultures:

- ANTH 360R People and Cultures of the World (3.0) 3.0
- ANTH 360R People and Cultures of the World (3.0) 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) 12.0

Allied Credit Requirement - (2 courses / 6 credits). 6.0

Choose courses totaling 6 credits. All must be 3000 level or above. 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 490R: Independent Studies.

Advanced Research Requirement - (1 course / 3 credits)

- ANTH 4850 Ethnographic Project (3.0) 3.0

Emphasis Elective Requirements: 12 Credits

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

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

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*: 3.0

- 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)

Complete one of the following: 3.0

- 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: 3.0

- PSY 2250 Psychology of Interpersonal Relationships (3.0)
- PSY 2400 Psychology of Personal Effectiveness (3.0)

Upper Division Psychology Requirement - (5 courses / 15 credits)

Content Area (1 course/3 credits). Complete one of the following: 3.0

- 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

Allied Credit Requirement - (2 courses / 6 credits). 6.0

Choose courses totaling 6 credits. All must be 3000 level or above. They must be in Anthropology, Behavioral Science, Social Work, and/or Sociology (ANTH/BESC/PSY/SOC). Only 3 credits may be used from ANTH/SW/SOC 490R: Independent Studies. SW 4800 not allowed.

Research Requirement - (2 courses / 6 credits)

- PSY 3020 Research Methods for the Behavioral Sciences (3.0) 3.0

Complete one of the following (1 course / 3 credits): 3.0

- PSY 4010 Experimental Psychology (3.0)
- PSY 4020 Survey Research Design (3.0)
- PSY 4030 Introduction to Program Evaluation and Grant Writing (3.0)
- PSY 4040 Applied Psychology (3.0)
- PSY 4050 Clinical Research (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.

Emphasis in Social Work 51 Credits

Emphasis Requirements: 39 Credits

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

- SW 1010 Introduction to Social Work and Social Welfare* (3.0) 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 Psychotherapy (3.0)

Allied Credit Requirement - (2 courses / 6 credits). 6.0

Choose courses totaling 6 credits. All must be 3000 level or above. They must be in Anthropology, Behavioral Science, Psychology, and/or Sociology (ANTH/BESC/PSY/SOC). Only 3 credits may be used from ANTH/PSY/SOC 490R: Independent Studies.

Research Requirement - (2 courses / 6 credits)

- PSY 3020 Research Methods for the Behavioral Sciences (3.0)

Complete one of the following (1 course / 3 credits): 3.0

- PSY 4020 Survey Research Design (3.0)
- SW 4030 Introduction to Program Evaluation and Grant Writing (3.0)
- SW 4050 Clinical Research (3.0)

Senior Capstone Requirement - (1 course / 3 credits)

- SW 4800 Practicum (3.0)

Emphasis Elective Requirements: 12 Credits

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

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

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 upper-division required courses.

- SOC 3000 Contemporary Social Theory* (3.0) 3.0
- Lower Division Sociology Requirement - (2 courses / 6 credits)

Complete two of the following: 6.0

- SOC 1020 Modern Social Problems (3.0)
- SOC 1150 Marriage/Relationship Skills (3.0)
- SOC 1200 Sociology of the Family (3.0)
- SOC 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 SOC courses (4 courses / 12 credits) 12.0

Allied Credit Requirement- (2 courses / 6 credits). 6.0

Choose courses totaling 6 credits. All must be 3000 level or above. They must be in Anthropology, Behavioral Science, Psychology, and/or Social Work (ANTH/BESC/PSY/SW). Only 3 credits may be used from ANTH/PSY/SW 490R: Independent Studies.

Research Requirement - (2 courses / 6 credits)

- SOC 3020 Research Methods for the Behavioral Sciences (3.0) 3.0

Complete one of the following (1 course / 3 credits) 3.0

- SOC 4020 Survey Research Design (3.0)
- SOC 4030 Introduction to Program Evaluation and Grant Writing (3.0)
- SOC 4040 Applied Sociology (3.0)

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 1010 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)

- ANTH 4850 Ethnographic Methods (3.0) 3.0

Complete 6 additional credits in Anthropology. Three credits must be upper division. 6.0

Footnotes:

- ** ANTH/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 Psychology of Personal Effectiveness (3.0)

- 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 (PSY). 6.0
- Three credits must be upper division.

Footnotes:

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

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

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

Emphasis in Sociology 19 Credits**Emphasis Requirements: 19 Credits**

Prerequisites:

- SOC 1010 Introduction to Sociology** (3.0)

Complete the following:

- SOC 3000 Contemporary Social Theory 3.0
- SOC 3010 Statistics for the Behavioral Sciences* 4.0
- SOC 3020 Research Methods for the Behavioral Sciences 3.0

Advanced Research (complete one of the following): 3.0

- SOC 4020 Survey Research Design (3.0)
 - SOC 4030 Introduction to Practice Evaluation and Grant Writing (3.0)
 - SOC 4040 Applied Sociology (3.0)
 - Complete 6 additional credits in Sociology (SOC). 6.0
- Credits may be lower or upper division.

Footnotes:

- ** ANTH/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 UVSC Biology program offers a variety of courses that investigate the living world, including courses in biology, 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 UVSC catalog).

CAREER OPPORTUNITIES

Majors in Biology prepare for a wide variety of occupations in education, government, medicine, and research. Students majoring in a UVSC 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

Four 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, 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 UVSC to formulate a plan of study. 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 UVSC 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 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)
- 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

- BIOL 1610 College Biology I 4.0
- and BIOL 1615 College Biology I Laboratory 1.0
- CHEM 1210 Principles of Chemistry I 4.0
- and CHEM 1215 Principles of Chemistry I Laboratory 1.0
- CHEM 1220 Principles of Chemistry II 4.0
- and CHEM 1225 Principles of Chemistry II Laboratory 1.0
- Humanities Distribution 3.0
- Fine Arts Distribution 3.0
- Social/Behavioral Science 3.0

Discipline Core Requirements: 10 Credits

Complete the following:

- BIOL 1620 College Biology II 3.0
- and BIOL 1625 College Biology II Laboratory 1.0
- Minimum of 2 additional biology courses (BIOL, BOT, MICR, or ZOOL prefixes). BIOL 1010 and BIOL 1050 cannot be used to meet this requirement. See Biology Advisor. 6.0

Elective Requirements: 10 Credits

- Same Foreign Language. 10.0

Graduation Requirements:

- 1 Completion of a minimum of 62 semester credits.
- 2 Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
- 3 Residency hours -- minimum of 20 credit hours through course attendance at UVSC.
- 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 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)
- 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

- BIOL 1610 College Biology I 4.0
- and BIOL 1615 College Biology I Laboratory 1.0
- CHEM 1210 Principles of Chemistry I 4.0
- and CHEM 1215 Principles of Chemistry I Laboratory 1.0
- CHEM 1220 Principles of Chemistry II 4.0
- and CHEM 1225 Principles of Chemistry II Laboratory 1.0
- Humanities Distribution 3.0
- Fine Arts Distribution 3.0
- Social/Behavioral Science 3.0

Discipline Core Requirements: 12 Credits

Complete the following:

- BIOL 1620 College Biology II 3.0
- and BIOL 1625 College Biology II Laboratory 1.0
- Minimum of 3 additional biology courses (BIOL, BOT, MICR, or ZOOL prefixes). BIOL 1010 and BIOL 1050 cannot be used to meet this requirement. See Biology Advisor. 8.0

Elective Requirements: 6 Credits

- Complete any course 1000 or higher. See Biology Advisor. 6.0

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 UVSC.
- 4 Completion of GE and specified departmental requirements.

BS in Biology 122 CREDITS

General Education Requirements: 39 Credits

- ENGL 1010 Introduction to Writing 3.0
- ENGL 2020 Intermediate Writing--Science and Technology 3.0

or MATH 1050 College Algebra 4.0

Complete one of the following: 3.0

- HIST 2700 US History to 1877 (3.0)
- 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

- BIOL 1610 College Biology I 4.0
- CHEM 1210 Principles of Chemistry I 4.0
- CHEM 1220 Principles of Chemistry II 4.0
- Humanities Distribution 3.0
- Fine Arts Distribution 3.0
- Social/Behavioral Science 3.0

Discipline Core Requirements: 47 Credits

- BIOL 1615 College Biology I Laboratory 1.0
- BIOL 1620 College Biology II 3.0
- BIOL 1625 College Biology II Laboratory 1.0
- BIOL 3400 Cell Biology 3.0
- BIOL 3500 Genetics 3.0
- BIOL 3600 Biological Chemistry 3.0
- BIOL 3700 General Ecology 3.0
- BIOL 4500 Principles of Evolution 3.0
- BIOL 494R Seminar 1.0
- MATH 2040 Principles of Statistics 4.0
- or MATH 1060 Trigonometry (3.0)
- and MATH 1210 Calculus I (5.0)
- 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 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

Elective Requirements: 36 Credits

- Choose 4 credits from any MICR electives. 4.0
- Choose 3 credits from any BOT electives. 3.0
- Choose 3 credits from any ZOOL electives (except ZOOL 1090). 3.0
- 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 UVSC or satellite sites are required, with 10 hours earned during the last 45 hours.
- 4 A minimum of 40 credits must be upper-division (numbered 3000 or above).
- 5 A minimum of 30 credits must be in the major (BIOL, BOT, MICR, or ZOOL prefixes), 20 of which must be upper-division. A minimum of nine Biology credits must be taken at UVSC.
- 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 GPA of 2.25 in biology courses.
- 8 Complete the appropriate application for graduation form.

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 2020 Intermediate Writing--Science and Technology 3.0

or MATH 1050 College Algebra 4.0

Complete one of the following: 3.0

- HIST 2700 US History to 1877 (3.0)
- 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

- BIOL 1610 College Biology I 4.0
- CHEM 1110 Elementary Chemistry for the Health Sciences 4.0
- CHEM 1120 Elementary Organic Bio-Chemistry 4.0
- Humanities Distribution 3.0
- Fine Arts Distribution 3.0
- HIST 4320 History of Scientific Thought (Social/Behavioral Science) 3.0

Discipline Core Requirements: 84 Credits

- 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
- or MICR 3450 General Microbiology (4.0)
- BIOL 3500 Genetics 3.0
- BIOL 3700 General Ecology 3.0
- BIOL 4200 Teaching Methods in Science 3.0
- BIOL 4500 Principles of Evolution 3.0
- BIOL 494R Seminar 1.0
- BOT 2050 Field Botany 3.0
- or BOT 2100 Flora of Utah (3.0)
- or BOT 4300 Wildland 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 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 4440 Content Area Reading and Writing 3.0
- EDSC 4450 Multicultural Instruction/ESL 2.0
- EDSC 4550 Secondary Curriculum Instruction and Assessment 4.0
- EDSC 4850 Student Teaching--Secondary (4.0) 8.0
- EDSP 3400 Exceptional Students 2.0
- 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 UVSC or satellite sites are required, with 10 hours earned during the last 45 hours.
- 4 A minimum of 40 credits must be upper-division (numbered 3000 or above).
- 5 A minimum of 30 credits must be in the major (BIOL, BOT, MICR, or ZOOL prefixes), courses as follows: minimum of 9 Biology credits must be taken at UVSC and a minimum of 20 Biology credits must be upper-division.
- 6 Complete the appropriate application for graduation form.

Minor in Biology 21 CREDITS

Matriculation Requirements:

- 1 Admitted to a bachelor degree program at UVSC.

Discipline Core Requirements: 21 Credits

Complete the following with a grade of C- or better:

- BIOL 1610 College Biology I 4.0
- BIOL 1615 College Biology I Laboratory 1.0
- BIOL 1620 College Biology II 3.0
- BIOL 1625 College Biology II Laboratory 1.0
- Complete 12 upper-division credits from any BIOL, 12.0 BOT, MICR, or ZOOL courses with a grade of C- or higher in each. BIOL 495R, BIOL 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 4500 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 495R, or BIOL 499R. 11.0

USU/UVSC HORTICULTURE PROGRAM

Coordinator: Michael S. Caron

Office: CE 105

Telephone: 801-863-8042

E-mail: caronmi@uvsc.edu

Website: <http://www.uvsc.edu/conted/horticulture/>

The USU/UVSC Horticulture Program is a partnership between Utah State University and Utah Valley State College. Currently USU offers classes at UVSC for a 1-year certificate and an Associate in Applied Science degree (AAS) in Horticulture (the degrees are awarded by Utah State University). For full program description, see Continuing and Adult Education (p. 206).

Biology

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

- BIOL, Biology
- BOT, Botany
- MICR, Microbiology
- ZOOL, Zoology

Building Construction and Construction Management

Department of Construction Technologies

Department Chair: Steve Fordham

Office: GT 601
Telephone: 801-863-8167

Program Coordinator: Bob Dunn

Office: GT 613a
Telephone: 801-863-8249

Faculty:

Professor

Bob Dunn

Associate Professor

Fred Davis
DeWayne Erdmann
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: Robert Hansen, Financial Fusion Inc.; Scott Kendal, Scott Kendal Construction; Steve Metler, Metler Brother's Construction; Shawn Reeves, Industrial Supply; Monte Mecham, Monte Mecham Construction; Ray Peterson, Anderson Lumber; Eugene Metler, Metler Brother's Construction; Jim Baird, BMC West Building Materials.

School of Technology and Computing

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

CAREER OPPORTUNITIES

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

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

experience.

PROGRAMS

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

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

Certificate in Building Construction

31 CREDITS

Discipline Core Requirements: 31 Credits

- 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 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

- BIT 1010 Building Codes 3.0
- or BIT 1020 Residential Codes (3.0)
- CAW 2310 Cabinetry Math 2.0
- or EGD 1600 Technical Math--Algebra** (3.0)

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 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 UVSC.

Note: **Take EGD 1600 if planning to complete AAS degree.

AAS in Building Construction and Construction Management

65 CREDITS

General Education Requirements: 16 Credits

- BCCM 1150 Building Construction Safety 1.0
- EGD 1600 Technical Math--Algebra 3.0
- ENGL 1010 Introduction to Writing 3.0
- Biology/Physical Science 3.0
- Humanities/Fine Arts 3.0
- Social Science 3.0

Discipline Core Requirements: 49 Credits

- 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 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 1270 Construction Scheduling 2.0
- ACC 2010 Financial Accounting 3.0
- BIT 1010 Building Codes 3.0
- or BIT 1020 Residential Codes (3.0)
- EGD 1040 Computer Aided Drafting--AutoCAD 3.0
- EGD 1090 Introduction to Architecture Drafting 3.0
- EGD 1400 Surveying 4.0
- MGMT 3170 Entrepreneurship 3.0

Graduation Requirements:

- 1 Completion of a minimum of 65 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 UVSC.
- 4 Completion of GE and specified departmental requirements.
- 5 Complete all Technical Specialty courses with a minimum grade of "C-" or better.

AS Pre Major in Building Construction and Construction Management

63 CREDITS

General Education Requirements: 35 Credits

- ENGL 1010 Introduction to Writing 3.0
- ENGL 2010 Intermediate Writing--Humanities/Social Sciences 3.0
- or ENGL 2020 Intermediate Writing--Science and Technology (3.0)

Complete one of the following: 3.0

- MATH 1030 Quantitative Reasoning (recommended for Humanities or Arts majors) (3.0)
- MATH 1040 Introduction to Statistics (recommended for Social Science majors) (3.0)
- MATH 1050 College Algebra (recommended for Business, Education, Science, and Health Professions majors) (4.0)

Complete one of the following: 3.0

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

Complete the following:

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

Distribution Courses

- Biology 3.0
- Physical Science 3.0
- Additional Biology or Physical Science 3.0
- Humanities Distribution 3.0
- Fine Arts Distribution 3.0
- Social/Behavioral Science 3.0

Discipline Core Requirements: 16 Credits

- Choose from BCCM 1000 level or higher 16.0

Elective Requirements: 12 Credits

- Electives (1000 level or higher) 12.0

Graduation Requirements:

- 1 Completion of a minimum of 63 semester credits.
- 2 Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
- 3 Residency hours--minimum of 20 credit hours through course attendance at UVSC.
- 4 Completion of GE and specified departmental requirements.

BS in Technology Management

124 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

45 Credits

Emphasis Requirements: 45 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 1270 Construction Scheduling 2.0
- BCCM 299R VICA 1.0
- BIT 1010 Building Codes 3.0
- or BIT 1020 Residential Codes (3.0)
- EGD 1040 Computer Aided Drafting--AutoCAD 3.0
- EGD 1090 Introduction to Architecture Drafting 3.0
- EGD 1400 Surveying 4.0

Due to the technical nature of the material in BCCM courses, additional reading and math instruction may be required. More information will be given during advisement.

See Course Descriptions section

Building Construction And Construction Management

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 Chairperson: Steve
Fordham**

Office: GT 601
Telephone: 801-863-8167

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

Faculty:

Professor

Bob Dunn

Associate Professor

Fred Davis
DeWayne Erdmann
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: 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.

School of Technology and Computing

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

CAREER OPPORTUNITIES

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

PROGRAMS

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

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

Certificate in Building Inspection Technology

30 CREDITS

Discipline Core Requirements:		30 Credits
• COMM 2110	Interpersonal Communication	3.0
• BIT 1010	Building Codes	3.0
• BIT 1170	Field Lab--Building Codes	1.0
• BIT 1240	Plumbing Codes	3.0
• BIT 1330	Mechanical Codes	3.0
• BIT 1340	Electrical Codes	3.0
• BIT 1380	Ride-Along Lab	1.0
• BCCM 1110	Principles of Residential Framing	3.0
• BCCM 1120	Blueprint Reading	2.0
• BCCM 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
• FSO 2030	Fire Inspector I	3.0

AAS in Building Inspection

Technology

63 CREDITS

General Education Requirements:		16 Credits
• BCCM 1150	Building Construction Safety	1.0
• COMM 1020	Public Speaking	3.0
• COMM 2110	Interpersonal Communication	3.0
• EGDT 1600	Technical Math--Algebra	3.0
or MATH 1050	College Algebra (4.0)	
• 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	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 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--Au- toCAD	3.0
• EGDT 1400	Surveying	4.0
• FSO 2030	Fire Inspector I	3.0
• DGM 2010	Business Computer Proficiency	3.0
• MGMT 1250	Principles of Leadership	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 UVSC.
4. Completion of GE and specified departmental require-
ments.

BS in Technology

Management

124 CREDITS

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

Specialization in Building

Inspection Technology

45 Credits

Emphasis Requirements:		45.0
• 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--Au- toCAD	3.0
• EGDT 1400	Surveying	4.0
• EGDT 1600	Technical Math--Algebra	3.0
• FSO 2030	Fire Inspector I	3.0

*Due to the technical nature of the material
in the BIT 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 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

Business/Marketing Education

Business/ Marketing Education

Business Education Director: Jan Bentley

Office: CS 526g
Telephone: 801-863-6362
Email: bentleja@uvsc.edu

Faculty:

Professor

Cynthia Krebs
Colleen Vawdrey

Associate Professor

Diane Hartman

Emeritus Professor

Kathleen Richards

Emeritus Instructor

Karla 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

School of Technology & Computing

Interim 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 2010 Intermediate Writing--Humanities/Social Sciences 3.0

- or ENGL 2020 Intermediate Writing--Science and Technology (3.0) 4.0
 - MATH 1050 College Algebra 3.0
- Complete one of the following:
- HIST 2700 US History to 1877 (3.0)
 - and HIST 2710 US History since 1877 (3.0)
 - HIST 1700 American Civilization (3.0)
 - HIST 1740 US Economic History (3.0)
 - POLS 1000 American Heritage (3.0)
 - POLS 1100 American National Government (3.0)

- Complete the following:
- 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 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: 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 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 * 4.0
- EDSC 4850 Student Teaching--Secondary (4.0) *, ** 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) 2.0
- 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 2020 Managerial Accounting 3.0
- LEGL 3000 Business Law 3.0
- MGMT 2200 Business Communications 3.0
- ECON 2010 Microeconomics 3.0
- MGMT 3010 Principles of Management 3.0
- MGMT 3600 Principles of Marketing 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 3660 Internet Marketing (3.0)
 - MGMT 3650 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 discipline core and elective courses.
- 3 Residency hours: Minimum of 30 credit hours through course attendance at UVSC, with at least 10 hours earned in the last 45 hours.
- 4 Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.

NOTE: Students 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 * 3.0

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

Basic Business Core 21 Credits

Emphasis Requirements: 21 Credits

- BMED 4250 Methods of Teaching Business and Marketing * 3.0
- ACC 2010 Financial Accounting 3.0
- LEGL 3000 Business Law 3.0
- Complete at least 12 credits from the following courses 12.0
- ECON 2010 Microeconomics (3.0)
- ECON 2020 Macroeconomics (3.0)
- MGMT 2200 Business Communications (3.0)
- MGMT 3010 Principles of Management (3.0)
- MGMT 3100 Principles of Finance (3.0)
- MGMT 3600 Principles of Marketing (3.0)

Footnotes:

- * Courses requiring field experience

Emphasis in Business

Information Technology 20 Credits

Emphasis Requirements: 20Credits

- BMED 4200 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

Emphasis Requirements: 12 Credits

- BMED 4250 Methods of Teaching Business and Marketing 3.0
- MGMT 3650 Selling and Sales Management 3.0
- MGMT 3600 Principles of Marketing 3.0
- MGMT 3660 Internet Marketing 3.0

Emphasis Elective Requirements: 6 Credits

Complete 6 credits from the following courses: 6.0

- 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)
- 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 UVSC.

Discipline Core Requirements: 17 Credits

- DGM 2120 Web Essentials 3.0
- DGM 2230 Exploring Digital Communication Tools (3.0) 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

Elective Requirements: 6 Credits

Select 6 credits from the following:

- DGM 3220 Digital Media Project Management (3.0) 6.0
- 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

Business Management

Department Chair: Douglas G. Miller

Office: WB 203e
Telephone: 863-8859

Faculty:

Professor

Janice Gysi
Nolan Lickey
Douglas Miller
Duane Miller
Peter B. Robinson
Colleen Vawdrey

Associate Professor

Deborah Baird
Greg Berry
Charles Cozzens
Scott Hammond
Larry Hartman
Susan Madsen
Troy Nielson
Eugene Seeley
Karen Whelan-Berry

Assistant Professor

David N. McArthur
Harry Taute
Ramendra Thakur
Letty Workman

Lecturers

Dianne Powell
Marty Val Hill

School of Business

Dean: Stanley Earl Jenne, Ph.D.
Office: WB 128b
Telephone: 801-863-8239

Associate Dean: Janice Gysi
Office: WB 219
Telephone: 801-863-8863

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 School of Business transfer degree is available for students planning to transfer to another college or university in Utah. (See the School of Business section of the catalog for details on the AS degree.)

Certificate in

Business Management 30 CREDITS

Discipline Core Requirements: 24 Credits	
• MGMT 1010	Introduction to Business 3.0
• MGMT 1060	Personal Finance 3.0
• MGMT 2200	Business Communications 3.0
• MGMT 2390	Effective Business Presentations 3.0
• ACC 1150	Fundamentals of Business Math 3.0
• ACC 2010	Financial Accounting 3.0
• DGM 2010	Business Computer Proficiency* 3.0
• ECON 1010	Economics as a Social Science 3.0

Elective Requirements: 6 Credits	
• Choose six credits of business electives from the 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 or above in Business courses. No grade below "C-" in business courses.
- 3 Residency hours: Minimum of 10 credit hours through course attendance at UVSC with at least 12 credits of School of Business 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 Business

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

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: 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:

- 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 (ECON 2020 will fulfill this requirement) 3.0

Discipline Core Requirements: 15 Credits

Choose 15 credits from the following list:

- ACC 2010 Financial Accounting (3.0)
- DGM 2010 Business Computer Proficiency (3.0) *
- LEGL 3000 Business Law (3.0)

- ECON 2020 Macroeconomics (3.0)
- MGMT 2200 Business Communications (3.0)
- MGMT 2390 Effective Business Presentations (3.0)
- MGMT 3010 Principles of Management (3.0)

Elective Requirements: 9 Credits

- Complete any 9 credits numbered 1000 or higher 9.0

Graduation Requirements:

- 1 Completion of a minimum of 60 semester credits.
- 2 Overall grade point average of 2.0 or above with 2.5 GPA in Business courses. No grade below "C-" in Business courses.
- 3 Residency hours: Minimum of 20 credit hours through course attendance at UVSC with at least 12 credits of School of Business courses.
- 4 Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.

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.

AAS in Business Management

65 CREDITS

General Education Requirements: 17 Credits	
• ENGL 1010	Introduction to Writing 3.0
• MAT 1010	Intermediate Algebra 4.0
• Any approved Humanities, Fine Arts, or Foreign Language	3.0

- ECON 1010 Economics as a Social Science 3.0
- Any approved Biology of Physical Science course 3.0
- Any approved Physical Education, Health, Safety or Environment course 1.0

Discipline Core Requirements: 30 Credits

- ACC 2010 Financial Accounting 3.0
- ACC 2020 Managerial Accounting 3.0
- MGMT 1010 Introduction to Business 3.0
- DGM 2010 Business Computer Proficiency or Business Computer Proficiency Exam * 3.0
- MGMT 1060 Personal Finance 3.0
- MGMT 2200 Business Communications 3.0
- MGMT 2390 Effective Business Presentations 3.0
- MGMT 3010 Principles of Management 3.0
- MGMT 3600 Principles of Marketing 3.0
- LEGL 3000 Business Law 3.0

Elective Requirements: 18 Credits

- Any ACC, DGM, CJ, HM, INFO, MGMT, ECON or LEGL course 1000 level or higher ** 9.0
- General Education Electives (select from Distribution List): 9.0

Graduation Requirements:

- 1 Completion of a minimum of 65 semester credits.
- 2 Overall grade point average of 2.0 (C) or above with 2.5 required for all School of Business courses. No grade below C- in required courses.
- 3 Residency hours: Minimum of 20 credit hours through course attendance at UVSC with at least 12 credits of 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 201A-D 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 elective; see advisor for further recommendations.

BS in Business

Management 123-124 CREDITS

General Education Requirements: 36 Credits

- ENGL 1010 Introduction to Writing 3.0
- 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:

Business Management

• 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
• 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 **	
or DGM 2010 Business Computer Proficiency	3.0
• MATH 1100 Introduction to Calculus	4.0
• MGMT 2200 Business Communications *	3.0
• ECON 2010 Microeconomics	3.0
• MGMT 2340 Business Statistics I	3.0
• MGMT 2390 Effective Business Presentations	3.0
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
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 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 UVSC, with at least 10 hours earned in the last 45 hours.	
4 Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.	
NOTE: Students will be limited to 15 hours of upper-division credit until MATRICULATION is completed.	
Footnotes:	
** Students will be required to complete the Business Computer Proficiency exam with a score of 80 percent or higher 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.	
Emphasis in Entrepreneurship 27 Credits	
Emphasis Requirements:	9 Credits
• MGMT 3170 Entrepreneurship	3.0
• MGMT 4300 Entrepreneurship Business Planning	3.0
• MGMT 4450 Entrepreneurship Enterprise Formation	3.0
Emphasis Elective Requirements:	18 Credits
Complete 18 credits from the following courses:	18.0
• MGMT 3150 Financial Management	
• MGMT 3430 Human Resource Management	
• MGMT 3650 Selling and Sales Management	
• MGMT 3670 Advertising and Promotion	
• MGMT 4200 Opportunity Identification in Entrepreneurship	
• MGMT 4210 Entrepreneurship Personal Development	
• MGMT 4400 New Venture Financing	
Emphasis in Finance and Banking 27 Credits	
Emphasis Requirements:	15 Credits

• MGMT 3300 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:	12.0
• ECON 4150 Public Finance	
• MGMT 4180 International Finance Management	
• MGMT 4400 New Venture Financing	
• Any Accounting Course Numbered 3010 or higher	
Emphasis in General Business 27 Credits	
Emphasis Requirements:	27 Credits
• MGMT 3300 Survey of International Business	3.0
• MGMT 3430 Human Resource Management	3.0
• Complete 21 credits of pre-approved upper-division courses. See advisor for list of courses.	21.0
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.	15.0
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:	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)	
Minor in Business Management 23 CREDITS	
Matriculation Requirements:	
1 Admitted to a bachelor degree program at UVSC.	
Discipline Core Requirements:	20 Credits
Business Core Courses:	
• ACC 3000 Financial Managerial and Cost Accounting Concepts	4.0
• INFO 3120 Principles of Information Systems--A Managerial Approach	3.0
• LEGL 3000 Business Law	3.0
• MGMT 2200 Business Communications	3.0
• ECON 2020 Macroeconomics	3.0
• MGMT 3010 Principles of Management	3.0
• MGMT 495R Executive Lecture Series	1.0
or MGMT 493R Entrepreneurship Lecture Series (1.0)	
Elective Requirements:	3 Credits
Choose one of the following:	3.0
• MGMT 3100 Principles of Finance* (3.0)	
• MGMT 3300 Survey of International Business (3.0)	
• MGMT 3430 Human Resource Management (3.0)	
• MGMT 3600 Principles of Marketing (3.0)	
Graduation Requirements:	
1 Overall grade point average of 2.5 in all School of Business courses and no grade lower than a C- in business courses.	
2 Completion of GE and specified departmental requirements.	
Note: Students are responsible for completing all prerequisite courses. Not available to Business Management majors.	
Footnote:	

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

BA/BS in

Integrated Studies 123 CREDITS

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

Emphasis in Leadership 18 Credits

Emphasis Requirements: 18 Credits

Leadership (Upper Division) Emphasis

Prerequisites:

- ACC 3000 Financial Managerial and Cost Accounting Concepts (4.0)

- or ACC 2010 Financial Accounting (3.0)
- and ACC 2020 Managerial Accounting (3.0)

Complete the following:

- INFO 3120 Principles of Information Systems--A Managerial Approach 3.0
- ECON 2020 Macroeconomics 3.0
- MGMT 3000 Organizational Behavior 3.0
- MGMT 3010 Principles of Management 3.0
- MGMT 3500 Leadership Process 3.0
- MGMT 3600 Principles of Marketing 3.0

Note: A minimum of 2.5 GPA in all School of Business course, and no grade lower than a C-, required for graduation.

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: 6.0
- 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 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

Cabinetry and Architectural Woodwork

Cabinetry and Architectural Woodwork

Department of Construction Technologies

Department Chair: Steve Fordham

Office: GT 601
Telephone: 801-863-8167

Program Coordinator: Kelly Baird

Office: GT 629
Telephone: 801-863-8860
Shop: GT 625

Faculty:

Associate Professor
Kelly Baird
Eldon Greenhalgh

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

Advisor: Amy Ostler
Telephone: 801-863-8138

Advisory Committee: Eric Fetzer, Fetzer's, Inc.; Jon Fondell, Fondell Woodworks; Ross Ford, Highland Woodworks; Lon Purcell, Cottonwood Mill & Cabinet; Duane Lundel, American Stores Properties Mill; Russell Ross, Riverhouse Design.

School of Technology and Computing

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

CAREER OPPORTUNITIES

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

PROGRAMS

Students may receive a One-Year Certificate, a Diploma, an Associate in

Applied Science degree, an Associate in Science degree, or a Bachelor of Science Degree in Technology Management.

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

Certificate in Cabinetry and Architectural Woodwork 29 CREDITS

Discipline Core Requirements: 29 Credits	
• ACC 1150	Fundamentals of Business Math 3.0
• CAW 1130	Residential Cabinetry 4.0
• CAW 1140	Millworking and Safety Shop I 5.0
• CAW 1150	Design Drafting and Billing 3.0
• CAW 1170	Finish Technology 2.0
• CAW 1210	Cabinetmaking Materials and Hardware 1.0
• CAW 1240	Millworking Shop II 5.0
• CAW 2310	Cabinetry Math 2.0
• CAW 299R	Skills USA 1.0
• EGDT 1040	Computer Aided Drafting--AutoCAD 3.0

Graduation Requirements:	
1	Completion of a minimum of 29 semester credits.
2	Overall grade point average of 2.0 (C) or above.
3	Residency hours -- minimum of 10 credit hours through course attendance at UVSC.
4	Complete all courses with a minimum grade of "C-" or better.

Diploma in Cabinetry and Architectural Woodwork 51 CREDITS

Discipline Core Requirements: 51 Credits	
• CAW 1130	Residential Cabinetry 4.0
• CAW 1140	Millworking and Safety Shop I 5.0
• CAW 1150	Design Drafting and Billing 3.0
• CAW 1170	Finish Technology 2.0
• CAW 1210	Cabinetmaking Materials and Hardware 1.0
• CAW 1240	Millworking Shop II 5.0
• CAW 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 2430	Commercial Cabinetry Technology 4.0
• CAW 2440	Millworking Shop IV 5.0
• CAW 2450	Machine Maintenance and Upkeep 2.0
• COMM 2110	Interpersonal Communication 3.0
• EGDT 1040	Computer Aided Drafting--AutoCAD 3.0

The following course is recommended, but optional:
• CAW 299R Skills USA (1.0)

Graduation Requirements:	
1	Completion of a minimum of 51 or more semester credits.
2	Overall grade point average of 2.0 (C) or above.
3	Residency hours--minimum of 20 credit hours through course attendance at UVSC.
4	Complete all Technical Specialty courses with a minimum grade of "C-" or better.

AAS in Cabinetry and Architectural Woodwork 66 CREDITS

General Education Requirements: 16 Credits	
ENGLISH	
• ENGL 1010	Introduction to Writing 3.0
or ENGL 1060	Career Writing for Technology (3.0)
MATHEMATICS	
• ACC 1150	Fundamentals of Business Math 3.0
or ACC 3000	Financial Managerial and Cost Accounting Concepts (4.0)
HUMANITIES/FINE ARTS/FOREIGN LANGUAGE	
• Any approved Humanities, Fine Arts, or Foreign Language Distribution Course	3.0
SOCIAL AND BEHAVIORAL SCIENCE	
• Any approved Social or Behavioral Science Distribution course	3.0
BIOLOGY OR PHYSICAL SCIENCE	
• Any approved Biology or Physical Science Distribution Course	3.0
PHYSICAL EDUCATION/HEALTH/SAFETY OR ENVIRONMENT	
• Any approved Physical Education, Health, Safety or Environment Course	1.0
Discipline Core Requirements: 50 Credits	
• CAW 1130	Residential Cabinetry 4.0

• CAW 1140	Millworking and Safety Shop I	5.0
• CAW 1150	Design Drafting and Billing	3.0
• CAW 1170	Finish Technology	2.0
• CAW 1210	Cabinetmaking Materials and Hardware	1.0
• CAW 1240	Millworking Shop II	5.0
• CAW 1250	Drafting and Computer Applications 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 2430	Commercial Cabinetry Technology	4.0
• CAW 2440	Millworking Shop IV	5.0
• CAW 2450	Machine Maintenance and Upkeep	2.0
• CAW 299R	Skills USA (1 credit, repeat 2 times) (1.0)	2.0
• EGDT 1040	Computer Aided Drafting--AutoCAD	3.0

Graduation Requirements:	
1	Completion of a minimum of 66 semester credits.
2	Overall grade point average of 2.0 (C) or above.
3	Residency hours--minimum of 20 credit hours through course attendance at UVSC.
4	Completion of GE and specified departmental requirements.
5	Complete all core requirements with a minimum grade of "C-" or better.

AS Pre Major in Cabinetry and Architectural Woodwork 63 CREDITS

General Education Requirements: 35 Credits	
• ENGL 1010	Introduction to Writing 3.0
• ENGL 2010	Intermediate Writing--Humanities/Social Sciences 3.0
or ENGL 2020	Intermediate Writing--Science and Technology (3.0)
Complete one of the following:	3.0
• MATH 1030	Quantitative Reasoning (recommended for Humanities or Arts majors) (3.0)
• MATH 1040	Introduction to Statistics (recommended for Social Science majors) (3.0)
• MATH 1050	College Algebra (recommended for Business, Education, Science, and Health Professions majors) (4.0)
Complete one of the following:	3.0
• HIST 2700	US History to 1877 (3.0)
and HIST 2710	US History since 1877 (3.0)
• HIST 1700	American Civilization (3.0)
• HIST 1740	US Economic History (3.0)
• POLS 1000	American Heritage (3.0)
• POLS 1100	American National Government (3.0)

Complete one of the following:	3.0
• PHIL 2050	Ethics and Values 3.0
• HLTH 1100	Personal Health and Wellness (2.0)
or PES 1097	Fitness for Life 2.0
Distribution Courses	
• Biology	3.0
• Physical Science	3.0
• Additional Biology or Physical Science	3.0
• Humanities Distribution	3.0
• Fine Arts Distribution	3.0
• Social/Behavioral Science	3.0

Discipline Core Requirements: 16 Credits	
• Choose from CAW courses 1000 level or higher	16.0
Elective Requirements: 12 Credits	
• Choose from courses 1000 level or higher	12.0

Graduation Requirements:	
1	Completion of a minimum of 63 semester credits
2	Overall grade point average of 2.0 (C) or above.
3	Residency hours--minimum of 20 credit hours through course attendance at UVSC.
4	Completion of GE and specified departmental requirements.

BS in Technology Management 124 CREDITS

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

Specialization in Cabinetry and Architectural Woodwork 45 Credits

Emphasis Requirements: 45 Credits	
Complete 45 credits from the following:	45.0
• CAW 1130	Residential Cabinetry (4.0)
• CAW 1140	Millworking and Safety Shop I (5.0)
• CAW 1150	Design Drafting and Billing (3.0)

Cabinetry and Architectural Woodwork

- CAW 1170 Finish Technology (2.0)
- CAW 1210 Cabinetmaking Materials and Hardware (1.0)
- CAW 1240 Millworking Shop II (5.0)
- CAW 1250 Drafting and Computer Applications for Cabinetmakers (4.0)
- CAW 2300 Counter-top Technology (3.0)
- CAW 2310 Cabinetry Math (2.0)
- CAW 2340 Millworking Shop III (5.0)
- CAW 2440 Millworking Shop IV (5.0)
- CAW 2450 Machine Maintenance and Up-keep (2.0)
- CAW 2430 Commercial Cabinetry Technology (4.0)
- CAW 299R Skills USA (1.0)
- EGD 1040 Computer Aided Drafting--Auto-CAD (3.0)

Due to the technical nature of the material in the CAW 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 and Refrigeration Technology
- BCCM, Building Construction and Construction Management
- BIT, Building Inspection Technology
- CAW, Cabinetry and Architectural Woodworking
- FAC, Facilities Management
- LINE, Lineman Technology
- WELD, Welding Technology

Chemistry

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Gamini Gunawardena
Assistant Professor
Calvin Bond
Fern Caka
Matthew Horn
Craig Thulin
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Staff:

Administrative Assistant
Kellie D. Hancock
Lab Facilities Manager
Tom Strangfeld
Lab Manager/Instructor
Bill Vorkink
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Fran Billington

School of Science and Health

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Assistant Dean: Lori Barber
Office: BA 205c
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Assistant Dean: Louise Illes
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 for graduates 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
- HLTH 1100 Personal Health and Wellness (2.0)
- or PES 1097 Fitness for Life 2.0

Distribution Courses:

- Biology 3.0
- or BIOL 1610 College Biology I (Required for Forensic Chemistry) (4.0)

- CHEM 1210 Principles of Chemistry I 4.0
- CHEM 1215 Principles of Chemistry I Laboratory 1.0

- CHEM 1220 Principles of Chemistry II 4.0
- CHEM 1225 Principles of Chemistry II Laboratory 1.0

- Fine Arts 3.0

Complete one of the following sets of distribution courses, dependant on your choice of emphasis: 6.0

For the Professional Chemistry Emphasis:

- Humanities
- Social/Behavioral Science

For the Forensic Chemistry Emphasis:

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

Discipline Core Requirements: 41 Credits

- CHEM 2310 Organic Chemistry I 4.0
- CHEM 2315 Organic Chemistry I Laboratory 1.0
- CHEM 2320 Organic Chemistry II 4.0
- CHEM 2325 Organic Chemistry II Laboratory 1.0
- CHEM 3000 Analytical Chemistry 4.0
- CHEM 3100 Inorganic Chemistry 4.0
- CHEM 3600 Biological Chemistry 3.0
- CHEM 3605 Biochemistry Laboratory 1.0
- CHEM 4000 Instrumental Analysis 2.0
- CHEM 4005 Instrumental Analysis Laboratory 2.0
- MATH 1220 Calculus II 5.0
- PHYS 2210 Physics for Scientists and Engineers I 4.0
- PHYS 2220 Physics for Scientists and Engineers II 4.0
- PHYS 2215 Physics for Scientists and Engineers I Lab 1.0
- PHYS 2225 Physics for Scientists and Engineers II Lab 1.0

Emphasis:

Complete one of the following:

- Forensic Chemistry 41.0
- Professional Chemistry 42.0

Graduation Requirements:

1. Completion of a minimum of 123 semester credits with a minimum of 40 upper-division credits.
2. Overall grade point average of 2.0 (C) or above with a minimum of 2.25 in Major.
3. Residency hours -- minimum of 30 credit hours through course attendance at UVSC, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. A minimum of 54 credit hours must be in the major with a minimum of 20 credits taken at UVSC. A minimum of 28 chemistry credits must be upper-division.
6. Complete all chemistry and physics courses with a minimum grade of "C-" or better.

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 Chemistry 3.0
- MATH 2040 Principles of Statistics 4.0

Forensic Requirements:

- CHEM 482R Chemistry Internship 3.0
- CJ 1330 Criminal Law 3.0
- CJ 1340 Criminal Investigations 3.0
- CJ 1350 Introduction to Forensic Science 3.0
- CJ 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)
- MICR 2060 Microbiology for Health Professions (4.0)
- ZOOL 2320 Human Anatomy (4.0)
- ZOOL 2420 Human Physiology (4.0)

Emphasis Elective Requirements: 9 Credits

Complete 9 credits from the following: 9.0

- BIOL 3400 Cell Biology (3.0)
- BIOL 3500 Genetics (3.0)
- BIOL 3550 Molecular Biology (3.0)
- BIOL 4450 Immunology (3.0)
- MICR 3450 General Microbiology (4.0)
- GEO 3400 Forensic Geology (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 3550 Forensic Trace Analysis II (3.0)
- CJ 3700 Fingerprint Examination I (3.0)
- CJ 3720 Fingerprint Examination II (3.0)
- CJ 3740 Fingerprint 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 Chemist (3.0)
- Or other Courses in consultation with the Department Academic Advisor

Emphasis in Professional**Chemistry 42 Credits****Emphasis Requirements: 33 Credits**

- CHEM 3060 Physical Chemistry I 4.0
- CHEM 3070 Physical Chemistry II 4.0
- CHEM 3115 Physical and Inorganic Chemistry Laboratory 1.0
- MATH 2210 Calculus III 3.0
- MATH 2270 Linear Algebra 3.0
- MATH 2280 Ordinary Differential Equations 3.0
- MATH 3400 Partial Differential Equations 3.0

Complete 12 credits of upper-division CHEM courses not previously taken, with the exception of CHEM

3090. With departmental approval, up to 6 credits of upper-division courses in BIOL, GEO, MATH, or PHYS may be substituted.

Emphasis Elective Requirements: 9 Credits

- Any courses 1000 or higher 9.0

BS 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 emphases upon matriculation.

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)
- and HIST 2710 US History since 1877 (3.0)
- HIST 1740 US Economic History (3.0)
- POLS 1000 American Heritage (3.0)
- POLS 1100 American National Government (3.0)

Complete the following:

- PHIL 2050 Ethics and Values 3.0
- HLTH 1100 Personal Health and Wellness (2.0)
- or 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
- Humanities 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 4200 Teaching Methods in Science 3.0
- HIST 4320 History of Scientific Thought 3.0
- MATH 1220 Calculus II 5.0
- MATH 2210 Calculus III 3.0
- PHYS 2210 Physics for Scientists and Engineers I 4.0
- PHYS 2215 Physics for Scientists and Engineers I Lab 1.0
- PHYS 2220 Physics for Scientists and Engineers II 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 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 4440 Content Area Reading and Writing 3.0
- EDSC 4450 Multicultural Instruction/ESL 2.0
- EDSC 4550 Secondary Curriculum Instruction and Assessment 4.0
- EDSC 4850 Student Teaching--Secondary (4.0) 8.0
- EDSP 3400 Exceptional Students 2.0

Complete one of the following sets: 11.0

CHEMISTRY:

- CHEM 3060 Physical Chemistry I (4.0)
- CHEM 3100 Inorganic Chemistry (4.0)
- PHYS 3050 Astrophysics (3.0)

PHYSICS:

- PHYS 3210 Introduction to Experimental Physics I (2.0)
- PHYS 490R Seminar* (0.5)

Complete 9 credits from the following:

- 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 UVSC, 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 UVSC. 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.

Footnotes:

- * Must be repeated two times.

Minor in Chemistry 27 CREDITS**Matriculation Requirements:**

- 1 Admitted to a bachelor degree program at UVSC.

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

Graduation Requirements:

- 1 Complete all courses with a minimum grade of "C-" or better.

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

- CHEM, Chemistry

College Success Studies

Department of College Success Studies

Department Chair: Denise Hodgkin

Office: LC 208
Telephone: 801-863-8277

Assistant Chair: Marni Sanft

Office: LC 211
Telephone: 801-863-6183

Academic Director, Center for Student Success: Michael A. Jensen

Office: LC 210
Telephone: 801-863-7090

Assistant Director, UV Mentors: Marinda Ashman

Office: TBA
Telephone: 801-863-7227

Faculty:

Professor

Elaine C. Carter

Associate Professor

Eldon L. McMurray
Stacy D. Waddoups

Assistant Professor

Marinda Ashman
Michael A. Jensen
Denise Hodgkin
Marni Sanft

Advisor, Career and Academic
Counseling Office:
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Department Assistant:
Cindy Behunin
Office: LA 207a
Telephone: 801-863-8834

School of General Academics

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: Lisa Lambert
Office: LA 210d
Telephone: 801-863-8741

Administrative Assistant: Frankie
Jensen
Office: LA 210
Telephone: 801-863-6312

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 UVSC 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
Don Wilson
Cris Boggess
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 Representative.

School of Technology and Computing

Interim 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 30 CREDITS

Discipline Core Requirements: 30 Credits

Complete the following:

- AUT 1260 Tech Math for Mechanics 3.0
- CLSS 1000 Student Success (3.0)
- or ENGL 106A Career Writing for Technology--A 2.0
- CRT 1110 Surface Preparation 4.0
- CRT 1120 Nonstructural Repair 4.0
- CRT 1130 Overall Refinishing and Problem Solving 4.0

- CRT 1210 Blending Tinting and Detailing 4.0
- CRT 1220 Panel Replacement and Adjustment 4.0
- CRT 1230 Welding and Cutting 4.0
- Social/Behavioral Science 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 54 CREDITS

Discipline Core Requirements: 30 Credits

Complete the following:

- AUT 1260 Tech Math for Mechanics 3.0
- CLSS 1000 Student Success (3.0)
- or ENGL 106A Career Writing for Technology--A 2.0
- CRT 1110 Surface Preparation 4.0
- CRT 1120 Nonstructural Repair 4.0
- CRT 1130 Overall Refinishing and Problem Solving 4.0

- CRT 1210 Blending Tinting and Detailing 4.0
- CRT 1220 Panel Replacement and Adjustment 4.0
- CRT 1230 Welding and Cutting 4.0
- Social/Behavioral Science 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 24 Credits

Emphasis Requirements: 24 Credits

- CRT 2310 Collision Damage Reporting 4.0
- CRT 2320 Structural Damage Analysis 4.0
- CRT 2330 Structural Repair 4.0
- CRT 2410 Full and Partial Panel Replacement 4.0
- CRT 2420 Plastic Repair 4.0
- CRT 2430 Mechanical and Electrical Repair 4.0

Emphasis in Street Rod 24 Credits

Emphasis Requirements: 24 Credits

- CRT 2510 Custom Welding 4.0
- CRT 2520 Customizing 4.0
- CRT 2530 Panel Fabrication 4.0
- CRT 2610 Top Chopping Sectioning and Channeling 4.0
- CRT 2620 Frames 4.0
- CRT 2630 Detailing and Custom Painting 4.0

AAS in Collision

Repair Technology 64 CREDITS

General Education Requirements: 16 Credits

- ENGL 1060 Career Writing for Technology (or higher) 3.0
- AUT 1260 Tech Math for Mechanics 3.0
- Any approved Humanities, Fine Arts, or Foreign Language Distribution Course 3.0
- Any approved Behavioral Science, Social, or Political Science Distribution Course 3.0

Collision Repair Technology

- Any approved Biology or Physical Science Distribution Course 3.0
- Any approved Physical Education, Health, Safety or Environment Course 1.0

Discipline Core Requirements: 24 Credits

Complete the following:

- CRT 1110 Surface Preparation 4.0
- CRT 1120 Nonstructural Repair 4.0
- CRT 1130 Overall Refinishing and Problem Solving 4.0

- CRT 1210 Blending Tinting and Detailing 4.0
- CRT 1220 Panel Replacement and Adjustment 4.0
- CRT 1230 Welding and Cutting 4.0
- 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 Completion of a minimum of 64 semester credits
- 2 Overall gradepoint 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 UVSC.
- 4 Completion of GE and specified departmental requirements.

Footnotes:

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

Emphasis in Collision Repair 24 Credits

Emphasis Requirements: 24 Credits

- CRT 2310 Collision Damage Reporting 4.0
- CRT 2320 Structural Damage Analysis 4.0
- CRT 2330 Structural Repair 4.0
- CRT 2410 Full and Partial Panel Replacement 4.0
- CRT 2420 Plastic Repair 4.0
- CRT 2430 Mechanical and Electrical Repair 4.0

Emphasis in Street Rod 24 Credits

Emphasis Requirements: 24 Credits

Complete the following:

- CRT 2510 Custom Welding 4.0
- CRT 2520 Customizing 4.0
- CRT 2530 Panel Fabrication 4.0
- CRT 2610 Top Chopping Sectioning and Channeling 4.0
- CRT 2620 Frames 4.0
- CRT 2630 Detailing and Custom Painting 4.0

BS in Technology

Management 124 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

- CRT 1120 Nonstructural Repair 4.0
- CRT 1130 Overall Refinishing and Problem Solving 4.0
- CRT 1210 Blending Tinting and Detailing 4.0
- CRT 1220 Panel Replacement and Adjustment 4.0
- CRT 1230 Welding and Cutting 4.0
- CRT 2310 Collision Damage Reporting 4.0
- CRT 2320 Structural Damage Analysis 4.0
- CRT 2330 Structural Repair 4.0
- CRT 2410 Full and Partial Panel Replacement 4.0
- CRT 2420 Plastic Repair 4.0
- CRT 2430 Mechanical and Electrical Repair 4.0
- CRT 299R VICA 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

Collision Repair Technology

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

Committee on Interdisciplinary Studies

Committee on Interdisciplinary Studies

Committee Chair: Jans. B. Wager

Office: LA 114j
Telephone: 801-863-8340
E-mail: wagherja@uvsc.edu

Faculty Committee:

Professor

Scott Abbott
Kathie Debenham

Associate Professor

Brian Birch
Robert Cousins
Bryan Eldredge
Philip Gordon
David R. Keller
David Knowlton
Jans B. Wager

Assistant Professor

John Goshert
Michael Minch
Shannon Mussett
Michael Shaw
Jeff Torlina
David Wilson

Honors Program Director

Joy Ross

School of General Academics

Dean: Bonnie Henrie
Office: LA 210
Telephone: 801-863-8311

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 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 developing and interstitial fields that often does not fit easily into the standard demarcations of academic departments. While the disciplines have their role to play, future scholarship will depend in part on shifting configurations of resources. 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

Committee Chair: David R. Wilson

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Email: wilsondr@uvsc.edu

Faculty Committee:

Professor

Laurelyn Whitt

Associate Professor

David Knowlton
Jan Wellington

Assistant Professor

David R. Wilson

Lecturer

Ken Sekaquaptewa

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. Graduates will have received the basic knowledge and analytical skills to enable them to pursue graduate degrees in fields related to American Indian Studies. The American Indian Studies minor will emphasize the traditional acquisition of knowledge and skills that apply to American Indian communities, a vital sense of service to these communities, and an enthusiastic pursuit of what these communities can contribute to the academy in knowledge, methods, and ethics.

Minor in American Indian Studies

18 CREDITS

Matriculation Requirements:

1. Admitted to a bachelor degree program at UVSC.

Discipline Core Requirements: 18 Credits

Complete four of the following: 12.0

- ANTH 1800 Introduction to American Indian Studies (3.0)
- or HIST 1800 Introduction to American Indian Studies (3.0)
- ANTH 360R People and Cultures of the World (American Indians) (3.0)
- ENGL 373R Literature of Cultures and Places (Native American) (3.0)
- HIST 3810 American Indians to 1815 (3.0)
- HIST 3830 The Contest for Territory—American Indians and the US 1815-1891 (3.0)
- HIST 3850 The Struggle for Self-determination—American Indians 1891-present (3.0)
- HIST 4600 Contemporary American Indian Political and Social Issues (3.0)
- HIST 420R Issues and Topics in Global History (European First Contacts with Indigenous Peoples) (3.0)
- POLS 3590 American Indian Law and Tribal Government (3.0)

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 HLTH 3150 Culture Ecology and Health (3.0)
- ANTH 3300 Development and Rural Societies (3.0)
- ANTH 3400 Myth Magic and Religion (3.0)
- ANTH 3550 Memory and History (3.0)
- ANTH 3450 Shamanism and Indigenous Religion (3.0)
- ANTH 3700 Psychological Anthropology (3.0)
- or PSY 3700 Psychological Anthropology (3.0)
- ANTH 3720 Applied Anthropology (3.0)
- ANTH 4010 Qualitative Research Design (3.0)
- or SOC 4010 Qualitative Research Design (3.0)
- ANTH 4150 Contemporary Theory and Debates (3.0)
- ANTH 4160 History of Anthropological Thought (3.0)
- ANTH 4180 Power Economy and People (3.0)
- ANTH 475R Current Topics in Anthropology (3.0)
- ARCH 1100 Introduction to Archaeology (3.0)
- HLTH 2600 Drugs Behavior and Society (3.0)
- HLTH 3200 Principles of Community Health (3.0)
- HLTH 4150 Community Health Program Development and Evaluation (3.0)
- HLTH 4600 Research Methods for Community Health (3.0)
- SOC 3000 Contemporary Social Theory (3.0)
- SOC 3010 Statistics for the Behavioral Sciences (4.0)
- or PSY 3010 Statistics for the Behavioral Sciences (4.0)
- SOC 3020 Research Methods for the Behavioral Sciences (3.0)
- or PSY 3020 Research Methods for the Behavioral Sciences (3.0)
- SOC 3100 Population Society and Demography (3.0)
- SOC 3200 Race and Minority Relations (3.0)
- SOC 3700 Social Inequality (3.0)
- SOC 4020 Survey Research Design (3.0)
- or PSY 4020 Survey Research Design (3.0)
- SOC 4030 Introduction to Program Evaluation and Grant Writing (3.0)
- or PSY 4030 Introduction to Program Evaluation and Grant Writing (3.0)

Graduation Requirements:

1. Overall GPA of 2.0 or above.
2. Residency hours--minimum of 12 credits counting towards the minor through attendance at UVSC.

AMERICAN STUDIES

Committee Chair: Robert Cousins

Office: LA 126e
Telephone: 801-863-8571

Faculty Committee:

Professor

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

Committee on Interdisciplinary Studies

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 UVSC.

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) 6.0
- 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 UVSC.

DEAF STUDIES

Committee Chair: Bryan Eldredge

Office: LA 003j
Telephone: 801-863-8529 voice/
videophone

Committee Member:

Associate Professor
Minnie Mae Wilding-Diaz

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 UVSC
- 2 Completion of ASL 2020 or equivalent

Discipline Core Requirements: 21 Credits

Complete the following: 9.0

- ASL 3050 Advanced American Sign Language (3.0)
- ASL 3530 Deaf Culture from 1970 (3.0)
- ASL 3610 ASL Literature (3.0)

Complete 3 credits from the following: 3.0

- ASL 3510 Deaf Culture to 1817 (3.0)
- or ASL 3520 Deaf Culture 1817 to 1970 (3.0)
- or ASL 4410 ASL Linguistics (3.0)

Complete 9 credits from the following: 9.0

- ASL 3310 Interpreting I (3.0)
- ASL 3330 Cross-Cultural Communication and Interpreting (3.0)
- ASL 3350 Consecutive Interpreting (3.0)
- ASL 3360 Simultaneous Interpreting (3.0)
- ASL 3510 Deaf Culture to 1817 (3.0)
- ASL 3520 Deaf Culture 1817 to 1970 (3.0)
- ASL 3800 ASL Deaf Culture Studies (3.0)
- ASL 4410 ASL Linguistics (3.0)
- LANG 3000 Language and Culture (3.0)
- or ANTH 3000 Language and Culture (3.0)

Graduation Requirements:

- 1 Overall GPA of 2.0 or above.
- 2 Residency hours--minimum of 12 credits counting towards the minor through attendance at UVSC.

ENVIRONMENTAL STUDIES

Committee Chair: David R. Keller

Office: LA 109b
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Website: www.environmentalstudies.cc
Email: enst@uvsc.edu

Faculty Committee:

Professor

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Daniel Horns
Faridul Islam
David R. Keller
Jan Wellington

Assistant Professor

Joel Bradford
Bill Dinklage
Scott Hatch
Michael Minch
Jon Moore
Daniel A. Stephen
Jeff Torlina

Environmental Studies is premised on the idea that nature and culture are inextricably linked. Nature provides the context in which "culture" is constructed, and culture acts as a lens through which humans define "nature."

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.

Minor in

Environmental Studies 18 CREDITS

Matriculation Requirements:

- 1 Completion of 30 hours of credit
- 2 Admitted to a bachelor degree program at UVSC.

Discipline Core Requirements: 9 Credits

- ENST 3000 Introduction to Environmental Studies 3.0
- ANTH 3150 Culture Ecology and Health 3.0
- or HLTH 3150 Culture Ecology and Health (3.0)
- • METO 3100 Earth Systems 3.0

Elective Requirements: 9 Credits

Complete 3 of the following courses of 3 different prefixes. Not all 3 courses may come from the same School: 9.0

School:

School of Humanities, Arts, and Social Sciences

- COMM 3130 The Culture of Nature and Technology (3.0)
- GEOG 3010 Economic Geography (3.0)
- HIST 3260 History of Utah (3.0)
- HIST 3420 History of Technology (3.0)
- HIST 3800 Environmental History of the United States (3.0)
- or GEOG 3800 Environmental History of the United States (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

School of Science and Health

- BIOL 1010 General Biology (3.0)
- BIOL 2500 Environmental Biology (3.0)
- BIOL 3800 Conservation Biology (3.0)
- BIOL 4500 Principles of Evolution (3.0)
- ENVT 3280 Environmental Law (3.0)
- ENVT 3850 Environmental Policy (3.0)
- GEO 3210 Environmental Geology (4.0)
- Any other advisor approved courses

BA/BS in

Integrated Studies 123 CREDITS

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

Emphasis in

Environmental Studies 18 Credits

- ANTH 3150 Culture Ecology and Health 3.0
- or PHIL 3530 Environmental Ethics (3.0)
- • METO 1010 Introduction to Meteorology 3.0
- or BIOL 2500 Environmental Biology (3.0)

Elective Requirements: 9 Credits

Complete 3 of the following courses of 3 different prefixes for a total of 9 credit hours of different prefixes. 9.0

Not all 3 courses may come from the same School, and at least 3-credits must be upper-division.

Committee on Interdisciplinary Studies

- BIOL 1010 General Biology (3.0)
- BIOL 2500 Environmental Biology (3.0)
- BIOL 3800 Conservation Biology (3.0)
- BIOL 3700 General Ecology (3.0)
- COMM 3130 The Culture of Nature and Technology (3.0)
- ENVT 3280 Environmental Law (3.0)
- ENVT 3850 Environmental Policy (3.0)
- GEOG 3010 Economic Geography (3.0)
- GEO 3210 Environmental Geology (4.0)
- HIST 4330 Machines in the Making of History (3.0)
- HIST 3800 Environmental History of the United States (3.0)
- PHIL 3530 Environmental Ethics (3.0)
- POLS 1800 Our Global Community (3.0)
- SOC 3450 Environmental Sociology (3.0)
- HIST 3260 History of Utah (3.0)
- Any other advisor-approved courses.

GENDER STUDIES

Committee Chair: Shannon Mussett

Office: LA 121v
Telephone: 801-863-6264
Email: shannon.mussett@uvsc.edu

Faculty Committee:

Associate Professor

Lyn Bennett
Bryan Eldredge
Laura Hamblin
Karen Mizell
Jans Wager
Jan Wellington
Christine Weigel

Assistant Professor

John Goshert
Numsiri Kunakemakorn
Shannon Mussett
Joylin Namie
Michael Shaw
Ryan Simmons

The Gender Studies minor allows students to study the extent to which gender and gender relations are socially influenced. Students will examine the ways in which conceptions of masculinity and femininity directly impact social and political institutions and practices, cultural expressions (such as art, communication, media, literature, music, and film), law, education, business, scientific inquiry, interpersonal relations, sexuality and family. As an interdisciplinary program, the Gender Studies minor encourages students to examine gender from multiple academic perspectives. As such, the minor broadens students' understanding of their chosen major and career path while facilitating the recognition of gender dynamics in their own lives.

Minor in Gender Studies 18 CREDITS

Matriculation Requirements:

1. Completion of 30 hours of credit
2. Admitted to a bachelor degree program at UVSC.

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

Elective Requirements: 9 Credits

In addition to the 9 core requirements, students must complete an additional 9 hours of electives. The following list of courses has been approved for the Gender Studies Minor. If a course that is not represented on the following list has sufficient gender related content, the student may seek approval from the Gender Studies Coordinator to have the course count toward the minor.

- ANTH 3100 Anthropology of Gender and Sexuality (3.0)
- ANTH 3130 Gender and Biomedicine (3.0)
- ANTH 475R Current Topics in Anthropology* (3.0)
- ECFS 3320 Gender Perspectives in Education (3.0)
- ENGL 3710 Literature by Women (3.0)
- ENGL 486R Topics in Literature** (3.0)
- HIST 3200 Women in American History to 1870 (3.0)
- HIST 3210 Women in American History since 1870 (3.0)
- HLTH 2800 Human Sexuality (3.0)
- HLTH 3240 Womens Health Issues (3.0)
- LEGL 3320 Family Law (3.0)
- PES 1405 Women's Safety Awareness and Self-Defense (1.0)
- PHIL 3150 Philosophical Issues in Feminism (3.0)
- PHIL 3450 Philosophy of Childhood (3.0)
- PHIL 400R Great Philosophers*** (3.0)
- PSY 2800 Human Sexuality (3.0)
- PSY 3100 Psychology of Gender (3.0)
- SOC 2370 Gender Roles (3.0)
- THEA 2333 Race Class and Gender in Film (3.0)

Graduation Requirements:

1. Overall grade point average of 2.0 (C) or above.
2. Residency hours--minimum of 12 credit hours through course attendance at UVSC.

Footnotes:

- * Contingent upon the approval of the Gender Studies Coordinator. Must have sufficient gender related content--for example, "Women, Food and the Body."
- ** Contingent upon the approval of the Gender Studies Coordinator. Must have sufficient gender related content--for example, "Queer Studies."
- *** Contingent upon the approval of the Gender Studies Coordinator. Must have sufficient gender related content--for example, "Michel Foucault."

PEACE AND JUSTICE STUDIES

Committee Chair: Michael Minch

Office: LA 121J
Telephone: 801-863-7482

Faculty Committee:

Dean

William Cobb, School of Humanities, Arts and Social Sciences

Professor

Robert Robbins

Associate Professor

Lyn Bennett
Kathryn French
Laura Hamblin
Jill Jasperson

Assistant Professor

Stephen Gibson
Michael Minch
Jeff Torlina

Adjunct Faculty

Barbara Hammond
Robert Norton
Grant Skabelund

Peace and Justice Studies at UVSC takes an interdisciplinary approach to the study of phenomena empirically and theoretically associated with violence/nonviolence and injustice/justice. Four areas of

concentration are offered: 1) Peace, 2) Justice, 3) Mediation and Conflict Resolution, 4) Philosophy and Religion. Although organized into concentrations, the curricula must also be approached in a way that disallows the student from studying within one concentration only (note the accent on interdisciplinary). Peace and nonviolence are investigated at multiple levels from the realm of the personal and familial, to international structures, conventions, institutions, and history. Likewise, justice and injustice are 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:

1. Admitted to a bachelor degree program at UVSC

Discipline Core Requirements: 6 Credits

- INST 4900 Interdisciplinary Studies Capstone 3.0
- PJST 3000 Introduction to Peace and Justice Studies 3.0

Elective Requirements: 15 Credits

Complete 15 credits, at least one course from each of the following areas (additional courses may be substituted upon advisor approval):

Peace, War, and Conflict:

- PJST 3020 The Ethics of War and Peace (3.0)
- HIST 4300 Violence and Social Conflict in Latin America (3.0)
- HIST 3850 The Struggle for Self-determination--American Indians 1891-present (3.0)
- HIST 4130 Anti-Semitism and the Holocaust (3.0)
- HIST 3520 The United States and Vietnam--1945 to Present (3.0)
- HIST 3540 History of South Africa (3.0)
- HIST 3430 Middle East History--1914-Present (3.0)
- HIST 4140 Genocide in the Twentieth Century (3.0)
- POLS 3100 Survey of International Terrorism (3.0)

Justice:

- PHIL 3720 Theories of Justice (3.0)
- ANTH 4180 Power Economy and People (3.0)
- CJ 4160 Constitutional Rights and Responsibilities (3.0)
- CJ 4200 Ethical Issues in Criminal Justice (3.0)
- CJ 4700 Comparative Criminal Justice Systems (3.0)
- HIST 3800 Environmental History of the United States (3.0)
- HIST 4600 Contemporary American Indian Political and Social Issues (3.0)
- POLS 3500 International Relations of the Middle East (3.0)
- POLS 3600 International Relations of East Asia (3.0)
- POLS 3590 American Indian Law and Tribal Government (3.0)
- PSY 3750 Child Abuse/Neglect and Domestic Violence (3.0)
- SOC 3450 Environmental Sociology (3.0)
- SOC 3200 Race and Minority Relations (3.0)
- SOC 3460 Political Sociology (3.0)
- SOC 3700 Social Inequality (3.0)
- Mediation/Conflict Resolution:
 - ANTH 3620 Intercultural Relations (3.0)

Committee on Interdisciplinary Studies

- LEGL 3410 Fundamentals of Mediation and Negotiation (3.0)
 - LEGL 4100 Advanced Mediation and Negotiation (3.0)
 - LEGL 3150 Survey of Dispute Resolution (3.0)
 - LEGL 4200 Domestic Mediation (3.0)
- Philosophy and Religion:
- PHIL 3530 Environmental Ethics (3.0)
 - PHIL 3540 Christian Ethics (3.0)
 - PHIL 3700 Social and Political Philosophy (3.0)
 - PHIL 3150 Philosophical Issues in Feminism (3.0)

RELIGIOUS STUDIES

Committee Chair: Brian Birch

Office: LA 121
Telephone: 801-863-8759

Faculty Committee:

Professor

Jen Wahlquist

Associate Professor

Brian Birch
Philip Gordon
David Knowlton

Assistant Professor

Grace Chou
Michael Minch
R. Dennis Potter

Lecturer

Boyd Peterson
Alex Stecker

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.

Minor in Religious Studies

21 CREDITS

Matriculation Requirements:

1. Completion of 30 hours of credit.
2. Admitted to a bachelor degree program at UVSC.

Discipline Core Requirements: 12 Credits

- PHIL 1610 Introduction to Western Religions (3.0)
- or PHIL 1620 Introduction to Eastern Religions (3.0)
- or ANTH 3450 Shamanism and Indigenous Religion 3.0
- RLST 3650 Approaches to Religious Studies 3.0
- RLST 366R Issues in Religious Studies 3.0

- PHIL 3600 Philosophy of Religion 3.0
- Elective Requirements: 9 Credits**
- Complete 9 credits of electives from the list below or as approved by advisor. 9.0
- 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 3740 Literature of the Sacred (3.0)
 - ENGL 3780 Mormon Literature (3.0)
 - HIST 4100 Jewish History (3.0)
 - PHIL 3540 Christian Ethics (3.0)
 - PHIL 3610 Introduction to Christian Theology (3.0)
 - SOC 3400 Sociology of Religion (3.0)

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

Communication

Department of Communication

Office: FA 725
Telephone: 801-863-8452

Department Chair: Philip Gordon

Office: FA 727
Telephone: 801-863-8186

Communication Administrative
Assistant:

Erin Donahoe-Rankin
Office: FA 725
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Faculty:

Professor
David Litchford
Associate Professor
Philip Gordon
Jingdong Liang
Assistant Professor
Roger Gunn

School of Humanities, Arts, and Social Sciences

Dean: William W. Cobb, Jr.
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.

Programs of study in Communication at UVSC offer a balance of analytic and applied approaches to study in the field. The department offers an expanding menu of beginning and advanced courses in interpersonal communication, intercultural communication, international communication, organizational communication, mass communication, public relations, media studies, argumentation and debate, and print, radio and television journalism.

Encouraging student internships, and working closely with Student Media and

other units on campus, the curriculum balances traditional, academic-style learning with applied, practical approaches to study in the field, as exemplified in our broadcast journalism courses, which culminate in a student-produced, locally-broadcast television news show.

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

CAREER OPPORTUNITIES

Virtually every modern field of endeavor has increasing demand for specialists with training in the field of communication. Traditional areas of employment for communication students include: print and electronic journalism; print and electronic entertainment; public relations (public affairs, media relations, customer relations, press agency, 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 2010 Intermediate Writing--Humanities/Social Sciences 3.0
- or ENGL 2020 Intermediate Writing--Science and Technology (3.0)

Complete one of the following: 3.0

- MATH 1030 Quantitative Reasoning (recommended for Humanities or Arts majors) (3.0)
- MATH 1040 Introduction to Statistics (recommended for Social Science majors) (3.0)
- MATH 1050 College Algebra (recommended for Business, Education, Science, and Health Professions majors) (4.0)

Complete one of the following: 3.0

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

Complete the following:

- 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: 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

Communication

Complete one of the following: 3.0

- COMM 2010 Mass Communication and Society (3.0)
- COMM 2100 The News Editing Process (3.0)
- COMM 2110 Interpersonal Communication (3.0)
- COMM 2120 Small Group Communication and Decision Making (3.0)
- COMM 2130 Television News Writing and Reporting (3.0)
- COMM 2270 Argumentation (3.0)
- COMM 2280 Oral Interpretation (3.0)
- COMM 2300 Public Relations (3.0)
- COMM 2400 Organizational Communication (3.0)
- COMM 2560 Radio Production (3.0)
- COMM 2200 Broadcast Journalism Anchoring and Producing (3.0)
- COMM 2790 Magazine Writing (3.0)
- THEA 2313 Film History I (3.0)
- THEA 2323 Film History II (3.0)
- THEA 2333 Race Class and Gender in Film (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 UVSC.
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: 3.0

- MATH 1030 Quantitative Reasoning (recommended for Humanities or Arts majors) (3.0)
- MATH 1040 Introduction to Statistics (recommended for Social Science majors) (3.0)
- MATH 1050 College Algebra (recommended for Business, Education, Science, and Health Professions majors) (4.0)

Complete one of the following: 3.0

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

Complete the following:

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

Discipline Core Requirements: 24 Credits

- COMM 1020 Public Speaking 3.0
- COMM 1050 Introduction to Speech Communication 3.0
- COMM 1130 Writing for the Mass Media 3.0
- COMM 1500 Introduction to Mass Communication 3.0

Complete two of the following: 6.0

- COMM 2010 Mass Communication and Society (3.0)
- COMM 2100 The News Editing Process (3.0)
- COMM 2110 Interpersonal Communication (3.0)
- COMM 2130 Television News Writing and Reporting (3.0)
- COMM 2270 Argumentation (3.0)
- COMM 2280 Oral Interpretation (3.0)
- COMM 2300 Public Relations (3.0)
- COMM 2400 Organizational Communication (3.0)
- COMM 2560 Radio Production (3.0)
- COMM 2200 Broadcast Journalism Anchoring and Producing (3.0)
- COMM 2790 Magazine Writing (3.0)

Communication

- THEA 2313 Film History I (3.0)
- THEA 2323 Film History II (3.0)
- THEA 2333 Race Class and Gender in Film (3.0)

Complete six credits from the following: 6.0

- COMM 120R Communication Forum (1.0)
- COMM 1610 Reporting for the Mass Media (3.0)
- COMM 2010 Mass Communication and Society (3.0)
- COMM 2100 The News Editing Process (3.0)
- COMM 2120 Small Group Communication and Decision Making (3.0)
- COMM 2130 Television News Writing and Reporting (3.0)
- COMM 2270 Argumentation (3.0)
- COMM 2280 Oral Interpretation (3.0)
- COMM 2300 Public Relations (3.0)
- COMM 2400 Organizational Communication (3.0)
- COMM 2560 Radio Production (3.0)
- COMM 2200 Broadcast Journalism Anchoring and Producing (3.0)
- COMM 2790 Magazine Writing (3.0)
- COMM 282R Internship (2.0)
- COMM 350R Special Topics in Mass Communication (3.0)
- COMM 3520 Case Studies in Public Relations (3.0)
- COMM 3600 Mass Media Ethics and Law (3.0)
- COMM 3790 Case Studies in Journalism (3.0)
- AMST 2000 Introduction to American Studies (3.0)
- ART 1050 Photography I (3.0)
- ART 2460 Interactive Design I (3.0)
- ART 449R Advanced Graphic Design Studio (3.0)
- ENGL 1060 Career Writing for Technology (3.0)
- ENGL 106A Career Writing for Technology--A (2.0)
- ENGL 2020 Intermediate Writing--Science and Technology (3.0)
- ENGL 2030 Rhetoric of Persuasion (3.0)
- MCT 1110 Multimedia Essentials I (4.0)
- MCT 1210 Multimedia Essentials II (4.0)
- MCT 2110 Digital Cinema Essentials (3.0)
- MCT 2220 Marketing for Multimedia (3.0)
- THEA 1023 Introduction to Film (3.0)
- THEA 1113 Voice and Diction (3.0)
- THEA 2313 Film History I (3.0)
- THEA 2323 Film History II (3.0)
- THEA 2333 Race Class and Gender in Film (3.0)

Elective Requirements: 1 Credit

- Complete any course 1000 or higher

Graduation Requirements:

- 1 Completion of a minimum of 60 semester credits.
- 2 Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
- 3 Residency hours -- minimum of 20 credit hours through course attendance at UVSC.
- 4 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)
- or ENGL 2020 Intermediate Writing--Science and Technology 3.0
- Complete one of the following: 3.0
- MATH 1030 Quantitative Reasoning (recommended for Humanities or Arts majors) (3.0)
- MATH 1040 Introduction to Statistics (recommended for Social Science majors) (3.0)
- MATH 1050 College Algebra (recommended for Business, Education, Science, and Health Professions majors) (4.0)

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

- Complete the following: 3.0
- PHIL 2050 Ethics and Values
- or HLTH 1100 Personal Health and Wellness (2.0)
- or PES 1097 Fitness for Life 2.0

- Distribution Courses:
- Biology 3.0
 - Physical Science 3.0

- Additional Biology or Physical Science 3.0
- Humanities (Any Foreign Language 2020 course) 3.0
- Fine Arts 3.0
- Social/Behavioral Science (COMM 2110: Interpersonal Communication, highly recommended) 3.0

Discipline Core Requirements: 45 Credits

- DGM 2110 Digital Cinema Essentials 3.0
- 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
- COMM 2010 Mass Communication and Society 3.0
- COMM 281R Internship (1.0) 3.0
- COMM 3010 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 380R Long-Format Video Journalism 3.0
- COMM 481R Internship (1.0) 3.0
- COMM 4930 Communication Capstone 3.0

Elective Requirements: 15 Credits

- Complete 15 credits from one foreign language. 15.0

Graduation Requirements:

- 1 Completion of a minimum of 125 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 UVSC, 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 Communication Theory and Practice

30.0 Credits

Emphasis Requirements: 12 Credits

- Choose 12 credits from the following: 12.0
- COMM 128R Forensics (3.0)
- COMM 2120 Small Group Communication and Decision Making (3.0)
- COMM 2270 Argumentation (3.0)
- COMM 2280 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: 18.0

- COMM 3130 The Culture of Nature and Technology (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

- 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 3620 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: 3.0

- COMM 2100 The News Editing Process (3.0)
- COMM 2560 Radio Production (3.0)
- COMM 2790 Magazine Writing (3.0)

Emphasis in Public Relations

30.0 Credits

Emphasis Requirements: 30 Credits

- 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)
- or COMM 2400 Organizational Communication 3.0
- COMM 2790 Magazine Writing 3.0
- COMM 3320 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 3530 Public Relations Writing 3.0
- COMM 3620 International Communication 3.0
- COMM 4100 Advanced Mediation and Negotiation 3.0

BS in

Communication

122 CREDITS

General Education Requirements: 35 Credits

- ENGL 1010 Introduction to Writing 3.0
- ENGL 2010 Intermediate Writing--Humanities/Social Sciences (3.0)
- or ENGL 2020 Intermediate Writing--Science and Technology 3.0
- Complete one of the following: 3.0
- MATH 1030 Quantitative Reasoning (recommended for Humanities or Arts majors) (3.0)
- MATH 1040 Introduction to Statistics (recommended for Social Science majors) (3.0)
- MATH 1050 College Algebra (recommended for Business, Education, Science, and Health Professions majors) (4.0)

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

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

- DGM 2110 Digital Cinema Essentials 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
- COMM 2010 Mass Communication and Society 3.0
- COMM 281R Internship (1.0) 3.0
- COMM 3010 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 380R Long-Format Video Journalism 3.0
- COMM 481R Internship (1.0) 3.0
- COMM 4930 Communication Capstone 3.0

Elective Requirements: 15 Credits

- Complete 15 credits of electives 1000 level or higher 15.0

Graduation Requirements:

- 1 Completion of a minimum of 120 or more semester credits.

- Overall grade point average of 2.0 (C) or above (departments may require a higher GPA).
- Residency hours: minimum of 30 credit hours through course attendance at UVSC, with at least 10 hours earned in the last 45 hours.
- Completion of GE and specified departmental requirements.

Emphasis in Communication

Theory and Practice 30.0 Credits

Emphasis Requirements: 12 Credits

Choose 12 credits from the following:

- COMM 128R Forensics (3.0)
- COMM 2120 Small Group Communication and Decision Making (3.0)
- COMM 2270 Argumentation (3.0)
- COMM 2280 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 3130 The Culture of Nature and Technology (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

- 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 3620 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)

Emphasis in

Public Relations 30.0 Credits

Emphasis Requirements: 30 Credits

- 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)
- or COMM 2400 Organizational Communication 3.0
- COMM 2790 Magazine Writing 3.0
- COMM 3320 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 3530 Public Relations Writing 3.0
- COMM 3620 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: 18.0

TRACK ONE: ANALYTIC

Complete six credits from the following:

- COMM 2010 Mass Communication and Society (3.0)
- COMM 2270 Argumentation (3.0)
- COMM 2300 Public Relations (3.0)
- COMM 2400 Organizational Communication (3.0)
- THEA 2313 Film History I (3.0)
- THEA 2323 Film History II (3.0)
- THEA 2333 Race Class and Gender in Film (3.0)

Complete twelve credits from the following:

- ANTH 3500 Discourse Semiotics and Representation (3.0)
- COMM 3010 History of Mass Communication (3.0)
- COMM 3050 Theories of Communication and Culture (3.0)
- COMM 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 3600 Mass Media Ethics and Law (3.0)
- COMM 3620 International Communication (3.0)
- COMM 3700 Free Expression in a Democratic Society (3.0)
- COMM 3780 Mormon Cultural Studies (3.0)
- COMM 3790 Case Studies in Journalism (3.0)
- COMM 380R Long-Format Video Journalism (3.0)
- COMM 4100 Advanced Mediation and Negotiation (3.0)

TRACK TWO: APPLIED

Complete all of the following:

- COMM 2130 Television News Writing and Reporting (3.0)
- COMM 2200 Broadcast Journalism Anchoring and Producing (3.0)
- COMM 3600 Mass Media Ethics and Law (3.0)

Complete one of the following four classes:

- COMM 2010 Mass Communication and Society (3.0)
- COMM 2300 Public Relations (3.0)
- COMM 2560 Radio Production (3.0)
- COMM 2790 Magazine Writing (3.0)

Complete one of the following two classes:

- COMM 413R Advanced Television News Writing and Reporting (3.0)
- COMM 470R On-Air Broadcast Journalism (3.0)

Complete two of the following eight classes:

- COMM 3010 History of Mass Communication (3.0)
- COMM 3050 Theories of Communication and Culture (3.0)
- COMM 3520 Case Studies in Public Relations (3.0)
- COMM 3700 Free Expression in a Democratic Society (3.0)
- COMM 3790 Case Studies in Journalism (3.0)
- COMM 380R Long-Format Video Journalism (3.0)
- COMM 413R Advanced Television News Writing and Reporting (3.0)
- COMM 470R On-Air Broadcast Journalism (3.0)

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

- COMM, Communication

Community Health

Community Health

Department Chair: Robert Walsh

Office: PE 147b
Telephone: 801-863-6193
E-mail: walshro@uvsc.edu

Advisor: Please contact Kristie Dockstadter at 863-8651 or Robert Walsh at 863-6193 to meet with an Advisor.

Faculty:

Professor

Vance G. Hillman
Reba Keele

Associate Professor

Brian Barthel
Lori Richards
Robert Walsh

Assistant Professor

Hala N. Madanat
Lynley Rowan

Lecturer

Mary Brown

Staff:

Administrative Assistant
Kristie Dockstadter

School of Science and Health

Dean: Sam Rushforth
Office: PS 201a
Telephone: 801-863-8980

Associate Dean: Bill Evenson
Office: PS 201e
Telephone: 801-863-6440

Assistant Dean: Lori Barber
Office: BA 205c
Telephone: 801-863-8380

Assistant Dean: Louise Illes
Office: PS 201d
Telephone: 801-863-6040

Assistant Dean: David Jordan
Office: PS 201c
Telephone: 801-863-7160

Students in the Department of Community Health may receive an Associate in Science or Arts with an emphasis in Community Health; an Integrated Studies Bachelors of Science or Arts with a Community Health Emphasis; a Bachelor of Science in Community Health in one of the following areas: Community Health Emphasis, School Health Education Emphasis, Health Services Administration; or a Health Minor with an emphasis in Community Health Education or School Health Education.

The Community Health program at UVSC

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

62 CREDITS

General Education Requirements: 35 Credits

- ENGL 1010 Introduction to Writing 3.0
- ENGL 2010 Intermediate Writing--Humanities/Social Sciences 3.0
- or ENGL 2020 Intermediate Writing--Science and Technology (3.0) 3.0
- Complete one of the following: 3.0
- MATH 1030 Quantitative Reasoning (recommended for Humanities or Arts majors) (3.0)
- MATH 1040 Introduction to Statistics (recommended for Social Science majors) (3.0)
- MATH 1050 College Algebra (recommended for Business, Education, Science, and Health Professions majors) (4.0)

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

- Complete the following: 3.0
- PHIL 2050 Ethics and Values 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: 17 Credits

- NUTR 1020 Foundations of Human Nutrition 3.0
- HLTH 1200 First Aid 2.0
- HLTH 2400 Concepts of Stress Management 3.0
- HLTH 2800 Human Sexuality 3.0
- HLTH 2600 Drugs Behavior and Society 3.0
- Complete 3 credits from the following: 3.0
- COMM 2110 Interpersonal Communication (3.0)
- ENVT 1110 Introduction to Environmental Management (3.0)
- ENVT 1200 Environmental Worker Safety (3.0)
- ENVT 2560 Environmental Health (3.0)
- HLTH 1300 Medical Terminology I (2.0)
- NUTR 2020 Nutrition Through the Life Cycle (3.0)
- HLTH 2300 Medical Terminology II (2.0)
- HLTH 2200 Introduction to Health Professions (2.0)
- HLTH 3000 Health Concepts of Death and Dying (3.0)
- HLTH 281R Cooperative Work Experience (2.0)
- MGMT 3000 Organizational Behavior (3.0)
- HLTH 3240 Womens Health Issues (3.0)
- PES 2700 Foundations of Physical Education and Recreation (3.0)
- PSY 1100 Human Development Life Span (3.0)
- PSY 2250 Psychology of Interpersonal Relationships (3.0)
- SOC 3650 Sociology of Aging (3.0)

Elective Requirements: 10 Credits

- Same Foreign Language (1010 and 1020) 10.0

Graduation Requirements:

- 1 Completion of a minimum of 62 semester credits.
- 2 Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
- 3 Residency hours-- minimum of 20 credit hours though course attendance at UVSC.
- 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

62 CREDITS

General Education Requirements: 35 Credits

- ENGL 1010 Introduction to Writing 3.0
- ENGL 2010 Intermediate Writing--Humanities/Social Sciences 3.0
- or ENGL 2020 Intermediate Writing--Science and Technology (3.0) 3.0
- Complete one of the following: 3.0
- MATH 1030 Quantitative Reasoning (recommended for Humanities or Arts majors) (3.0)
- MATH 1040 Introduction to Statistics (recommended for Social Science majors) (3.0)
- MATH 1050 College Algebra (recommended for Business, Education, Science, and Health Professions majors) (4.0)

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

- Complete the following: 3.0
- PHIL 2050 Ethics and Values 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: 27 Credits

- Complete the following: 3.0
- NUTR 1020 Foundations of Human Nutrition 3.0
- HLTH 1200 First Aid 2.0
- HLTH 2400 Concepts of Stress Management 3.0
- HLTH 2800 Human Sexuality 3.0
- HLTH 2600 Drugs Behavior and Society 3.0
- Complete 13 credits from the following: 13.0
- COMM 2110 Interpersonal Communication (3.0)
- ENVT 1110 Introduction to Environmental Management (3.0)
- ENVT 1200 Environmental Worker Safety (3.0)
- ENVT 2560 Environmental Health (3.0)
- HLTH 1300 Medical Terminology I (2.0)
- NUTR 2020 Nutrition Through the Life Cycle (3.0)

- HLTH 2200 Introduction to Health Professions (2.0)
- HLTH 2300 Medical Terminology II (2.0)
- HLTH 3000 Health Concepts of Death and Dying (3.0)
- HLTH 281R Cooperative Work Experience (2.0)
- HLTH 3240 Womens Health Issues (3.0)
- MGMT 3000 Organizational Behavior (3.0)
- PES 2700 Foundations of Physical Education and Recreation (3.0)
- PSY 1100 Human Development Life Span (3.0)
- PSY 2250 Psychology of Interpersonal Relationships (3.0)
- SOC 3650 Sociology of Aging (3.0)

Graduation Requirements:

- 1 Completion of a minimum of 62 semester credits.
- 2 Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
- 3 Residency hours-- minimum of 20 credit hours through course attendance at UVSC.
- 4 Completion of GE and specified departmental requirements.

BS in Community Health 120 CREDITS

General Education Requirements: 35 Credits

- ENGL 1010 Introduction to Writing 3.0

Community Health

• ENGL 2010	Intermediate Writing--Humanities/ Social Sciences	3.0
or ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
Complete one of the following:		3.0
• MATH 1030	Quantitative Reasoning (recommended for Humanities or Arts majors) (3.0)	
• MATH 1040	Introduction to Statistics (recommended for Social Science majors) (3.0)	
• MATH 1050	College Algebra (recommended for Business, Education, Science, and Health Professions majors) (4.0)	
Complete one of the following:		3.0
• HIST 2700	US History to 1877 (3.0)	
and HIST 2710	US History since 1877 (3.0)	
• HIST 1700	American Civilization (3.0)	
• HIST 1740	US Economic History (3.0)	
• POLS 1000	American Heritage (3.0)	
• POLS 1100	American National Government (3.0)	
Complete the following:		
• 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 (HLTH 2800 recommended)		3.0
Discipline Core Requirements:	20 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 3250	Consumer Health	3.0
• HLTH 3260	Modifying Health Behavior	2.0
• HLTH 3400	Human Diseases	3.0
• HLTH 4050	Foundations of Health Education	3.0
Emphasis:		
Complete one of the following:		
• Community Health Education		65.0
or Health Services Administration		65.0
Graduation Requirements:		
1	Completion of a minimum of 120 semester credits with a minimum of 40 upper-division credits. A minimum of at least 10 hours earned in the last 45 hours must be earned at UVSC.	
2	A minimum of 34 credit hours must be in the major with minimum of 20 credits taken at UVSC. A minimum of 20 Health credits must be upper-division.	
3	Complete the following courses with a minimum grade of C- or better: HLTH 3200, HLTH 4050, and all Emphasis Courses.	
4	Overall grade point average of 2.25 or above with a minimum GPA of 2.5 in Major and Minor courses.	
5	Completion of GE and specified departmental requirements.	
Emphasis in Community Health Education	65 Credits	
Emphasis Requirements:	32 Credits	
• NUTR 1020	Foundations of Human Nutrition	3.0
• HLTH 1200	First Aid	2.0
• HLTH 2400	Concepts of Stress Management	3.0
• HLTH 2800	Human Sexuality	3.0
• HLTH 2600	Drugs Behavior and Society	3.0
• HLTH 3800	Epidemiology	3.0
• HLTH 4150	Community Health Program Development and Evaluation	3.0
• HLTH 4300	Community Health Ethics	3.0
• HLTH 4600	Research Methods for Community Health	3.0
• HLTH 482R	Community Health Internship (2.0)	6.0
or HLTH 483R	International Health Education Internship	
Emphasis Elective Requirements:	33 Credits	
Complete 8 credits from the following:		8.0
• HLTH 3150	Culture Ecology and Health (3.0)	
• HLTH 3240	Womens Health Issues (3.0)	
• HLTH 3300	Health Promotion for Older Adults (3.0)	
• HLTH 4250	Health Services Organization and Policy (3.0)	
• HLTH 490R	Special Topics in Community Health (1.0)	
• DGM 3820	Presentation Applications (3.0)	
• MGMT 3600	Principles of Marketing (3.0)	
• SOC 3200	Race and Minority Relations (3.0)	

Complete 25 credits of any courses 1000 or higher
(minor). 25.0

Emphasis in Health Services

Administration		65 Credits
Emphasis Requirements:		60 Credits
• HLTH 3300	Health Promotion for Older Adults	3.0
• HLTH 3800	Epidemiology	3.0
• HLTH 4150	Community Health Program Development and Evaluation	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 4600	Research Methods for Community Health	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 3600	Principles of Marketing	3.0
• ACC 2010	Financial Accounting	3.0
• ACC 2020	Managerial Accounting	3.0
• INFO 3120	Principles of Information Systems--A Managerial Approach	3.0
• LEGL 3160	Health Care Law	3.0
Emphasis Elective Requirements:		5 Credits
• Complete any courses 1000 or higher.		5.0

BS in School

Health Education		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
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
• Social/Behavioral Science		3.0
Discipline Core Requirements:		70 Credits
• ZOOL 1090	Introduction to Human Anatomy and Physiology	3.0
• ENVT 2560	Environmental Health	3.0
• HLTH 3200	Principles of Community Health	3.0
• HLTH 3250	Consumer Health	3.0
• HLTH 3260	Modifying Health Behavior	2.0
• HLTH 3400	Human Diseases	3.0
• HLTH 4050	Foundations of Health Education	3.0
• NUTR 1020	Foundations of Human Nutrition	3.0
• HLTH 1200	First Aid	2.0
• HLTH 2400	Concepts of Stress Management	3.0
• HLTH 2800	Human Sexuality	3.0
• HLTH 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:		
• 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 4440	Content Area Reading and Writing	3.0
• EDSC 4450	Multicultural Instruction/ESL	2.0
• EDSC 4550	Secondary Curriculum Instruction and Assessment	4.0

- EDSC 4850 Student Teaching--Secondary (4.0) 8.0
- EDSP 3400 Exceptional Students 2.0

Elective Requirements: 18 Credits

- Complete a Secondary Education approved Minor 18.0

Graduation Requirements:

- 1 Completion of a minimum of 124 semester credits with
a minimum of 40 upper-division credits. A minimum of
at least 10 hours earned in the last 45 hours must be
earned at UVSC.
- 2 A minimum of 34 credit hours must be in the major with
minimum of 20 credits taken at UVSC. A minimum of 20
Health credits must be upper-division.
- 3 Complete the following courses with a minimum grade
of C- or better: HLTH 3200, HLTH 4050, and all
Emphasis Courses.
- 4 Overall grade point average of 2.25 or above with a
minimum GPA of 2.5 in Major and Minor courses.
- 5 Completion of GE and specified departmental
requirements.

Minor in Community

Health Education 20 CREDITS

Matriculation Requirements:

- 1 Admitted to a bachelor degree program at UVSC.

Discipline Core Requirements: 17 Credits

- NUTR 1020 Foundations of Human Nutrition 3.0
- HLTH 2600 Drugs Behavior and Society 3.0
- HLTH 2800 Human Sexuality 3.0
- HLTH 3200 Principles of Community Health 3.0
- HLTH 3260 Modifying Health Behavior 2.0
- HLTH 4050 Foundations of Health Education 3.0

Elective Requirements: 3 Credits

Any upper-division HLTH course not used in Discipline
Core 3.0

Minor in School

Health Education 20 CREDITS

Matriculation Requirements:

- 1 Must be accepted into a Secondary Education major
program.

Discipline Core Requirements: 20 Credits

- NUTR 1020 Foundations of Human Nutrition 3.0
- HLTH 2600 Drugs Behavior and Society 3.0
- HLTH 2800 Human Sexuality 3.0
- HLTH 3200 Principles of Community Health 3.0
- HLTH 3260 Modifying Health Behavior 2.0
- HLTH 4050 Foundations of Health Education 3.0
- HLTH 4100 Health Education Curriculum for
Secondary Teachers 3.0

BA/BS in

Integrated Studies 123 CREDITS

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

Emphasis in Community Health 18 Credits

Emphasis Requirements: 18 Credits

Complete the following:

- HLTH 3200 Principles of Community Health 3.0
- HLTH 4050 Foundations of Health Education 3.0
- HLTH 3400 Human Diseases 3.0
- or HLTH 3800 Epidemiology (3.0)
- HLTH 4300 Community Health Ethics (3.0)
- or HLTH 4600 Research Methods for Community
Health 3.0

Choose 6 credits from the following: 6.0

- NUTR 1020 Foundations of Human
Nutrition (3.0)
- NUTR 2020 Nutrition Through the Life
Cycle (3.0)
- HLTH 2400 Concepts of Stress
Management (3.0)
- HLTH 2800 Human Sexuality (3.0)
- HLTH 2600 Drugs Behavior and Society (3.0)
- HLTH 3000 Health Concepts of Death and
Dying (3.0)
- HLTH 3150 Culture Ecology and Health (3.0)
- HLTH 3240 Womens Health Issues (3.0)
- HLTH 3250 Consumer Health (3.0)
- HLTH 3260 Modifying Health Behavior (2.0)
- HLTH 3300 Health Promotion for Older
Adults (3.0)
- HLTH 4150 Community Health Program
Development and Evaluation (3.0)
- HLTH 4250 Health Services Organization and
Policy (3.0)
- HLTH 490R Special Topics in Community Health
(1.0)

Community Health

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

- HLTH, 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:
Carol Robinson
Office: CS 520h
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Faculty:

Professor

Dennis Fairclough
David Heldenbrand
Keith Olson

Associate Professor

Charles Allison
Roger deBry
Brian Durney
Todd Peterson
Reza Sanati

Assistant Professor

Neil Harrison
Kirk Love
Curtis Welborn

Advisor:

Patti Miner
Office: CS 635
Telephone: 801-863-8408

School of Technology and Computing

Interim 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, and Computer Science.

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 five possible areas of specialization: Computer Engineering, Computer Networking, Computer Science, Software Engineering, and Database.

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.

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

Computer Science

- 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
- INFO 1510 Introduction to System Administration--Linux/UNIX 3.0
- ENGL 1010 Introduction to Writing 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)
- or CS 3220 Visual Basic Software Development (3.0)
- CS 2250 Java Programming (3.0)
- or CS 3250 Java Software Development (3.0)
- CS 2370 C-plus-plus Programming (3.0)
- or CS 3370 C-plus-plus Software Development (3.0)
- CS 2550 Internet Programming (3.0)
- or CS 3550 Internet Software Development (3.0)
- CS 239R Current Topics in Computer Science (1.0)
- CS 3060 Operating Systems Theory (3.0)
- CS 3260 CsharpNET 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 UVSC.

AAS in

Computer Science 64 CREDITS

General Education Requirements: 13 Credits

A minimum of 16 credits of General Education requirements are required for graduation. Not all GE requirements are listed in this section (see Specialty Core requirements for more details).

- ENGL 1010 Introduction to Writing 3.0
- HUMANITIES/FINE ARTS/FOREIGN LANGUAGE 3.0 (COMM 1020 recommended)
- COMM 2110 Interpersonal Communication * 3.0
- BIOLOGY 3.0
- or PHYS 2210 Physics for Scientists and Engineers I (4.0) *
- PHYSICAL EDUCATION/HEALTH/SAFETY OR ENVIRONMENT 1.0

Discipline Core Requirements: 9 Credits

Complete the following:

- CS 1400 Fundamentals of Programming * 3.0
- CS 2600 Fundamentals of Data Communications * 3.0
- CS 2810 Computer Organization and Architecture * 3.0

Emphasis:

Complete one of the following:

- Computer Engineering 42.0
- Computing and Networking Sciences 42.0

Graduation Requirements:

- 1 Completion of a minimum of 64 semester credits.
- 2 Overall grade point average of 2.0 (C) or above.
- 3 Residency hours -- minimum of 20 credit hours through course attendance at UVSC.

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 2270 Circuit Theory 3.0
- EENG 2275 Circuit Theory Lab 1.0
- EENG 2700 Digital Design I 3.0
- EENG 2705 Digital Design I Lab 1.0
- EENG 3740 Digital Design II 3.0
- INFO 1510 Introduction to System Administration--Linux/UNIX 3.0
- MATH 1210 Calculus I (fulfills GE requirement) 5.0

Emphasis Elective Requirements: 20 Credits

Computer Science

Complete 20 credits from the following courses (mini- 20.0
mum grade of C- required). (Must be approved by CNS
Department. See CNS Advisor):

- CS 1410 Object-Oriented Programming (3.0)
- CS 2300 Discrete Structures I (3.0)
- CS 2420 Introduction to Algorithms and Data Structures (3.0)
- CS 2450 Software Engineering (3.0)
- CS 2550 Internet Programming (3.0)
- or CS 3550 Internet Software Development (3.0)
- CS 3060 Operating Systems Theory (3.0)
- CS 3520 Database Theory (3.0)
- EENG 3750 Engineering Analysis (3.0)
- EENG 3770 Signals and Systems (3.0)
- EENG 4730 Embedded Systems (3.0)
- EENG 4750 Digital Signal Processing (3.0)
- EENG 4760 Electronic Systems (3.0)
- EENG 4765 Electronics Systems Lab (1.0)
- MATH 1220 Calculus II (5.0)
- PHYS 2215 Physics for Scientists and Engineers I Lab (1.0)

Emphasis in Computing and Networking Sciences 42 Credits

This program is designed to prepare students for careers in the 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
- CS 3060 Operating Systems Theory* 3.0
- CS 3220 Visual Basic Software Development* 3.0
- or CS 3250 Java Software Development (3.0)* 3.0
- or CS 3260 CsharpNET Software Development (3.0)* 3.0
- CS 3520 Database Theory* 3.0
- CS 3690 Advanced Topics in Data Communications* 3.0
- MATH 1060 Trigonometry (fulfills GE requirement)* 3.0

Emphasis Elective Requirements: 18 Credits

Complete 18 credits from the following courses (minimum grade of C- required). (Must be approved by CNS Department. See CNS Advisor):

- CS 1030 Foundations of Computer Science (3.0)
- CS 2220 Visual Basic Programming (3.0)
- or CS 3220 Visual Basic Software Development (3.0)
- CS 2250 Java Programming (3.0)
- or CS 3250 Java Software Development (3.0)
- CS 2370 C-plus-plus Programming (3.0)
- or CS 3370 C-plus-plus Software Development (3.0)
- CS 2450 Software Engineering (3.0)
- CS 2550 Internet Programming (3.0)
- or CS 3550 Internet Software Development (3.0)
- CS 281R Internship (3.0 credits max.) (1.0)
- CS 3260 CsharpNET Software Development (3.0)
- CS 3660 Web Server Administration and Programming (3.0)
- CS 3670 Network Programming (3.0)
- CS 4410 Human Factors in Software Engineering (3.0)
- CS 4470 Artificial Intelligence (3.0)
- CS 4600 Enterprise Architecture (3.0)
- CS 4610 TCP/IP Internet Architecture (3.0)
- EENG 2700 Digital Design I (3.0)
- EENG 2705 Digital Design I Lab (1.0)
- EENG 3750 Engineering Analysis (3.0)
- 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 I Lab (1.0)

Footnotes:

- * Minimum grade of C- required.

AS Pre Major in Computer Science 64 CREDITS

General Education Requirements: 39 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 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
- HLTH 1100 Personal Health and Wellness (2.0)
- or PES 1097 Fitness for Life 2.0

Distribution Courses

Humanities:

- COMM 1020 Public Speaking (recommended) 3.0

Social Science:

- COMM 2110 Interpersonal Communication (recommended) 3.0

Physical Science:

- PHYS 2210 Physics for Scientists and Engineers I* 4.0
- PHYS 2215 Physics for Scientists and Engineers I Lab* 1.0

Additional Physical Science:

- PHYS 2220 Physics for Scientists and Engineers II* 4.0
- PHYS 2225 Physics for Scientists and Engineers II Lab* 1.0

Additional Distribution Courses

- Biology 3.0
- Fine Arts Distribution 3.0

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 UVSC.
- 4 Completion of GE and specified departmental requirements.

Footnotes:

- * Minimum grade of C- required.

BS in Computer Science 123 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 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:

- COMM 1020 Public Speaking* 3.0
- COMM 2110 Interpersonal Communication* 3.0
- Fine Arts Distribution (choose from list) 3.0
- Biology (choose from list) 3.0

- PHYS 2210 Physics for Scientists and Engineers I* 4.0
- PHYS 2215 Physics for Scientists and Engineers I Lab* 1.0
- PHYS 2220 Physics for Scientists and Engineers II* 4.0
- PHYS 2225 Physics for Scientists and Engineers II Lab* 1.0

Discipline Core Requirements: 40 Credits

Minimum grade of C- required in these courses with a combined GPA of 2.5 or higher.

- 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
- 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 3690 Advanced Topics in Data Communications 3.0
- MATH 1220 Calculus II 5.0
- MATH 2040 Principles of Statistics 4.0

Emphasis:

Complete one of the following:

- Computer Engineering 42.0
- Computer Networking 42.0
- Computer Science 42.0
- Database Engineering 42.0

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. Must have a minimum grade of C- in all core courses.
- 3 Residency hours -- minimum of 30 credit hours through course attendance at UVSC. 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 in writing by UVSC.
- 5 No more than 80 semester hours and no more than 20 hours in CNS type courses of transfer credit from a two-year college.
- 6 No more than 30 semester hours may be earned through independent study and/or extension classes.

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 programming certification examinations. The student is responsible for registering for and taking the require certification examinations.

Emphasis Requirements: 26 Credits

Minimum grade of C- required in these courses with a combined GPA of 2.5 or higher.

- CS 4260 Digital System Simulation 3.0
- CS 4380 Advanced/High-Performance Computer Architecture 3.0
- CS 489R Undergraduate Research Project (2.0) 3.0
- EENG 2270 Circuit Theory 3.0
- EENG 2275 Circuit Theory Lab 1.0
- EENG 2700 Digital Design I 3.0
- EENG 2705 Digital Design I Lab 1.0
- EENG 3740 Digital Design II 3.0
- EENG 3750 Engineering Analysis 3.0
- EENG 3770 Signals and Systems 3.0

Emphasis Elective Requirements: 16 Credits

Complete 16 credits from the following or any CS 3000 or 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 4730 Embedded Systems (3.0)
- EENG 4750 Digital Signal Processing (3.0)
- EENG 4760 Electronic Systems (3.0)
- EENG 4765 Electronics Systems Lab (1.0)
- INFO 1510 Introduction to System Administration--Linux/UNIX (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 to register for and take 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 3670 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 or 4000 level course not already required. (Minimum of six credits must be 3000 or 4000 level). (Minimum grade of C- required in these courses with a combined GPA of 2.5 or higher.):

- EENG 2700 Digital Design I (3.0)
- EENG 2705 Digital Design I Lab (1.0)
- INFO 2640 Router Management (3.0)
- INFO 2650 Voice and Data Cabling Fundamentals (3.0)
- INFO 3630 Advanced System Administration--Windows Server (3.0)
- INFO 2660 Information Security--Fundamentals (3.0)
- INFO 3660 Information Security--Network Defense and Countermeasures (3.0)
- INFO 4660 Computer Forensics (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
- or CS 3250 Java Software Development (3.0)
- or CS 3260 CsharpNET Software Development (3.0)
- CS 3310 Introduction to Algorithms 3.0
- or CS 3320 Numerical Software Engineering (3.0)
- CS 3520 Database Theory 3.0
- CS 4380 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
- CS 4510 Operating Systems Design and Simulation 3.0

Emphasis Elective Requirements: 15 Credits

Complete 15 credits from the following or any CS 3000 or 4000 level course not already required. Minimum of 6 credits must be upper division. (Minimum grade of C- required in these courses with a combined GPA of 2.5 or higher.):

- EENG 3750 Engineering Analysis (3.0)

- INFO 1510 Introduction to 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 to register for and take the required certification examinations.

Emphasis Requirements: 27 Credits

- CS 2450 Software Engineering 3.0
- CS 3220 Visual Basic Software Development 3.0
- or CS 3250 Java Software Development (3.0)
- or CS 3260 CsharpNET Software Development (3.0)
- or CS 3370 C-plus-plus Software Development (3.0)
- INFO 3410 Database Systems 3.0
- CS 3520 Database Theory 3.0
- CS 4410 Human Factors in Software Engineering 3.0
- CS 4100 Database Management System Construction 3.0
- INFO 4410 Database Administration 3.0
- CS 4500 Advanced Topics in Database 3.0
- CS 4600 Enterprise Architecture 3.0

Emphasis Elective Requirements: 15 Credits

Complete 15 credits from the following:

- CS 3220 Visual Basic Software Development (3.0)
- CS 3250 Java Software Development (3.0)
- CS 3260 CsharpNET Software Development (3.0)
- CS 3370 C-plus-plus Software Development (3.0)
- CS 3540 Game Programming (3.0)
- CS 3550 Internet Software Development (3.0)
- CS 3660 Web Server Administration and Programming (3.0)
- CS 3670 Network Programming (3.0)
- CS 4230 Software Testing and Quality Engineering (3.0)
- CS 4400 Software Engineering II (3.0)
- CS 4470 Artificial Intelligence (3.0)
- CS 4510 Operating Systems Design and Simulation (3.0)
- CS 481R Internship (1.0)

BS in Software Engineering 69 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
- 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:

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

Distribution 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
- 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 1400 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 3690 Advanced Topics in Data Communications 3.0
- CS 3220 Visual Basic Software Development 3.0
- or CS 3250 Java Software Development (3.0)
- or CS 3260 CsharpNET Software Development (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 4410 Human Factors in Software Engineering 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 18 credits from the following:

- 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:

- Completion of a minimum of 123 semester credits, with a minimum of 40 upper-division credits.
- Overall grade point average of 2.5 or above, with a minimum grade of C- in all discipline core and elective requirements.
- Residency hours -- minimum of 30 credit hours through course attendance at UVSC. 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.
- 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.
- No more than 6 semester hours may be earned through independent study.

Minor in Computer Science 18 Credits

Discipline Core Requirements: 9 Credits

- CS 1400 Fundamentals of Programming (CS 1030 recommended) 3.0
- CS 1410 Object-Oriented Programming 3.0
- CS 2420 Introduction to Algorithms and Data Structures 3.0

Elective Requirements: 9 Credits

- Complete at least three CS courses numbered 3060 or above

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:

- CS 3250 Java Software Development (3.0)
- CS 3370 C-plus-plus Software Development (3.0)

Choose 15 credits from the following:

- CS 3240 Introduction to Computational Theory (3.0)
- CS 3250 Java Software Development (3.0)
- CS 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.

Computer Science

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

- CS, Computer Science

Culinary Arts

Director: Greg Forte

Office: MC 007f
Telephone: 801-863-8087

Faculty:

Associate Professor

Diana Fallis
Greg Forte

Assistant Professor

Troy Wilson

Catering Manager

Connie Bullock

Advisor: Julie Slocum

Office: MC 007e

Telephone: 801-863-8914

Advisory Committee: Kent Anderson, Chef/Owner, Chef's Table; Rob Morgan, Head Chef, Skyroom Restaurant, BYU; Brian Peterson, Owner, Bryson Bakery; Jane Becker, Manager, Smith's Food and Drug; Raymond Alexander, Executive Chef, Provo Marriott; Peter Villano, Executive Chef, Riverside Country Club; Don Heidel, Executive Chef, The Homestead Resort; Melva Sien, Utah Restaurant Association; Laura Heald Watson, Food and Nutrition Services Director, Utah Valley Regional Medical Center; Brad Burton, Nicholas and Company; Chantelle Kukahiko-Hughey, Former Student; Guy Whitely-Ross, Chef, Chili's; Carla Leis, Former Student; Franz Kubak, Executive Chef, Hilton SLC Center.

School of Technology and Computing

Interim Dean: Ernest Carey

Office: CS 720

Telephone: 801-863-8321

CAREER OPPORTUNITIES

The Culinary Arts Institute at UVSC 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; 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 Hospitality Management with a Food and Beverage specialization is also available for students seeking a four-year degree. See the Hospitality Management section of the UVSC catalog for required courses and details. (See Graduation Requirements in catalog for definitions.) Enrollment in the Culinary Arts Institute is limited. Permission is required to enroll in cooking classes.

AAS in Culinary Arts 68 CREDITS

Matriculation Requirements:

1. Completion of the following courses with a grade of C- or better: CA 1480 (including ServSafe certification); HM 1010; MAT 0990; ENGH 0990; CTRS 0990.
2. Complete 600 documented hours work in the industry; acceptance into the Culinary Arts Institute by completion of application process (see Advisor for specific details).
3. Overall GPA: 2.0 or better.

General Education Requirements: 17 Credits

ENGLISH	
• MGMT 2200 Business Communications	3.0
MATHEMATICS	
• ACC 2010 Financial Accounting	3.0
HUMANITIES/FINE ARTS/FOREIGN LANGUAGE	
• ENGL 1010 Introduction to Writing	3.0
SOCIAL AND BEHAVIORAL SCIENCE	
• MGMT 3000 Organizational Behavior	3.0
BIOLOGY OR PHYSICAL SCIENCE	
• CA 1150 Nutrition and Food Service	3.0
PHYSICAL EDUCATION/HEALTH/SAFETY OR ENVIRONMENT	
• PES 1097 Fitness for Life	2.0

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 (9.0)	
or CA 282R Culinary Arts Internship* (3.0)	8.0
• CA 2320 Professional Kitchen III	9.0
or CA 282R Culinary Arts Internship (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	1.0
or MGMT 3890 Career Preparation (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 UVSC.
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

Dance

Dance

Department Chair: Kim Strunk

Office: LA 111g
Telephone: 801-863-7225
Department Office: LA 111j

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Kim Strunk

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Lecturer

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Artist in Residence

Scott Asbell

School of Humanities, Arts, and Social Sciences

Dean: William W. Cobb, Jr.
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MISSION STATEMENT

The mission of Utah Valley State College Department of Dance is to foster academic and artistic excellence through an intensive technical and reflective study of dance. Anchored in a common core curriculum with several areas of emphasis, our program provides a rich and stimulating environment where students cultivate their technical, aesthetic, creative, and scholarly potential. We value superior teaching which promotes dance as an artistic and cultural expression that has the power to enrich and transform the individual, community, and society.

PROGRAMS

Students interested in pursuing a degree in dance can choose from the following degree paths: AS Pre Major in Dance, BFA in Dance with an emphasis in Ballet or Modern dance, BS in Movement Studies with an emphasis in Ballroom dance, and BS in Dance Education. The Department also offers a Ballet, Ballroom or Modern dance emphasis in Integrated Studies. In addition to career training, the Department of Dance provides opportunities for all interested students to explore the many forms of dance as elective and/or general education credit. The study of dance offers personal and cultural enrichment for majors and non-majors alike and allows

students to augment their physical skill as they study dance in relationship to the self, society, and other arts and disciplines.

PERFORMING OPPORTUNITIES

A variety of student, pre-professional and professional companies within the department provide excellent local, national and international performing opportunities for dance majors. Concerts are presented in formal and informal as well as, adjudicated settings. Membership in companies is by audition only.

CAREER OPTIONS

Those trained in dance find careers as public and private school teachers, college and university educators (requires graduate degree), professional performers and choreographers, dance historians and critics, administrators, dance therapists, professionals in the field of somatics, researchers, notators, movement analysts private studio owners, and health and fitness consultants.

AS Pre Major in Dance 62 Credits

General Education Requirements: 35 Credits

- ENGL 1010 Introduction to Writing 3.0
- ENGL 2010 Intermediate Writing--Humanities/Social Sciences 3.0
- or ENGL 2020 Intermediate Writing--Science and Technology (3.0)

Complete one of the following: 3.0

- MATH 1030 Quantitative Reasoning (recommended for Humanities or Arts majors) (3.0)
- MATH 1040 Introduction to Statistics (recommended for Social Science majors) (3.0)
- MATH 1050 College Algebra (recommended for Business, Education, Science, and Health Professions majors) (4.0)

Complete one of the following: 3.0

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

Complete the following:

- 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 (BIOL 1010 recommended) 3.0
- Physical Science 3.0
- Additional Biology or Physical Science (ZOOL 2010 recommended) 3.0
- Humanities Distribution 3.0
- DANC 2110 Orientation to Dance 3.0
- Social/Behavioral Science 3.0

Discipline Core Requirements: 23 Credits

- DANC 1160 Music for Dancers 1.0
- DANC 127R Ballet Technique I (2 semesters) (3.0) 6.0
- DANC 1330 Studio Workshop--Creative Process in Dance 1.0
- DANC 143R Modern Dance Technique and Theory I 3.0
- DANC 144R Modern Dance Technique and Theory I 3.0
- DANC 1510 Intermediate Jazz Dance 1.0
- DANC 1610 Dance Conditioning 1.0
- DANC 2330 Improvisation 1.0
- DANC 2340 Composition 2.0
- DANC 265R Fundamentals of Movement 2.0
- DANC 2670 Introduction to Laban Studies 2.0

Elective Requirements: 4 Credits

- Complete 4 credits from the following:
- DANC 1520 Folk Dance I (1.0)

- DANC 1530 Folk Dance II (1.0)
- DANC 1540 Clogging I (1.0)
- DANC 1560 African Dance I (1.0)
- DANC 1570 African Dance II (2.0)
- 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 1780 Country Western Dance I (1.0)
- DANC 1790 Country Western Dance II (1.0)
- DANC 221R Pointe II (1.0)
- DANC 2250 Character Dance I (1.0)
- DANC 2260 Character Dance II (1.0)
- DANC 227R Ballet Technique II (3.0)
- DANC 243R Modern Dance Technique and Theory II (3.0)
- DANC 244R Modern Dance Technique and Theory II (3.0)
- DANC 247R Repertory (1.0)
- DANC 250R Advanced Jazz Dance (2.0)
- DANC 2700 American Social Dance II (1.0)
- DANC 2710 International Ballroom Dance II (1.0)
- DANC 2720 Latin Ballroom Dance II (1.0)
- DANC 276R Ballroom Dance Company Back-Up Team (1.0)
- DANC 327R Ballet Technique III (3.0)
- DANC 346R Modern Dance Performance (2.0)
- DANC 370R American Social Dance III (1.0)
- DANC 371R International Ballroom Dance III (1.0)
- DANC 372R Latin Ballroom Dance III (1.0)
- DANC 376R Ballroom Dance Company Reserve Tour Team (2.0)
- DANC 429R Utah Regional Ballet Repertory (2.0)
- DANC 476R Ballroom Dance Company Tour Team (2.0)

Graduation Requirements:

- 1 Completion of a minimum of 62 semester credits.
- 2 Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
- 3 Residency hours -- minimum of 20 credit hours through course attendance at UVSC.
- 4 Completion of GE and specified departmental requirements.

BS in Dance Education 126 Credits

Matriculation Requirements:

- 1 Complete the following courses with a grade of B or higher: DANC 1160, DANC 143R, DANC 144R, DANC 1510 OR DANC 250R, DANC 1610, AND DANC 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 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:

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

Distribution Courses:

- BIOL 1010 General Biology (Strongly recommended) 3.0
- Physical Science 3.0
- ZOOL 2320 Human Anatomy (Strongly recommended for additional Biology or Physical Science) (4.0) 3.0
- Humanities 3.0
- DANC 2110 Orientation to Dance (Fine Arts) 3.0
- Social/Behavioral Science 3.0

Discipline Core Requirements: 91 Credits	
• DANC 1160 Music for Dancers	1.0
• DANC 127R Ballet Technique I (3.0)	
or DANC 227R Ballet Technique II	3.0
• DANC 143R Modern Dance Technique and Theory I	3.0
• DANC 144R Modern Dance Technique and Theory I	3.0
• DANC 1510 Intermediate Jazz Dance	1.0
or DANC 250R Advanced Jazz Dance (2.0)	
• DANC 1610 Dance Conditioning	1.0
• DANC 2330 Improvisation	1.0
• DANC 2340 Composition	2.0
• DANC 243R Modern Dance Technique and Theory II	3.0
• DANC 244R Modern Dance Technique and Theory II	3.0
• DANC 265R Fundamentals of Movement	2.0
• DANC 2670 Introduction to Laban Studies	2.0
• DANC 2700 American Social Dance II	1.0
• DANC 3140 Dance Production and Lighting	2.0
• DANC 3160 Dance Accompaniment	2.0
• DANC 3330 Modern Dance Workshop	2.0
• DANC 3350 Choreography	2.0
• DANC 3400 Dance in the Elementary School	2.0
• DANC 341R Modern Dance Technique and Theory III	3.0
• DANC 342R Modern Dance Technique and Theory III	3.0
• DANC 3450 Modern Dance Teaching Methods	3.0
• DANC 3560 World Dance Forms	2.0
• DANC 3630 Dance History	3.0
• DANC 3680 Dance Kinesiology	4.0
• DANC 4360 Senior Capstone II	2.0
• DANC 4430 Dance Teaching Practicum	3.0
• DANC 4880 Current Issues in Dance	3.0
Education Courses:	
• EDSC 2540 Development of the Adolescent Student	2.0
• EDSC 3000 Educational Psychology	3.0
• EDSP 3400 Exceptional Students	2.0
• EDSC 3050 Foundations of American Education	2.0
• EDSC 3250 Instructional Media	2.0
• EDSC 4440 Content Area Reading and Writing	3.0
• EDSC 4450 Multicultural Instruction/ESL	2.0
• EDSC 4250 Classroom Management II	1.0
• EDSC 4550 Secondary Curriculum Instruction and Assessment	4.0
• EDSC 4850 Student Teaching--Secondary (4.0)	8.0
Graduation Requirements:	
1 Completion of a minimum of 126 semester credits.	
2 Overall grade point average of 2.75 (B-) or above (departments may require a higher GPA).	
3 Residency hours: minimum of 30 credit hours through course attendance at UVSC, with at least 10 hours earned in the last 45 hours.	
4 Completion of GE and specified departmental requirements.	
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 UVSC.	
2 Completion of DANC 2700, DANC 2710, and DANC 2720 with a grade of B- or better.	
3 Completion of DANC 2110, DANC 2330, and DANC 1330 with a grade of B- or better.	
4 Cumulative G.P.A. of 3.0	
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 2700 US History to 1877 (3.0)	
and HIST 2710 US History since 1877 (3.0)	
• HIST 1700 American Civilization (3.0)	
• POLS 1000 American Heritage (3.0)	
• POLS 1100 American National Government (3.0)	
• HIST 1740 US Economic History (3.0)	
Complete the following:	
• PHIL 2050 Ethics and Values	3.0
• HLTH 1100 Personal Health and Wellness	2.0
or PES 1097 Fitness for Life (2.0)	
Distribution Courses	

• Humanities Distribution	3.0
• Social/Behavioral Science	3.0
• DANC 2110 Orientation to Dance (Fine Arts)	3.0
• BIOL 1010 General Biology (strongly recommended for Biology Distribution course)	3.0
• Physical Science	3.0
• Additional Biology or Physical Science (ZOOL 2320 Human Anatomy strongly recommended)	3.0
Discipline Core Requirements: 41 Credits	
• DANC 1160 Music for Dancers	1.0
• DANC 127R Ballet Technique I (3.0)	6.0
or DANC 227R Ballet Technique II (3.0)	
• DANC 1330 Studio Workshop--Creative Process in Dance	1.0
• DANC 143R Modern Dance Technique and Theory I	3.0
• DANC 144R Modern Dance Technique and Theory I	3.0
• DANC 1510 Intermediate Jazz Dance	1.0
or DANC 250R Advanced Jazz Dance (2.0)	
• DANC 1610 Dance Conditioning	1.0
• DANC 2330 Improvisation	1.0
• DANC 2340 Composition	2.0
• DANC 265R Fundamentals of Movement	2.0
• DANC 2670 Introduction to Laban Studies	2.0
• DANC 3140 Dance Production and Lighting	2.0
• DANC 3680 Dance Kinesiology	4.0
• DANC 4350 Senior Capstone I	1.0
• DANC 4360 Senior Capstone II	2.0
• DANC 4880 Current Issues in Dance	3.0
• DANC 4920 Dance as Cultural Practice	3.0
• DANC 3630 Dance History	3.0
Emphasis Requirements: 39 Credits	
• DANC 2700 American Social Dance II	1.0
• DANC 370R American Social Dance III	1.0
• DANC 2710 International Ballroom Dance II	1.0
• DANC 371R International Ballroom Dance III (2 semesters required) (2.0)	2.0
• DANC 471R International Ballroom Dance IV (2 semesters required) (4.0)	4.0
• DANC 2720 Latin Ballroom Dance II	1.0
• DANC 372R Latin Ballroom Dance III (2 semesters required) (2.0)	2.0
• DANC 472R Latin Ballroom Dance IV (2 semesters required) (4.0)	4.0
• DANC 3730 American Social Dance Teaching Methods	2.0
• DANC 4740 International Ballroom Dance Teaching Methods	3.0
or DANC 4750 Latin Ballroom Dance Teaching Methods	
• DANC 376R Ballroom Dance Company Reserve Tour Team (4.0)	4.0
or DANC 476R Ballroom Dance Company Tour Team	
• DANC 3610 Intermediate Dance Conditioning and Injury Prevention	2.0
• MGMT 1010 Introduction to Business	3.0
• PES 2300 Introduction to Fundamentals of Athletic Coaching	2.0
• DANC 3740 Ballroom Dance Choreography	2.0
• DANC 3750 Studies in Ballroom Dance Styles	2.0
• DANC 3670 Movement Analysis	3.0
Emphasis Elective Requirements: 5 Credits	
Choose 5 hours from the following:	5.0
• DANC 1580 Tap Dance I (1.0)	
• MGMT 1600 Fundamentals of Marketing (3.0)	
• DANC 365R Advanced Fundamentals of Movement (2.0)	
• DANC 376R Ballroom Dance Company Reserve Tour Team (2.0)	
or DANC 476R Ballroom Dance Company Tour Team (2.0)	
• DANC 4740 International Ballroom Dance Teaching Methods (3.0)	
or DANC 4750 Latin Ballroom Dance Teaching Methods (3.0)	
• PES 1010 Aerobics I (1.0)	
• PES 1085 Weight Training I (1.0)	
• DANC 1780 Country Western Dance I (1.0)	
• PES 3700 Exercise Physiology (4.0)	
• THEA 4213 Costume Design I (3.0)	
Graduation Requirements:	
1 Completion of a minimum of 120 semester credits; a minimum of 40 credits must be upper division.	
2 Overall grade point average of 2.7 (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 UVSC, with at least 10 hours earned in the last 45 hours.	
4 Completion of GE and specified departmental requirements.	

BFA in Dance 120 CREDITS	
Matriculation Requirements:	
1 By application and audition after completing at least 30 semester hours of college credit at UVSC.	
2 Completion of (DANC 143R and DANC 144R) or (2 semester of DANC 227R); DANC 1330; DANC 2110; and DANC 2330 with no grade lower than a B-.	
3 Cumulative G.P.A. of 2.75	
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 2700 US History to 1877 (3.0)	
and HIST 2710 US History since 1877 (3.0)	
• HIST 1700 American Civilization (3.0)	
• POLS 1000 American Heritage (3.0)	
• POLS 1100 American National Government (3.0)	
• HIST 1740 US Economic History (3.0)	
Complete the following:	
• PHIL 2050 Ethics and Values	3.0
• HLTH 1100 Personal Health and Wellness	2.0
or PES 1097 Fitness for Life (2.0)	
Distribution Courses	
• Humanities Distribution	3.0
• Social/Behavioral Science	3.0
• DANC 2110 Orientation to Dance (Fine Arts)	3.0
• BIOL 1010 General Biology (strongly recommended for Biology distribution)	3.0
• Physical Science	3.0
• Additional Biology or Physical Science	3.0
Discipline Core Requirements: 41 Credits	
• DANC 1160 Music for Dancers	1.0
• DANC 127R Ballet Technique I (3.0)	6.0
or DANC 227R Ballet Technique II (3.0)	
• DANC 1330 Studio Workshop--Creative Process in Dance	1.0
• DANC 143R Modern Dance Technique and Theory I	3.0
• DANC 144R Modern Dance Technique and Theory I	3.0
• DANC 1510 Intermediate Jazz Dance	1.0
or DANC 250R Advanced Jazz Dance (2.0)	
• DANC 1610 Dance Conditioning	1.0
• DANC 2330 Improvisation	1.0
• DANC 2340 Composition	2.0
• DANC 265R Fundamentals of Movement	2.0
• DANC 2670 Introduction to Laban Studies	2.0
• DANC 3140 Dance Production and Lighting	2.0
• DANC 3680 Dance Kinesiology	4.0
• DANC 4350 Senior Capstone I	1.0
• DANC 4360 Senior Capstone II	2.0
• DANC 4880 Current Issues in Dance	3.0
• DANC 4920 Dance as Cultural Practice	3.0
• DANC 3630 Dance History	3.0
Emphasis:	
Complete one of the following:	
• Ballet Emphasis	46.0
• Modern Dance Emphasis	44.0
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 2.75 (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 UVSC, with at least 10 hours earned in the last 45 hours.	
4 Completion of GE and specified departmental requirements.	
Emphasis in Ballet 46 Credits	
Emphasis Requirements: 34 Credits	
• DANC 221R Pointe II (2 semesters required) (1.0)	2.0
• DANC 2250 Character Dance I	1.0
• DANC 2260 Character Dance II	1.0
• DANC 3150 Music for Ballet Dancers	2.0
• DANC 321R Pointe III (2 semesters required) (1.0)	2.0
• DANC 327R Ballet Technique III (2 semesters required) (3.0)	6.0
• DANC 421R Pointe IV (2 semesters required) (1.0)	2.0
or DANC 423R Pointe V (2 semesters required) (1.0)	
• DANC 424R Pas de deux (2 semesters required) (1.0)	2.0

Dance

- DANC 425R Repertory Ensemble (4 semesters required total) (2.0) 8.0
- or DANC 429R Utah Regional Ballet Repertory (4 semesters required total) (2.0)
- DANC 3340 Ballet Choreography 2.0
- DANC 427R Ballet Technique IV (2 semesters required total) (3.0) 6.0
- or DANC 428R Ballet Technique V (2 semesters required total) (3.0)

Emphasis Elective Requirements: 12 Credits
Choose 12 hours from the following: 12.0

- DANC 1700 American Social Dance I (1.0)
- DANC 1710 International Ballroom Dance I (1.0)
- DANC 3610 Intermediate Dance Conditioning and Injury Prevention (2.0)
- DANC 365R Advanced Fundamentals of Movement (2.0)
- DANC 3670 Movement Analysis (3.0)
- DANC 429R Utah Regional Ballet Repertory (2.0)
- THEA 1033 Fundamentals of Acting I (3.0)
- Any DANC course not previously taken.

Emphasis in Modern Dance 44 Credits
Emphasis Requirements: 32 Credits

- DANC 243R Modern Dance Technique and Theory II 3.0
- DANC 244R Modern Dance Technique and Theory II 3.0
- DANC 3160 Dance Accompaniment 2.0
- DANC 3330 Modern Dance Workshop 2.0
- DANC 3350 Choreography 2.0
- DANC 3400 Dance in the Elementary School 2.0
- DANC 341R Modern Dance Technique and Theory III 3.0
- DANC 342R Modern Dance Technique and Theory III 3.0
- DANC 3450 Modern Dance Teaching Methods 3.0
- DANC 346R Modern Dance Performance 2.0
- DANC 3560 World Dance Forms 2.0
- DANC 365R Advanced Fundamentals of Movement 2.0
- or DANC 3670 Movement Analysis (3.0)
- DANC 441R Modern Dance Technique and Theory IV 3.0

Emphasis Elective Requirements: 12 Credits
Choose 12 credits from the following list: 12.0

- 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
Emphasis Requirements: 20 Credits

Prerequisites:

- DANC 1330 Studio Workshop--Creative Process in Dance (1.0)
- DANC 2110 Orientation to Dance (3.0)
- DANC 2670 Introduction to Laban Studies (2.0)
- 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: 6.0

- DANC 227R Ballet Technique II (3.0)
- DANC 327R Ballet Technique III (3.0)
- DANC 427R Ballet Technique IV (3.0)
- DANC 428R Ballet Technique V (3.0)

BA/BS in

Integrated Studies 123 CREDITS

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

Emphasis in Ballroom Dance 20 Credits

Emphasis Requirements: 20 Credits

Prerequisites:

- DANC 1330 Studio Workshop--Creative Process in Dance (1.0)
- DANC 2110 Orientation to Dance (3.0)
- DANC 2670 Introduction to Laban Studies (2.0)
- 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: 6.0

- DANC 1700 American Social Dance I (3.0)
- DANC 1710 International Ballroom Dance I (1.0)

- DANC 1720 Latin Ballroom Dance I (1.0)
- DANC 2700 American Social Dance II (1.0)
- DANC 2710 International Ballroom Dance II (1.0)

- DANC 2720 Latin Ballroom Dance II (1.0)
- DANC 370R American Social Dance III (1.0)
- DANC 371R International Ballroom Dance III (1.0)

- DANC 372R Latin Ballroom Dance III (1.0)
- DANC 3730 American Social Dance Teaching Methods (2.0)

- DANC 376R Ballroom Dance Company Reserve Tour Team (2.0)

- DANC 4740 International Ballroom Dance Teaching Methods (3.0)

- DANC 4750 Latin Ballroom Dance Teaching Methods (3.0)

- DANC 476R Ballroom Dance Company Tour Team (2.0)

BA/BS in

Integrated Studies 123 CREDITS

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

Emphasis in Modern Dance 20 Credits
Emphasis Requirements: 20 Credits

Prerequisites:

- DANC 1330 Studio Workshop--Creative Process in Dance (1.0)
- DANC 2110 Orientation to Dance (3.0)
- DANC 2670 Introduction to Laban Studies (2.0)
- 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: 6.0

- 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)

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@uvsc.edu

Advisor: George Veit

Faculty:

Associate Professor
Christina Veit
Assistant Professor
Kristen Kinatader
George Veit

Staff:

Administrative Assistant
Joyce Henderson

Clinic Manager
Linda Anderson

Advisory Committee: Melinda Tate RDH, Karen Preston RDH, Christina Veit RDH, Alexander Larsen DDS, Gary Weist DDS, George Veit DDS MS, Kristen Kinatader BS, Kelli Deardon - student, Sam Rushforth, Ph.D

School of Science and Health

Dean: Sam Rushforth
Office: PS 201a
Telephone: 801-863-8980

Associate Dean: Bill Evenson
Office: PS 201e
Telephone: 801-863-6440

Assistant Dean: Lori Barber
Office: BA 205c
Telephone: 801-863-8380

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 UVSC 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 program is a two-year program leading to an Associate in Applied Science degree. Upon successful completion of the program, graduates must pass the national, regional and state board examinations to apply for Licensure. Applicants for Licensure in Utah must "produce satisfactory evidence of good moral character as it relates to the practice of...dental hygiene;" (State of Utah Dentists and Dental Hygienists Act Title 58 Chapter 7-7.1). This act includes conviction of a felony or violating the Utah Controlled Substance Act as unprofessional conduct. Applicants to the program who have questions regarding their potential for Licensure should contact the Utah Division of Occupational and Professional Licensure.

Utah Valley State College has been granted accreditation status of "approval without reporting requirements" 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.
3. 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 UVSC'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 UVSC 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 Dental Hygiene program include a \$2,675 program fee per semester for 4 semesters, in addition to UVSC 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 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.

Students will be informed of additional departmental policies following admission to the program.

ADMISSION REQUIREMENTS:

Admission to UVSC does not constitute admission to the Dental Hygiene Program. Admission to the Dental Hygiene Program requires a

Dental Hygiene

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@uvsc.edu or see our departmental website www.uvsc.edu/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 this program.

Transfer of Credits

For information regarding the transfer of credits from other institutions of higher learning for general education and required courses other than Dental Hygiene, please contact the Graduation and Transfer Services office (AD 114, telephone 863-8438). For Dental Hygiene courses, contact the Department of Dental Hygiene after you have been notified of acceptance into the 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 2007. Contact the Dental Hygiene department advisor for Fall 2008 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)

BIOLOGY OR PHYSICAL SCIENCE

- MICR 2060 Microbiology for Health Professions 4.0

PHYSICAL EDUCATION/HEALTH/SAFETY OR ENVIRONMENT

- NUTR 1020 Foundations of Human Nutrition 3.0

Discipline Core Requirements: 61 Credits

Complete the following:

- DENT 1010 Dental Hygiene I 4.0
- DENT 1020 Oral Anatomy and Physiology 4.0
- DENT 2010 Dental Hygiene III 6.0
- DENT 2020 Dental Pharmacology 3.0
- DENT 2030 Periodontology 3.0
- 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 2040 Dental Hygiene IV 6.0
- DENT 2050 Dental Hygiene Seminar 1.0
- DENT 2060 Community Dental Hygiene 3.0
- CHEM 1110 Elementary Chemistry for the Health Sciences 4.0
- COMM 1050 Introduction to Speech Communication 3.0
- or COMM 2110 Interpersonal Communication (3.0)
- PSY 1010 General Psychology 3.0
- ZOOL 2320 Human Anatomy 4.0
- ZOOL 2420 Human Physiology 4.0

Graduation Requirements:

- 1 Completion of a minimum of 81 semester credits
- 2 Overall grade point average of 2.5 or above. All courses must have "C-" or higher.
- 3 Residency hours: minimum of 20 credit hours through course attendance at UVSC.
- 4 Completion of GE and specified departmental requirements

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

- DENT, Dental Hygiene

Diesel Mechanics Technology

Department Chair: Don Wilson

Office: SA 325

Telephone: 801-863-8124

Program Coordinator: Don Ray Nelson

Office: SA 317c

Telephone: 801-863-6320 or

801-863-8349

Faculty:

Associate Professor

Dean Bohl

Don Ray Nelson

Instructor

Kelvyn Blackhurst

Advisor: Carrie Peterson

Office: CS 635

Telephone: 801-863-7454

Office Manager: Katreena Davis

Office: SA 325

Telephone: 801-863-8349

Advisory Committee: Jeff Lyons, Lake City International; Brian Brundage, Lake City International; Jeffery Scott, Scott Machinery; Terry Pollock, Wheeler Machinery; John D. Hawkins, Geneva Rocks Products; Jim French, Cummins Rocky Mountain.

School of Technology and Computing

Interim Dean: Ernest Carey

Office: CS 720

Telephone: 801-863-8321

CAREER OPPORTUNITIES

Diesel Mechanics may be hired as mechanics working on engines, automatic transmissions, drive trains, electrical systems, suspension and steering, hydraulics, and air systems. They work on heavy equipment, farm equipment, and on-highway trucks. Diesel mechanics diagnose, repair, weld, and fine-tune the working parts of buses, trucks, construction machinery, and generators.

PROGRAMS

Four options are available: One-year Certificate, Diploma, and Associate in

Applied Science Degree, and the Bachelor of Science in Technology Management Degree.

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

Certificate in Diesel

Mechanics Technology 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 Operation/Tune Up 4.0
- DMT 112L Diesel Engine Operation/Tune Up Lab 2.0
- DMT 1510 Electrical Systems Theory 4.0
- DMT 151L Electrical Systems Lab 2.0
- DMT 1520 Engine Electronics and Diagnostics Theory 4.0
- DMT 152L Engine Electronics and Diagnostics Lab 2.0
- CLSS 1000 Student Success (3.0)
- or ENGL 106A 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 2.0

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 UVSC.

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 Operation/Tune Up 4.0
- DMT 112L Diesel Engine Operation/Tune Up Lab 2.0
- DMT 1510 Electrical Systems Theory 4.0
- DMT 151L Electrical Systems Lab 2.0
- DMT 1520 Engine Electronics and Diagnostics 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
- CLSS 1000 Student Success (3.0)
- or ENGL 106A 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 2.0

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 UVSC.

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 3.0
- Any approved Behavioral Science, Social, or Political Science Distribution Course 3.0

- Any approved Biology or Physical Science Distribution Course 3.0
- Any approved Physical Education, Health, Safety or Environment Course 1.0

Discipline Core Requirements: 48 Credits

- DMT 1110 Diesel Engine Overhaul 4.0
- DMT 111L Diesel Engine Overhaul Lab 2.0
- DMT 1120 Diesel Engine Operation/Tune Up 4.0
- DMT 112L Diesel Engine Operation/Tune Up Lab 2.0
- DMT 1510 Electrical Systems Theory 4.0
- DMT 151L Electrical Systems Lab 2.0
- DMT 1520 Engine Electronics and Diagnostics 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

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 UVSC.
- 4 Completion of GE and specified departmental requirements.

BS in Technology

Management: 124 CREDITS

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

Specialization in

Diesel Mechanics Technology 48 Credits

Emphasis Requirements: 48 Credits

- DMT 1110 Diesel Engine Overhaul 4.0
- DMT 111L Diesel Engine Overhaul Lab 2.0
- DMT 1120 Diesel Engine Operation/Tune Up 4.0
- DMT 112L Diesel Engine Operation/Tune Up Lab 2.0
- DMT 1510 Electrical Systems Theory 4.0
- DMT 151L Electrical Systems Lab 2.0
- DMT 1520 Engine Electronics and Diagnostics 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

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

Digital Media

Department Chair: Rodayne Esmay

Office: CS 526C
Telephone: 801-863-7050

Business Education Director: Jan Bentley

Office: CS526g
Telephone: 801-863-6362

Department Office: CS 526
Department Telephone: 801-863-MCT3
Department e-mail: MCT @uvsc.edu

Faculty:

Professor

Cynthia Krebs

Associate Professor

Rodayne Esmay
Diane Hartman
Dennis Lisonbee
Chase Mitchell

Assistant Professor

Thor Anderson
Jan Bentley
Trudy Christensen
Michael Harper
Robert Trim
Michael G. Wisland

Lecturer

Benjamin Floyd

Administrative Support: Katrina S. H. Van Cott

Office: CS 526
Telephone: 801-863-6217

Advisor: Bonnie Cook
Telephone: 801-863-8403

School of Technology & Computing

Interim 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; and
- 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 children'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.

PROGRAMS

Students may receive an Associate in Applied Science in Administrative Information Support or Digital Media, an Associate in Science in Administrative Information Management, a Bachelor of Science in Digital Media, or a Bachelor of Science in Business/Marketing Education.

For a program listing for Administrative Information Management see the Administrative Information Management section of the catalog.

For a program listing for Business/Marketing Education see the Business/Marketing Education section of the catalog.

AAS in Digital Communication Technology

64 CREDITS

General Education Requirements: 17 Credits

ENGLISH		
• ENGL 1010	Introduction to Writing	3.0
MATHEMATICS		
• MAT 1010	Intermediate Algebra	4.0
HUMANITIES/FINE ARTS/FOREIGN LANGUAGE		3.0
• PHIL 2050	Ethics and Values (highly recommended) (3.0)	
or	Any approved Humanities, Fine Arts, or Foreign Language Distribution Course	
SOCIAL AND BEHAVIORAL SCIENCE		3.0
• Any approved Behavioral Science, Social or Political Science Distribution Course		
BIOLOGY OR PHYSICAL SCIENCE		3.0
• Any approved Biology or Physical Science Distribution Course		
PHYSICAL EDUCATION/HEALTH/SAFETY OR ENVIRONMENT		1.0
• HLTH 1100	Personal Health and Wellness (2.0)	
or	Any approved PE, Safety or Health Distribution Course	

Discipline Core Requirements: 30 Credits

Complete the following:		
• 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 Cinema Essentials	3.0
• DGM 2120	Web 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: 17 Credits

- Complete 17 credits from approved DGM electives 17.0 (see advisor)

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 UVSC.
- 4 Completion of GE and specified departmental requirements.

BS in Digital Media 121 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)	
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: 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 2240	Interaction Design	3.0
• DGM 3220	Digital Media Project Management	3.0
• DGM 3120	Developing Multimedia for Accessibility	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 Cinema Essentials (3.0)
- DGM 2130 Digital Audio Essentials (3.0)
- DGM 2210 3D Modeling and Animation Essentials (4.0)

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 UVSC, with at least 10 hours earned in the last 45 hours.
- 4 Completion of GE and specified departmental 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 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 Cinema 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
- 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:

- DGM 3120 Developing Multimedia for Accessibility (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 124 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 Cinema 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) 15.0

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

Earth Science

Department Chair: Daniel Horns

Office: EN 115b
Telephone: 801-863-8582 or 863-6295
E-mail: hornsda@uvsc.edu

Advisor: Karli Grover
Office: PS 212a
Telephone: 801-863-8616
E-mail: groverka@uvsc.edu

Program Director for Environmental Management:

Jim Callison
Office: EN 101
Telephone: 801-863-8697

Faculty:

Professor
Paul Tayler
Associate Professor
Michael Bunds
Eddy Cadet
Jim Callison
Daniel Horns
Assistant Professor
Joel Bradford
William Dinklage
Dan Stephen

Staff:

Administrative Assistant
Kellie D. Hancock

School of Science and Health

Dean: Sam Rushforth
Office: PS 201a
Telephone: 801-863-8980

Associate Dean: Bill Evenson
Office: PS 201e
Telephone: 801-863-6440

Assistant Dean: Lori Barber
Office: BA 205c
Telephone: 801-863-8380

Assistant Dean: Louise Illes
Office: PS 201d
Telephone: 801-863-6040

Assistant Dean: David Jordon
Office: PS 201c
Telephone: 801-863-7160

CAREER OPPORTUNITIES

Examples of occupations open to graduates of 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

Discipline Core Requirements: 22 Credits	
• ENVT 1200	Environmental Worker Safety 3.0
• ENVT 1210	Introduction to Water Reclamation (3.0)
or ENVT 1360	Introduction to Water Treatment 3.0
• ENVT 1300	Environmental Lab and Sampling 3.0
• ENVT 3280	Environmental Law 3.0
• ENGL 1010	Introduction to Writing 3.0
• DGM 2010	Business Computer Proficiency 3.0
or Business Computer Proficiency Exam	
• MAT 1010	Intermediate Algebra 4.0
Elective Requirements: 9 Credits	
Must take three of the following courses	
• ENVT 3320	Hydraulics of Water (3.0)
• ENVT 1510	Hazardous Materials Emergency Response (3.0)
• ENVT 3630	Introduction to Geographic Information Systems (4.0)
• ENVT 3790	Hydrology (3.0)
• ENVT 1270	Environmental Microbiology (3.0)
• ENVT 3330	Water Resources Management (3.0)

AS Pre Major

in Physical Science 63 CREDITS	
General Education Requirements: 38 Credits	
• ENGL 1010	Introduction to Writing 3.0
• ENGL 2010	Intermediate Writing--Humanities/Social Sciences 3.0
or ENGL 2020	Intermediate Writing--Science and Technology (3.0)
• MATH 1050	College Algebra 4.0
Complete one of the following: 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
• PHYS 2210	Physics for Scientists and Engineers I 4.0
• PHYS 2220	Physics for Scientists and Engineers II 4.0
• Humanities Distribution	3.0
• Fine Arts Distribution	3.0
• Social/Behavioral Science	3.0
Discipline Core Requirements: 17 Credits	
• CHEM 1210	Principles of Chemistry I 4.0
• CHEM 1215	Principles of Chemistry I Laboratory 1.0
• MATH 1210	Calculus I 5.0
• MATH 1220	Calculus II 5.0
• PHYS 2215	Physics for Scientists and Engineers I Lab 1.0
• PHYS 2225	Physics for Scientists and Engineers II Lab 1.0
Elective Requirements: 8 Credits	
Complete 8 credits from the following: 8.0	
• CHEM 1220	Principles of Chemistry II (4.0)
• CHEM 2310	Organic Chemistry I (4.0)

- CHEM 2315 Organic Chemistry I Laboratory (1.0)
- CHEM 2325 Organic Chemistry II Laboratory (1.0)
- ENGR 2450 Computational Methods for Engineering Analysis (3.0)
- GEO 1010 Introduction to Geology (3.0)
- GEO 1220 Historical Geology (3.0)
- GEO 1080 Introduction to Oceanography (3.0)
- MATH 2210 Calculus III (3.0)
- MATH 2040 Principles of Statistics (4.0)
- MATH 2270 Linear Algebra (3.0)
- MATH 2280 Ordinary Differential Equations (3.0)
- METO 1010 Introduction to Meteorology (3.0)

Graduation Requirements:

1. Completion of a minimum of 63 semester credits.
2. Overall grade point average of 2.0 (C) or above (departments may require a higher GPA).
3. Residency hours: minimum of 20 credit hours through course attendance at UVSC.
4. Completion of GE and specified departmental requirements.

BS in Earth Science 121-123 CREDITS

General Education Requirements: 27 Credits	
• ENGL 1010	Introduction to Writing 3.0
• ENGL 2020	Intermediate Writing--Science and Technology 3.0
• MATH 1050	College Algebra 4.0
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*	
• Physical Science*	
• Additional Biology or Physical Science*	
• Humanities Distribution	3.0
• Fine Arts Distribution	3.0
• Social/Behavioral Science	3.0
Discipline Core Requirements: 56 Credits	
• BIOL 1010	General 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
• CHEM 3020	Environmental Chemistry 3.0
• GEO 1010	Introduction to Geology 3.0
• GEO 1015	Introduction to Geology Laboratory 1.0
• GEO 3080	Earth Materials 4.0
• GEO 3210	Environmental Geology 4.0
• MATH 1060	Trigonometry 3.0
• MATH 2040	Principles of Statistics 4.0
Complete 21 credits from the following list: 21.0	
• BIOL 3800	Conservation Biology (3.0)
or BIOL 4500	Principles of Evolution (3.0)
• ENVT 2730	Introduction to Soils (3.0)
• ENVT 3280	Environmental Law (3.0)
• ENVT 3290	Environmental Permits and Reports (3.0)
• ENVT 3790	Hydrology (3.0)
• ENVT 482R	Geologic/Environmental Internship (1.0)
or GEO 482R	Geologic/Environmental Internship (1.0)
• GEOG 3630	Introduction to Geographic Information Systems (4.0)
• GEO 1220	Historical Geology (3.0)
and GEO 1225	Historical Geology Laboratory (1.0)
• GEO 1080	Introduction to Oceanography (3.0)
and GEO 1085	Introduction to Oceanography Laboratory (1.0)
• GEO 3400	Forensic Geology (4.0)
• METO 1010	Introduction to Meteorology (3.0)
and METO 1020	Introduction to Meteorology Laboratory (1.0)
• METO 3100	Earth Systems (3.0)
Emphasis:	
Complete one of the following:	
* Environmental Management	40.0
or Geology	38.0
Graduation Requirements:	
1. Completion of a minimum of 121-123 semester credits.	
2. Overall grade point average of 2.0 (C) or above.	
3. Grade of C- or better in every GEO course.	

- 4 Residency hours--minimum of 30 credit hours through course attendance at UVSC, with at least 10 hours earned in the last 45 hours.
- 5 Completion of GE and specified departmental requirements.
- Note: *This requirement is satisfied within the discipline core requirements.

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 3850 Environmental Policy 3.0

Emphasis Elective Requirements: 18 Credits

Take 18 credits from the following: 18.0

- ENVT 1210 Introduction to Water Reclamation (3.0)
- ENVT 1360 Introduction to Water Treatment (3.0)
- ENVT 2600 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 495R 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 3700 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 Requirements:

- 1 Complete the following courses: GEO 1010, GEO 1015, MATH 1050, MATH 1060, BIOL 1610 with a grade of "C-" or higher in each.
- 2 Complete a minimum of 30 semester hours of college credit.
- 3 Apply to the department of Earth Science for admission.

General Education Requirements: 27 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)
- 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*
- Physical Science*

- Additional Biology or Physical Science* 3.0
 - Humanities Distribution 3.0
 - Fine Arts Distribution 3.0
 - Social/Behavioral Science 3.0
- #### Discipline Core Requirements: 84 Credits
- PHYS 1040 Elementary Astronomy 3.0
 - BIOL 1010 General Biology 3.0
 - BIOL 2500 Environmental Biology 3.0
 - CHEM 1210 Principles of Chemistry I 4.0
 - CHEM 1215 Principles of Chemistry I Laboratory 1.0
 - CHEM 1220 Principles of Chemistry II 4.0
 - CHEM 1225 Principles of Chemistry II Laboratory 1.0
 - GEO 1010 Introduction to Geology 3.0
 - GEO 1015 Introduction to Geology Laboratory 1.0
 - GEO 3080 Earth Materials 4.0
 - GEO 3700 Structure and Tectonics 4.0
 - GEO 4500 Sedimentary Geology 4.0
 - GEO 4200 Teaching Methods in Science 3.0
 - MATH 1060 Trigonometry 3.0
 - METO 3100 Earth Systems 3.0
 - PHYS 2010 College Physics I 4.0
 - PHYS 2015 College Physics I Lab 1.0
 - PHYS 2020 College Physics II 4.0
 - PHYS 2025 College Physics II Lab 1.0

Education Courses

- 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 4450 Multicultural Instruction/ESL 2.0
- EDSC 4440 Content Area Reading and Writing 3.0
- EDSC 4550 Secondary Curriculum Instruction and Assessment 4.0
- EDSC 3250 Instructional Media 2.0
- EDSC 4200 Classroom Management I 1.0
- EDSC 4250 Classroom Management II 1.0
- EDSC 4850 Student Teaching--Secondary (4.0) 8.0

Elective Requirements: 10 Credits

Any 10 credit hours of the student's choosing. 10.0

Graduation Requirements:

- 1 Completion of a minimum of 121 semester credits.
- 2 Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
- 3 Residency hours -- minimum of 20 credit hours through course attendance at UVSC.
- 4 Completion of GE and specified departmental requirements.
- 5 Grade of C- or higher in all GEO, BIOL, and METO courses.

Note: *This requirement is fulfilled with the core requirements.

Minor in Earth Science 23 CREDITS

Matriculation Requirements:

- 1 Admitted to a bachelor degree program at UVSC.

Discipline Core Requirements: 23 Credits

- GEO 1010 Introduction to Geology 3.0
 - and GEO 1015 Introduction to Geology Laboratory 1.0
 - and GEO 3080 Earth Materials 4.0
- Complete two from: 7.0
- GEO 1020 Prehistoric Life (3.0)
 - or GEO 1080 Introduction to Oceanography (3.0)
 - and GEO 1085 Introduction to Oceanography Laboratory (1.0)
 - or METO 1010 Introduction to Meteorology (3.0)
 - and METO 1020 Introduction to Meteorology Laboratory (1.0)

Complete two from: 8.0

- 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)

BA/BS in

Integrated Studies 123 CREDITS

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

Emphasis in Earth Science 18 Credits

Emphasis Requirements: 18 Credits

Earth Science Emphasis:

- GEO 1010 Introduction to Geology 3.0
- GEO 1015 Introduction to Geology Laboratory (highly recommended) (1.0)

Complete one of the following sets (lab is highly recommended) 3.0

- GEO 1220 Historical Geology (3.0)
- and GEO 1225 Historical Geology Laboratory (1.0)
- or GEO 1080 Introduction to Oceanography (3.0)

- and GEO 1085 Introduction to Oceanography Laboratory (1.0)
- or METO 1010 Introduction to Meteorology (3.0)
- and METO 1020 Introduction to Meteorology Laboratory (1.0)

Complete three courses from the following: 12.0

- METO 3100 Earth Systems (3.0)
- and 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)
- 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

Education, Elementary

Elementary Education

Department Chair: Susan Simmerman

Office: EB 116A
Telephone: 801-863-5097

Department Office Manager: Cathlyn Schuman

Office: EB 116
Telephone: 801-863-8228

Elementary Education Faculty:

Professor

Elaine Byrd

Associate Professor

Linda Benson
Briant Farnsworth
Nancy Peterson
Linda Pierce

Assistant Professor

Stan Harward
Susan Simmerman
Elaine Tuft

Field Director: Richard Allred
Office: EB 112b
Telephone: 801-863-6580

Early Childhood Education Faculty:

Associate Professor

Genan Anderson

Lecturer

Tracy Sermon

Advisors:

Leslie Hudson
Office: EB 114F
Telephone: 801-863-8527

Shaunna Requilman
Office: EB 114A
Telephone: 801-863-6555

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

School of Education

Dean: Briant J. Farnsworth

Office: EB 117B
Telephone: 801-863-8006

Dean's Assistant: Wendi Hillman
Office: EB 117
Telephone: 801-863-6543

Elementary Education Partner Schools:

Alpine School District - Elementary Schools: Alpine, Aspen, Barrett, Cedar

Ridge, Deerfield, Foothill, Greenwood, Legacy, Lehi, Mt. Mahogany, Orem, Saratoga Shores, Scera Park, Sego Lily, Valley View, Vineyard, Westfield, Windsor

Granite School District - Elementary Schools: Frost, Oakwood

Jordan School District - Elementary Schools: Herriman, Ridgecrest, Foothills

Nebo School District - Elementary Schools: Brockbank, Grant, Rees, Salem, Parkview.

Provo School District - Elementary Schools: Amelia Earhart, Canyon Crest, Provost, Wasatch.

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 schools, teacher aide in special education classes, owner and/or director of preschool or child care centers.

Professional Elementary Teacher Education Program

Career opportunities primarily result from admission to and completion of the UVSC four-year Professional Elementary Teacher Education program. Students may pursue a license in Elementary Education (grades 1-8) or a dual license in Elementary Education and Early Childhood Education (grades P-8). They may also transfer to other professional teacher education programs in the state and nation, or other areas of professional education. Certain Elementary Education courses (EDEL) and Early Childhood Education courses (EDEC) transfer to other institutions offering these programs.

DEGREES

Four Elementary Education or Early Childhood Education degree options are available: One-year Certificate in Early Care and Education, Associate in Science (AS) in Early Childhood Education or in Pre-Elementary Education Baccalaureate degree (BS) with a major in Elementary Education leading to a Utah State Level I Teaching License in Elementary Education (and/or a Dual Licensure with Early Childhood Education)

PRE-PROFESSIONAL PROGRAMS

Early Childhood Education Program

The Early Care and Education program is

strongly aligned with community needs and 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 observations and course work carried out at the UVSC 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 all hold teaching licenses through the State of Utah. The Children's Center is accredited through NAEYC.

Early Childhood and Pre - Education Associate Degree Program

The Associate Degree in Early Childhood and Pre - Education are closely aligned with the professional elementary education program at UVSC. The Associate Degree provides a seamless educational experience whose courses fill preprogram and program requirements for the Elementary Education Baccalaureate and the dual licensure program.

Elementary Teacher Education Program

The professional teacher education program at Utah Valley State College is designed to prepare entry level candidates for teaching in elementary schools and early childhood education programs. Students successfully completing the professional teacher education program at Utah Valley State College graduation and licensure requirements in Elementary Education receive a baccalaureate degree from the School of Education, Department of Elementary Education and a Level I Utah State Professional Teaching License for grades 1-8. Elementary Education students completing additional course requirements in early childhood earn a dual Level I Utah State Professional Teaching License covering grades P-3 and 1-8. The UVSC teacher education program is accredited by the Utah State Office of Education and the Northwest Commission on Colleges and Universities.

Admission and Retention

Admission to the Elementary Teacher Education or Elementary Education/ Early Childhood Education program is a competitive, multi-level process separate from and in addition to admission to Utah Valley State College. Meeting the minimum requirements only qualifies the student to be considered for admission. It is likely that all students who meet minimum requirements will not be admitted due to enrollment limitations.

Admission to Professional Education program status is a requirement for enrollment in professional studies level

Elementary Education

courses. Admission criteria include: 1) Minimum ACT composite score of 20 or higher with no individual score lower than 18; 2) GPA of 3.0 or higher; 3) A writing exam; and 4) An interview conducted by the Teacher Education Selection and Retention Committee. Acceptance into the professional program is contingent upon completion of required pre-professional program courses as well as meeting minimum entrance requirements. A predetermined number of applicants will be accepted into professional cohorts each year.

To continue in the professional program, elementary education students are expected to maintain all program standards as stated in the department transition points policy. They must maintain expected levels of competence in all coursework, field work, and student teaching with no grade lower than a B- in any professional level course. 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) Elementary Teaching License may pursue re-licensing course work through the Teacher Education Program at UVSC.

Certificate in Early Care and Education 30 CREDITS

Discipline Core Requirements: 28 Credits		
• PSY 1100	Human Development Life Span (C grade or higher)	3.0
• EDEC 1640	Childrens Music and Movement	2.0
• EDEC 2300	Including Young Diverse Learners	2.0
or EDSP 3400	Exceptional Students (2.0)	
• EDEC 2500	Child Development Birth to Eight Years	3.0
• EDEC 2600	Introduction to Early Childhood Education	2.0
• EDEC 2610	Child Guidance	3.0
• EDEC 2620	Early Childhood Curriculum	3.0
• EDEC 2640	Literacy and Literature for Early Childhood	3.0
• EDEC 2700	Early Childhood Practicum	3.0
• EDEC 2720	Early Childhood Assessment	2.0
• EDEL 2200	Computer Technology in Education	2.0

Elective Requirements: 2 Credits		
• Advisor Approval		2.0

Graduation Requirements:		
1	Completion of a minimum of 30 semester credits.	
2	Overall grade point average of 2.0 (C) or above. C-grade or higher in all program courses unless otherwise specified.	
3	Residency hours -- minimum of 10 credit hours through course attendance at UVSC.	
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
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 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: 23 Credits

• EDEL 2200	Computer Technology in Education	2.0
• EDEC 2300	Including Young Diverse Learners	2.0
• EDEC 2500	Child Development Birth to Eight Years	3.0
• EDEC 2600	Introduction to Early Childhood Education	2.0
• EDEC 2610	Child Guidance	3.0
• EDEC 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

Elective Requirements: 1 Credit		
or Any Advisor Approved elective		1.0

Graduation Requirements:		
1	Completion of a minimum of 60 semester credits.	
2	Overall grade point average of 2.0 (C) or above. C-grade or higher in all program classes unless otherwise specified.	
2	Residency hours -- minimum of 20 credit hours through course attendance at UVSC.	
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
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 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 (Social/Behavioral Science)	3.0

Discipline Core Requirements: 15 Credits

Complete the following:		
• EDEL 2200	Computer Technology in Education	2.0
• EDEL 1010	Introduction to Education	2.0
• EDEL 2330	Childrens Literature	3.0
• EDSP 3400	Exceptional Students	2.0
• MATH 2010	Mathematics for Elementary Teachers I	3.0
• MATH 2020	Mathematics for Elementary Teachers II	3.0

Elective Requirements: 12 Credits		
Complete 12 of course 1000 or higher. The following is a list of recommended courses to choose from (the courses required for a degree in Early Childhood License are grouped together):		12.0

• ART 3400	Fundamentals of Art Education (3.0)	
• MUSC 3400	Music in the Elementary School (2.0)	

• DANC 3400	Dance in the Elementary School (2.0)	
• THEA 3713	Childrens Theatre in the Elementary School (2.0)	
• PHIL 3450	Philosophy of Childhood (3.0)	
Early Childhood License		
• EDEC 2300	Including Young Diverse Learners (2.0)	
• EDEC 2500	Child Development Birth to Eight Years (3.0)	
• EDEC 2600	Introduction to Early Childhood Education (2.0)	
• EDEC 2610	Child Guidance (3.0)	
• EDEC 2640	Literacy and Literature for Early Childhood (3.0)	
• EDEC 3620	Curriculum Foundations for Preprimary (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 UVSC.	
4	Completion of GE and specified departmental requirements.	

BS in Early Childhood Education 123 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)	
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 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: 87 Credits

Pre-Professional Courses:*		
• EDEC 2500	Child Development Birth to Eight Years	3.0
• EDEC 2600	Introduction to Early Childhood Education	2.0
• EDEC 2610	Child Guidance	3.0
• EDEC 2620	Early Childhood Curriculum	3.0
• EDEC 2640	Literacy and Literature for Early Childhood	3.0
• EDEC 2700	Early Childhood Practicum	3.0
• EDEC 2720	Early Childhood Assessment	2.0
• EDEL 2200	Computer Technology in Education	2.0
• EDEL 2330	Childrens Literature	3.0
• EDSP 3400	Exceptional Students	2.0
• MATH 2010	Mathematics for Elementary Teachers I	3.0
• MATH 2020	Mathematics for Elementary Teachers II	3.0

Professional Education Courses:		
• EDEC 3000	Educational Psychology	3.0
• EDEC 3050	Foundations of American Education	2.0
• EDEC 3250	Instructional Media	2.0
• EDEC 3300	Multicultural Understanding	2.0
• EDEC 3350	Curriculum Design and Assessment	3.0
• EDEC 4110	Problem Solving Methods in ECE	3.0
• EDEC 4120	Early Childhood Science Methods	3.0
• EDEC 4130	Creative Arts Methods in ECE	2.0
• EDEC 4140	Early Childhood Social Studies Methods	3.0

• EDEC 4200	Classroom Management I	1.0
• EDEC 4210	Classroom Management II	1.0
• EDEC 4230	Classroom Management III	1.0
• EDEC 4240	Classroom Management IV	1.0
• EDEC 4400	Literacy Methods I	3.0
• EDEC 4410	Literacy Methods II	3.0
• EDEC 4420	Language Arts Methods	3.0

Elementary Education

• EDEC 4430	Teaching English as a Second Language	3.0
• EDEC 4620	Differentiation for Special Populations	3.0
• EDEC 4700	Educational Leadership for Elementary Teachers	1.0
• EDEC 4860	Student Teaching Prekindergarten	4.0
or EDEC 4870	Student Teaching Kindergarten (4.0)	
• EDEL 4880	Student Teaching--Grades 1-3	4.0
• EDEL 4980	Elementary Education Capstone Seminar	2.0
or EDEC 4980	Early Childhood Education Capstone Seminar (2.0)	
• PETE 3400	Elementary Classroom Teachers as Movement Educators	2.0

Graduation Requirements:

- 1 Completion of a minimum of 123 semester credits.
- 2 Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
- 3 Residency hours -- minimum of 30 credit hours through course attendance at UVSC, with at least 10 hours earned in the last 45 hours.
- 4 Completion of GE and specified departmental requirements.

NOTE: Application forms are available at the beginning of each Spring semester, must be completed by March 1st, and can be obtained in the Education Department, 801-863-8527.

Footnotes:

- * Students must complete all Pre-Professional and General Education courses with an overall GPA of 3.0 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

• 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)	
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 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
• EDEL 2330	Childrens Literature	3.0
• EDSP 3400	Exceptional Students	2.0
• MATH 2010	Mathematics for Elementary Teachers I	3.0
• MATH 2020	Mathematics for Elementary Teachers II	3.0

Professional Education Core Requirements:

• EDEL 3000	Educational Psychology	3.0
• EDEL 3050	Foundations of American Education	2.0
• EDEL 3250	Instructional Media	2.0
• EDEL 3300	Foundations of Bilingual/ESL Classroom	3.0
• EDEL 3350	Curriculum Design and Assessment	3.0
• EDEL 4200	Classroom Management I	1.0
• EDEL 4210	Classroom Management II	1.0
• EDEL 4230	Classroom Management III	1.0
• EDEL 4240	Classroom Management IV	1.0
• EDEL 4400	Literacy Methods I	3.0
• EDEL 4410	Literacy Methods II	3.0
• EDEL 4420	Language Arts Methods	3.0
• EDEL 4430	Teaching English as a Second Language	3.0
• EDEL 4510	Elementary Math Methods	3.0
• EDEL 4520	Elementary Science Methods	3.0
• EDEL 4530	Elementary Social Studies Methods	3.0

• EDEL 4540	Elementary Creative Arts Methods	2.0
• EDEL 4620	Differentiation for Special Populations	3.0
• EDEL 4700	Educational Leadership for Elementary Teachers	1.0
• EDEL 4880	Student Teaching--Grades 1-3	4.0
• EDEL 4890	Student Teaching--Grades 4-6	4.0
• EDEL 4980	Elementary Education Capstone Seminar	2.0
• PETE 3400	Elementary Classroom Teachers as Movement Educators	2.0

Elective Requirements: 15 Credits

Complete 14 credits of the following approved electives (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 2600	Introduction 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

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 UVSC, with at least 10 hours earned in the last 45 hours.
- 4 Completion of GE and specified departmental requirements.

NOTE: Application forms are available at the beginning of each Spring semester, must be completed by March 1st, and can be obtained in the Education Department, 801-863-8527.

Footnotes:

- * Students must complete all Pre-Professional and General Education courses with an overall GPA of 3.0 and be formally admitted into the Teacher Preparation program before they will be admitted into Professional courses.

Due to the technical nature of material in many of the Education courses, additional reading and math instruction may be required. More information on these potential requirements will be provided during advisement.

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

Secondary Education

Department Chair: Roger Wise

Office: EB 116B
Telephone: 801-863-8499

Department Office Manager: Cathy Schumann

Office: EB 116
Telephone: 801-863-8228

Secondary Education Faculty:

Professor

Roger Wise

Assistant Professor

Glen Clark
Numsiri Kunakemakorn
Axel Ramirez
Taliitha Hudgins

Field Director: Susan Stone
Office: EB 112N
Telephone: 801-863-8587

Advisor: Lexi Powell
Office: EB 114B
Telephone: 863-8217

School of Education

Dean: Briant J. Farnsworth

Office: EB 117B
Telephone: 801-863-8006

College Secondary Education Committee:

School of Technology and Computing
- Kelly Baird, Ernest Carey, Bonnie Cook, Diane Hartman, Jan Bentley.

School of Education - Briant Farnsworth, Numsiri Kunakemakorn, Axel Ramirez, Roger Wise.

School of Humanities, Arts and Social Sciences - Douglas Anderson, Dawn Chase, William Cobb, Kay Smith, Kim Strunk, Doris Trujillo, Sandy Vogel, David Wilson

School of Science and Health - Dennis Allison, Calvin Bond, Vance Hillman, Daniel Horns, Shaunna McGhie, Christine Walker, Dee Oyler, Sam Rushforth, Paul Tayler, Richard Tolman.

Associate Vice President of Academic Affairs - Karl Worthington

Vice President of Academic Affairs - Elizabeth J. Hitch

PROFESSIONAL EDUCATION PROGRAMS

Career opportunities result from completion of the UVSC four-year Professional Teacher Education Program which qualifies students for a License in Secondary Education. Certain EDSC courses transfer to other institutions offering these programs.

DEGREES

Baccalaureate degrees (BA and BS) are available in Secondary Education. See advisor for major and minor requirements.

TEACHER EDUCATION PROGRAMS

Bachelor of Science and Bachelor of Arts degrees are available in ASL and Deaf Studies Education, Biology Education, Business Marketing Education, Chemistry/Physics Education, Dance Education, Earth Science Education, English Education, History Education, Mathematics Education, Physical Education Teacher Education, Theatre Arts Education, School Health Education, and Spanish Education.

The professional teacher education program at Utah Valley State College is designed to prepare quality candidates for teaching in Utah secondary education. All students who matriculate into the program must have a major. The Secondary Education program leads to a License from the State of Utah to teach in grades 6-12. The UVSC teacher education program is accredited by the Utah State Office of Education and Northwest Association.

Admission to the teacher education program is a multi-level process separate from and in addition to admission to Utah Valley State College. Meeting the minimum requirements only qualifies the student to be considered for admission; it is possible that students who meet minimum requirements will not be admitted due to enrollment limitations.

PROGRAM ADMISSION AND RETENTION

Admission to Professional Education status is a requirement for enrollment in professional studies level courses. Admission criteria include: 1) Minimum ACT scores; 2) GPA of 2.75 or higher; 3) A CAAP writing exam; and 4) An interview directed by the Teacher Education Selection and Retention Committee. Applicants are accepted into the Teacher Education Program Fall and Spring semesters after meeting entrance requirements.

To continue in the program, Professional

Education students are expected to maintain all standards at or above levels required for admission to the Teacher Education Program and demonstrate expected levels of competence in all course work and field activities leading to a License with no grade lower than a B- in the professional program and method courses. Additionally, students and 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) Secondary License may pursue re-licensing course work through the School of Education.

Licensure in Secondary Education

30 CREDITS

Matriculation Requirements:

- 1 Minimum ACT Scores
- 2 GPA of 2.75 or higher
- 3 A CAAP written exam
- 4 An interview directed by the Teacher Education Selection and Retention Committee.

Discipline Core Requirements: 30 Credits

• 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 4440	Content Area Reading and Writing	3.0
• EDSC 4450	Multicultural Instruction/ESL	2.0
• EDSC 4550	Secondary Curriculum Instruction and Assessment	4.0
• EDSC 4850	Student Teaching--Secondary (4.0)	8.0
• EDSP 3400	Exceptional Students	2.0

Due to the technical nature of material in many of the Education courses, additional reading and math instruction may be required. More information on these potential requirements will be provided during advisement.

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

Electrical Automation and Robotics Technology

**Department of Engineering
Graphics and Design Technology**

Department Chair: David Manning

Office: CS 704f
Telephone: 801-863-8085

Program Coordinator: Dave Adams

Office: CS 620
Telephone: 801-863-6052

Faculty:

Professor
Larey Lawrence
Associate 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, Kennecott; Amy Rawlinson, IM Flash Technologies; Russ Terry, Codale Electric Supply, Inc.

School of Technology and Computing

Interim 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 (ie 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 106A Career Writing for Technology--A	2.0
• Any approved Humanities or Fine Art	3.0
• Any approved Behavioral Science, Social, or Political Science Distribution Course	3.0
• Any approved Physical Education, Health, Safety, or Environment Course	1.0
• Any approved Biology or Physical Science	2.0
• EART 1050 Applied Electrical Math	5.0
Discipline Core Requirements: 17 Credits	
• EART 1130 Basic Electrical	4.0
or ECT 1010 Basic Electronics--DC/AC (4.0)	
or ECT 1060 Electrical Science I (2.0)	
and ECT 1070 Electrical Science II (2.0)	
• EART 1260 Logic	2.0

• EART 2110 Semiconductors Devices	6.0
• EART 2160 Industrial Solid State Circuit	5.0

Emphasis:

Complete one of the following:

• Electrical Automation	30.0
• Semiconductor Instrumentation and Maintenance	30.0

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 UVSC
- 4 Completion of GE and specified departmental requirements

Emphasis in

Electrical Automation 30 Credits

Emphasis Requirements: 30 Credits	
• EART 1180 Basic Electrical Lab	5.0
• EART 1250 Electrical Wiring and Code	2.0
• EART 1270 DC and AC Machines	9.0
• EART 2150 Hydraulics and Pneumatics	3.0
• EART 2250 Programmable Logic Controllers 1	5.0
• EART 2270 Programmable Logic Controllers 2	6.0

Emphasis in

Semiconductor Instrumentation and Maintenance 30 Credits

Emphasis Requirements: 30 Credits	
• ECT 101L DC/AC Circuits Laboratory	2.0
• EART 1440 DC Motors	3.0
• EART 144L DC Motors Lab	1.0
• EART 1450 AC Motors	3.0
• EART 145L AC Motors Laboratory	1.0
• EART 2450 Hydraulics and Pneumatics Fundamentals	2.0
• EART 245L Hydraulics and Pneumatics Fundamentals Laboratory	1.0
• ECT 1720 System Configurations	3.0
• ECT 281R Cooperative Work Experience (must repeat seven times) (1.0)	7.0
• ECT 285R Cooperative Correlated Class	1.0
• EART 2750 Programmable Controllers (3.0)	
and EART 275L Programmable Controllers Laboratory (2.0)	
or ECT 2310 Microprocessor and Computer Systems	4.0
• EART 1250 Electrical Wiring and Code	2.0
or BIT 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/Social Sciences	3.0
or ENGL 2020 Intermediate Writing--Science and Technology (3.0)	
Complete one of the following:	3.0
• MATH 1030 Quantitative Reasoning (3.0)	
• MATH 1040 Introduction to Statistics (3.0)	
• MATH 1050 College Algebra (4.0)	
Complete one of the following:	3.0
• HIST 2700 US History to 1877 (3.0)	
and HIST 2710 US History since 1877 (3.0)	
• HIST 1700 American Civilization (3.0)	
• HIST 1740 US Economic History (3.0)	
• POLS 1000 American Heritage (3.0)	
• POLS 1100 American National Government (3.0)	
Complete the following:	
• 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 EART or related courses (1000 level or higher)	16.0
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Elective Requirements: 12 Credits

• Electives (1000 level or higher)	12.0
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Graduation Requirements:

- 1 Completion of a minimum of 63 semester credits.
- 2 Overall grade point average of 2.0 (C) or above (Department may require a higher GPA.)

- 3 Residency hours-- minimum of 20 credit hours through course attendance at UVSC.
- 4 Completion of GE and specified departmental requirements.

BS in Technology

Management 124 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

Emphasis Requirements: 44 Credits		
• EART 1130	Basic Electrical	4.0
• EART 1050	Applied Electrical Math	5.0
• EART 1180	Basic Electrical Lab	5.0
• EART 1260	Logic	2.0
• EART 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 Circuit	5.0
• EART 2250	Programmable Logic Controllers 1	5.0

Elective Requirements: 1 Credits		
Electives in EART based on chosen option (students must see advisor for list of approved course options).		1.0

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

Emergency Services

Department Chair: Jeff Maxfield

Associate Department Chair: Gary Noll

Program Coordinators:

Barry Stone, Paramedic
Margaret Mittelman, EMT

Faculty:

Associate Professor

Gary Noll
Jon Shields
Barry Stone

Assistant Professor

Jeff Maxfield

Instructors

Margaret Mittelman

Advisor:

Yudi Lewis

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: 801-371-0334
<http://www.ufra.uvsc.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 State College; Darryl Pranger, Utah Valley State College; Wayne Hanewicz, Utah Valley State College; Larry Marsing, Utah Valley State College; Ron Morris, Utah State Fire Marshal; Gary Noll, Utah Valley State College; Charles Querry, 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's Robert Bennett's Office (ad hoc).

School of Technology And Computing

Interim 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, evenings and weekends. Classes designed primarily for working firefighters are scheduled on a weekend or seminar basis, and are often available for either college credit or continuing education credit. The seminar sessions are not always listed in the College semester schedule, but are announced through the bi-monthly Straight Tip newsletter. For more information on currently scheduled classes, call (801) 863-7700, or check our web page at www.ufra.uvsc.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 FSF 1310, 1320, 1330, and 1340. Enrollment is done by means of a program application process. Prior to enrollment, students must:

1. Complete all UVSC admission requirements.
2. Meet with an Emergency Services Advisor.
3. Complete FSF 1000 and FSF 1140 courses with at least a "C-"
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. ACT or SAT reports may not be older than 10 years.
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. Pass a Recruit Candidate Academy review board.

Paramedic program courses FSE 2500, 2510, 2520, and 2530. 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-310 for certification as a paramedic in the state of Utah.
5. Have at least one year's experience as an EMT-Basic and have current CPR certification.
6. Be at least 18 years old and have a valid driver's license.
7. Have current vaccinations, including Hepatitis B, MMR and Tetanus.
8. Have current TB test results.

- Complete a medical history form and obtain a current physical examination.
- Pass a paramedic course entry examination and interview.

PROGRAMS

Five options are available: (1) One-Year Certificate, (2) Associate in Applied Science Degree, Fire Science 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 in Public Emergency Services Management, (5) Bachelor of Science in Technology Management degree with a Technical Specialty in Fire Science.

Students may earn only one Associate in Applied Science Degree in Fire Science that is posted to the UVSC transcript.

Certificate in Firefighter

Recruit Candidate 33 CREDITS

Discipline Core Requirements: 33 Credits

- Complete the following:
- ENGL 1010 Introduction to Writing 3.0
 - or ENGL 1060 Career Writing for Technology (3.0)
 - FSF 1000 Survey of Fire and Rescue Emergency Services 3.0
 - FSE 1140 Emergency Medical Technician--Basic 6.0
 - FSF 1310 Recruit Candidate Academy--Fundamentals 8.0
 - FSF 1320 Recruit Candidate Academy--Skills 3.0
 - FSF 1330 Recruit Candidate Academy--Operations 3.0
 - FSF 1340 Hazardous Materials First Responder 3.0
 - MAT 1010 Intermediate Algebra 4.0
 - or MAT 1000 Integrated Beginning and Intermediate Algebra (5.0)

Graduation Requirements:

- Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)

Note: CERTIFICATION: Upon completion of courses for the Basic Recruit Certificate, students are eligible to apply for certification at the Firefighter I, Firefighter II, Hazardous Materials First Responder-Awareness and Hazardous Materials First Responder-Operations levels through the Utah Fire Science Certification System. Students are also eligible for certification at the Emergency Medical Technician-Basic level through the Utah Bureau of Emergency Medical Services.

Certificate in Paramedic 34 CREDITS

Discipline Core Requirements: 34 Credits

- Complete the following:
- FSE 2500 Paramedic I 5.0
 - FSE 2510 Paramedic I Lab 3.0
 - FSE 2520 Paramedic II 7.0
 - FSE 2530 Paramedic III 4.0
 - FSE 2540 Paramedic IV 6.0
 - FSE 2550 Paramedic Work Experience 6.0
 - ZOOL 1090 Introduction to Human Anatomy and Physiology 3.0

Graduation Requirements:

- Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.) Upon completion, students are eligible to apply for certification as an Emergency Medical Technician/Paramedic through the Utah Bureau of Emergency Medical Services.

AAS in Fire Science 63 CREDITS

General Education Requirements: 16 Credits

- ENGL 1010 Introduction to Writing 3.0
- or ENGL 1060 Career Writing for Technology (3.0)
- FSF 1350 Mathematics for the Fire Service 3.0
- or MAT 1010 Intermediate Algebra (4.0)
- or MAT 1000 Integrated Beginning and Intermediate Algebra (5.0)

- Any approved Humanities, Fine Arts, or Foreign Language Distribution Course (COMM 1020 Recommended) 3.0
- Any approved Behavioral Science, Social, or Political Science Distribution Course (PSY 1010 or SOC 1010 Recommended) 3.0
- Any approved Biology or Physical Science Distribution Course 3.0
- Any approved Physical Education, Health, Safety or Environment Course (PES 1097 recommended) 1.0

Emphasis:

Complete one of the following:

- Fire Officer 47.0
- Firefighter/Paramedic 47.0
- Wildland Fire Management 47.0

Graduation Requirements:

- Completion of a minimum of 63 semester credits.
- Overall grade point average of 2.0 (C) or above.
- Residency hours -- minimum of 20 credit hours through course attendance at UVSC.
- Completion of GE and specified departmental requirements.

Emphasis in Fire Officer 47 Credits

Emphasis Requirements: 21 Credits

Choose 21 credits from the following: 21.0

- FSO 2020 Incident Command (3.0)
- FSO 2030 Fire Inspector I (3.0)
- FSF 2310 Fire Investigator I (3.0)
- FSO 2050 Fire Protection and Detection Systems (3.0)
- FSO 2060 Fire Service Management and Administration (3.0)
- FSO 2080 Building Construction for the Fire Services (3.0)
- FSO 2090 Fire Officer I (3.0)
- FSO 2100 Fire Supervision and Leadership (3.0)
- FSO 2110 Fire Instructor I and II (3.0)
- FSW 2500 Wildland/Urban Interface Fire Protection (3.0)

Emphasis Elective Requirements: 26 Credits

- Any Fire Science or related advisor approved courses 26.0

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 Firefighter/Paramedic 47 Credits

Emphasis Requirements: 31 Credits

- FSE 2500 Paramedic I 5.0
- FSE 2510 Paramedic I Lab 3.0
- FSE 2520 Paramedic II 7.0
- FSE 2530 Paramedic III 4.0
- FSE 2540 Paramedic IV 6.0
- FSE 2550 Paramedic Work Experience 6.0

Emphasis Elective Requirements: 16 Credits

- Any Fire Science or related advisor approved courses 16.0

NOTE: Upon completion, students are eligible to apply for certification as an Emergency Medical Technician-Paramedic through the Utah Bureau of Emergency Medical Services

Emphasis in

Wildland Fire Management 47 Credits

Emphasis Requirements: 29 Credits

- FSW 1400 Wildland Firefighting Fundamentals 4.0
- FSW 1410 Wildland Firefighter Practicum I (5.0) 5.0
- FSW 1420 Wildland Firefighter Practicum II (5.0) 5.0
- FSW 2430 Wildland Firefighter Practicum III (5.0) 5.0
- FSW 2300 Wildland Firefighter Basics (5.0) 5.0
- FSW 2400 Advanced Wildland Firefighter (5.0) 5.0

Emphasis Elective Requirements: 18 Credits

- Any Fire Science or advisor approved courses 18.0

AS Pre Major in

Fire Science 60 CREDITS

General Education Requirements: 35 Credits

Complete the following:

- ENGL 1010 Introduction to Writing 3.0
 - ENGL 2010 Intermediate Writing--Humanities/Social Sciences 3.0
 - or ENGL 2020 Intermediate Writing--Science and Technology (3.0)
- Complete one of the following: 3.0

- MATH 1030 Quantitative Reasoning (recommended for Humanities or Arts majors) (3.0)
- MATH 1040 Introduction to Statistics (recommended for Social Science majors) (3.0)
- MATH 1050 College Algebra (recommended for Business, Education, Science, and Health Professions majors) (4.0)

Complete one of the following: 3.0

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

Complete the following:

- 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: 25 Credits

- FSF 1000 Survey of Fire and Rescue Emergency Services 3.0

or Sufficient public emergency services work experience

- Fire Science or related advisor approved courses 22.0

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 UVSC.
- Completion of GE and specified departmental requirements.

BS in Public Emergency Services

Management 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 (3.0)
- MATH 1040 Introduction to Statistics (3.0)
- MATH 1050 College Algebra (4.0)

Complete one of the following: 3.0

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

Complete the following:

- 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: 43 Credits

- FSF 1000 Survey of Fire and Rescue Emergency Services 3.0

or Sufficient public emergency services work experience

- PESM 3300 Public Program Administration 3.0
- PESM 3500 Analytical Research Approaches to Public Emergency Services 3.0
- PESM 3700 Master Planning for Public Emergency Services 3.0
- PESM 3600 Customer and Public Relations for the Emergency Services 3.0
- PESM 3800 Public Administration and Emergency Management 3.0
- PESM 4100 Health and Safety Program Management 3.0
- PESM 4200 Principles of Disaster and Emergency Management 3.0
- PESM 4500 Managing Emergency Medical Services 3.0

Emergency Services

• PESH 4900	Advanced Seminar in Public Emergency Services Leadership	3.0
• ACC 3000	Financial Managerial and Cost Accounting Concepts	4.0
• ENGL 3320	Grant and Proposal Writing	3.0
• LEGL 3000	Business Law	3.0
• MGMT 3430	Human Resource Management	3.0

Elective Requirements:	42 Credits
• Any Fire Science or advisor approved courses.	21.0
• Any courses 1000 or higher	21.0

Graduation Requirements:	
1 Completion of a minimum of 120 semester credits.	
2 Overall grade point average of 2.0 (C) or above, with completion of each PESH class with a "C-" or higher.	
3 Residency hours -- minimum of 30 credit hours through course attendance at UVSC, with at least 10 hours earned in the last 45 hours.	
4 Completion of GE and specified departmental requirements.	

BS in Technology

Management 124 Credits

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

Specialization in

Fire Science 45 Credits

Emphasis Requirements:	45 Credits
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Complete 45 credits from the following: 45.0

• PESH 3300	Public Program Administration (3.0)
• PESH 3700	Master Planning for Public Emergency Services (3.0)
• PESH 4100	Health and Safety Program Management (3.0)
• PESH 4500	Managing Emergency Medical Services (3.0)
• PESH 4900	Advanced Seminar in Public Emergency Services Leadership (3.0)
• FSD 1330	Fundamentals of Apparatus Operation (3.0)
• FSD 1340	Fire Apparatus Skill (3.0)
• FSE 2500	Paramedic I (5.0)
• FSE 2510	Paramedic I Lab (3.0)
• FSE 2520	Paramedic II (7.0)
• FSE 2530	Paramedic III (4.0)
• FSE 2540	Paramedic IV (6.0)
• FSE 2550	Paramedic Work Experience (6.0)
• FSF 1000	Survey of Fire and Rescue Emergency Services (3.0)
• FSF 1010	Firefighting Fundamentals I (3.0)
• FSE 1140	Emergency Medical Technician--Basic (6.0)
• FSF 1210	Firefighting Skills I (4.0)
• FSF 1220	Firefighting Fundamentals and Skills II (3.0)
• FSW 1400	Wildland Firefighting Fundamentals (4.0)
• FSF 1310	Recruit Candidate Academy--Fundamentals (8.0)
• FSF 1320	Recruit Candidate Academy--Skills (3.0)
• FSF 1330	Recruit Candidate Academy--Operations (3.0)
• FSF 1340	Hazardous Materials First Responder (3.0)
• FSF 1350	Mathematics for the Fire Service (3.0)
• FSH 2410	Hazardous Materials Technician Fundamentals (3.0)
• FSH 2420	Hazardous Materials Technician Skills (2.0)
• FSH 2440	Hazardous Materials Chemistry (3.0)
• FSO 2020	Incident Command (3.0)
• FSO 2030	Fire Inspector I (3.0)
• FSP 2310	Fire Investigator I (3.0)
• FSO 2050	Fire Protection and Detection Systems (3.0)
• FSO 2060	Fire Service Management and Administration (3.0)
• FSO 2080	Building Construction for the Fire Services (3.0)
• FSO 2090	Fire Officer I (3.0)
• FSO 2100	Fire Supervision and Leadership (3.0)
• FSO 2110	Fire Instructor I and II (3.0)
• FSO 211A	Fire Service Instructor I (1.0)
• FSO 211B	Fire Service Instructor II (2.0)
• FSO 2200	Fire Officer Work Experience (3.0)
• FSW 2500	Wildland/Urban Interface Fire Protection (3.0)
• FSP 2320	Fire Investigator II (3.0)
• FSP 2350	Public Fire Education I (2.0)

• FSR 2180	Environmental Rescue (3.0)
• FSR 2700	Technical Rescue Principles (3.0)
• FSR 2740	Rope Rescue (3.0)

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

- FS, Fire Science
- FSD, Fire Science Driver Operator
- FSE, Fire Science EMT
- FSF, Fire Science Firefighter
- FSH, Fire Science, Hazardous Materials
- FSO, Fire Science Officer
- FSP, Fire Science Inspector
- FSR, Fire Science Rescue
- FSS, Fire Science Safety
- FSW, Fire Science Wildland
- PESH, Public and Emergency Services Management

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

Associate Professor

David Manning

Darin Taylor

Assistant Professor

Robert Price

Daniel Perry

Instructor

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 Drafting: Mike Thompson, Flowserve; Dan Olsen, Jason Associates Corporation.

Structural Drafting: Terry Beighley, Intermountain Bridge Detailers; David McGowan, Tectonix Steel, Inc.

Architectural Drafting: Kevin Madson, KMA & Associates; Paul Magleby, Paul Magleby Construction Inc.

Electrical Drafting: Keith Hegerhorst, Hegerhorst Power Engineering.

Civil Drafting: Alan York, Provo City; Clyde Naylor, Utah County; Matt Brown, M.W. Brown Engineering; Brant Tuttle, Northern Engineering.

School of Technology and Computing

Interim Dean: Ernest Carey

Office: CS 720
Telephone: 801-863-8321

CAREER OPPORTUNITIES

The Engineering Graphics and Design Technology program principally prepares students for drafting (mechanical, architectural, structural, civil, and / electronic) and surveying careers. Drafting jobs are available with architects, cities, counties, states, the federal government, engineering and surveying companies, mines, research and development companies, and the mechanical, structural steel, architectural development, and electronics, construction, and fire protection industries. In addition, because of the broad nature of the Engineering Graphics and Design Technology program, graduates are prepared to succeed in most technological fields. For example, they can work as manufacturing, industrial engineering, and construction technicians. They can also work in functional areas of purchasing, estimating, bidding, plant management, quality control, expediting, and sales.

JOB DESCRIPTION – ENGINEERING GRAPHICS AND DESIGN TECHNOLOGY

Engineering Graphics Technicians (formerly Drafters/Designers) translate ideas from design layouts, specifications, rough sketches, and calculations of engineers & architects into working drawings, maps, plans, and illustrations which are used in making products. 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 related to the above fields 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.

JOB DESCRIPTION – LAND SURVEYING

Engineering Graphics Technicians (formerly Drafters/Designers) translate ideas from design layouts, specifications, rough sketches, and calculations of engineers & architects into working drawings, maps,

plans, and illustrations which are used in making products. 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 related to the above fields using algebra, trigonometry, plane and solid geometry, applied mechanics, strength of materials and basic physics.

Surveyors also work closely with the public so it is imperative that they develop good human relations skills and professional work habits.

PROGRAMS

Students in the Engineering Graphics and Design Technology program may earn an Associate in Applied Science Degree, an Associate in Science Degree with a drafting pre-major or a Bachelor of Science in Technology Management Degree in Drafting Technology.

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

AAS in

Drafting Technology 63 Credits

General Education Requirements: 16 Credits

ENGLISH 2.0

- 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)

MATHEMATICS

- EGD 1600 Technical Math--Algebra 3.0
- or MATH 1050 College Algebra (4.0)
- EGD 1610 Technical Math--Geometry/Trig 3.0
- or MATH 1060 Trigonometry (3.0)

HUMANITIES/FINE ARTS/FOREIGN LANGUAGE 3.0

- PHIL 2050 Ethics and Values (highly recommended) (3.0)

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

SOCIAL AND BEHAVIORAL SCIENCE 2.0

- MGMT 3000 Organizational Behavior (3.0)
- Any approved Behavioral Science, Social, or Political Science

BIOLOGY OR PHYSICAL SCIENCE

- EGD 1810 Principles of Technology 2.0

PHYSICAL EDUCATION/HEALTH/SAFETY OR 1.0

ENVIRONMENT

- Any approved Physical Education, Health, Safety or Environment Course

Discipline Core Requirements: 39 Credits

- EGD 1010 Electrical-Electronic Drafting 3.0
- EGD 1040 Computer Aided Drafting--AutoCAD 3.0
- EGD 1070 3 Dimensional Computer Modeling 3.0
- EGD 1080 AutoLisp 2.0
- EGD 1100 Architectural Drafting 3.0
- EGD 1200 Mechanical Drafting 3.0
- EGD 1300 Structural Drafting 3.0
- EGD 1400 Surveying 4.0
- EGD 2020 Descriptive Geometry 3.0
- EGD 2040 Piping Drafting 2.0
- EGD 2050 Plate Layout 2.0
- EGD 2600 Statics 3.0
- EGD 2610 Strength of Materials 3.0
- EGD 2850 Cooperative Correlated Instruction/Orientation 0.5

Engineering Graphics and Design Technology

• EGDT 2860	Cooperative Correlated Instruction/SkillsUSA	0.5
• EGDT 2870	Portfolio and Career Preparation	1.0
Elective Requirements:		8 Credits
Choose three courses from the following list for a minimum of 8 credits:		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)	
• EGDT 2710	Special Problems--Mechanical (2.0)	
• EGDT 2720	Special Problems--Surveying (2.0)	
• EGDT 2730	Special Problems--Civil Drafting (2.0)	
• EGDT 2740	Special Problems--Architectural (2.0)	
• EGDT 2750	Special Problems--Architectural Rendering (2.0)	
• EGDT 2760	Special Problems--Structural (2.0)	
• EGDT 2780	Special Problems--Electrical (2.0)	
• EGDT 281R	Cooperative Work Experience (1.0)	

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 UVSC.
- 4 Completion of GE and specified departmental requirements, including a portfolio and exit interview.

AS Pre Major in

Drafting Technology **61 CREDITS**

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

Complete one of the following: 3.0

- MATH 1030 Quantitative Reasoning (3.0)
- MATH 1040 Introduction to Statistics (3.0)
- MATH 1050 College Algebra (4.0)

Complete one of the following: 3.0

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

Complete the following:

- 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

- 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 UVSC.
- 4 Completion of GE and specified departmental requirements.

BS in Technology

Management **124 CREDITS**

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

Specialization in

Drafting Technology **45 Credits**

Emphasis Requirements: 45 Credits

Complete the following:

- EGDT 1010 Electrical-Electronic Drafting 3.0
- EGDT 1040 Computer Aided Drafting--AutoCAD 3.0
- EGDT 1070 3 Dimensional Computer Modeling 3.0
- EGDT 1080 AutoLisp 2.0

• EGDT 1100	Architectural Drafting	3.0
• EGDT 1200	Mechanical Drafting	3.0
• EGDT 1300	Structural Drafting	3.0
• EGDT 1400	Surveying	4.0
• EGDT 2020	Descriptive Geometry	3.0
• EGDT 2040	Piping Drafting	2.0
• EGDT 2050	Plate Layout	2.0
• EGDT 2600	Statics	3.0
• EGDT 2610	Strength of Materials	3.0
Complete 8 credits from the following:		8.0
• EGDT 1060	MicroStation (2.0)	
• EGDT 2010	Advanced Electrical--CAD (2.0)	
• EGDT 2100	Advanced Architectural--CAD (3.0)	
• EGDT 2200	Advanced Mechanical--CAD (3.0)	
• EGDT 2300	Advanced Structural--CAD (3.0)	
• EGDT 2310	Structural Steel Modeling (3.0)	
• EGDT 2400	Surveying Applications (4.0)	

Due to the technical nature of the material in the following courses, additional reading and math instruction may be required. More information will be given during advisement.

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

English and Literature

Department Chair: Robert Cousins

Telephone: 801-863-8571

Assistant Chair: Christa Albrecht-Crane

Telephone: 801-863-6286

Faculty:

Professor

Karin Anderson
J.D. Davidson
Lawrence S. Harper
Lee Ann Mortensen
Kirk Rasmussen
Paul Tanner

Associate Professor

Jolayne Call
Rob Carney
Robert Cousins
Steve Fullmer
Laura Hamblin
Rick McDonald
Kate McPherson
Deb Thornton
Charles A. Vogel
Sandy Vogel
Jans Wager
Jen Wahlquist
Jan Wellington
Laurie Wood

Assistant Professor

Christa Albrecht-Crane
Mark Crane
Douglas Downs
Stephen Gibson
John Goshert
Scott Hatch
Bonnie Kyburz
David Grant Moss
Julie Nichols
Ryan Simmons
Kay Smith
Brian Whaley

Lecturer

Milo Amosa
Linda Shelton
Lorraine Wallace

Advisor: Dawn Chase

Telephone: 801-863-8574

School of Humanities, Arts, and Social Sciences

Dean: William W. Cobb, Jr.

Office: LA 209d

Telephone: 801-863-7435

English courses taken at UVSC apply towards Bachelor, AA/AS and AAS degrees, minors, diplomas, and certificates. Courses should transfer to most four-year

institutions of higher learning.

UVSC'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 UVSC may choose from the following program options: BA/BS in English with an emphasis in Creative Writing or Literary Studies, BA/BS in English Education, BA/BS in Integrated Studies with an emphasis in English, AA/AS Emphasis in English, AA/AS Technical Communication Specialization. Minors are available in Creative Writing, English Education, Literary Studies, and Technical Communication. A certification in Technical Writing is available for students who have a completed associate's degree or higher from a regionally accredited institution of higher learning and one year of full-time employment. Students who wish to learn more about any of these programs should contact the English/Literature Department for further information concerning course requirements.

PROGRAMS

AA/AS Pre Major

in English 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 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)

English and Literature

- 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
- ENGL 2600 Critical Introduction to Literature 3.0
- Fine Arts Distribution 3.0
- Social/Behavioral Science 3.0

Discipline Core Requirements: 15 Credits

Select 9 credits from the following: 9.0

- ENGL 2510 American Literature before 1865 (3.0)
- ENGL 2520 American Literature after 1865 (3.0)
- ENGL 2610 British Literature before 1800 (3.0)
- ENGL 2620 British Literature after 1800 (3.0)

Complete a minimum of any two lower-division ENGL courses or any lower-division course listed above that has not been previously completed. 6.0

Elective Requirements: 10 Credits

- FOR AS DEGREE: Any course 1000 or higher 10.0
- FOR AA DEGREE: 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 UVSC.
- 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.

AA/AS Pre Major in English with an Emphasis in Technical

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: 3.0

- MATH 1030 Quantitative Reasoning (recommended for Humanities or Arts majors) (3.0)
- MATH 1040 Introduction to Statistics (recommended for Social Science majors) (3.0)
- MATH 1050 College Algebra (recommended for Business, Education, Science, and Health Professions majors) (4.0)

Complete one of the following: 3.0

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

Complete the following:

- 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
- ENGL 2600 Critical Introduction to Literature 3.0
- Fine Arts Distribution 3.0
- Social/Behavioral Science 3.0

Discipline Core Requirements: 15 Credits

- ENGL 2030 Rhetoric of Persuasion 3.0
- ENGL 2050 Editing 3.0
- ENGL 2250 Creative Process and Imaginative Writing 3.0

or ENGL 225H Creative Process and Imaginative Writing (3.0)

- ENGL 2310 Technical Communication 3.0

Select ONE from the following list: 3.0

- ART 1400 Graphic Computer Applications (3.0)
- ART 2410 Typography and Layout II (3.0)
- INFO 1100 Exploring the Digital Domain (3.0)

Elective Requirements: 10 Credits

- FOR AA DEGREE: One Foreign Language 10.0

English and Literature

- FOR AS DEGREE: Any course 1000 or higher 10.0
- Graduation Requirements:**
- 1 Completion of a minimum of 60 semester credits.
 - 2 Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
 - 3 Residency hours -- minimum of 20 credit hours through course attendance at UVSC.
 - 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, or ENGL 2520, American Literature after 1865; and ENGL 2610, British Literature before 1800, or ENGL 2620, British Literature after 1800.
- General Education Requirements: 35 Credits**
- ENGL 1010 Introduction to Writing 3.0
 - ENGL 2010 Intermediate Writing--Humanities/ Social Sciences 3.0
 - or ENGL 2020 Intermediate Writing--Science and Technology (3.0)
- Complete one of the following: 3.0
- MATH 1030 Quantitative Reasoning (recommended for Humanities or Arts majors) (3.0)
 - MATH 1040 Introduction to Statistics (recommended for Social Science majors) (3.0)
 - MATH 1050 College Algebra (recommended for Business, Education, Science, and Health Professions majors) (4.0)
- Complete one of the following: 3.0
- HIST 2700 US History to 1877 (3.0)
 - and HIST 2710 US History since 1877 (3.0)
 - HIST 1700 American Civilization (3.0)
 - ECON 1740 US Economic History (3.0)
 - POLS 1000 American Heritage (3.0)
 - POLS 1100 American National Government (3.0)
- Complete the following: 3.0
- PHIL 2050 Ethics and Values 3.0
 - HLTH 1100 Personal Health and Wellness 2.0
 - or PES 1097 Fitness for Life (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
 - or ENGL 2520 American Literature after 1865 (3.0)
 - ENGL 2610 British Literature before 1800 3.0
 - or ENGL 2620 British Literature after 1800 (3.0)
 - ENGL 2600 Critical Introduction to Literature 3.0
 - ENGL 3000 Professional Considerations for the English Major* 1.0
 - ENGL 3090 Advanced Writing for English Majors** 3.0
 - ENGL 3890 Contemporary Critical Approaches to Literature 3.0
 - ENGL 4950 Senior Seminar 3.0
- Language Core- Complete one of the following: 3.0**
- ENGL 3010 Rhetorical Theory (3.0)
 - ENGL 3020 Modern English Grammars (3.0)
 - ENGL 3040 History of the English Language (3.0)

- Emphasis:**
- Complete one of the following:
- Creative Writing 24.0
 - Literary Studies 24.0

- Elective Requirements: 39 Credits**
- FOR BA DEGREE: One Foreign Language 18.0
 - FOR BA DEGREE: Complete any courses 1000 level or higher 18.0
 - 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. (Departments may require a higher GPA.)
 - 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 UVSC, with at least 10 hours earned in the last 45 hours.

Footnotes:

- * Should be taken early on in the student's course of study, by the junior year at the latest.
- ** Should be taken early in the student's junior year, as it serves as crucial preparation for nearly all upper-division English courses.

Emphasis in Creative Writing 24 Credits

- Emphasis Requirements: 24 Credits**
- Complete ALL of the following:
- ENGL 3420 Intermediate Fiction Writing 3.0
 - ENGL 3440 Intermediate Poetry Writing 3.0
 - ENGL 412R Studies in Literary Genres 3.0
- Complete TWO from the following: 6.0
- ENGL 4420 Advanced Fiction Writing (3.0)
 - ENGL 4430 Play Writing for Creative Writers (3.0)
 - ENGL 4440 Advanced Poetry Writing (3.0)
 - ENGL 4450 Creative Nonfiction Writing (3.0)
- Complete a minimum of any THREE upper-division ENGL courses or any upper-division course listed above that has not been previously completed 9.0

Emphasis in Literary Studies 24 Credits

- Emphasis Requirements: 24 Credits**
- American Literature (complete TWO from the following): 6.0
- 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
- British Literature, pre-1800 (complete ONE from the following): 3.0
- ENGL 3610 Medieval Literature
 - ENGL 3620 Tudor British Literature
 - ENGL 3630 Stuart British Literature
 - ENGL 3640 Restoration and 18th Century British Literature
- British Literature, post-1800 (complete ONE of the following): 3.0
- ENGL 3650 Romantic British Literature
 - ENGL 3655 Victorian British Literature
 - ENGL 3660 Modern British Literature
 - ENGL 3670 Contemporary British Literature
- Complete any FOUR upper-division ENGL courses or any upper-division course listed above that has not been previously completed 12.0

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, or ENGL 2520, American Literature after 1865; and ENGL 2610, British Literature before 1800, or ENGL 2620, British Literature after 1800.
- General Education Requirements: 36 Credits**
- ENGL 1010 Introduction to Writing 3.0
 - 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)
 - 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: 69 Credits**
- Complete the following:
- ENGL 2600 Critical Introduction to Literature 3.0

- ENGL 2510 American Literature before 1865 (3.0)
- or ENGL 2520 American Literature after 1865 3.0
- ENGL 2610 British Literature before 1800 (3.0)
- or ENGL 2620 British Literature after 1800 3.0
- ENGL 3890 Contemporary Critical Approaches to Literature 3.0
- ENGL 4210 Methods in Teaching Literacy I 3.0
- and ENGL 4220 Methods in Teaching Literacy II 3.0
- Language Core (complete ONE from the following) 3.0
- ENGL 3010 Rhetorical Theory (3.0)
- ENGL 3020 Modern English Grammars (3.0)
- ENGL 3040 History of the English Language (3.0)
- American Literature (complete TWO from the following) 6.0
- ENGL 3510 Early American Literature (3.0)
- ENGL 3520 Literature of the American Renaissance (3.0)
- ENGL 3525 American Literary Realism and Naturalism (3.0)
- ENGL 3530 Modern American Literature (3.0)
- ENGL 3540 Contemporary American Literature (3.0)
- British Literature, pre-1800 (complete ONE from the following): 3.0
- 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)
- British Literature, post-1800 (complete ONE from the following): 3.0
- ENGL 3650 Romantic British Literature (3.0)
- ENGL 3655 Victorian British Literature (3.0)
- ENGL 3660 Modern British Literature (3.0)
- ENGL 3670 Contemporary British Literature (3.0)
- Complete THREE from the following: 9.0
- ENGL 3090 Advanced Writing for English Majors (3.0)
- ENGL 3420 Intermediate Fiction Writing (3.0)
- ENGL 3440 Intermediate Poetry Writing (3.0)
- ENGL 3710 Literature by Women (3.0)
- ENGL 373R Literature of Cultures and Places (3.0)
- ENGL 3740 Literature of the Sacred (3.0)
- ENGL 3760 World Literature (3.0)
- ENGL 3780 Mormon Literature (3.0)
- ENGL 3820 History of Literary Criticism (3.0)
- ENGL 4010 Studies in Language (3.0)
- ENGL 412R 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 4450 Creative Nonfiction Writing (3.0)
- ENGL 4570 Studies in the American Novel (3.0)
- ENGL 4620 Chaucer (3.0)
- ENGL 463R Topics in Shakespeare (3.0)
- ENGL 4640 Milton (3.0)
- ENGL 471R Eminent Authors (3.0)
- ENGL 474R Topics in Folklore (3.0)
- ENGL 4760 Multi-ethnic Literature in America (3.0)
- ENGL 486R Topics in Literature (3.0)

Elective Requirements: 15 Credits

- Secondary Education Licensure (ENGL 4210 is substituted for EDSC 4440):
- 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 3400 Exceptional Students 2.0
 - EDSC 4200 Classroom Management I 1.0
 - EDSC 4250 Classroom Management II 1.0
 - EDSC 4450 Multicultural Instruction/ESL 2.0
 - EDSC 4550 Secondary Curriculum Instruction and Assessment 4.0
 - EDSC 4850 Student Teaching--Secondary 8.0

Graduation Requirements:

- 1 Completion of a minimum of 120 semester credits.
- 2 Overall grade point average of 2.0 (C) or above, with no grade lower than a B- in licensure and methods courses. (Departments may require a higher GPA.)
- 3 Residency hours -- minimum of 30 credit hours through course attendance at UVSC, with at least 10 hours earned in the last 45 hours.
- 4 Completion of GE and specified departmental requirements.

5 For the BA degree, completion of 18 credit hours of course work from one foreign language to include the 1010, 1020, 2010, and 2020* levels or transferred equivalents.

Minor in English

Creative Writing **21 CREDITS**

Discipline Core Requirements: 18 Credits
Introductory Course (complete the following) 3.0

- ENGL 2250 Creative Process and Imaginative Writing (3.0)

or ENGL 225H Creative Process and Imaginative Writing (3.0)

Creative Writing Courses (complete THREE from the following) 9.0

- ENGL 3420 Intermediate Fiction Writing (3.0)
- ENGL 3440 Intermediate Poetry Writing (3.0)
- ENGL 4420 Advanced Fiction Writing (3.0)
- ENGL 4440 Advanced Poetry Writing (3.0)
- ENGL 4430 Play Writing for Creative Writers (3.0)

• ENGL 4450 Creative Nonfiction Writing (3.0)

Form and Theory Courses (complete the following) 6.0

- ENGL 2600 Critical Introduction to Literature (3.0)

• ENGL 412R Studies in Literary Genres (3.0)

Elective Requirements: 3 Credits

Choose from the following 3.0

- ENGL 373R Literature of Cultures and Places (3.0)

• ENGL 4350 Senior Project (2.0)

• ENGL 471R Eminent Authors (3.0)

• ENGL 481R Internship (1.0)

• ENGL 486R Topics in Literature (3.0)

• ENGL 490R Directed Readings (1.0)

Graduation Requirements:

- 1 Complete all courses with no grade lower than a C-.

Minor in

English Education **18 CREDITS**

Matriculation Requirements:

- 1 Complete the following courses: ENGL 2600, Critical Introduction to Literature; ENGL 2510, American Literature before 1865, or ENGL 2520, American Literature after 1865; and ENGL 2610, British Literature before 1800, or ENGL 2620, British Literature after 1800.
- 2 Must be accepted into a Secondary Education major

Discipline Core Requirements: 18 Credits

- ENGL 2510 American Literature before 1865 (3.0)

or ENGL 2520 American Literature after 1865 (3.0)

• ENGL 2610 British Literature before 1800 (3.0)

or ENGL 2620 British Literature after 1800 (3.0)

- ENGL 2600 Critical Introduction to Literature (3.0)

Complete the following:

- ENGL 3890 Contemporary Critical Approaches to Literature 3.0

• ENGL 4210 Methods in Teaching Literacy I 3.0

• ENGL 4220 Methods in Teaching Literacy II 3.0

Choose one from the following: 3.0

- ENGL 3010 Rhetorical Theory (3.0)

• ENGL 3020 Modern English Grammars (3.0)

• ENGL 3040 History of the English Language (3.0)

Complete one from the following: 3.0

- 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: 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 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

Literary Studies **18 CREDITS**

Matriculation Requirements:

- 1 Complete the following courses: ENGL 2600, Critical Introduction to Literature; ENGL 2510, American Literature before 1865, or ENGL 2520, American Literature after 1865; and ENGL 2610, British Literature before 1800, or ENGL 2620, British Literature after 1800.

Discipline Core Requirements: 18 Credits

Complete the following:

- ENGL 3090 Advanced Writing for English Majors 3.0

• ENGL 3890 Contemporary Critical Approaches to Literature 3.0

Complete ONE from the following: 3.0

- ENGL 3510 Early American Literature (3.0)

• ENGL 3520 Literature of the American Renaissance (3.0)

• ENGL 3525 American Literary Realism and Naturalism (3.0)

• ENGL 3530 Modern American Literature (3.0)

• ENGL 3540 Contemporary American Literature (3.0)

Complete ONE of the following: 3.0

- 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 Romantic British Literature (3.0)

• ENGL 3655 Victorian British Literature (3.0)

• ENGL 3660 Modern British Literature (3.0)

• ENGL 3670 Contemporary British Literature (3.0)

Complete ONE from the following: 3.0

- ENGL 3010 Rhetorical Theory (3.0)

• ENGL 3020 Modern English Grammars (3.0)

• ENGL 3040 History of the English Language (3.0)

• ENGL 4010 Studies in Language (3.0)

Complete ONE from the following: 3.0

- ENGL 3420 Intermediate Fiction Writing (3.0)

• ENGL 3440 Intermediate Poetry Writing (3.0)

• ENGL 3710 Literature by Women (3.0)

• ENGL 373R Literature of Cultures and Places (3.0)

• ENGL 3740 Literature of the Sacred (3.0)

• ENGL 3760 World Literature (3.0)

• ENGL 3780 Mormon Literature (3.0)

• ENGL 3820 History of Literary Criticism (3.0)

• ENGL 4010 Studies in Language (3.0)

• ENGL 412R Studies in Literary Genres (3.0)

• ENGL 4420 Advanced Fiction Writing (3.0)

• ENGL 4440 Advanced Poetry Writing (3.0)

• ENGL 4450 Creative Nonfiction Writing (3.0)

• ENGL 4570 Studies in the American Novel (3.0)

• ENGL 4620 Chaucer (3.0)

• ENGL 4630 Shakespeare (3.0)

• ENGL 4640 Milton (3.0)

• ENGL 471R Eminent Authors (3.0)

• ENGL 474R Topics in Folklore (3.0)

• ENGL 4760 Multi-ethnic Literature in America (3.0)

• ENGL 486R Topics in Literature (3.0)

• ENGL 490R Directed Readings (1.0)

Graduation Requirements:

- 1 Complete all courses with no grade lower than a C-.

Minor in Technical

Communication **20 CREDITS**

Matriculation Requirements:

- 1 Completion of 35 semester credits with a cumulative GPA: 2.5 minimum.
- or Completion of an Associate in Science or an Associate of Arts degree. Minimum grade of "C" in all courses.
- 2 Admitted to a bachelor degree program at UVSC.

Discipline Core Requirements: 20 Credits

Complete the following:

- ENGL 2600 Critical Introduction to Literature 3.0

or ENGL 3010 Rhetorical Theory (3.0)

or ENGL 4010 Studies in Language (3.0)

• ENGL 4310 Advanced Technical Communication 3.0

Complete FOUR courses from the following: 12.0

- ENGL 3050 Advanced Editing and Desktop Publishing (3.0)

• ENGL 3310 Designing Documents for Print Media (3.0)

• ENGL 3320 Grant and Proposal Writing (3.0)

• ENGL 3340 Designing Electronic Documentation (3.0)

• ENGL 4320 Document Management (4.0)

- ENGL 436R Topics in Technical Communication (3.0)

Capstone Course: Complete ONE of the following: 2.0

- ENGL 4350 Senior Project (2.0)

- ENGL 481R Internship (1.0) (must be taken for 2 credits)

BA/BS in

Integrated Studies **123 CREDITS**

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

Emphasis in English **18 Credits**

Emphasis Requirements: 18 Credits

Complete the following:

- ENGL 2600 Critical Introduction to Literature 3.0

Complete 15 hours of upper-division ENGL courses.

Course selection must be approved by English advisor. 15.0

Certification in Technical

Communication **15 CREDITS**

Matriculation Requirements:

- 1 AA/AS degree or higher from a regionally accredited institution of higher learning and one year full-time employment.

Discipline Core Requirements: 12 Credits

Complete the following:

- ENGL 2050 Editing 3.0

• ENGL 2310 Technical Communication 3.0

• ENGL 3340 Designing Electronic Documentation 3.0

• ENGL 4310 Advanced Technical Communication 3.0

Elective Requirements: 3 Credits

Complete ONE of the following: 3.0

- ENGL 3310 Designing Documents for Print Media (3.0)

• ENGL 3320 Grant and Proposal Writing (3.0)

• ENGL 4320 Document Management (4.0)

• ENGL 436R Topics in Technical Communication (3.0)

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• ENGL 436R Topics in Technical Communication (3.0)

• ENGL 436R Topics in Technical Communication (3.0)

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

J. Kaye Jeffery
Deborah R. Marrott

Associate Professor

Melinda Bender
Forrest G. Williams

Instructor

Allison McMurtrey

School of General Academics

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: Lisa Lambert
Office: LA 210d
Telephone: 801-863-8741

Administrative Assistant: Frankie Jensen
Office: LA 210
Telephone: 801-863-6312

OTHER SERVICES

Writing Center:

Academic Tutoring: LA 201
Jennifer Abbot Paul, Manager
Telephone: 801-863-8099

Learning Assistance:

Learning Strategist: Gary Sauter
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 as a Second Language

Program Director: Kevin Eyraud

Office: LA 234f
Telephone: 801-863-7091

Faculty:

Professor

James Pettersson
Abdou Touati

Assistant Professor

Heidi Condie
Kevin Eyraud

Advisor: Giovana Equinto Alisa
Office: LA 234a
Telephone: 801-863-8729
Fax: 801-863-6462

Department of Basic Composition/ English as a Second Language (ESL)

Department Chair: Forrest G. Williams
Office: LA 234e
Telephone: 801-863-8494

School of General Academics

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: Lisa Lambert
Office: LA 210d
Telephone: 801-863-8741

Administrative Assistant: Frankie Jensen
Office: LA 210
Telephone: 801-863-6312

OTHER SERVICES

Writing Center:

Academic Tutoring: LA 201
Jennifer Abbot Paul, Manager
Telephone: 801-863-8099

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

Facilities Management

Department of Construction Technologies

Department Chair: Steve Fordham

Office: GT 601
Telephone: 801-863-8167

Program Coordinator: Eric Linfield
Office: GT 613d
Telephone: 801-863-8250

Faculty:

Professor
Bob Dunn
Associate Professor
Fred Davis
DeWayne Erdmann
Steve Fordham
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 State College, Physical Plant; Bob Whimpey, Nature's Sunshine; Larry Robinson, Intermountain Healthcare - Urban South Region.

School of Technology and Computing

Interim 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
- 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

		63 CREDITS
General Education Requirements:		18 Credits
• ENGL 1010	Introduction to Writing	3.0
• EGD 1600	Technical Math--Algebra*	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:		45 Credits
• ACRT 2420	Heating and Air Conditioning Controls	5.0
• BCCM 1120	Blueprint Reading	2.0
• BCCM 1270	Construction Scheduling	2.0
• 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)	8.0
• FAC 285R	Cooperative Correlated Class (1.0)	2.0
• DGM 2010	Business Computer Proficiency	3.0
• MGMT 2200	Business Communications	3.0
• MGMT 3170	Entrepreneurship	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 UVSC.
- 4 Completion of GE and specified departmental requirements.

Footnotes:

- * May be substituted with MATH 1030 or higher.

BS in Technology

Management 124 CREDITS

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

Specialization in

Facilities Management 45 Credits

Emphasis Requirements		45 credits
• ACRT 2420	Heating and Air Conditioning Controls	5.0

• BCCM 1120	Blueprint Reading	2.0
• BCCM 1270	Construction Scheduling	2.0
• BIT 1010	Building Codes	3.0
• BIT 1240	Plumbing Codes	3.0
• BIT 1330	Mechanical Codes	3.0
• BIT 1340	Electrical Codes	3.0
• EGD 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)	
• FAC 281R	Cooperative Work Experience (take twice) (1.0)	8.0
• FAC 285R	Cooperative Correlated Class (take twice) (1.0)	2.0
• MGMT 2200	Business Communications	3.0

Due to the technical nature of the material in FAC 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 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

Finance and Economics

Department Chair: Lowell M. Glenn

Office: WB 215
Telephone: 801-863-8385

Faculty:

Professor

Norman D. Gardner
Reed Gooch
Ian Wilson

Associate Professor

Lynn Adams
Amir Kia
L. Brent Eagar
Lowell M. Glenn
Faridul Islam

Assistant Professor

Vaughn S. Armstrong
G. David Flint
Abdus Samad

Lecturer

Leonard Pavia

School of Business:

Dean: Stanley Earl Jenne, Ph.D.
Office: WB 128b
Telephone: 801-863-8239

Associate Dean: Janice Gygi
Office: WB 219
Telephone: 801-863-8863

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.

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) School of Business transfer degree is available for students planning to transfer to another college or university in Utah. (See the 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 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)
- 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
- Business Computer Proficiency Exam **
- or DGM 2010 Business Computer Proficiency 3.0
- MATH 1100 Introduction to Calculus 4.0
- MGMT 2200 Business Communications * 3.0
- ECON 2010 Microeconomics 3.0
- MGMT 2340 Business Statistics I 3.0
- MGMT 2390 Effective Business Presentations 3.0

Finance and Economics

Business Core Courses:

- INFO 3120 Principles of Information Systems--A 3.0
- Managerial Approach
- 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 3300 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 4320 Mathematical Economics 3.0

Emphasis Elective Requirements: 12 Credits

Select 12 credits from the following list: 12.0

- ECON 4150 Public Finance (3.0)
- MGMT 4180 International Finance Management (3.0)
- MGMT 4400 New Venture Financing (3.0)
- Any Accounting Course Numbered 3010 or higher

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 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 UVSC, with at least 10 hours earned in the last 45 hours.
- 4 Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.

NOTE: Students will be limited to 15 hours of upper-division credit until MATRICULATION is completed.

Footnotes:

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

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

- ECON, Economics
- MGMT, Business Management

General Academics

General Academics

School of General Academics

Dean: Bonnie Henrie
Office: LA 210c
Telephone: 801-863-8311
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Assistant Dean: Lisa Lambert
Office: LA 210d
Telephone: 801-863-8741
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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: 3.0
- PHIL 2050 Ethics and Values 3.0
- HLTH 1100 Personal Health and Wellness (2.0)
- or PES 1097 Fitness for Life 2.0
- Distribution Courses
- Biology 3.0
- Physical Science 3.0
- Additional Biology or Physical Science 3.0
- Humanities 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 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 UVSC.
- 4 Completion of GE and specified departmental require-
ments.
- 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: Keith Snedegar

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

School of Humanities, Arts, and Social Sciences

Dean: William W. Cobb, Jr.
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: 18 Credits

Complete 3 credits from the following courses: 3.0

- ARCH 1100 Introduction to Archaeology (3.0)
- ECON 1010 Economics as a Social Science (3.0)
- HIST 1740 US Economic History (3.0)
- GEOG 1300 Survey of World Geography (3.0)
- GEOG 2100 Geography of the United States (3.0)
- GEOG 3010 Economic Geography (3.0)
- GEOG 3430 Political Geography (3.0)
- GEOG 3630 Introduction to Geographic Information Systems (4.0)
- GEOG 3800 Environmental History of the United States (3.0)

Complete 3 credits from the following courses: 3.0

- POLS 1000 American Heritage (3.0)
- POLS 1010 Introduction to Political Science (3.0)
- POLS 1020 Political Ideologies (3.0)
- POLS 1100 American National Government (3.0)
- POLS 1440 Introduction to Middle East Politics (3.0)
- POLS 2200 Introduction to Comparative Politics (3.0)
- POLS 2100 Introduction to International Relations (3.0)
- POLS 1800 Our Global Community (3.0)
- POLS 2120 Political Parties (3.0)
- POLS 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: 3.0

- HIST 1700 American Civilization (3.0)
- HIST 1100 History of Civilization I (3.0)
- HIST 1110 History of Civilization II (3.0)
- HIST 2700 US History to 1877 (3.0)
- HIST 2710 US History since 1877 (3.0)

Complete an additional 9 credits from any GEOG, HIST, or POLS course 3000 or higher (see advisor). 9.0

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

- ARCH, Archaeology
- GEOG, Geography
- HIST, History
- POLS, Political Science
- SOSOC, Social Science

History

Department of History and Political Science**Department Chair: Keith Snedegar**

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Senior Lecturer

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School of Humanities, Arts, and Social Sciences

Dean: William W. Cobb, Jr.

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The History Program at UVSC 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.

AA/AS Pre Major in History and Political Science**62 Credits****General Education Requirements:****35 Credits**

- ENGL 1010 Introduction to Writing 3.0

- ENGL 2010 Intermediate Writing--Humanities/Social Sciences 3.0
- or ENGL 2020 Intermediate Writing--Science and Technology (3.0)

Complete one of the following: 3.0

- MATH 1030 Quantitative Reasoning (recommended for Humanities or Arts majors) (3.0)
- MATH 1040 Introduction to Statistics (recommended for Social Science majors) (3.0)
- MATH 1050 College Algebra (recommended for Business, Education, Science, and Health Professions majors) (4.0)

Complete one of the following: 3.0

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

Complete the following:

- 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

- Complete 16 Credits from any ARCH, ECON, GEOG, HIST, or POLS courses. 16.0

Elective Requirements: 11 Credits

- FOR AS DEGREE: Complete any course numbered 1000 or higher 11.0
- FOR AA DEGREE: One Foreign Language 10.0
- and Complete any course numbered 1000 or higher 1.0

Graduation Requirements:

- 1 Completion of a minimum of 62 semester credits.
- 2 Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
- 3 Residency hours -- minimum of 20 credit hours through course attendance at UVSC.
- 4 Completion of GE and specified departmental requirements.
- 5 For the AA degree, completion of 10 credit hours of course work from one language.

BA in History 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 (3.0)
- MATH 1040 Introduction to Statistics (3.0)
- MATH 1050 College Algebra (4.0)

Complete one of the following: 3.0

- HIST 1700 American Civilization (3.0)
- HIST 1740 US Economic History (3.0)
- POLS 1000 American Heritage (3.0)
- POLS 1100 American National Government (3.0)

Complete the following:

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

Distribution Courses

- Biology 3.0
- Physical Science 3.0
- Additional Biology or Physical Science 3.0
- Humanities Distribution (Fulfilled by completing Foreign Language Course 2020) 3.0
- Fine Arts Distribution 3.0
- Social/Behavioral Science 3.0

Discipline Core Requirements: 15 Credits

- GEOG 1300 Survey of World Geography 3.0
- HIST 1100 History of Civilization I 3.0
- HIST 1110 History of Civilization II 3.0
- HIST 2700 US History to 1877 3.0
- HIST 2710 US History since 1877 3.0

Emphasis:

Complete one of the following:

- General History 27.0
- Public History 27.0

Elective Requirements: 43 Credits

- Any courses numbered 1000 or higher (15 credits must be upper division). 28.0
- Complete additional 15 hours of one Foreign Language. 15.0

Graduation Requirements:

- 1 Completion of a minimum of 120 credits, 40 of which must be 3000 level or higher.
- 2 Minimum UVSC GPA of 2.0 upon graduation.
- 3 Complete General Education Requirements.
- 4 Completion of four semesters of one foreign language.
- 5 Complete one of the two tracks in the Areas of Study requirements.
- 6 Complete core courses.
- 7 Comply with the catalog's rule on maximum number of years in the program.
- 8 Minimum of 30 credits must be taken at UVSC (at least 10 of which must be part of the final 45 credits earned).

NOTES:

Students should frequently consult with his/her advisor on program requirements.

Emphasis in**General History****27 Credits****Emphasis Requirements:****6 Credits**

- HIST 3010 The Nature of History (3.0) 3.0
- HIST 4990 Senior Research Thesis-Writing Component (3.0) 3.0

Emphasis Elective Requirements: 21 Credits

Complete any three upper-division history courses 9.0

Select at least one course from each Area of Study 12.0

A. European History

- 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--1864 to Present (3.0)

B. United States History

- 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 3460 US Military History (3.0)
- HIST 3520 The United States and Vietnam--1945 to Present (3.0)
- HIST 3730 American Origins to 1790 (3.0)
- HIST 3731 United States History 1790-1890 (3.0)
- HIST 3732 United States History 1890-1945 (3.0)
- HIST 3733 United States History since 1945 (3.0)
- HIST 3800 Environmental History of the United States (3.0)
- HIST 3810 American Indians to 1815 (3.0)
- HIST 3830 The Contest for Territory--American Indians and the US 1815-1891 (3.0)
- HIST 3850 The Struggle for Self-determination--American Indians 1891-present (3.0)
- HIST 3870 Constitutional History to Plessy 1896 (3.0)
- HIST 3880 Constitutional History since Plessy 1896 (3.0)
- HIST 4600 Contemporary American Indian Political and Social Issues (3.0)
- HIST 4620 History of the American West (3.0)
- HIST 4740 American Revolution (3.0)
- HIST 4750 Civil War/Reconstruction (3.0)

C. World History

- HIST 3030 Introduction to African History (3.0)
- HIST 3040 Colonial Latin America (3.0)
- HIST 3050 Modern Latin America (3.0)
- HIST 3430 Middle East History--1914-Present (3.0)
- HIST 3530 History of Vietnam (3.0)
- HIST 3540 History of South Africa (3.0)
- HIST 3610 The Modern History of East Asia (3.0)
- HIST 4300 Violence and Social Conflict in Latin America (3.0)
- HIST 4430 History of Iran--1900 to Present (3.0)

D. Public History/Special Topics

- HIST 3020 Introduction to Public History (3.0)

• HIST 3450	The History of World War II (3.0)	
• HIST 3550	Memory and History (3.0)	
• HIST 3800	Environmental History of the United States (3.0)	
• HIST 400R	History Practicum (3.0)	
• HIST 4100	Jewish History (3.0)	
• HIST 4130	Anti-Semitism and the Holocaust (3.0)	
• HIST 4140	Genocide in the Twentieth Century (3.0)	
• HIST 420R	Issues and Topics in Global History (3.0)	
• HIST 4320	History of Scientific Thought (3.0)	
• HIST 4330	Machines in the Making of History (3.0)	
• HIST 435R	Issues and Topics in the History of Science (3.0)	
• HIST 471R	Special Issues and Topics in American History (3.0)	
• HIST 482R	Public History Internship (2.0)	
• HIST 490R	Independent Study (1.0)	

Emphasis in Public History 27 Credits

Emphasis Requirements:		9 Credits
• HIST 3020	Introduction to Public History (3.0)	3.0
• HIST 400R	History Practicum (3.0)	3.0
• HIST 482R	Public History Internship* (3.0)	3.0

Emphasis Elective Requirements: 18 Credits

Complete any other upper-division history courses 9.0
Complete at least three of the following courses in U.S. History 9.0

• HIST 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 3460	US Military History (3.0)	
• HIST 3520	The United States and Vietnam--1945 to Present (3.0)	
• HIST 3730	American Origins to 1790 (3.0)	
• HIST 3731	United States History 1790-1890 (3.0)	
• HIST 3732	United States History 1890-1945 (3.0)	
• HIST 3733	United States since 1945 (3.0)	
• HIST 3800	Environmental History of the United States (3.0)	
• HIST 3810	American Indians to 1815 (3.0)	
• HIST 3830	The Contest for Territory--American Indians and the US 1815-1891 (3.0)	
• HIST 3850	The Struggle for Self-determination--American Indians 1891-present (3.0)	
• HIST 3870	Constitutional History to Plessy 1896 (3.0)	
• HIST 3880	Constitutional History since Plessy 1896 (3.0)	
• HIST 4600	Contemporary American Indian Political and Social Issues (3.0)	
• HIST 4620	History of the American West (3.0)	
• HIST 4740	American Revolution (3.0)	
• HIST 4750	Civil War/Reconstruction (3.0)	

Footnotes:

- * HIST 482R is a variable credit course. Students concentrating in Public History should arrange for internship experiences that are the equivalent of at least three credit hours.

BS in History

Education 120 CREDITS

Matriculation Requirements:

- 1 Completion of at least 30 semester hours of college credit, 15 hours of which must be taken at UVSC;
- 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 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)	
• 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 2520	American Literature after 1865 (3.0)	
or ENGL 2610	British Literature before 1800 (3.0)	
or ENGL 2620	British Literature after 1800 (3.0)	
• 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 2100	Introduction to International Relations (3.0)	

Discipline Core Requirements: 72 Credits

Complete the following:

• HIST 1740	US Economic History	3.0
• GEOG 1300	Survey of World Geography	3.0
• HIST 1100	History of Civilization I	3.0
• HIST 1110	History of Civilization II	3.0
• HIST 2700	US History to 1877	3.0
• HIST 2710	US History since 1877	3.0
• HIST 3010	The Nature of History	3.0
• HIST 3260	History of Utah	3.0
• HIST 4250	Teaching History in the Secondary 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 4440	Content Area Reading and Writing	3.0
• EDSC 4450	Multicultural Instruction/ESL	2.0
• EDSC 4550	Secondary Curriculum Instruction and Assessment	4.0
• EDSC 4850	Student Teaching--Secondary (4.0)	8.0
• EDP 3400	Exceptional Students	2.0
Choose one course from each of the following five		15.0

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)	
• HIST 3732	United States History 1890-1945 (3.0)	
• HIST 3733	United States since 1945 (3.0)	
• HIST 3800	Environmental History of the United States (3.0)	
• HIST 3810	American Indians to 1815 (3.0)	
• HIST 3830	The Contest for Territory--American Indians and the US 1815-1891 (3.0)	
• HIST 3850	The Struggle for Self-determination--American Indians 1891-present (3.0)	
• HIST 3870	Constitutional History to Plessy 1896 (3.0)	
• HIST 3880	Constitutional History since Plessy 1896 (3.0)	
• HIST 4600	Contemporary American Indian Political and Social Issues (3.0)	
• HIST 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)	

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--1864 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 4100	Jewish History (3.0)	
• HIST 4130	Anti-Semitism and the Holocaust (3.0)	
• HIST 420R	Issues and Topics in Global History (3.0)	
• HIST 4320	History of Scientific Thought (3.0)	
• HIST 435R	Issues and Topics in the History of Science (3.0)	
• HIST 471R	Special Issues and Topics in American History (3.0)	

Africa/Asia/Middle East*

• HIST 3030	Introduction to African History (3.0)	
• HIST 3430	Middle East History--1914-Present (3.0)	
• HIST 3530	History of Vietnam (3.0)	
• HIST 3540	History of South Africa (3.0)	
• HIST 3610	The Modern History of East Asia (3.0)	
• HIST 4430	History of Iran--1900 to Present (3.0)	

Elective Requirements: 12 Credits

- Any courses numbered 1000 or higher. 12.0

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 UVSC, with at least 10 hours earned in the last 45 hours.
- 4 Completion of GE and specified departmental requirements.

Minor in History 21 CREDITS

Matriculation Requirements:

- 1 Successful completion of one history course at UVSC.
- 2 Admitted to a bachelor degree program at UVSC.

Discipline Core Requirements: 12 Credits

• HIST 1100	History of Civilization I	3.0
• HIST 1110	History of Civilization II	3.0
• HIST 2700	US History to 1877	3.0
• HIST 2710	US History since 1877	3.0

Elective Requirements: 9 Credits

- Any three upper division history courses except HIST 4860 and HIST 4990. 9.0

Graduation Requirements:

- 1 Complete all history courses with a grade of "C-" or better.

BA/BS in

Integrated Studies 123 CREDITS

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

Emphasis in History 18 Credits

Discipline Core Requirements: 18 Credits

History Emphasis		
Complete one of the following:		3.0
• HIST 3010	The Nature of History (3.0)	
or HIST 3260	History of Utah (3.0)	
or See Advisor		
Complete an additional 15 credits from any HIST course 3000 or higher (see advisor)		15.0

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
- SOSOC, Social Science

Honors

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Faculty:

Selected from among departmental faculty to meet program/course needs.

School of General Academics

Dean: Bonnie Henrie
Office: LA 210c
Telephone: 801-863-8311
Fax: 801-863-7060
E-mail: bonnie.henrie@uvsc.edu

Assistant Dean: Lisa Lambert
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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 UVSC 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 UVSC, 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.uvsc.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

Department Chair: Douglas G. Miller

Office: WB 203e
Telephone: 801-863-8859

Faculty:

Professor

Douglas G. Miller

Associate Professor

Yang Huo

Instructor/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: Mignon Nicol

Office: WB 257c

Telephone: 801-863-8749

School of Business

Dean: Stanley Earl Jenne, Ph.D.

Office: WB 128b

Telephone: 801-863-8239

Associate Dean: Janice Gygi

Office: WB 219

Telephone: 801-863-8863

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

HUMANITIES/FINE ARTS/FOREIGN LANGUAGE

- Ethics and Values (PHIL 2050 recommended) 3.0
- or Any approved Humanities, Fine Arts, or Foreign Language Distribution Course

SOCIAL BEHAVIORAL SCIENCE

- Any approved Behavioral Science, Social, or Political Science Distribution Course 3.0

BIOLOGY OR PHYSICAL SCIENCE

- Any approved Biology or Physical Science Distribution Course 3.0

PHYSICAL EDUCATION/HEALTH/SAFETY OR ENVIRONMENT

- Any approved Physical Education, Health, Safety or Environment Course 1.0

Discipline Core Requirements: 39 Credits

- HM 1010 Introduction to Hospitality Industry 3.0
- HM 1110 Food Production Principles 3.0
- HM 1130 Hotel Operations I 3.0
- HM 1180 Food and Beverage Management 3.0
- HM 281R Cooperative Work Experience (2.0) 4.0
- HM 3020 Hospitality Managerial Accounting 4.0
- HM 3390 Hotel Operations II 3.0
- HM 3640 Food and Beverage Controls 3.0
- ACC 2010 Financial Accounting 3.0
- DGM 2010 Business Computer Proficiency 3.0
- or Business Computer Efficiency Exam *
- MGMT 2200 Business Communications 3.0
- MGMT 2250 Job Application and Advancement Skills 1.0
- or MGMT 3890 Career Preparation
- ECON 1010 Economics as a Social Science 3.0

Elective Requirements: 6 Credits

- Six hours of elective credits from HM courses 6.0

Graduation Requirements:

- 1 Completion of a minimum of 65 semester credits.

Hospitality Management

- 2 Overall grade point average of 2.0 (C) or above with no grade lower than a "C-" in hospitality or other School of Business Courses.
- 3 Residency hours--minimum of 20 credit hours through course attendance at UVSC; at least 16 credits must be in School of Business courses.
- 4 Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.

Footnotes:

- * Students will be required to complete the Business Computer Proficiency exam with a score of 80 percent or higher 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 3.0

Complete one of the following:

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

Complete the following:

- 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
- Business Computer Proficiency Exam *
- or DGM 2010 Business Computer Proficiency
- MGMT 2200 Business Communications 3.0
- MGMT 2290 Effective Business Presentations 3.0

Elective Requirements: 6 Credits

Complete six hours of elective credits from HM courses 6.0

Graduation Requirements:

- 1 Completion of a minimum of 60 semester credits.
- 2 Overall grade point average of 2.0 (C) or above with no grade below a "C-" in hospitality or other School of Business courses.
- 3 Residency hours-- a minimum of 20 credit hours through course attendance at UVSC; at least 16 credits must be in 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.

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 3.0

Complete one of the following:

- HIST 2700 US History to 1877 (3.0)

Hospitality Management

and HIST 2710	US History since 1877 (3.0)	
• HIST 1700	American Civilization (3.0)	
• HIST 1740	US Economic History (3.0)	
• POLS 1000	American Heritage (3.0)	
• POLS 1100	American National Government (3.0)	
Complete the following:		
• PHIL 2050	Ethics and Values	3.0
• HLTH 1100	Personal Health and Wellness (2.0)	
• PES 1097	Fitness for Life	2.0
Distribution Courses		
• 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 **		
or DGM 2010	Business Computer Proficiency	3.0
• MATH 1100	Introduction to Calculus	4.0
• MGMT 2200	Business Communications *	3.0
• ECON 2010	Microeconomics	3.0
• MGMT 2340	Business Statistics I	3.0
• MGMT 2390	Effective Business Presentations	3.0
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:		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
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 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 UVSC, with at least 10 hours earned in the last 45 hours.	
4	Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.	
NOTE: Students will be limited to 15 hours of upper-division credit until MATRICULATION is completed.		
Footnotes:		
** Students will be required to complete the business computer proficiency exam with a score of 80 percent or higher 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:		3.0
• POLS 1000	American Heritage (3.0)	
• HIST 1700	American Civilization (3.0)	
• HIST 2700	US History to 1877 (3.0)	

and HIST 2710	US History since 1877 (3.0)	
• HIST 1740	US Economic History (3.0)	
• POLS 1100	American 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
• 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)	6.0
• ACC 2010	Financial Accounting	3.0
• LEGL 3100	Hospitality Law	3.0
• MGMT 2200	Business Communications	3.0
• MGMT 2240	Foundations of Business Statistics	3.0
• MGMT 2250	Job Application and Advancement Skills	1.0
or MGMT 3890	Career Preparation	
• MGMT 2390	Effective Business Presentations	3.0
• MGMT 3000	Organizational Behavior	3.0
• MGMT 4220	Management Communication	3.0
Complete one of the following two groups:		15.0
Foreign Language Group: Complete the following levels of the same language		
• 1010 Beginning	_____ I	
• 1020 Beginning	_____ II	
• 2010 Intermediate	_____ I	
Additional GE Electives Group		
• 1010 Beginning	_____ I (foreign language)	
• MGMT 2340	Business Statistics I	
• Non-Business Elective		
Elective Requirements:		13 Credits
Complete one of the following two groups:		13.0
Hotel and Restaurant Management Track:		
• HM 1110	Food Production Principles (3.0)	
• Complete six hours of electives from HM, ACC, DGM, INFO, LEGL, ECON, or MGMT courses 3000 level or higher.		
• Complete four credits of general education courses		
Food and Beverage Track:		
• CA 1120	Cooking Skills Development (4.5)	
• CA 1130	Baking Skills Development (4.5)	
• CA 481R	Cooperative Work Experience (2.0)	
Graduation Requirements:		
1	Completion of a minimum of 120 semester credits with at least 40 credit hours of upper-division classes.	
2	Overall grade point average of 2.0 (C) or above with a minimum 2.5 GPA in all School of Business courses; no grade below "C-" in hospitality or other School of Business courses	
3	Residency hours: minimum of 30 credit hours of business courses through course attendance at UVSC, 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.	

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

Faculty:

Professor

Steve Bule

Assistant Professor

Michaela Giesenkirchen

Nancy Rushforth

Artist/Poet in Residence

Alex Caldiero

School of Humanities, Arts, and Social Sciences

Dean: William W. Cobb, Jr.
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 Distribution, students may fulfill the Optional Requirements portion of the AA/AS degrees with a Humanities emphasis by completing 28 additional Humanities credits.

AA Pre Major in Humanities

60 CREDITS

General Education Requirements:

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

- or ENGL 2020 Intermediate Writing--Science and Technology (3.0)
- Complete one of the following: 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
 - or PES 1097 Fitness for Life (2.0)
- Distribution Courses
- Biology 3.0
 - Physical Science 3.0
 - Additional Biology or Physical Science 3.0
 - Humanities Distribution 3.0
 - Fine Arts Distribution 3.0
 - Social/Behavioral Science 3.0
- Discipline Core Requirements: 15 Credits**
- 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 3 credits from the following: AVC, HUM, MUSC, PHIL, THEA (1000 level or higher)
- 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. (Departments may require a higher GPA.)
 - 3 Residency hours-- minimum of 20 credit hours through course attendance at UVSC.
 - 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

General Education Requirements:

- ENGL 1010 Introduction to Writing 3.0
- ENGL 2010 Intermediate Writing--Humanities/Social Sciences 3.0
- or ENGL 2020 Intermediate Writing--Science and Technology (3.0)

- Complete one of the following: 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
 - or PES 1097 Fitness for Life (2.0)

- Distribution Courses
- Biology 3.0
 - Physical Science 3.0
 - Additional Biology or Physical Science 3.0
 - Humanities Distribution 3.0
 - Fine Arts Distribution 3.0
 - Social/Behavioral Science 3.0

Discipline Core Requirements: 21 Credits

Complete 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

- 1000 level or higher 6.0

Graduation Requirements:

- 1 Completion of a minimum of 62 semester credits.
- 2 Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
- 3 Residency hours-- minimum of 20 credit hours through course attendance at UVSC.

- 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 UVSC

Discipline Core Requirements: 9 Credits

- HUM 2010 Arts in Humanistic Traditions I 3.0
- HUM 2020 Arts in Humanistic Traditions II 3.0
- HUM 3500 Approaches to Humanities 3.0

Elective Requirements: 9 Credits

Students must complete 9 credits from the following: 9.0

- HUM 1010 Humanities Through the Arts (3.0)
- HUM 320R Topics in Humanities (1.0) *
- HUM 325R Area Studies in Humanities (3.0)
- HUM 330R Period Studies in Humanities (3.0)

Graduation Requirements:

- 1 Complete all 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 3500 Approaches to Humanities 3.0

Elective Requirements: 9 Credits

Students must complete 9 credits from the following: 9.0

- HUM 1010 Humanities Through the Arts (3.0)
- HUM 320R Topics in Humanities (1.0) *
- HUM 325R Area Studies in Humanities (3.0)
- HUM 330R Period Studies in Humanities (3.0)

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

Information Systems and Technology

Information Systems and Technology

Department Chair: Floyd Wilkes

Office: CS 601g

Telephone: 801-863-8308

E-mail: wilkesfl@uvsc.edu

Faculty:

Professor

David W. Johnson

Pat Ormond

Floyd Wilkes

Associate Professor

Kim Bartholomew

S. Jeff Cold

George D. Hickman

Keith Mulbery

Advisor: Patti Miner

Office: CS 635

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E-mail: minerpa@uvsc.edu

Information Systems & Technology Advisory Committee: Chair: Keith Stearman, President, SureSoft; Mark Crowther, Software Engineer, Office of Information Technology, Brigham Young University; Thomas Freeman, Research Engineering Manager, Lockheed-Martin; Nathan Gerber, Web Development Services Director, Utah Valley State College; Cliff Higby, Director of Budget, Financial, Member, and Statistical Records, The Church of Jesus Christ of Latter-day Saints; Darrel Martin, Documentation Training Manager, IHC; Alex Robbio, Co-Founder and VP of Business Development, Belatrix Software Factory; Mitch Stowell, VP Consulting Services, InfoTrax Systems; and Daniel Veitkus, VP Global Training Services, Novell.

School of Technology and Computing

Interim Dean: Ernest Carey

Office: CS 720

Telephone: 801-863-8321

Information technology is at the heart of today's business. Companies are constantly looking to hire technology-savvy college graduates who will help them achieve competitive advantage in this new century. The Information Systems and Technology (IS&T) Department teaches students how to be productive team players in today's business world through a balanced offering of certificate, associate, and bachelor's degrees in Information Systems and

Information Technology.

The mission of the Information Systems and Technology Department is to provide technologically progressive courses and services that are responsive to our stakeholder community and designed to enhance the competencies of our students in applying information technology to achieve organizational objectives, thus preparing them for successful employment and continuing education. IS&T graduates know how to bring people, information, and technology together to produce enterprise solutions.

Our degree programs are based on national curriculum models developed by Information Systems and Technology professionals and educators. The curriculum is learning outcomes-based and reflects program requirements promulgated by the Accreditation Board for Engineering and Technology (ABET). Our local advisory 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 Internet developers, IT consultants, enterprise software architects, and web administrators. And 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

Discipline Core Requirements: 25 Credits

Complete the following:

- INFO 1120 Information Systems and Technology Fundamentals 3.0
- INFO 1200 Computer Programming I for IS/IT 3.0

Information Systems and Technology

• INFO 1420	Computer Architecture and Systems Software	3.0
• INFO 1510	UNIX/Linux Operating System	3.0
• INFO 2030	Data Communication Fundamentals	3.0
• INFO 2050	Database Fundamentals	3.0
Communication Requirement:		
• ENGL 106A	Career Writing for Technology--A	2.0
Computation Requirement:		
• MAT 1010	Intermediate Algebra	4.0
Human Relations Requirement:		
• MGMT 2250	Job Application and Advancement Skills	1.0
Elective Requirements:		6 Credits
Choose 6 credits from the following courses :		
• INFO 1000	Computer Programming Concepts (3.0)	
• INFO 2640	Router Management (3.0)	
• INFO 2650	Voice and Data Cabling Fundamentals (3.0)	
• INFO 2660	Information Security--Fundamentals (3.0)	
• INFO 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)	

Graduation Requirements:

- 1 Completion of a minimum of 31 semester credits.
- 2 Minimum grade of C- required in all courses.
- 3 Overall grade point average of 2.0 (C) or above.
- 4 Residency hours -- minimum of 10 credit hours through course attendance at UVSC.

AAS in Information Systems and Technology

65 CREDITS

General Education Requirements:			17 Credits
ENGLISH			
• ENGL 1010	Introduction to Writing	3.0	
MATHEMATICS			
• MATH 1050	College Algebra	4.0	
or Any higher Mathematics Course			
HUMANITIES/FINE ARTS/FOREIGN LANGUAGE			
• Any approved Humanities, Fine Arts, or Foreign Language Distribution course		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	
and ACC 2020	Managerial Accounting or	3.0	
or ACC 3000	Financial Managerial and Cost Accounting Concepts (4.0)		
and Any approved Accounting- or Business-related Course (2.0)			
Or any other approved IT Application Domain Core Requirements:			
• INFO 1120	Information Systems and Technology Fundamentals	3.0	
• INFO 1200	Computer Programming I for IS/IT	3.0	
• INFO 1420	Computer Architecture and Systems Software	3.0	
• INFO 1510	Introduction to System Administration--Linux/UNIX	3.0	
• INFO 2030	Data Communication Fundamentals	3.0	
• INFO 2050	Database Fundamentals	3.0	
• INFO 2200	Computer Programming II for IS/IT	3.0	
• INFO 2450	Web Application Design	3.0	
• INFO 3030	Networks and Internetworking	3.0	
• INFO 3410	Database Systems	3.0	
• INFO 3430	Systems Analysis Design and Integration	3.0	

Elective Requirements:

6 Credits

Choose a minimum of 6 credits from the following:			6.0
• INFO 1000	Computer Programming Concepts (3.0)		
• INFO 2640	Router Management (3.0)		
• INFO 2650	Voice and Data Cabling Fundamentals (3.0)		

• INFO 281R	Internship (1.0)	
• INFO 301R	Digital Lecture Series (1.0)	
• INFO 3120	Principles of Information Systems--A Managerial Approach (3.0)	
• INFO 3420	Web Systems Development I (3.0)	
• INFO 3440	Enterprise Database Development (3.0)	
• INFO 3510	Advanced System Administration--Linux/UNIX (3.0)	
• INFO 3620	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 other department-approved elective		

Graduation Requirements:

- 1 Completion of a minimum of 65 semester credits.
- 2 Overall grade point average of 2.0 (C) or above with a minimum 2.5 GPA in all discipline core and elective courses with no grade lower than a "C-."
- 3 Residency hours: minimum of 20 credit hours through attendance at UVSC.
- 4 Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.

AS Pre Major in Information Systems and Technology

61 CREDITS

General Education Requirements:

36 Credits

• ENGL 1010	Introduction to Writing	3.0
• 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)	
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)	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 1100	Introduction to Calculus	4.0
• INFO 1120	Information Systems and Technology Fundamentals	3.0
• INFO 1200	Computer Programming I for IS/IT	3.0
• INFO 1420	Computer Architecture and Systems Software	3.0
• INFO 1510	Introduction to System Administration--Linux/UNIX	3.0
• INFO 2050	Database Fundamentals	3.0
• INFO 2200	Computer Programming II for IS/IT	3.0
• INFO 2450	Web Application Design	3.0

Graduation Requirements:

- 1 Completion of a minimum of 61 semester credits.
- 2 Overall grade point average of 2.0 or above with a minimum 2.5 GPA in all discipline core and elective courses with no grade lower than a "C-."
- 3 Residency hours: minimum of 20 credit hours through course attendance at UVSC.
- 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)	

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)	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 ACC 2020	Managerial Accounting	3.0
or ACC 3000	Financial Managerial and Cost Accounting Concepts (4.0)	

and Any approved Accounting- or Business-related course (2.0)

• MGMT 2200	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	3.0
• INFO 1420	Computer Architecture and Systems Software	3.0
• INFO 1510	Introduction to System Administration--Linux/UNIX	3.0
• INFO 2030	Data Communication Fundamentals	3.0
• INFO 2050	Database Fundamentals	3.0
• INFO 2200	Computer Programming II for IS/IT	3.0
• INFO 2450	Web Application Design	3.0
• INFO 301R	Digital Lecture Series	1.0
• 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 3430	Systems Analysis Design and Integration	3.0
• INFO 4050	Global Ethical and Professional Issues in Technology	3.0
or TECH 4050	Global Ethical and Professional Issues in Technology (3.0)	
or CS 3050	Computer Ethics (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)	

Elective Requirements:

15 Credits

Select 15 credits from the following:

• INFO 1000	Computer Programming Concepts (3.0)	15.0
• INFO 2660	Information Security--Fundamentals (3.0)	
• INFO 3030	Networks and Internetworking (3.0)	
• INFO 3440	Enterprise Database Development (3.0)	
• INFO 3510	Advanced System Administration--Linux/UNIX (3.0)	
• INFO 3620	System Administration--Windows (3.0)	
• INFO 3630	Advanced System Administration--Windows Server (3.0)	
• INFO 3660	Information Security--Network Defense and Countermeasures (3.0)	
• INFO 4410	Database Administration (3.0)	
• INFO 4420	Web Systems Development II (3.0)	
• INFO 4440	Software Acquisition Implementation and Integration (3.0)	
• INFO 4460	Enterprise Database Architecture (3.0)	
• INFO 459R	Current Topics in Information Systems and Technology (3.0)	
• MGMT 3010	Principles of Management (3.0)	
• Other approved elective (3.0)		

Graduation Requirements:

- 1 Completion of at least 122 semester credits required in the BS degree; at least 40 credit hours must be upper-division courses.

Information Systems and Technology

- 2 Overall grade point average 2.0 or above with a minimum of 2.5 GPA in all discipline core, specialty core, and elective courses with no grade lower than a "C-."
- 3 Residency hours: Minimum of 30 credit hours through course attendance at UVSC, 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.

BS in

Information Technology 124 Credits

General Education Requirements: 40 Credits

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

or ENGL 2020 Intermediate Writing--Science and Technology (3.0)

- MATH 1050 College Algebra 4.0
- Complete one of the following: 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 Distribution 3.0
- Fine Arts Distribution 3.0
- Social/Behavioral Science Distribution 3.0
- ENGL 2310 Technical Communication (fulfills Humanities) 3.0

- PHYS 2010 College Physics I (fulfills Physical Science) 4.0

- and PHYS 2015 College Physics I Lab 1.0
- PHYS 2020 College Physics II (fulfills additional Biology or Physical Science) 4.0

- and PHYS 2025 College Physics II Lab 1.0

Discipline Core Requirements: 63 Credits

Math Requirement:

- MATH 1100 Introduction to Calculus 4.0
- INFO 2230 Data and Discrete Structures (3.0)
- or CS 2300 Discrete Structures I 3.0
- MATH 2040 Principles of Statistics 4.0
- or MGMT 2340 Business Statistics I (3.0)

IT Core Requirements:

- INFO 1120 Information Systems and Technology Fundamentals 3.0
- INFO 1420 Computer Architecture and Systems Software 3.0
- INFO 1510 Introduction to System Administration--Linux/UNIX 3.0
- INFO 2660 Information Security--Fundamentals 3.0
- INFO 301R Digital Lecture Series 1.0
- INFO 3430 Systems Analysis Design and Integration 3.0
- CS 4410 Human Factors in Software Engineering 3.0
- or DGM 2240 Interaction Design (3.0)

IT Pillar Courses:

- INFO 1200 Computer Programming I for IS/IT 3.0
- INFO 2030 Data Communication Fundamentals 3.0
- INFO 2050 Database Fundamentals 3.0
- INFO 2450 Web Application Design 3.0

Advanced IT Pillar Courses:

- INFO 2200 Computer Programming II for IS/IT 3.0
- Select 3 credits from the following: 3.0

- INFO 3030 Networks and Internetworking (3.0)
- INFO 3410 Database Systems (3.0)
- INFO 3420 Web Systems Development I (3.0)

Project Experience:

- INFO 3400 Project Management 3.0
- or TECH 3400 Project Management (3.0)
- INFO 4550 Senior Project 3.0
- or INFO 481R Internship (1.0)

IT Application Domain Requirement:

Two specified courses to provide students with knowledge of an application domain of their choice and interest. (See department advisor for list of approved courses.)

Some possible application domains are:

- Accounting/IT Auditor
- Business
- Communications
- Computer Science
- Construction
- Criminal Justice
- Forensics
- Geographic Information Systems
- Health professions

- Hospitality Management
- Manufacturing/Production
- Military Science
- Multimedia/Digital Media
- Physical Sciences
- Social Sciences

Business Domain - (**Required for Enterprise Systems concentration)

- MGMT 2200 Business Communications (3.0)
- MGMT 3600 Principles of Marketing (3.0)

Professional Ethics:

- INFO 4050 Global Ethical and Professional Issues in Technology 3.0

or TECH 4050 Global Ethical and Professional Issues in Technology (3.0)

or CS 3050 Computer Ethics (3.0)

Emphasis:

Complete one of the following:

- Database Administration 21.0
- Enterprise Systems 21.0
- Network Administration and Security 21.0

Graduation Requirements:

- 1 Completion of at least 124 semester credits required in the BS degree; at least 40 credit hours must be upper-division courses.
- 2 Overall grade point average 2.0 or above with a minimum of 2.5 GPA in all discipline core, specialty core, and elective courses with no grade lower than a "C-."
- 3 Residency hours: Minimum of 30 credit hours through course attendance at UVSC, with at least 10 hours earned in the last 45 hours.
- 4 Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.

Emphasis in

Database Administration 21 Credits

Emphasis Elective Requirements: 21 Credits

Select 21 credits from the following: 21.0

- INFO 1510 Introduction to System Administration--Linux/UNIX (3.0)
- INFO 3440 Enterprise Database 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 4460 Enterprise Database Architecture (3.0)
- INFO 4420 Web Systems Development II (3.0)
- Approved Business Elective (3.0)
- Additional Advanced IT Pillar (3.0)

Emphasis in

Enterprise Systems 21 Credits

Emphasis Elective Requirements: 21 Credits

Select 21 credits from the following, 12 credits must be 21.0

in Business:

- ACC 2010 Financial Accounting (3.0)
- and ACC 2020 Managerial Accounting (3.0)
- or ACC 3000 Financial Managerial and Cost Accounting Concepts (4.0)
- MGMT 3000 Organizational Behavior (3.0)
- 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 Software Acquisition Implementation and Integration (3.0)
- Additional Advanced IT Pillar (3.0)

Emphasis in Network

Administration and Security 21 Credits

Emphasis Elective Requirements: 21 Credits

Select 21 credits from the following, 15 credits of which 21.0 must be upper division:

- INFO 1510 Introduction to System Administration--Linux/UNIX (3.0)
- INFO 2640 Router Management (3.0)
- INFO 2650 Voice and Data Cabling Fundamentals (3.0)
- INFO 3510 Advanced System Administration--Linux/UNIX (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 4660 Computer Forensics (3.0)
- Additional Advanced IT Pillar (3.0)

Minor in Information Systems and Technology 21 Credits

Discipline Core Requirements: 9 Credits

Prerequisite:

- INFO 1120 Information Systems and Technology Fundamentals (3.0)

Complete the following:

- INFO 1200 Computer Programming I for IS/IT 3.0
- INFO 1420 Computer Architecture and Systems Software 3.0
- INFO 2050 Database Fundamentals 3.0

Elective Requirements: 12 Credits

Complete 12 credits from the following, 9 credits of which must be upper division:

- INFO 1510 Introduction to System Administration--Linux/UNIX (3.0)
- INFO 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 Advanced System Administration--Windows Server (3.0)
- INFO 3660 Information Security--Network Defense and Countermeasures (3.0)

Graduation Requirements:

- To fill the requirements for an information systems and technology minor students must have no course grade lower than C- in any of the INFO courses required for the minor

BA/BS in

Integrated Studies 123 Credits

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

Emphasis in

Computer Networking 18 Credits

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: 9.0

- 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 4050 Global Ethical and Professional Issues in Technology (3.0)
- or TECH 4050 Global Ethical and Professional Issues in Technology (3.0)
- INFO 4660 Computer Forensics (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 124 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	Computer Programming II for IS/IT	3.0
• INFO 2450	Web Application Design	3.0
• INFO 3030	Networks and Internetworking	3.0
• INFO 3410	Database Systems	3.0
• INFO 3430	Systems Analysis Design and Integration	3.0

Elective Requirements: 6 Credits

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 2640 Router Management (3.0)
- INFO 2650 Voice and Data Cabling Fundamentals (3.0)
- INFO 2660 Information Security--Fundamentals (3.0)
- INFO 281R Internship (1.0)
- INFO 301R Digital Lecture Series (1.0)
- INFO 3420 Web Systems Development I (3.0)
- INFO 3440 Enterprise Database Development (3.0)
- INFO 3510 Advanced System Administration--Linux/UNIX (3.0)
- INFO 3620 System Administration--Windows (3.0)
- INFO 3630 Advanced System Administration--Windows Server (3.0)
- INFO 3660 Information Security--Network Defense and Countermeasures (3.0)
- 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

Integrated Studies

Integrated Studies

Program Director: Scott Abbott

Office: LA 109c
Telephone: 801-863-8537

Faculty:

Professor

Scott Abbott
Mark Jeffreys
Laurelyn Whitt

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Office: LA 210d
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Administrative Assistant: Frankie Jensen
Office: LA 210
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CAREER OPPORTUNITIES

For those completing the Bachelor Degree in Integrated Studies (IS), many opportunities exist for advanced and professional degrees (law school, medical and dental schools, MBA, MPA, etc) and in the business environment. Many employers seek students with skills gained from liberal arts programs like Integrated Studies. These skills include the ability to comprehend diverse material, to write clearly, to think critically, to work cooperatively, and to become adept at problem solving.

CURRICULUM

The individualized nature of the Integrated Studies degree is attractive to students with multiple interests who want to develop skills that are relevant to a variety of careers. Students integrate course work in emphases such as science, business, health, literature, languages, communication, philosophy,

behavioral science, social science and the arts. Emphases from computer science and information systems, accounting, technology and trades and physical education are also offered as part of this degree.

SUMMARY OF THE DEGREE

- After becoming familiar with the material on the IS website (<http://www.uvsc.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 schools: Business; Technology and Computing; Science and Health; Humanities, Arts and Social Sciences.
- 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 UVSC; at least 10 of these must be completed at UVSC within the last 45 credit hours earned.
- For a Bachelor of Arts degree, students must complete the 2020 class in the chosen foreign language. For a Bachelor of Science degree, students must complete either MATH 1210 or MATH 2040.

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
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 and HIST 2710	US History to 1877 (3.0) 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 (any 2020 Foreign language course recommended) 3.0
- Fine Arts Distribution 3.0
- Social/Behavioral Science 3.0

Discipline Core Requirements: 15 Credits

- Complete any courses 1000 or higher (if planning to complete a BA degree, see advisor for list of recommended courses) 15.0

Elective Requirements: 10 Credits

- One Language (other than English) to include the 10.0
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. (Departments may require a higher GPA.)
- 3 Residency hours--minimum of 20 credit hours through course attendance at UVSC.
- 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
- or ENGL 2020 Intermediate Writing--Science and
Technology (3.0)
- Complete one of the following: 3.0
- MATH 1030 Quantitative Reasoning
(recommended for Humanities or
Arts majors) (3.0)
- MATH 1040 Introduction to Statistics
(recommended for Social Science
majors) (3.0)
- MATH 1050 College Algebra (recommended for
Business, Education, Science, and
Health Professions majors) (4.0)
- Complete one of the following: 3.0
- HIST 2700 US History to 1877 (3.0)
- and HIST 2710 US History since 1877 (3.0)
- HIST 1700 American Civilization (3.0)
- HIST 1740 US Economic History (3.0)
- POLS 1000 American Heritage (3.0)
- POLS 1100 American National
Government (3.0)

- Complete the following:
- 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 3.0
- Fine Arts 3.0
- Social/Behavioral Science 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. (Departments may require a higher GPA.)
- 3 Residency hours--minimum of 20 credit hours through course attendance at UVSC.
- 4 Completion of GE and specified departmental requirements.

BA in

Integrated Studies 123-126 CREDITS

Matriculation Requirements:

- 1 An associate in arts or associate in science degree, or
- 2 Junior status in college with approximately 60 or more credits.
- 3 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
- 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)

Integrated Studies

- 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
- 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
- Any 2020 Foreign Language course 3.0
- Fine Arts Distribution 3.0
- Social/Behavioral Science 3.0

Discipline Core Requirements: 21 Credits

- ENGL 3030 Writing and Communicating Effectively in/across Contexts* 3.0
- IS 3000 Introductory Topics in Integrated Studies 3.0
- IS 3500 Topics in Integrated Studies 3.0
- PHIL 3000+ 3.0
- PHIL 3000+ 3.0
- IS 4980 Integrated Studies Capstone I 3.0
- IS 499R Integrated Studies Capstone II 3.0

Emphasis Requirements: 36 Credits

- Complete 1 approved Integrated Studies Emphasis 18.0
- Complete another approved Integrated Studies Emphasis 18.0

Elective Requirements: 31 Credits

- Complete any 1000-level, or higher, courses 31.0

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 UVSC, with at least 10 hours earned in the last 45 hours.
- 4 Completion of GE and specified departmental requirements; students must have "C-" or higher in the Discipline Core courses (except for the Foreign Language classes).
- 5 For the BA degree, completion of 18 credit hours of course work from one language to include the 1010, 1020, 2010, and 2020 levels or transferred equivalents.

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 3000 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 the following:

- 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)
- 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: 25 Credits

- ENGL 3030 Writing and Communicating Effectively in/across Contexts* 3.0
- IS 3000 Introductory Topics in Integrated Studies 3.0
- PHIL 3000+ 3.0
- PHIL 3000+ 3.0
- IS 3500 Topics in Integrated Studies 3.0
- MATH 1210 Calculus I (5.0)
- or MATH 2040 Principles of Statistics 4.0
- IS 4980 Integrated Studies Capstone I 3.0
- IS 499R Integrated Studies Capstone II 3.0

Emphasis Requirements: 36 Credits

- Complete 1 approved Integrated Studies Emphasis 18.0
- Complete another approved Integrated Studies Emphasis 18.0

Elective Requirements: 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 UVSC, with at least 10 hours earned in the last 45 hours.
- 4 Completion of GE and specified departmental requirements; students must have "C-" or higher in the Discipline Core courses.

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 3000 may be exempted from ENGL 3030.

Emphasis in

Accounting 18 Credits

Emphasis Requirements: 18 Credits

- ACC 3010 Intermediate Accounting I 3.0
 - ACC 3020 Intermediate Accounting II 3.0
- Choose 12 credits from the following: 12.0
- ACC 3300 Cost Accounting (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)

NOTE: A minimum of 2.5 GPA in all School of Business courses, and no grade lower than a C-, required for graduation.

Emphasis in

American Sign Language 18 Credits

Emphasis Requirements: 18 Credits

Prerequisites (see advisor)

- ASL 1010 Beginning American Sign Language I (5.0)
- ASL 1020 Beginning American Sign Language II (5.0)
- ASL 2010 Intermediate American Sign Language I (5.0)
- ASL 2020 Intermediate American Sign Language II (3.0)

Choose 18 credits from the following: 18.0

- ASL 3050 Advanced American Sign Language (3.0)
- ASL 3310 Interpreting I (3.0)
- ASL 3330 Cross-Cultural Communication and Interpreting (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 3800 ASL Deaf Culture Studies (3.0)
- ASL 4410 ASL Linguistics (3.0)

Emphasis in

Anthropology 19 Credits

Emphasis Requirements: 19 Credits

Prerequisites:

- ANTH 1010 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)
- ANTH 4850 Ethnographic Methods (3.0) 3.0

Complete 6 additional credits in Anthropology. Three credits must be upper division. 6.0

Footnotes:

- ** ANTH/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 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 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: 6.0

- 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 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 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: 6.0

- DANC 1700 American Social Dance I (3.0)
- DANC 1710 International Ballroom Dance I (1.0)
- DANC 1720 Latin Ballroom Dance I (1.0)
- DANC 2700 American Social Dance II (1.0)
- DANC 2710 International Ballroom Dance II (1.0)
- DANC 2720 Latin Ballroom Dance II (1.0)
- DANC 370R American Social Dance III (1.0)
- DANC 371R International Ballroom Dance III (1.0)
- DANC 372R Latin Ballroom Dance III (1.0)
- DANC 3730 American Social Dance Teaching Methods (2.0)
- DANC 376R Ballroom Dance Company Reserve Tour Team (2.0)
- DANC 4740 International Ballroom Dance Teaching Methods (3.0)
- DANC 4750 Latin Ballroom Dance Teaching Methods (3.0)
- DANC 476R Ballroom Dance Company Tour Team (2.0)

Emphasis in 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 4500 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 495R, or BIOL 499R. 11.0

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 Basic Computer Proficiency (3.0)
 - or Business Computer Proficiency Exam *
- Complete the following:

Integrated Studies

- 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 School of Business courses, and no grade lower than a C-, required for graduation.

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 one of the following tracks: 18.0

TRACK ONE: ANALYTIC

Complete six credits from the following:

- COMM 2010 Mass Communication and Society (3.0)
- COMM 2270 Argumentation (3.0)
- COMM 2300 Public Relations (3.0)
- COMM 2400 Organizational Communication (3.0)
- THEA 2313 Film History I (3.0)
- THEA 2323 Film History II (3.0)
- THEA 2333 Race Class and Gender in Film (3.0)

Complete twelve credits from the following:

- ANTH 3500 Discourse Semiotics and Representation (3.0)
- COMM 3010 History of Mass Communication (3.0)
- COMM 3050 Theories of Communication and Culture (3.0)
- COMM 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 3600 Mass Media Ethics and Law (3.0)
- COMM 3620 International Communication (3.0)
- COMM 3700 Free Expression in a Democratic Society (3.0)
- COMM 3780 Mormon Cultural Studies (3.0)
- COMM 3790 Case Studies in Journalism (3.0)
- COMM 380R Long-Format Video Journalism (3.0)
- COMM 4100 Advanced Mediation and Negotiation (3.0)

TRACK TWO: APPLIED

Complete all of the following:

- COMM 2130 Television News Writing and Reporting (3.0)
- COMM 2700 Broadcast Journalism Anchoring and Producing (3.0)
- COMM 3600 Mass Media Ethics and Law (3.0)

Complete one of the following four classes:

- COMM 2010 Mass Communication and Society (3.0)
- COMM 2300 Public Relations (3.0)
- COMM 2560 Radio Production (3.0)
- COMM 2790 Magazine Writing (3.0)

Complete one of the following two classes:

- COMM 413R Advanced Television News Writing and Reporting (3.0)

- COMM 470R On-Air Broadcast Journalism (3.0)

Complete two of the following eight classes:

- COMM 3010 History of Mass Communication (3.0)
- COMM 3050 Theories of Communication and Culture (3.0)
- COMM 3520 Case Studies in Public Relations (3.0)
- COMM 3700 Free Expression in a Democratic Society (3.0)
- COMM 3790 Case Studies in Journalism (3.0)
- COMM 380R Long-Format Video Journalism (3.0)
- COMM 413R Advanced Television News Writing and Reporting (3.0)
- COMM 470R On-Air Broadcast Journalism (3.0)

Emphasis in Community Health 18 Credits

Emphasis Requirements: 18 Credits

Complete the following:

- HLTH 3200 Principles of Community Health 3.0
- HLTH 4050 Foundations of Health Education 3.0
- HLTH 3400 Human Diseases 3.0
- or HLTH 3800 Epidemiology (3.0)
- HLTH 4300 Community Health Ethics (3.0)
- or HLTH 4600 Research Methods for Community Health 3.0

Choose 6 credits from the following: 6.0

- NUTR 1020 Foundations of Human Nutrition (3.0)
- NUTR 2020 Nutrition Through the Life Cycle (3.0)
- HLTH 2400 Concepts of Stress Management (3.0)
- HLTH 2800 Human Sexuality (3.0)
- HLTH 2600 Drugs Behavior and Society (3.0)
- HLTH 3000 Health Concepts of Death and Dying (3.0)
- HLTH 3150 Culture Ecology and Health (3.0)
- HLTH 3240 Womens Health Issues (3.0)
- HLTH 3250 Consumer Health (3.0)
- HLTH 3260 Modifying Health Behavior (2.0)
- HLTH 3300 Health Promotion for Older Adults (3.0)
- HLTH 4150 Community Health Program Development and Evaluation (3.0)
- HLTH 4250 Health Services Organization and Policy (3.0)
- HLTH 490R Special Topics in Community Health (1.0)

Emphasis in Computer 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: 9.0

- 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 4050 Global Ethical and Professional Issues in Technology (3.0)
- or TECH 4050 Global Ethical and Professional Issues in Technology (3.0)
- INFO 4660 Computer Forensics (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: 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.

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 Cinema 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
- 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 3120 Developing Multimedia for Accessibility (3.0)
- DGM 3130 Digital Storyboarding (3.0)
- DGM 2220 Marketing for Digital Media (3.0)
- DGM 4410 Senior Projects II (3.0)
- DGM 4410 Senior Projects II (3.0)

Emphasis in Earth Science 18 Credits

Emphasis Requirements: 18 Credits

Earth Science Emphasis:

- GEO 1010 Introduction to Geology 3.0
- GEO 1015 Introduction to Geology Laboratory (highly recommended) (1.0)

Complete one of the following sets (lab is highly recommended): 3.0

- GEO 1220 Historical Geology (3.0)
- and GEO 1225 Historical Geology Laboratory (1.0)
- or GEO 1080 Introduction to Oceanography (3.0)
- and GEO 1085 Introduction to Oceanography Laboratory (1.0)

or METO 1010 Introduction to Meteorology (3.0)

and METO 1020 Introduction to Meteorology Laboratory (1.0)

Complete three courses from the following: 12.0

- METO 3100 Earth Systems (3.0)
- and 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)
- 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)

Emphasis in Environmental Studies 18 Credits

Emphasis Requirements: 9 Credits

- ENST 3000 Introduction to Environmental Studies 3.0
- ANTH 3150 Culture Ecology and Health 3.0
- or PHIL 3530 Environmental Ethics (3.0)
- METO 1010 Introduction to Meteorology 3.0
- or BIOL 2500 Environmental Biology (3.0)

Elective Requirements: 9 Credits

Complete 3 of the following courses of 3 different prefixes for a total of 9 credit hours of different prefixes.

Not all 3 courses may come from the same School, and at least 3-credits must be upper-division.

- BIOL 1010 General Biology (3.0)
- BIOL 2500 Environmental Biology (3.0)
- BIOL 3800 Conservation Biology (3.0)
- BIOL 3700 General Ecology (3.0)
- COMM 3130 The Culture of Nature and Technology (3.0)
- ENVT 3280 Environmental Law (3.0)
- ENVT 3850 Environmental Policy (3.0)
- GEOG 3010 Economic Geography (3.0)
- GEO 3210 Environmental Geology (4.0)
- HIST 4330 Machines in the Making of History (3.0)
- HIST 3800 Environmental History of the United States (3.0)
- PHIL 3530 Environmental Ethics (3.0)
- POLS 1800 Our Global Community (3.0)
- SOC 3450 Environmental Sociology (3.0)
- HIST 3260 History of Utah (3.0)
- 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)

Integrated Studies

• 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)	
• FREN 3200	Business French (3.0)	
• FREN 3510	Culture and Civilization to 1700 (3.0)	
• FREN 3520	Culture and Civilization from 1700 (3.0)	
• FREN 3610	French Literature to 1700 (3.0)	
• FREN 3620	French Literature from 1700 (3.0)	
• FREN 4200	Advanced Business French (3.0)	
Footnotes:		
* FREN 3040 or 3050 is the prerequisite to all higher-numbered courses listed in Discipline Core Requirements.		

Emphasis in History 18 Credits

Emphasis Requirements:	18 Credits
History Emphasis	
Complete one of the following:	3.0
• HIST 3010	The Nature of History (3.0)
or HIST 3260	History of Utah (3.0)
or See Advisor	
Complete an additional 15 credits from any HIST course 3000 or higher (see advisor)	15.0

Emphasis in Hospitality Management 18 Credits

Emphasis Requirements:	18 Credits
Hospitality Management Emphasis	
Complete the following:	
• HM 1130	Hotel Operations I 3.0
• HM 3390	Hotel Operations II 3.0
Complete 12 credits from the following:	12.0
• HM 3020	Hospitality Managerial Accounting (4.0)
• HM 3050	Country Club Management (3.0)
• HM 3150	Hospitality Finance (3.0)
• HM 3200	Global Tourism (3.0)
• HM 3640	Food and Beverage Controls (3.0)
• HM 3710	Marketing of Hospitality Services (3.0)
• HM 4550	Hospitality Industry Management (3.0)
• LEGL 3100	Hospitality Law (3.0)
Note: A minimum of 2.5 GPA in all School of Business courses, and no grade lower than a C- required for graduation.	

Emphasis in Humanities 18 Credits

Emphasis Requirements:	9 Credits
• HUM 2010	Arts in Humanistic Traditions I 3.0
• HUM 2020	Arts in Humanistic Traditions II 3.0
• HUM 3500	Approaches to Humanities 3.0
Elective Requirements:	9 Credits
Students must complete 9 credits from the following:	9.0
• HUM 1010	Humanities Through the Arts (3.0)
• HUM 320R	Topics in Humanities (1.0) *
• HUM 325R	Area Studies in Humanities (3.0)
• HUM 330R	Period Studies in Humanities (3.0)
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 2010	Financial Accounting (3.0)
and ACC 2020	Managerial Accounting (3.0)
Complete the following:	
• INFO 3120	Principles of Information Systems--A Managerial Approach 3.0
• ECON 2020	Macroeconomics 3.0
• MGMT 3000	Organizational Behavior 3.0
• MGMT 3010	Principles of Management 3.0
• MGMT 3500	Leadership Process 3.0
• MGMT 3600	Principles of Marketing 3.0

Note: A minimum of 2.5 GPA in all School of Business course, and no grade lower than a C-, required for graduation.

Emphasis in Military Science 18 Credits

Emphasis Requirements:	18 Credits
• MILS 3200	Small Unit Leadership I 3.0
• MILS 3210	Small Unit Leadership II 3.0
• MILS 4200	The Profession of Arms I 3.0

• MILS 4210	The Profession of Arms II 3.0
Complete one of the following:	3.0
• HIST 3450	The History of World War II (3.0)
• HIST 3520	The United States and Vietnam--1945 to Present (3.0)
• HIST 4740	American Revolution (3.0)
Complete 3 credits from the following:	3.0
• COMM 3520	Case Studies in Public Relations (3.0)
• CJ 3040	Community Policing (3.0)
• ENGL 2310	Technical Communication (3.0)
• DGM 3265	Adult Learning for Instructional Design (3.0)
• DGM 3290	Developing Digital Media for Instruction and Training (3.0)
• MGMT 3300	Survey of International Business (3.0)
• MGMT 3320	Cross-Cultural Communications for International Business (3.0)
• MGMT 3430	Human Resource Management (3.0)
• MGMT 3440	Managing Organizations (3.0)
• POLS 3100	Survey of International Terrorism (3.0)
• POLS 3400	American Foreign Policy (3.0)
• POLS 3600	International Relations of East Asia (3.0)

- Notes:
- Contracted Army ROTC Cadets must also satisfy the leadership laboratory and physical fitness terms of their contract in order to be commissioned officers in the US Army.
 - Military Science students who select this emphasis may not choose Physical Education, Outdoor Leadership, Leadership, or Office Management as their second emphasis.

Emphasis in Modern Dance 20 Credits

Emphasis Requirements:	20 Credits
Prerequisites:	
• DANC 1330	Studio Workshop--Creative Process in Dance (1.0)
• DANC 2110	Orientation to Dance (3.0)
• DANC 2670	Introduction to Laban Studies (2.0)
• 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:	6.0
• DANC 143R	Modern Dance Technique and Theory I (3.0)
• DANC 144R	Modern Dance Technique and Theory I (3.0)
• DANC 243R	Modern Dance Technique and Theory II (3.0)
• DANC 244R	Modern Dance Technique and Theory II (3.0)
• DANC 341R	Modern Dance Technique and Theory III (3.0)
• DANC 342R	Modern Dance Technique and Theory III (3.0)
• DANC 441R	Modern Dance Technique and Theory IV (3.0)
• DANC 442R	Modern Dance Technique and Theory IV (3.0)

Emphasis in Music 18 Credits

Emphasis Requirements:	18 Credits
Prerequisites (see advisor)	
• MUSC 1110	Basic Music Theory I (3.0)
• MUSC 1130	Aural Music Skills I (2.0)
• MUSC 1120	Basic Music Theory II (3.0)
• MUSC 1140	Aural Music Skills II (2.0)
• MUSC 2350	Fundamentals of Conducting (2.0)
• MUSC 1400	Introduction to Music Technology (2.0)
• MUSC 2110	Advanced Music Theory I (3.0)
• MUSC 2120	Advanced Music Theory II (3.0)
• Individual Musicianship Studies: student must complete 4 credits selected from the following:	
• MUSC 150R	Individual Piano Instruction (1.0)
• MUSC 151R	Individual Voice Instruction (1.0)
• MUSC 152R	Individual Woodwind Instruction (1.0)
• MUSC 153R	Individual Brass Instruction (1.0)
• MUSC 154R	Individual String Instruction (1.0)
• MUSC 155R	Individual Percussion Instruction (1.0)
• MUSC 156R	Individual Guitar Instruction (1.0)
• Performance Group Studies: students must complete 4 credits selected from the following:	
• MUSC 120R	A Cappella Choir (1.0)
• MUSC 124R	UVSC Concert Choir (1.0)

• MUSC 130R	Symphonic Band (1.0)
• MUSC 170R	Symphony Orchestra (1.0)
Complete the following:	
• MUSC 2010	Music History and Literature I 3.0
• MUSC 2020	Music History and Literature II 3.0
Complete 3 credits from the following. (Each course may be repeated (3) times toward graduation):	3.0
• MUSC 350R	Advanced Individual Piano Instruction (1.0)

• MUSC 351R	Advanced Individual Voice Instruction (1.0)
• MUSC 352R	Advanced Individual Woodwind Instruction (1.0)
• MUSC 353R	Advanced Individual Brass Instruction (1.0)
• MUSC 354R	Advanced Individual String Instruction (1.0)
• MUSC 355R	Advanced Individual Percussion Instruction (1.0)
• MUSC 356R	Advanced Individual Guitar Instruction (1.0)

Complete 3 credits from the following. (Each course may be repeated (3) times toward graduation):	3.0
• MUSC 320R	Advanced A Cappella Choir (1.0)
• MUSC 330R	Advanced Symphony Band (1.0)
• MUSC 370R	Advanced Symphony Orchestra (1.0)

Complete at least 6 credits from the following (3 credits must be upper-division):	6.0
• MUSC 1800	Introduction to Music Education (1.0)
• MUSC 3120	Form and Analysis (2.0)
• MUSC 3150	Advanced Instrumental Conducting (2.0)
• MUSC 4130	Scoring and Arranging (2.0)
• MUSC 4150	Advanced Choral Conducting (2.0)
• MUSC 4600	Jazz Improvisation (1.0)

Emphasis in Office Management 19 Credits

Emphasis Requirements:	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 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:	8.0
• 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.	

Emphasis in Outdoor Leadership 18 Credits

Emphasis Requirements:	18 Credits
Outdoor Leadership Emphasis	
Complete the following:	
• REC 3600	Foundations of Recreation and Leisure 2.0
• REC 3100	Recreation Program Planning 3.0
• REC 3400	Recreation Administration and Risk Management 3.0
• REC 4000	Outdoor Leadership 4.0
Complete 6 credits from the following:	6.0
• REC 1527	Rock Climbing I (2.0)
• REC 1525	Mountaineering (2.0)
• REC 1550	Mountain Biking (2.0)
• REC 1350	Scuba Diving I (2.0)
• REC 1351	Scuba Diving II (2.0)
• REC 1505	Whitewater Kayaking I (2.0)
• REC 1528	Rock Climbing II (2.0)
• REC 2005	Ropes Course Facilitation (2.0)
• REC 2010	Avalanche Awareness (2.0)
• REC 1500	Canoeing I (1.0)
• REC 3300	Wilderness Skills (2.0)

Emphasis in Philosophy 18 Credits

Emphasis Requirements:	18 Credits
Complete the following:	
• PHIL 1250	Logical Thinking and Philosophical Writing 3.0

Integrated Studies

Complete 3 credits from the following:	3.0
• PHIL 1000 Introduction to Philosophy (3.0)	
• PHIL 1600 World Religions (3.0)	
• PHIL 2010 Ancient-Medieval Philosophy (3.0)	
• PHIL 2020 Modern-Contemporary Philosophy (3.0)	
• PHIL 3150 Philosophical Issues in Feminism (3.0)	
• PHIL 3450 Philosophy of Childhood (3.0)	
• PHIL 3400 Philosophy of Science (3.0)	
• PHIL 290R Independent Study (1.0)	
• PHIL 295R Directed Readings (1.0)	
Complete 12 credits from the following:	12.0
• PHIL 3000 Formal Deductive Logic (3.0)	
• PHIL 3800 Introduction to Aesthetics (3.0)	
• PHIL 3300 Epistemology (3.0)	
• PHIL 3510 Business and Professional Ethics (3.0)	
• PHIL 3600 Philosophy of Religion (3.0)	
• PHIL 3530 Environmental Ethics (3.0)	
• PHIL 400R Great Philosophers (3.0)	
• PHIL 3700 Social and Political Philosophy (3.0)	
• PHIL 4140 History of Analytic Philosophy (3.0)	
• PHIL 4480 Philosophy of Language (3.0)	
• PHIL 450R Interdisciplinary Senior Ethics Seminar (3.0)	
• PHIL 451R Ethical Theory Seminar (3.0)	

Emphasis in Physical Education 18 Credits

Emphasis Requirements: 18 Credits

Physical Education Emphasis	
Complete the following:	
• PES 2700 Foundations of Physical Education and Recreation	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	

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)	
or PSY 2400 Psychology of Personal Effectiveness	3.0
• PSY 3010 Statistics for the Behavioral Sciences*	4.0
• PSY 3020 Research Methods for the Behavioral Sciences	3.0
• Complete 9 additional credits in Psychology. Six credits must be upper division, three credits may be lower or upper division.	9.0

Footnotes:

- ** ANTH/PSY/SOC 1010 are introductory courses and pre-requisites which may not be used in the 18 hours required for these Integrated Studies Emphases.
- * If students take MGMT 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 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 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 3740 Literature of the Sacred (3.0)	
• ENGL 3780 Mormon Literature (3.0)	
• HIST 4100 Jewish History (3.0)	
• RLST 3540 Christian Ethics (3.0)	
• RLST 3610 Introduction to Christian Theology (3.0)	
• SOC 3400 Sociology of Religion (3.0)	

Emphasis in Social Sciences 18 Credits

Emphasis Requirements: 18 Credits

Complete 3 credits from the following courses:	3.0
• ARCH 1100 Introduction to Archaeology (3.0)	
• ECON 1010 Economics as a Social Science (3.0)	
• ECON 1740 US Economic History (3.0)	
• GEOG 1300 Survey of World Geography (3.0)	
• GEOG 2100 Geography of the United States (3.0)	
• GEOG 3010 Economic Geography (3.0)	
• GEOG 3430 Political Geography (3.0)	
• GEOG 3630 Introduction to Geographic Information Systems (4.0)	
• GEOG 3800 Environmental History of the United States (3.0)	
Complete 3 credits from the following courses:	3.0
• POLS 1000 American Heritage (3.0)	
• POLS 1010 Introduction to Political Science (3.0)	
• POLS 1020 Political Ideologies (3.0)	
• POLS 1100 American National Government (3.0)	
• POLS 1440 Introduction to Middle East Politics (3.0)	
• POLS 2200 Introduction to Comparative Politics (3.0)	
• POLS 2100 Introduction to International Relations (3.0)	
• POLS 1800 Our Global Community (3.0)	
• POLS 2120 Political Parties (3.0)	
• POLS 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:	3.0
• HIST 1700 American Civilization (3.0)	
• HIST 1100 History of Civilization I (3.0)	
• HIST 1110 History of Civilization II (3.0)	
• HIST 2700 US History to 1877 (3.0)	
• HIST 2710 US History since 1877 (3.0)	
Complete an additional 9 credits from any GEOG, HIST, or POLS course 3000 or higher (see advisor).	9.0

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
Complete 9 credits from the following:	9.0
• Three (3) credits must be upper division (3000 and 4000), six (6) credits may be upper or lower division (1000 or above). Choose from SOC.	

Footnotes:

- ** ANTH/PSY/SOC 1010 are introductory courses and pre-requisites which may not be used in the 18 hours required for these Integrated Studies Emphases.
- * If students take MGMT 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 SOWK 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 3040 Introduction to Literary Genres in Spanish (3.0) *	
or SPAN 3050 Advanced Spanish (3.0) *	
• 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--Spanish America (3.0)	

- SPAN 3610 Spanish Peninsular Literature to 800 (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 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

• 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 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 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:

- IS, Integrated Studies

Internships and Cooperative Education

Utah Valley State College 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

Most academic departments in the college have integrated Internship or Cooperative Educational experience into their curriculum either as a required component or as an elective. Generally these courses are designated as 281R (lower division) or 481R (upper division). Some departments require an associated co-requisite.

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 department/school Internship or Cooperative Education Coordinator. 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 (CSS).

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 according to the following formula:

Credit Hours	Minimum Hours of Work
1	75
2	150
3	225
4	300
5	375
6	450
7	525
8	600

Grading for Internship or Cooperative Education courses is CR (credit granted) or NC (credit not granted). The maximum number of Internship or Cooperative Education credits that may be applied toward a certificate is eight; a diploma is 14; an associate or bachelor degree is 16 credit hours. In departments where substitutions are clearly defined, they will be listed in the catalog. In other departments, substitution decisions will be based on a student's particular Internship or Cooperative Work experience and will be negotiated among the student, the Coordinator, and the Department Chair.

Center for Career Services and Student Employment

The College 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

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)
Del K. Shumway (Spanish)

Associate Professor

Bryan Eldredge (ASL)
Douglas Jensen (Spanish)
Minnie Mae Wilding-Diaz (ASL)

Assistant Professor

Gregory Briscoe (Spanish)
Debora Ferreira (Portuguese)
Gloria Gilmore (French)
Baldomero Lago (Spanish)

Lecturer

Laura Johnston (German)
Sara Ulloa (Spanish)

Visiting Assistant Professors

Dale Boom
Cynthia Plue (ASL & Deaf Studies)

Faculty Advisors: Gregory Briscoe, Bryan Eldredge, Debora Ferreira, Douglas Jensen, Liliana Riboldi, Del Shumway, Minnie Mae Wilding-Diaz, Sara Ulloa.

Language Advisor: Laura

Bailey
Office: LA 013
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Supervisor, Office/Lab: Carol Morgan

Office: LA 003a
Telephone: 801-863-7232

School of Humanities, Arts, and Social Sciences

Dean: William W. Cobb, Jr.
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

UVSC offers beginning (1000 level) and intermediate (2000 level) courses in ASL, Chinese, French, German, Japanese, Portuguese, Russian, and Spanish, as well as upper division (3000 level) language classes in all but Chinese. UVSC courses support inter-College programs/degrees that require languages (e.g., Associate in Arts requires 10 hours of the same recognized foreign language) and transfer to other colleges and universities, therein either partially or completely fulfilling entrance or degree requirements in language.

Foreign language courses fulfill AA/AS Humanities electives and AAS Humanities requirements.

Foreign Language courses numbered 2020 apply to Humanities Distribution requirements.

Foreign Language courses fulfill language requirements for the BA degree.

BA in Spanish 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) 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 1700 American Civilization (3.0)
 - HIST 2700 US History to 1877 (3.0)
 - and HIST 2710 US History since 1877 (3.0)
 - POLS 1000 American Heritage (3.0)
 - POLS 1100 American National Government (3.0)
 - HIST 1740 US Economic History (3.0)

- Complete the following:
- PHIL 2050 Ethics and Values 3.0
 - HLTH 1100 Personal Health and Wellness 2.0
 - or PES 1097 Fitness for Life (2.0)

- Distribution Courses
- Humanities Distribution [non-language courses only] 3.0
 - Social/Behavioral Science 3.0
 - Fine Arts Distribution 3.0
 - Biology 3.0
 - Physical Science 3.0
 - Biology or Physical Science 3.0

Discipline Core Requirements: 15 Credits

- SPAN 3040 Introduction to Literary Genres in Spanish 3.0
- or SPAN 3050 Advanced Spanish (3.0)
- SPAN 3510 Culture and Civilization--Spain 3.0
- or SPAN 3520 Culture and Civilization--Spanish America (3.0)
- SPAN 3060 Oral Proficiency (1.0)
- or Oral Proficiency Interview (OPI)
- SPAN 4050 Special Topics in Grammar Usage and Style 3.0
- SPAN 4900 Capstone Seminar 3.0
- Any upper division Spanish literature course 3.0

Elective Requirements: 70 Credits

- Choose 15 credits from the following: 15.0
- SPAN 3200 Business Spanish (3.0)
 - SPAN 3220 Pronunciation Phonetics and Phonology (3.0)
 - SPAN 3510 Culture and Civilization--Spain (3.0)

- or SPAN 3520 Culture and Civilization--Spanish America (see Discipline Core Requirements above) (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)
- Choose 10 credits of upper division electives 10.0
- Any course 1000 level or higher * 45.0

Graduation Requirements:

- 1 120 credit hours (minimum of 40 upper division)
- 2 Minimum cumulative G.P.A. of 2.0, with no grade lower than a "C" for all core and SPAN elective requirements.
- 3 Completion of General Education requirements
- 4 Completion of Spanish major core and elective requirements
- 5 Residency hours--minimum of 30 credit hours through course attendance at UVSC, with at least 10 hours earned in the last 45 hours.

Students should frequently review their program with faculty or department advisor.

Footnotes:

- * For eligible students, the lower division courses 1010, 1020, 2010, and 2020, worth 18 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
- 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) 3.0
 - MATH 1050 College Algebra 4.0
- Choose one of the following: 3.0
- HIST 1700 American Civilization (3.0)
 - HIST 2700 US History to 1877 (3.0)
 - and HIST 2710 US History since 1877 (3.0)
 - POLS 1000 American Heritage (3.0)
 - POLS 1100 American National Government (3.0)
 - HIST 1740 US Economic History (3.0)

Complete the following:

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

Distribution Courses:

- Humanities Distribution [non-language courses only] 3.0
- Social/Behavioral Science 3.0
- Fine Arts Distribution 3.0
- Biology 3.0
- Physical Science 3.0
- Biology or Physical Science 3.0

Discipline Core Requirements: 48 Credits

- SPAN 3040 Introduction to Literary Genres in Spanish 3.0
- or SPAN 3050 Advanced Spanish (3.0)
- SPAN 3510 Culture and Civilization--Spain 3.0
- or SPAN 3520 Culture and Civilization--Spanish America (3.0)
- SPAN 3060 Oral Proficiency (1.0)
- or Oral Proficiency Interview (OPI)
- SPAN 4050 Special Topics in Grammar Usage and Style 3.0
- SPAN 4900 Capstone Seminar 3.0
- LANG 4200 Methods of Teaching a Foreign Language 3.0

Education Courses:

- EDSC 2540 Development of the Adolescent Student 2.0
- EDSP 3400 Exceptional Students 2.0
- EDSC 3000 Educational Psychology 3.0
- EDSC 3050 Foundations of American Education 2.0
- EDSC 3250 Instructional Media 2.0
- EDSC 4200 Classroom Management I 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 4.0
- EDSC 4850 Student Teaching--Secondary (4.0) 8.0
- 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 Meet residency and maximum years in program requirements and any other requirements stated in the College Catalog or established by the department.

NOTES:

- Students should frequently review their program with faculty or department advisor.
- Any grade below a C (2.0) in a Spanish core or elective course will not be accepted toward the major. Students must maintain an overall GPA of 2.75 or higher and meet all other graduation requirements stipulated in the college catalog. Post-BA/BS students must take 30 hours of education courses, fulfill the Math 1050 requirement, and meet all stipulated deadlines.

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

• HIST 1740 US Economic History (3.0)

Complete the following:

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

Distribution Courses

- Humanities Distribution 3.0
- ANTH 1010 Social/Cultural Anthropology 3.0
- Fine Arts Distribution 3.0
- Biology 3.0
- Physical Science 3.0
- Biology or Physical Science 3.0

Discipline Core Requirements: 31 Credits

- ASL 2040 ASL Numbers * 1.0
- ASL 3050 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 4410 ASL Linguistics 3.0
- Any other 4000-level class with an ASL prefix. 3.0

Complete at least 6 credits from the following courses: 6.0

- ANTH 1070 Multicultural Societies (3.0)
- SOC 1010 Introduction to Sociology (3.0)
- SOC 3000 Contemporary Social Theory (3.0)
- SOC 3200 Race and Minority Relations (3.0)
- SOC 3560 Sociology of Deviance (3.0)
- SOC 3700 Social Inequality (3.0)
- SOC 4400 Social Change (3.0)
- EDEC 3300 Multicultural Understanding (2.0)
- ANTH 3500 Discourse Semiotics and Representation (3.0)

- ANTH 360R People and Cultures of the World (3.0)

Emphasis

Complete one of the following:

- General Deaf Studies 57.0
- Interpreting 57.0

Graduation Requirements:

- 1 123 credit hours (minimum of 40 upper division)
- 2 Minimum cumulative G.P.A. of 2.0, with no grade lower than a "C" for all core and ASL elective requirements.
- 3 Completion of General Education requirements

- 4 Completion of Deaf Studies major core and elective requirements
- 5 Residency hours--minimum of 30 credit hours through course attendance at UVSC, with at least 10 hours earned in the last 45 hours.

Note: Students should frequently review their program with faculty or department advisor.

Footnotes:

* Requires ASL skills equivalent to those expected at the completion of ASL 1020. See advisor for more information.

** Requires ASL skills equivalent to those expected at the completion of ASL 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 3800 ASL Deaf Culture Studies 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

DEAF STUDIES ELECTIVES 18.0

Complete 18 credits from among the following:

- LANG 481R Language Internship (This is a variable credit course. No more than 5 credits can be applied as elective requirements. Additional credits can be applied as general electives.) (1.0)
- Any 3000- or 4000-level ASL & Deaf Studies courses that are not part of the core and are not emphasis requirements.

CULTURE ELECTIVES 3.0

Complete at least 3 credits from the following courses:

- ANTH 1070 Multicultural Societies (3.0)
- SOC 1010 Introduction to Sociology (3.0)
- SOC 3000 Contemporary Social Theory (3.0)
- SOC 3200 Race and Minority Relations (3.0)
- SOC 3560 Sociology of Deviance (3.0)
- SOC 3700 Social Inequality (3.0)
- SOC 4400 Social Change (3.0)
- EDEC 3300 Multicultural Understanding (2.0)
- ANTH 3500 Discourse Semiotics and Representation (3.0)
- 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 4370 Ethics for Interpreters 3.0
- LANG 481R Language Internship (1.0) 2.0

Complete 18 credits from the following: 18.0

- ASL 3340 Interpreting II--Advanced Techniques (3.0)
- ASL 3380 Transliteration Transliteration (3.0)
- ASL 3320 Physiology of Interpreting (3.0)
- ASL 3370 Sign to Voice Interpreting (3.0)
- ASL 3390 Professional Issues in Interpreting (3.0)
- ASL 4330 Visual Linguistic Analysis for Interpreters (3.0)
- ASL 4360 Legal Interpreting (3.0)
- ASL 439R Special Topics in Interpreting (3.0)

Emphasis Elective Requirements: 34 Credits

Choose electives (totaling at least 34 credits) from the following courses. Complete two classes from each set (at least one upper-division course encouraged).

SELF AND SPATIAL AWARENESS SET

- THEA 1113 Voice and Diction (3.0)
- COMM 1020 Public Speaking (3.0)
- COMM 1050 Introduction to Speech Communication (3.0)
- DANC 1010 Dance as an Art Form (3.0)
- HUM 1010 Humanities Through the Arts (3.0)
- HUM 3800 Introduction to Aesthetics (3.0)

ETHICS SET

- PHIL 1000 Introduction to Philosophy (3.0)
- PHIL 3520 Bioethics (3.0)
- PHIL 3200 Metaphysics (3.0)
- PHIL 3300 Epistemology (3.0)
- PHIL 3510 Business and Professional Ethics (3.0)
- PHIL 3700 Social and Political Philosophy (3.0)

SPECIAL INTEREST SET: LAW

- LEGL 1010 Survey of Law (3.0)

- LEGL 1110 Civil Litigation and Preparation (4.0)
- LEGL 290R Law Society (1.0)
- CJ 1300 Introduction to Corrections Process (3.0)

SPECIAL INTEREST SET: COMMUNITY

- INFO 1000 Computer Programming Concepts (3.0)
- MGMT 1010 Introduction to Business (3.0)
- PHYS 1010 Elementary Physics (3.0)
- DGM 1210 Digital Media Essentials II (4.0)
- MGMT 1200 Business English (3.0)
- MGMT 2200 Business Communications (3.0)

SPECIAL INTEREST SET: EDUCATION

- CHEM 1010 Introduction to Chemistry (3.0)
- MATH 1100 Introduction to Calculus (4.0)
- EDSC 3050 Foundations of American Education (2.0)

- EDSP 3400 Exceptional Students (2.0)
- SOC 3430 Sociology of Education (3.0)
- PHIL 4120 Philosophy of Education (3.0)

SPECIAL INTEREST SET: MEDICAL

- ZOOL 1090 Introduction to Human Anatomy and Physiology (3.0)
- ZOOL 2320 Human Anatomy (4.0)
- ZOOL 2420 Human Physiology (4.0)

BA in ASL and

Deaf Studies Education 123 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
- 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 (3.0)

Choose 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)

• HIST 1740 US Economic History (3.0)

Complete the following:

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

Distribution Courses:

- Humanities Distribution 3.0
- Social/Behavioral Science 3.0
- Fine Arts Distribution 3.0
- Biology 3.0
- Physical Science 3.0
- Biology or Physical Science 3.0

Discipline Core Requirements: 69 Credits

- ASL 3050 Advanced American Sign Language * 3.0

• ASL 3310 Interpreting I 3.0

or ASL 4410 ASL Linguistics (3.0)

• ASL 3510 Deaf Culture to 1817 3.0

or ASL 3520 Deaf Culture 1817 to 1970 (3.0)

• ASL 3530 Deaf Culture from 1970 3.0

• LANG 4200 Methods of Teaching a Foreign Language 3.0

• ASL 3610 ASL Literature 3.0

• Any other 3000+ class with an ASL or LANG prefix. 21.0

Education Courses:

- EDSC 3000 Educational Psychology 3.0
- EDSC 2540 Development of the Adolescent Student 2.0
- EDSP 3400 Exceptional Students 2.0
- 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 3.0
- EDSC 4450 Multicultural Instruction/ESL 2.0
- EDSC 4850 Student Teaching--Secondary (4.0) 8.0
- EDSC 4550 Secondary Curriculum Instruction and Assessment 4.0

Elective Requirements: 18 Credits

Languages

- Complete 18 credits of any courses 1000-level or higher. 18.0

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, ASL & Deaf Studies core, and elective requirements.
- 4 Meet residency and maximum years in program requirements and any other requirements stated in the College Catalog or established by the department.

NOTES:

- Students should frequently review their program with faculty or department advisor.
- Any grade below a C (2.0) in an ASL & Deaf Studies core or elective course will not be accepted toward the major. Students must maintain an overall GPA of 2.75 or higher and meet all other graduation requirements stipulated in the college catalog. Post-BA/BS students must take 30 hours of education courses, fulfill the Math 1050 requirement, and meet all stipulated deadlines.

Footnotes:

- * Requires ASL skills equivalent to those expected at the completion of ASL 2020. See advisor for more information.

Minor in Spanish 18 CREDITS

Matriculation Requirements:

- 1 Complete ENGL 2010 and 30 hours of college-level courses other than Spanish with a minimum GPA of 2.0
- 2 Complete lower division Spanish courses (1010, 1020, 2010, and 2020) or receive the equivalent through experiential credit (does not apply to native speakers).
- 3 Admitted to a bachelor degree program at UVSC.

Discipline Core Requirements: 18 Credits

- SPAN 3040 Introduction to Literary Genres in Spanish (3.0)
- or SPAN 3050 Advanced Spanish 3.0
- SPAN 3510 Culture and Civilization--Spain (3.0)
- or SPAN 3520 Culture and Civilization--Spanish America 3.0
- SPAN 4050 Special Topics in Grammar Usage and Style 3.0

Complete 9 credits from the following: 9.0

- 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--Spanish 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 this catalog for complete degree requirement listings.)

Emphasis in

American Sign Language 18 Credits

Emphasis Requirements: 6 Credits

Prerequisites (see advisor)

- ASL 1010 Beginning American Sign Language I (5.0)
- ASL 1020 Beginning American Sign Language II (5.0)
- ASL 2010 Intermediate American Sign Language I (5.0)
- ASL 2020 Intermediate American Sign Language II (3.0)

Complete the following:

- ASL 3050 Advanced American Sign Language (3.0)
- ASL 3530 Deaf Culture from 1970 (3.0) 3.0

Elective Requirements: 12 Credits

- Complete 12 credits from any 3000 or 4000 level ASL or LANG courses not already taken. 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 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)
- FREN 3200 Business French (3.0)
- FREN 3510 Culture and Civilization to 1700 (3.0)
- FREN 3520 Culture and Civilization from 1700 (3.0)
- FREN 3610 French Literature to 1700 (3.0)
- FREN 3620 French Literature from 1700 (3.0)
- FREN 4200 Advanced Business French (3.0)

Footnotes:

- * FREN 3040 or 3050 is the prerequisite to all higher-numbered courses listed in Discipline Core Requirements.

BA/BS in Integrated Studies 123 CREDITS

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

Emphasis in 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 3040 Introduction to Literary Genres in Spanish (3.0) *
- or SPAN 3050 Advanced Spanish (3.0) *
- 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--Spanish America (3.0)
- SPAN 3610 Spanish Peninsular Literature to 800 (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 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.

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

- ASL, American Sign Language
- CHIN, Chinese
- FREN, French
- GER, German
- JPNS Japanese
- LANG, Languages
- PORT, Portuguese
- RUS, Russian

- SPAN, Spanish

Legal Studies

Department Chair: Curtis Fillmore

Office: WB 243
Telephone: 801-863- 8857

Faculty:

Professor

Ellen Hall Loveland
Hugh J. Rode

Associate Professor

W. Brent Bullock
Curtis D. Fillmore
Jill Jaspersen

Assistant Professor

Stott Harston
Carolyn Howard
Sandy McGunigall-Smith
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Director of Forensic Science: Gary Naisbitt
Office: WB 247
Telephone: 801-863-8489

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, Nebeker & 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, UVSC; Cameron Martin, Ph.D., Assistant to the President, UVSC School Administrator; Hunt Willoughby, Mayor, Alpine City, Curtis Fillmore, Legal Studies Program Chair, UVSC; Sharon Hassan, Student.

School of Business

Dean: Stanley Earl Jenne, Ph.D.
Office: WB 128b
Telephone: 801-863-8239

Associate Dean: Janice Gygi
Office: WB 219
Telephone: 801-863-8863

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.

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.

The UVSC Legal Studies Department has the only paralegal training program in Utah approved by the American Bar Association. The paralegal minor does not prepare students for a career as a paralegal. The minor is not approved by the American Bar Association

PROGRAMS

Students in Legal Studies may receive certification in the Utah Law Enforcement Academy; an Associate in Science Degree in Criminal Justice or Paralegal Studies; a Bachelor of Science Degree in Criminal Justice or Paralegal Studies 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 Legal Studies advisor.

Cooperative Education

Cooperative education or an internship is required for paralegal students. A total of eight credits may be applied toward graduation.

Department 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.

Law Enforcement Academy

Director: Steve DeMille
Office: WB 254
Telephone: 801-863-8062
E-mail: demillst@uvsc.edu

Utah Valley State College 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).

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:		3.0
• MATH 1030	Quantitative Reasoning (3.0)	
• MATH 1040	Introduction to Statistics (3.0)	
• MATH 1050	College Algebra (4.0)	
Complete one of the following:		3.0
• HIST 1700	American Civilization (3.0)	
• HIST 2700	US History to 1877 (3.0)	
and HIST 2710	US History since 1877 (3.0)	
• HIST 1740	US Economic History (3.0)	
• POLS 1000	American Heritage (3.0)	
• POLS 1100	American National Government (3.0)	
Complete the following:		
• 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:		15 Credits
• CJ 1010	Introduction to Criminal Justice	3.0
• CJ 1340	Criminal Investigations	3.0
• CJ 1350	Introduction to Forensic Science	3.0
• CJ 1330	Criminal Law	3.0
• CJ 2350	Laws of Evidence	3.0
Elective Requirements:		10 Credits
• FOR AA DEGREE: Must be Foreign Language		10.0

Legal Studies

or FOR AS DEGREE: Electives may consist of any Criminal Justice (CJ) or Paralegal (LEGL) course that is not part of the core requirements.

Graduation Requirements:

- 1 Completion of a minimum of 60 semester credits.
- 2 Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
- 3 Residency hours: Minimum of 20 credit hours through course attendance at UVSC
- 4 For the AA degree, completion of 10 credit hours of course work from one language.
- 5 Must have a grade of C- or higher in all core and elective requirements.

AS Pre Major

in Paralegal Studies 62 CREDITS

General Education Requirements: 35 Credits

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

Complete one of the following: 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
- or PES 1097 Fitness for Life (2.0)

Distribution Courses

- Biology 3.0
- Physical Science 3.0
- Additional Biology or Physical Science 3.0
- Humanities Distribution 3.0
- Fine Arts Distribution 3.0
- Social/Behavioral Science 3.0

Discipline Core Requirements: 21 Credits

- 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 2010 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 UVSC. 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 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: 3.0

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

Complete one of the following: 3.0

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

Complete the following:

- PHIL 2050 Ethics and Values 3.0
- HLTH 1100 Personal Health and Wellness 2.0

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 1300 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 4.0
- CJ 4160 Constitutional Rights and Responsibilities 3.0

or CJ 4200 Ethical Issues in Criminal Justice 3.0

• CJ 4250 Criminal Justice Career Strategies 1.0

• CJ 4700 Comparative Criminal Justice Systems 3.0

• CJ 4880 Qualitative Research Methods in Criminal Justice 3.0

• CJ 4990 Criminal Justice Senior Seminar 3.0

• DGM 2010 Business Computer Proficiency or Business Proficiency Exam * 3.0

Choose one of the three options below: 15.0

Law Enforcement Option

- CJ 1390 Police Field Operations (3.0)
- CJ 3020 Criminal Justice Management (3.0)
- CJ 3040 Community Policing (3.0)
- CJ 3390 Traffic Theory (3.0)

Electives (choose from upper-division CJ courses)

Corrections Option

- CJ 3020 Criminal Justice Management (3.0)
- CJ 3060 Corrections in the Community (3.0)
- CJ 3140 Corrections Law (3.0)
- CJ 3360 Prisons--Contemporary Issues and Dilemmas (3.0)

Electives (choose from upper-division CJ courses)

Criminal Law Option

• Upper-division LEGL courses

Elective Requirements: 18 Credits

- Complete any 1000 course or higher 17.0

Graduation Requirements:

- 1 Completion of a minimum of 120 or more semester credits with 40 semester credits from 3000- and 4000-level courses.
- 2 Overall grade point average of 2.0 (C) or above. Must have a grade of C- or higher in all core and elective requirements.
- 3 Residency hours: Minimum of 30 credit hours of School of Business courses through course attendance at UVSC, with at least 10 hours earned in the last 45 hours.
- 4 Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.

Footnotes:

- * Students will be required to complete the Business Computer Proficiency exam with a score of 80 percent or higher on each module or complete the DGM 2010 course or DGM 201A-D modules as necessary with a score of 80 percent or higher on each module.

BS in Forensic Science

121 CREDITS

General Education Requirements: 38 Credits

- ENGL 1010 Introduction to Writing 3.0
- ENGL 2020 Intermediate Writing--Science and Technology 3.0
- MATH 1050 College Algebra 4.0

Complete one of the following: 3.0

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

Complete the following:

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

Distribution Courses:

- BIOL 1010 General Biology 3.0
- CHEM 1210 Principles of Chemistry I 4.0
- CHEM 1220 Principles of Chemistry II 4.0
- COMM 1020 Public Speaking (Recommended for Humanities Distribution) 3.0

• ART 1050 Photography I (Recommended for Fine Arts Distribution) 3.0

• CJ 1010 Introduction to Criminal Justice 3.0

Discipline Core Requirements: 62 Credits

Forensic Science Foundational Courses:

- CJ 1330 Criminal Law 3.0
- CJ 1340 Criminal Investigations 3.0
- CJ 1350 Introduction to Forensic Science 3.0
- 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 I Lab 1.0
- MATH 1210 Calculus I 5.0
- MATH 2040 Principles of Statistics 4.0
- CJ 3500 Footwear Impression Evidence 3.0
- or 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 Techniques I 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: 12.0

- 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 3780 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 (3.0)
- CJ 440L Forensic Chemist Laboratory (1.0)
- CJ 443R Directed Research in Forensic Science (2.0)
- CJ 482R Internship (2.0)
- CHEM 3000 Analytical Chemistry (4.0)
- CHEM 3600 Biological Chemistry (3.0)
- CHEM 3605 Biochemistry Laboratory (1.0)
- CHEM 3700 Forensic 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)

Complete 9 credits of any courses 3000 or higher 9.0

Graduation Requirements:

- 1 Completion of a minimum of 121 or more semester credits.
- 2 Overall grade point average of 2.0 (C) or above (departments may require a higher GPA).
- 3 Residency hours: minimum of 30 credit hours through course attendance at UVSC, with at least 10 hours earned in the last 45 hours.
- 4 Completion of GE and specified departmental requirements.

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: 3.0

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

Complete one of the following: 3.0

- HIST 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 2010	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
• Any LEGL course (Pre-approved by Advisor; 6 credit hours must be upper-division courses; must be completed with a grade of "C+" or better)		
Elective Requirements:		19 Credits
• ELECTIVES (Pre-approved by Advisor; 9 credits must be upper division courses)		19.0
Graduation Requirements:		
1	Completion of a minimum of 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 School of Business courses through course attendance at UVSC, 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.	

Minor in Criminal Justice 24 CREDITS

Matriculation Requirements:		
1	Admitted to a bachelor degree program at UVSC.	
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	12.0
Graduation Requirements:		
1	Overall grade point average of 2.5 in all School of Business (CJ) courses and no grade lower than a C- in CJ specialty core and elective courses.	

Minor in Paralegal Studies 23 CREDITS

Matriculation Requirements:		
1	Admitted to a bachelor degree program at UVSC.	
Discipline Core Requirements:		14 Credits
• LEGL 1000	Law and the Paralegal	3.0
• LEGL 1220	Legal Research in the Library	3.0
• LEGL 2190	Legal Ethics	2.0
• LEGL 2300	Computerized Legal Research	3.0
• LEGL 3000	Business Law	3.0
Elective Requirements:		9 Credits
Choose 9 credits from the following:		
• LEGL 3150	Survey of Dispute Resolution (3.0)	
• LEGL 3320	Family Law (3.0)	
• LEGL 3530	Employment and Labor Law (3.0)	
• LEGL 3650	Torts and Personal Injury Law (3.0)	
• LEGL 4130	Bankruptcy and Collections (3.0)	
• LEGL 4150	Probates and Estates (3.0)	

• LEGL 4160	Contract Law (3.0)
Graduation Requirements:	
1	Overall grade point average of 2.5 in all School of Business (LEGL) courses and no grade lower than a C+ in LEGL 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
- LEGL, Legal Studies

Lineman Technology

Lineman Technology

Department of Construction Technologies

Department Chair: Steve Fordham

Office: GT 601
Telephone: 801-863-8167

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, Keyrite; Byron Howells, Riter Engineering; Ken White, Murray City.

School of Technology and Computing

Interim 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

Discipline Core Requirements: 54 Credits	
• ENGL 106A	Career Writing for Technology--A 2.0
• LINE 1110	Lineman DC Theory and Lab 4.0
• LINE 1120	Residential Wiring 2.0
• LINE 1130	Lineman Applied DC Math 3.0
• LINE 1140	Basic Skill Development and Safety 4.0
• LINE 1210	AC Theory and Transformer Applications 4.0
• LINE 1220	Commercial Wiring 2.0
• LINE 1230	Lineman Applied AC Math 3.0
• LINE 1240	Single/Three-Phase Lines and Safety 4.0
• LINE 2310	Powerline Technician and Safety Code I 4.0
• LINE 2320	Industrial Wiring 2.0
• LINE 2330	Single and Polyphase Metering 2.0
• LINE 2340	Three-Phase Lines and Safety 5.0
• LINE 2410	Powerline Technician and Safety Code II 4.0
• LINE 2430	Substation Equipment 4.0
• LINE 2440	High Voltage Substation and Safety 4.0
• Social/Behavioral Science	1.0

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

General Education Requirements: 16 Credits	
ENGLISH	2.0
• 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)
MATHEMATICS	2.0
• LINE 1130	Lineman Applied DC Math (3.0)*
• MAT 1010	Intermediate Algebra (4.0)
• Any higher Mathematics Course	
HUMANITIES/FINE ARTS/FOREIGN LANGUAGE	2.0
• PHIL 2050	Ethics and Values (highly recommended) (3.0)
• Any approved Humanities, Fine Arts, or Foreign Language Distribution Course	
SOCIAL AND BEHAVIORAL SCIENCE	2.0
• MGMT 3000	Organizational Behavior (3.0)
• Any approved Behavioral Science, Social, or Political Science Distribution Course	
BIOLOGY OR PHYSICAL SCIENCE	2.0
• EGDT 1810	Principles of Technology (2.0)
• Any approved Biology or Physical Science Distribution Course	
PHYSICAL EDUCATION/HEALTH/SAFETY OR ENVIRONMENT	1.0
• Any approved Physical Education, Health, Safety or Environment Course	
ADDITIONAL CREDITS FROM ANY OF THE ABOVE	5.0
Discipline Core Requirements: 48 Credits	
Complete the following:	
• LINE 1110	Lineman DC Theory and Lab 4.0
• LINE 1120	Residential Wiring 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 Polyphase Metering	2.0
• LINE 2340	Three-Phase Lines and Safety	5.0
• LINE 2410	Powerline Technician and Safety Code II	4.0
• LINE 2430	Substation Equipment	4.0
• LINE 2440	High Voltage Substation and Safety	4.0

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 UVSC.
- 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 124 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

Emphasis Requirements: 51 Credits	
• LINE 1110	Lineman DC Theory and Lab 4.0
• LINE 1120	Residential Wiring 2.0
• LINE 1130	Lineman Applied DC Math 3.0
• LINE 1140	Basic Skill Development and Safety 4.0
• LINE 1210	AC Theory and Transformer Applications 4.0
• LINE 1220	Commercial Wiring 2.0
• LINE 1230	Lineman Applied AC Math 3.0
• LINE 1240	Single/Three-Phase Lines and Safety 4.0
• LINE 2310	Powerline Technician and Safety Code I 4.0
• LINE 2320	Industrial Wiring 2.0
• LINE 2330	Single and Polyphase Metering 2.0
• LINE 2340	Three-Phase Lines and Safety 5.0
• LINE 2410	Powerline Technician and Safety Code II 4.0
• LINE 2430	Substation Equipment 4.0
• LINE 2440	High Voltage Substation and Safety 4.0

LINEMAN APPRENTICESHIP

The Lineman Apprentice courses are offered for Linemen 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

- CAW, Cabinetry & Architectural Woodworking
- FAC, Facilities Management
- LINE, Lineman Technology
- WELD, Welding Technology

Marketing and International Business

Marketing and International Business

Department Chair: Douglas G. Miller

Office: WB 203e
Telephone: 801-863-8859

Faculty:

Professor

Janice Gygi

Associate Professor

Deborah Baird
Eugene Seeley

Assistant Professor

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School of Business

Dean: Stanley Earl Jenne, Ph.D.

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Associate Dean: Janice Gygi

Office: WB 219
Telephone: 801-863-8863

Assistant Dean: Mikki O'Connor

Office: WB 129
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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 marketers. There is also a growing trend to use marketing in nonprofit organizations, such as colleges, libraries, and hospitals.

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) School of Business transfer degree is available for students planning to transfer to another college or university in Utah. (See the 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 123 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)
• 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
• Business Computer Proficiency Exam **	
or DGM 2010	Business Computer Proficiency 3.0
• MATH 1100	Introduction to Calculus 4.0
• MGMT 2200	Business Communications * 3.0
• ECON 2010	Microeconomics 3.0

• MGMT 2340	Business Statistics I 3.0
• MGMT 2390	Effective Business Presentations 3.0
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:

Complete one of the following:

• 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 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 UVSC, with at least 10 hours earned in the last 45 hours.
- 4 Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.

NOTE: Students will be limited to 15 hours of upper-division credit until MATRICULATION is completed.

Footnotes:

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

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. 15.0

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: 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

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Faculty:

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Associate Professor

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David Fearnley
Carolyn Hamilton
Scott Lewis
Jun Ling
Ray Sievers
Lynn Turnquist
Christine Walker

Assistant Professor

Slobodan Kojcinovic
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Yingxian Zhu

Lecturer

K. C. Lee

School of Science and Health

Dean: Sam Rushforth
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Telephone: 801-863-8980

Associate Dean: Bill Evenson
Office: PS 201e
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Assistant Dean: Lori Barber
Office: BA 205c
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Assistant Dean: Louise Illes
Office: PS 201d
Telephone: 801-863-6040

Assistant Dean: David Jordan
Office: PS 201c
Telephone: 801-863-7160

The UVSC mathematics programs are designed to provide a strong foundation in mathematics that will support our 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 before entering MAT 1010. 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. Each new technological breakthrough reveals exciting new applications of mathematics, giving rise to an ever-increasing array of employment opportunities for mathematicians.

PROGRAMS

AA/AS Pre Major in Mathematics

63 CREDITS

General Education Requirements: 35 Credits

- ENGL 1010 Introduction to Writing 3.0
- ENGL 2010 Intermediate Writing--Humanities/Social Sciences 3.0
- or ENGL 2020 Intermediate Writing--Science and Technology (3.0)

Complete one of the following: 3.0

- MATH 1030 Quantitative Reasoning (recommended for Humanities or Arts majors) (3.0)
- MATH 1040 Introduction to Statistics (recommended for Social Science majors) (3.0)
- MATH 1050 College Algebra (recommended for Business, Education, Science, and Health Professions majors) (4.0)

Complete one of the following: 3.0

- HIST 2700 US History to 1877 (3.0)
- and HIST 2710 US History since 1877 (3.0)
- HIST 1700 American Civilization (3.0)
- HIST 1740 US Economic History (3.0)
- POLS 1000 American Heritage (3.0)

- POLS 1100 American National Government (3.0)
- Complete the following:
- 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

- MATH 1210 Calculus I 5.0
- MATH 1220 Calculus II 5.0

Complete 6 credits from the following: 6.0

- MATH 2210 Calculus III (3.0)
- MATH 2040 Principles of Statistics (4.0)
- MATH 2270 Linear Algebra (3.0)
- MATH 2280 Ordinary Differential Equations (3.0)
- MATH 3400 Partial Differential Equations (3.0)

Elective Requirements: 12 Credits

- FOR AS DEGREE: Any course 1000 or higher (Math 1060 suggested) 12.0
- FOR AA DEGREE: Same Foreign Language 10.0
- and FOR AA DEGREE: Any course 1000 or higher (MATH 1060 suggested) 2.0

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 UVSC
- 4 Completion of GE and specified departmental requirements
- 5 For the AA degree, completion of 10 credit hours of course work from one language.

BS in Mathematics 125 CREDITS

Matriculation 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
- or ENGL 2020 Intermediate Writing--Science and Technology (3.0)
- MATH 1050 College Algebra (recommended for Business, Education, Science, and Health Professions majors) 4.0

Complete one of the following: 3.0

- HIST 2700 US History to 1877 (3.0)
- 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
 - 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
 - Humanities Distribution 3.0
 - Fine Arts Distribution 3.0
 - Social/Behavioral Science 3.0

Discipline Core Requirements: 46 Credits

- Complete the following:
- MATH 1210 Calculus I 5.0
 - MATH 1220 Calculus II 5.0
 - MATH 2210 Calculus III 3.0
 - MATH 2270 Linear Algebra 3.0
 - MATH 2280 Ordinary Differential Equations 3.0
 - MATH 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)

Mathematics

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 I (3.0)	
• MATH 4320 Introduction to Modern Algebra II (3.0)	
• MATH 4330 Theory of Linear Algebra (3.0)	
• MATH 4340 Introduction to Number Theory (3.0)	
• MATH 4500 Introduction to Topology (3.0)	
• MATH 4610 Introduction to Numerical Analysis I (3.0)	
• MATH 4620 Introduction to Numerical Analysis II (3.0)	
• MATH 490R Topics in Mathematics (2.0)	

Elective Requirements: 39 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, 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 UVSC, with at least 10 hours earned in the last 45 hours.
- 4 Completion of GE and specified departmental requirements.

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	3.0
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 1700 American Civilization (3.0)	
• HIST 1740 US Economic History (3.0)	
• POLS 1000 American Heritage (3.0)	
• POLS 1100 American National Government (3.0)	

Complete the following:	
• PHIL 2050 Ethics and Values	3.0
• HLTH 1100 Personal Health and Wellness	2.0
or PES 1097 Fitness for Life (2.0)	

Distribution Courses

• Biology	3.0
• PHYS 2210 Physics for Scientists and Engineers I	4.0
• PHYS 2215 Physics for Scientists and Engineers I Lab	1.0
• 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	3.0
• MATH 3020 Computer-Based Mathematics for Secondary School Mathematics Teachers	3.0
• 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 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
• EDSC 4450 Multicultural Instruction/ESL	2.0
• EDSC 4550 Secondary Curriculum Instruction and Assessment	4.0
• EDSC 4850 Student Teaching--Secondary	8.0
• EDSP 3400 Exceptional Students	2.0
• Complete an approved minor	16.0

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 UVSC, 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.

Minor in Mathematics 25 CREDITS

Matriculation Requirements:

- 1 Admitted to a bachelor degree program at UVSC.

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.	6.0

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).

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

- MATH, Mathematics

Mathematics— Developmental

Department of Developmental Mathematics

Department Chair: Carole Sullivan

Office: LA 217b
Telephone: 801-863-7318

Assistant Chair: Keith White
Office: LA 217c
Telephone: 801-863-7261

Evening Coordinator: Clayton Brown
Office: LA 221n
Telephone: 801-863-6446

Faculty:

Professor

Kenneth Chipman
Hazel J. McKenna
Barry M. Roth

Associate Professor

Carole Sullivan
Darren Wiberg

Assistant Professor

Ellen Backus
Clayton Brown
Laurel Howard
Ofa Ioane
Benjamin Moulton
Eden Thompson

Instructor

Max Aeschbacher
Jane Loftus
Keith White

Lecturer

Pat Nelson
Melinda Nevels

Department Chair Administrative
Assistant: Sharon Larson
Office: LA 217n
Telephone: 801-863-6570

School of General Academics

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: Lisa Lambert
Office: LA 210d
Telephone: 801-863-8741

Administrative Assistant: Frankie
Jensen
Office: LA 210
Telephone: 801-863-6312

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: 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:

- MAT, Mathematics, Developmental

Music

Department Chair: Bryce Rytting

Department Office: GT 336
Department Telephone: 801-863-6480

Faculty:

Professor

Wayne E. Erickson
G. Larry Johnson

Associate Professor

Bryce Rytting

Assistant Professor

Donna Fairbanks
David Fullmer
Dyanne Riley

School of Humanities, Arts, & Social Sciences

Dean: William W. Cobb, Jr.
Office: LA 209d
Telephone: 801-863-7435

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 UVSC 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 2010 Intermediate Writing--Humanities/Social Sciences 3.0
- or ENGL 2020 Intermediate Writing--Science and Technology (3.0)
- Complete one of the following: 3.0
- MATH 1030 Quantitative Reasoning (recommended for Humanities or Arts majors) (3.0)
- MATH 1040 Introduction to Statistics (recommended for Social Science majors) (3.0)
- MATH 1050 College Algebra (recommended for Business, Education, Science, and Health Professions majors) (4.0)
- Complete one of the following: 3.0
- HIST 2700 US History to 1877 (3.0)
- and HIST 2710 US History since 1877 (3.0)
- HIST 1700 American Civilization (3.0)
- HIST 1740 US Economic History (3.0)
- POLS 1000 American Heritage (3.0)
- POLS 1100 American National Government (3.0)
- Complete the following: 3.0
- PHIL 2050 Ethics and Values (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: 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 I 2.0
- MUSC 1140 Aural Music Skills II 2.0
- 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 120R A Cappella Choir* (1.0)
- MUSC 124R UVSC Concert Choir* (1.0)
- MUSC 130R Symphonic Band* (1.0)
- MUSC 170R Symphony Orchestra* (1.0)
- Complete 4 credits from the following: 4.0
- MUSC 150R Individual Piano Instruction* (1.0)
- MUSC 151R Individual Voice Instruction* (1.0)
- MUSC 152R Individual Woodwind Instruction* (1.0) *
- MUSC 153R Individual Brass Instruction* (1.0)
- MUSC 154R Individual String Instruction* (1.0)
- MUSC 155R Individual Percussion Instruction* (1.0)
- MUSC 156R Individual Guitar Instruction* (1.0)
- Complete 1 credit from the following: 1.0
- MUSC 1400 Introduction to Music Technology (2.0)
- MUSC 1150 Group Piano I (2.0)
- MUSC 1640 Group Voice (1.0)
- MUSC 1650 Group Strings (1.0)
- MUSC 1660 Group Clarinet (1.0)
- MUSC 1680 Group Trumpet (1.0)
- MUSC 1800 Introduction to Music Education (1.0)
- MUSC 2400 Recording Studio I (2.0)

Graduation Requirements:

- 1 Completion of a minimum of 62 semester credits.
- 2 Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
- 3 Residency hours -- minimum of 20 credit hours through course attendance at UVSC.
- 4 Completion of GE and specified departmental requirements.

Footnotes:

- * May be repeated four (4) times toward graduation.

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)
- 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 (Fulfilled by completing Foreign Language Course 2020)
- 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. 11.0

Performance Courses

Complete 4 credits from the following (lessons must be taken on major instrument or voice):

- MUSC 150R Individual Piano Instruction (1.0)
- MUSC 151R Individual Voice Instruction (1.0)
- MUSC 152R Individual Woodwind Instruction (1.0)
- MUSC 153R Individual Brass Instruction (1.0)
- MUSC 154R Individual String Instruction (1.0)
- MUSC 155R Individual Percussion Instruction (1.0)
- MUSC 156R Individual Guitar Instruction (1.0)
- Complete 4 credits from the following: 4.0
- MUSC 350R Advanced Individual Piano Instruction (1.0)
- MUSC 351R Advanced Individual Voice Instruction (1.0)
- MUSC 352R Advanced Individual Woodwind Instruction (1.0)
- MUSC 353R Advanced Individual Brass Instruction (1.0)
- MUSC 354R Advanced Individual String Instruction (1.0)
- MUSC 355R Advanced Individual Percussion Instruction (1.0)
- MUSC 356R Advanced Individual Guitar Instruction (1.0)

Complete the following:

- MUSC 1150 Group Piano I (with a grade of "B" or higher) 2.0
- and MUSC 1160 Group Piano II (with a grade of "B" or higher) 2.0
- or Departmental Keyboard Proficiency exam (an additional 4 credits of electives may be required)

Ensembles

Complete 8 credits from the following: 8.0

- MUSC 320R Advanced A Cappella Choir (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. (Departments may require a higher GPA.)
- 3 Residency hours- minimum of 30 credit hours through course attendance at UVSC, 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.

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)
- 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: 3.0
- PHIL 2050 Ethics and Values

• HLTH 1100 Personal Health and Wellness (2.0)	
or PES 1097 Fitness for Life	2.0
Distribution Courses	
• Biology	3.0
• Physical Science	3.0
• Additional Biology or Physical Science	3.0
• Humanities Distribution	3.0
• Fine Arts Distribution	3.0
• Social/Behavioral Science	3.0
Discipline Core Requirements:	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 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.	11.0
Performance Courses	
Complete 4 credits from the following (lessons must be taken on major instrument or voice):	4.0
• MUSC 150R Individual Piano Instruction (1.0)	
• MUSC 151R Individual Voice Instruction (1.0)	
• MUSC 152R Individual Woodwind Instruction (1.0)	
• MUSC 153R Individual Brass Instruction (1.0)	
• MUSC 154R Individual String Instruction (1.0)	
• MUSC 155R Individual Percussion Instruction (1.0)	
• MUSC 156R Individual Guitar Instruction (1.0)	
Complete 4 credits from the following:	4.0
• MUSC 350R Advanced Individual Piano Instruction (1.0)	
• MUSC 351R Advanced Individual Voice Instruction (1.0)	
• MUSC 352R Advanced Individual Woodwind Instruction (1.0)	
• MUSC 353R Advanced Individual Brass Instruction (1.0)	
• MUSC 354R Advanced Individual String Instruction (1.0)	
• MUSC 355R Advanced Individual Percussion Instruction (1.0)	
• MUSC 356R Advanced Individual Guitar Instruction (1.0)	
Complete the following:	
• MUSC 1150 Group Piano I (with a grade of "B" or higher)	2.0
and MUSC 1160 Group Piano II (with a grade of "B" or higher)	2.0
or Departmental Keyboard Proficiency exam	
Ensembles	
Complete 8 credits from the following:	8.0
• MUSC 320R Advanced A Cappella Choir (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
• Complete any courses 1000 level or higher (at least 8 credits must be upper-division, see graduation requirements)	29.0
Graduation Requirements:	
1 Completion of a minimum of 120 semester credits, 40 credits must be upper-division.	
2 Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)	
3 Residency hours- minimum of 30 credit hours through course attendance at UVSC, with at least 10 hours in the last 45 hours.	
4 Completion of GE and specified departmental requirements, including a sophomore jury.	

BS in Music Education 126 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)	
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:	91 Credits
Music Skills Development 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 1400 Introduction to Music Technology	2.0
• MUSC 2110 Advanced Music Theory I	3.0
• MUSC 2120 Advanced Music Theory II	3.0
• MUSC 2350 Fundamentals of Conducting	2.0
• 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
• MUSC 4130 Scoring and Arranging	2.0
• MUSC 4600 Jazz Improvisation	1.0
Basic Music Education Courses	
• MUSC 1640 Group Voice	1.0
• MUSC 1650 Group Strings	1.0
• MUSC 1660 Group Clarinet	1.0
• MUSC 1680 Group Trumpet	1.0
• MUSC 1800 Introduction to Music Education	1.0
• MUSC 3620 Percussion Practicum	1.0
• MUSC 3640 String Practicum	1.0
• MUSC 3660 Woodwind Practicum	1.0
• MUSC 3680 Brass Practicum	1.0
Performance Skills Development Courses	
• Individual Musicianship Studies - Student must complete 4 credits selected from MUSC 150R-156R; student must complete 3 credits selected from MUSC 350R-356R; lessons must be taken on major instrument or voice.	7.0
• Performance Group Studies - Student must complete 4 credits selected from MUSC 120R, 124R, 130R, 170R; student must complete 3 credits selected from MUSC 320R, 330R, 370R.	7.0
• Student must pass the Departmental Keyboard Proficiency Examination or complete MUSC 1150 and MUSC 1160 with a grade of "B" or higher	
Secondary 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
• EDSP 3400 Exceptional Students	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	4.0
• EDSC 4850 Student Teaching--Secondary (4.0)	8.0
Complete one of the following Composite Emphases :	6.0
Composite Choral - String Emphasis (6 credits)	
• MUSC 4150 Advanced Choral Conducting (2.0)	
• MUSC 4220 Choral Literature and Methods (2.0)	
• MUSC 4370 Orchestra Literature and Methods (2.0)	
Composite Choral - Winds/Percussion Emphasis (7 credits)	
• MUSC 4150 Advanced Choral Conducting (2.0)	
• MUSC 4220 Choral Literature and Methods (2.0)	
• MUSC 4340 Marching Band Techniques (1.0)	
• MUSC 4360 Wind Band Literature and Methods (2.0)	
Composite Strings - Choral Emphasis (6 credits)	
• MUSC 3150 Advanced Instrumental Conducting (2.0)	
• MUSC 4370 Orchestra Literature and Methods (2.0)	
• MUSC 4220 Choral Literature and Methods (2.0)	
Composite Instrumental (7 credits)	
• MUSC 3150 Advanced Instrumental Conducting (2.0)	
• MUSC 4340 Marching Band Techniques (1.0)	
• MUSC 4360 Wind Band Literature and Methods (2.0)	

• MUSC 4370 Orchestra Literature and Methods (2.0)	
Composite Winds/Percussion - Choral Emphasis (7 credits)	
• MUSC 3150 Advanced Instrumental Conducting (2.0)	
• MUSC 4220 Choral Literature and Methods (2.0)	
• MUSC 4340 Marching Band Techniques (1.0)	
• MUSC 4360 Wind Band Literature and Methods (2.0)	

Graduation Requirements:

- 1 Completion of a minimum of 125 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 UVSC, with at least 10 hours in the last 45 hours.
- 4 Completion of GE and specified departmental requirements.

Minor in Music

18 CREDITS

Matriculation Requirements:

- 1 Admitted to a bachelor degree program at UVSC.

Discipline Core Requirements: 18 Credits

• MUSC 1010 Introduction to Music	3.0
• MUSC 1100 Fundamentals of Music	2.0
• MUSC 1110 Basic Music Theory I	3.0
• MUSC 1130 Aural Music Skills I	2.0

Performance Courses

Complete 4 credits from the following: 4.0

• MUSC 150R Individual Piano Instruction (1.0)	
• MUSC 151R Individual Voice Instruction (1.0)	
• MUSC 152R Individual Woodwind Instruction (1.0)	
• MUSC 153R Individual Brass Instruction (1.0)	
• MUSC 154R Individual String Instruction (1.0)	
• MUSC 155R Individual Percussion Instruction (1.0)	

• MUSC 156R Individual Guitar Instruction (1.0)	
• MUSC 350R Advanced Individual Piano Instruction (1.0)	

• MUSC 351R Advanced Individual Voice Instruction (1.0)	
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• MUSC 352R Advanced Individual Woodwind Instruction (1.0)	
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• MUSC 353R Advanced Individual Brass Instruction (1.0)	
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• MUSC 354R Advanced Individual String Instruction (1.0)	
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• MUSC 355R Advanced Individual Percussion Instruction (1.0)	
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• MUSC 356R Advanced Individual Guitar Instruction (1.0)	
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Performance Group Studies

Complete 4 credits from the following: 4.0

• MUSC 320R Advanced A Cappella Choir (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)	

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 1130 Aural Music Skills I (2.0)	
• MUSC 1120 Basic Music Theory II (3.0)	
• MUSC 1140 Aural Music Skills II (2.0)	
• MUSC 2350 Fundamentals of Conducting (2.0)	
• MUSC 1400 Introduction to Music Technology (2.0)	
• MUSC 2110 Advanced Music Theory I (3.0)	
• MUSC 2120 Advanced Music Theory II (3.0)	
• Individual Musicianship Studies: student must complete 4 credits selected from the following:	
• MUSC 150R Individual Piano Instruction (1.0)	
• MUSC 151R Individual Voice Instruction (1.0)	
• MUSC 152R Individual Woodwind Instruction (1.0)	
• MUSC 153R Individual Brass Instruction (1.0)	
• MUSC 154R Individual String Instruction (1.0)	
• MUSC 155R Individual Percussion Instruction (1.0)	
• MUSC 156R Individual Guitar Instruction (1.0)	
• Performance Group Studies: students must complete 4 credits selected from the following:	
• MUSC 120R A Cappella Choir (1.0)	

Music

- MUSC 124R UVSC Concert Choir (1.0)
 - MUSC 130R Symphonic Band (1.0)
 - MUSC 170R Symphony Orchestra (1.0)
- Complete the following:
- MUSC 2010 Music History and Literature I 3.0
 - MUSC 2020 Music History and Literature II 3.0
- Complete 3 credits from the following. (Each course may be repeated (3) times toward graduation): 3.0
- MUSC 350R Advanced Individual Piano Instruction (1.0)
 - MUSC 351R Advanced Individual Voice Instruction (1.0)
 - MUSC 352R Advanced Individual Woodwind Instruction (1.0)
 - MUSC 353R Advanced Individual Brass Instruction (1.0)
 - MUSC 354R Advanced Individual String Instruction (1.0)
 - MUSC 355R Advanced Individual Percussion Instruction (1.0)
 - MUSC 356R Advanced Individual Guitar Instruction (1.0)
- Complete 3 credits from the following. (Each course may be repeated (3) times toward graduation): 3.0
- MUSC 320R Advanced A Cappella Choir (1.0)
 - MUSC 330R Advanced Symphony Band (1.0)
 - MUSC 370R Advanced Symphony Orchestra (1.0)
- Complete at least 6 credits from the following (3 credits must be upper-division): 6.0
- MUSC 1800 Introduction to Music Education (1.0)
 - MUSC 3120 Form and Analysis (2.0)
 - MUSC 3150 Advanced Instrumental Conducting (2.0)
 - MUSC 4130 Scoring and Arranging (2.0)
 - MUSC 4150 Advanced Choral Conducting (2.0)
 - MUSC 4600 Jazz Improvisation (1.0)

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

- MUSC, Music

Nursing

Department Chair: Gary Measom

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Faculty:

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Gaya Carlton
Gretchen Cornell
Julie Musselman

Associate Professor

Lori Barber
Hsiu-Chin "Sunny" Chen
Marianne Craven
Suzette Farmer
Marie Hunter
David C. Keller
Gary Measom
Jacquie Stratton

Assistant Professor

Linda Kochniuk
Carol Lavender
Dianne McAdams-Jones
Troy Nelson
Susan Rasmussen
Mina Wayman

Instructor

Jenny Faulk

Staff:

Administrative Assistants:

Jason Hill
Victoria Martinez

Laboratory Faculty:

Susan Rasmussen

Advisory Committee: Helen Zsohar, University of Utah; Dallas Earnshaw, Utah State Hospital; Vicki McClellan, UVRMC; Sandi Ewell, Timpanogos Hospital; Lynn Flinders, Public Health Department; Lane Pederson, IHC; Cindy Walpole, UVRMC; Carrie Framptom, UVRMC; Wendy Parmley, UVRMC.

School of Science and Health

Dean: Sam Rushforth
Office: PS 201a
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Associate Dean: Bill Evenson
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Assistant Dean: Lori Barber
Office: BA 205c
Telephone: 801-863-8380

Assistant Dean: Louise Illes
Office: PS 201d
Telephone: 801-863-6040

Assistant Dean: David Jordan
Office: PS 201c
Telephone: 801-863-7160

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 UVSC 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. Completion of one program is required for admission to the next level. For admission to either level, applicants must apply for admission to UVSC 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 where English is a second language, TOEFL scores must 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 and all nursing courses. 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 UVSC's Nursing program does not guarantee eligibility to write the NCLEX-RN exam.

PROGRAMS

AS in Nursing

79 CREDITS

Matriculation Requirements:

- 1 Acceptance into 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, ENGL 2020, MATH 1050, NURS 1400, NUTR 2020, MICR 2060, PSY 1100, and ZOOL 2320 with a grade of "C" or better
- 4 Acceptance into Nursing program (see Advisor)

General Education Requirements: 36 Credits

- ENGL 1010 Introduction to Writing 3.0
- ENGL 2010 Intermediate Writing--Humanities/Social Sciences 3.0
- MATH 1050 College Algebra 4.0
- 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:
- 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: 43 Credits

- Complete the following:
- 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

Nursing

• NURS 3330	Nursing Care of Persons with Complex Disorders	4.0
• MICR 2060	Microbiology for Health Professions	4.0
• NUTR 1020	Foundations of Human Nutrition	3.0
• ZOOL 2420	Human Physiology	4.0

Graduation Requirements:

- 1 Completion of a minimum of 79 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 UVSC.
- 4 Completion of GE and specified departmental requirements.

BS in Nursing

121 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 2020, MICR 2060, PSY 1100, ZOOL 2320, and ZOOL 2420 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 2010 Intermediate Writing--Humanities/Social Sciences 3.0
- MATH 1050 College Algebra 4.0

Complete one of the following:

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

Complete the following:

- PHIL 2050 Ethics and Values 3.0

Distribution Courses

- BIOL 1010 Microbiology for Health Professions 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: 85 Credits

Complete the following:

- 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 3.0
- 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 3.0
- ZOOL 2420 Human Physiology 4.0
- ZOOL 4400 Pathophysiology 4.0

And a minimum of 4 credits from the following:

- NURS 481R Internship in Nursing (1.0)
- NURS 490R Special Topics in Nursing (1.0)
- NURS 495R Independent Study in Nursing (1.0)

RNs returning to complete BS in Nursing take ZOOL 4400, NURS 2300, and NURS 2310, then proceed to NURS 3400 and higher-numbered courses. NURS 2300 waived if student transcript shows a health assessment course passed with a "C" grade or better. NURS 2310 waived if transcript shows a pharmacology course passed with a "C" grade or better.

Graduation Requirements:

- 1 Completion of a minimum of 121 semester credits.
- 2 Overall grade point average of 2.0 (C) or above.
(Departments may require a higher GPA.)
- 3 Residency hours--minimum of 30 credit hours through course attendance at UVSC.
- 4 Completion of GE and specified departmental requirements.

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

- NURS, Nursing

Philosophy

Department of Philosophy and Humanities

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

Faculty:

Professor

Scott Abbott
Elaine Englehardt
Jeanille Gooch
Larry Harper
Laurie Ann Whitt

Associate Professor

Brian Birch
Jeffrey W. Bulger
Pierre Lamarche
Karen Mizell
David R. Keller
Christine Weigel

Assistant Professor

Giesenkirchen, Michaela
Michael Minch
Shannon Mussett
Dennis Potter
Michael Shaw

School of Humanities, Arts, and Social Sciences

Dean: William W. Cobb, Jr.
Office: LA 209d
Telephone: 801-863-7435

The faculty of the Philosophy department is strongly committed to the value of diverse views and approaches, both to the study of Philosophy and to higher education in general. We value both teaching and research, and believe that each enhances and informs the other.

Students in the Philosophy baccalaureate program have the opportunity to enroll in a broad and growing range of courses representing both the history of philosophy, and the central problems and issues of philosophical inquiry. The faculty is committed to exposing students to the history and central issues of both continental and analytic streams of contemporary philosophy. We believe that the study of philosophy is interesting, fun, challenging, and intrinsically rewarding, and that the creative, critical, and analytic skills that develop through philosophical training are of tremendous practical value both to everyday life, and to almost any vocation one can enter.

Many students majoring in philosophy take advantage of work study opportunities in the department, including assisting faculty

with their research. Advanced students may also have the opportunity to become a teaching assistant and lead discussion sections in philosophy classes.

A student may pursue a BA, BS, AA, AS, Minor or Integrated Studies emphasis in Philosophy. The following courses may also be used to fulfill humanities requirements for Associate in Science or Arts, and Associate in Applied Science degrees. In addition to the General Education requirements, students fulfill the Optional Requirements portion of the AA/AS degree with a Philosophy pre-major by completing 28 additional credits as outlined below.

PROGRAMS

AA Pre Major in Philosophy

61 Credits

General Education Requirements: 35 Credits

- ENGL 1010 Introduction to Writing 3.0
- ENGL 2010 Intermediate Writing--Humanities/ Social Sciences 3.0
- or ENGL 2020 Intermediate Writing--Science and Technology (3.0)

Complete one of the following: 3.0

- MATH 1030 Quantitative Reasoning (recommended for Humanities or Arts majors) (3.0)
- MATH 1040 Introduction to Statistics (recommended for Social Science majors) (3.0)
- MATH 1050 College Algebra (recommended for Business, Education, Science, and Health Professions majors) (4.0)

Complete one of the following: 3.0

- HIST 2700 US History to 1877 (3.0)
- and HIST 2710 US History since 1877 (3.0)
- ECON 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 Direction 3.0
- Social/Behavioral Science 3.0

Discipline Core Requirements: 16 Credits

Complete the following:

- PHIL 1000 Introduction to Philosophy 3.0
- PHIL 120R Philosophy Forum 1.0
- PHIL 1250 Logical Thinking and Philosophical Writing 3.0

- PHIL 1610 Introduction to Western Religions 3.0
- or PHIL 1620 Introduction to Eastern Religions (3.0)

- PHIL 2110 Ancient Philosophy 3.0
- PHIL 2150 Early Modern Philosophy 3.0

Elective Requirements: 10 Credits

- 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. (Departments may require a higher GPA.)
- 3 Residency hours-- minimum of 20 credit hours through course attendance at UVSC.
- 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

60 Credits

General Education Requirements: 35 Credits

- ENGL 1010 Introduction to Writing 3.0

Philosophy

- ENGL 2010 Intermediate Writing--Humanities/ Social Sciences 3.0
- or ENGL 2020 Intermediate Writing--Science and Technology (3.0)

Complete one of the following: 3.0

- MATH 1030 Quantitative Reasoning (recommended for Humanities or Arts majors) (3.0)
- MATH 1040 Introduction to Statistics (recommended for Social Science majors) (3.0)
- MATH 1050 College Algebra (recommended for Business, Education, Science, and Health Professions majors) (4.0)

Complete one of the following: 3.0

- HIST 2700 US History to 1877 (3.0)
- and HIST 2710 US History since 1877 (3.0)
- HIST 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 Direction 3.0
- Social/Behavioral Science 3.0

Discipline Core Requirements: 16 Credits

Complete the following:

- PHIL 1000 Introduction to Philosophy 3.0
- PHIL 120R Philosophy Forum 1.0
- PHIL 1250 Logical Thinking and Philosophical Writing 3.0

- PHIL 1610 Introduction to Western Religions 3.0
- or PHIL 1620 Introduction to Eastern Religions (3.0)

- PHIL 2110 Ancient Philosophy 3.0
- PHIL 2150 Early Modern Philosophy 3.0

Elective Requirements: 9 Credits

- 1000 level or higher 9.0

Graduation Requirements:

- 1 Completion of a minimum of 60 semester credits.
- 2 Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
- 3 Residency hours-- minimum of 20 credit hours through course attendance at UVSC.
- 4 Completion of GE and specified departmental requirements.

BA in Philosophy

120 Credits

General Education Requirements: 35 Credits

- ENGL 1010 Introduction to Writing 3.0
- ENGL 2010 Intermediate Writing--Humanities/ Social Sciences 3.0
- or ENGL 2020 Intermediate Writing--Science and Technology (3.0)

Complete one of the following: 3.0

- MATH 1030 Quantitative Reasoning (recommended for Humanities or Arts majors) (3.0)
- MATH 1040 Introduction to Statistics (recommended for Social Science majors) (3.0)
- MATH 1050 College Algebra (recommended for Business, Education, Science, and Health Professions majors) (4.0)

Complete one of the following: 3.0

- HIST 2700 US History to 1877 (3.0)
- and HIST 2710 US History since 1877 (3.0)
- HIST 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 Direction 3.0
- Social/Behavioral Science 3.0

Discipline Core Requirements: 37 Credits

Complete the following:

- PHIL 120R Philosophy Forum 1.0
- PHIL 1250 Logical Thinking and Philosophical Writing 3.0

Philosophy

• 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 3700	Social and Political Philosophy (3.0)	
• PHIL 450R	Interdisciplinary Senior Ethics Seminar (3.0)	
• PHIL 451R	Ethical Theory Seminar (3.0)	
History Set (complete 3 credits from the following)		3.0
• PHIL 4140	History of Analytic Philosophy (3.0)	
• PHIL 4150	History of Continental Philosophy (3.0)	
Topic Set I (complete 3 credits from the following)		3.0
• PHIL 3200	Metaphysics (3.0)	
• PHIL 3300	Epistemology (3.0)	
Topic Set II (complete 3 credits from the following)		3.0
• PHIL 3400	Philosophy of Science (3.0)	
• PHIL 3600	Philosophy of Religion (3.0)	
• PHIL 3700	Social and Political Philosophy (3.0)	
• PHIL 3800	Introduction to Aesthetics (3.0)	
• PHIL 4470	Philosophy of Mind (3.0)	
• PHIL 4480	Philosophy of Language (3.0)	
Complete 12 upper-division credits of Philosophy course work, 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; 13 credits must be upper-division 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 UVSC, with at least 10 hours earned in the last 45 hours.
- 4 Completion of GE and specified departmental requirements.
- 5 Completion of 40 hours or upper-division credit.
- 6 For the BA degree, completion of 18 credit hours of course work from one language to include the 1010, 1020, 2010, and 2020 levels or transferred equivalents.

Note: It is recommended that students planning on earning a Baccalaureate Degree in Philosophy take a foreign language, preferably French or German, in their Freshman and Sophomore academic years. PHIL 120R, PHIL 290R, PHIL 295R, PHIL 400R, PHIL 492R, PHIL 450R, and PHIL 451R can be repeated for credit.

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 Humanities or Arts majors) (3.0)
- MATH 1040 Introduction to Statistics (recommended for Social Science majors) (3.0)
- MATH 1050 College Algebra (recommended for Business, Education, Science, and Health Professions majors) (4.0)

Complete one of the following: 3.0

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

Complete the following: 3.0

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

Distribution Courses

- Biology 3.0
- Physical Science 3.0
- Additional Biology or Physical Science 3.0
- Humanities Distribution 3.0
- Fine Arts Direction 3.0
- Social/Behavioral Science 3.0

Discipline Core Requirements: 37 Credits

- Complete the following:
- PHIL 120R Philosophy Forum 1.0
 - PHIL 1250 Logical Thinking and Philosophical Writing 3.0
 - 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 3700 Social and Political Philosophy (3.0)
- PHIL 450R Interdisciplinary Senior Ethics Seminar (3.0)
- PHIL 451R Ethical Theory Seminar (3.0)
- History Set (complete 3 credits from the following) 3.0
- PHIL 4140 History of Analytic Philosophy (3.0)
- PHIL 4150 History of Continental Philosophy (3.0)

Topics Set I (complete 3 credits from the following) 3.0

- PHIL 3200 Metaphysics (3.0)
- PHIL 3300 Epistemology (3.0)

Topic Set II (complete 3 credits from the following) 3.0

- PHIL 3400 Philosophy of Science (3.0)
- PHIL 3600 Philosophy of Religion (3.0)
- PHIL 3700 Social and Political Philosophy (3.0)
- PHIL 3800 Introduction to Aesthetics (3.0)
- PHIL 4470 Philosophy of Mind (3.0)
- PHIL 4480 Philosophy of Language (3.0)

Complete 12 upper-division credits of Philosophy course work, excluding those courses taken to fulfill categories listed above. 12.0

Elective Requirements: 48 Credits

- Any course 1000 or higher; 13 credits must be upper-division 48.0

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 UVSC, 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.

Note: It is recommended that students planning on earning a Baccalaureate Degree in Philosophy take a foreign language, preferably French or German, in their Freshman and Sophomore academic years. PHIL 120R, PHIL 290R, PHIL 295R, PHIL 400 R, 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 a 2.0 (C) or better.
- 3 Admitted to a bachelor degree program at UVSC.

Discipline Core Requirements: 18 Credits

Complete one of the following: 3.0

- PHIL 2110 Ancient Philosophy (3.0)
- or 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.) 15.0

BA/BS in Integrated Studies 123 CREDITS

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

Emphasis in Philosophy 18 Credits

Emphasis Requirements: 18 Credits

Complete the following:

- PHIL 1250 Logical Thinking and Philosophical Writing 3.0

Complete 3 credits from the following: 3.0

- PHIL 1000 Introduction to Philosophy (3.0)
- PHIL 1610 Introduction to Western Religions (3.0)
- PHIL 1620 Introduction to Eastern Religions (3.0)
- PHIL 2110 Ancient 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 courses 12.0

BA/BS in Integrated Studies 123 CREDITS

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

Emphasis in 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 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 3740 Literature of the Sacred (3.0)
- ENGL 3780 Mormon Literature (3.0)
- HIST 4100 Jewish History (3.0)
- RLST 3540 Christian Ethics (3.0)
- RLST 3610 Introduction to Christian Theology (3.0)
- SOC 3400 Sociology of Religion (3.0)

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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Program Coordinator and Advisor, PETE:
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Professor

Shaunna McGhie
M. Vinson Miner
Thomas M. Perkins

Assistant Professor

Betsy Lindley
Kemal Makasci
Jason Slack
Jamie Vener

Instructor

Steve Gardner

Staff:

Administrative Assistant
Shauna Roberts

School of Science and Health

Dean: Sam Rushforth
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Associate Dean: Bill Evenson
Office: PS 201e
Telephone: 801-863-6440

Assistant Dean: Lori Barber
Office: BA 205c
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Assistant Dean: Louise Illes
Office: PS 201d
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MISSION STATEMENT

The Mission of the Department of Physical Education and Recreation is consistent with the School'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 Bachelors 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 UVSC 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.

Physical Education And Recreation

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 Introduction to Writing 3.0
- ENGL 2010 Intermediate Writing--Humanities/ Social Sciences 3.0
- or ENGL 2020 Intermediate Writing--Science and Technology (3.0)

Complete one of the following: 3.0

- MATH 1030 Quantitative Reasoning (recommended for Humanities or Arts majors) (3.0)
- MATH 1040 Introduction to Statistics (recommended for Social Science majors) (3.0)
- MATH 1050 College Algebra (recommended for Business, Education, Science, and Health Professions majors) (4.0)

Complete one of the following: 3.0

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

Complete the following:

- 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 (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. (Departments may require a higher GPA.)
- 3 Residency hours -- minimum of 20 credit hours through course attendance at UVSC.
- 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 and Recreation 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 3300 Sports Injuries* (2.0)
- PETE 2100 Skill Analysis I* (3.0)
- PETE 2200 Skill Analysis II* (3.0)
- PETE 2300 Skill Analysis III* (3.0)
- Any PES or PETE courses approved by department (maximum of 2 hours)

Emphasis Elective Requirements: 10 Credits

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: 16 Credits

- REC 3100 Recreation Program Planning 3.0
- REC 3400 Recreation Administration and Risk Management 3.0
- REC 3600 Foundations of Recreation and Leisure 2.0

Complete 8 credits from the following: 8.0

- REC 1527 Rock Climbing I (2.0)
- REC 1525 Mountaineering (2.0)
- REC 1550 Mountain Biking (2.0)
- REC 1350 Scuba Diving I (1.0)
- REC 1351 Scuba Diving II (1.0)
- REC 1505 Whitewater Kayaking I (2.0)
- REC 1500 Canoeing I (1.0)
- 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: 11 Credits

Complete any 1000-level or higher 11.0

BA in Physical Education and Recreation 120 CREDITS

General Education Requirements: 36 Credits

- ENGL 1010 Introduction to Writing 3.0
- ENGL 2010 Intermediate Writing--Humanities/ Social Sciences 3.0
- or ENGL 2020 Intermediate Writing--Science and Technology (3.0)

Complete one of the following: 3.0

- MATH 1050 College Algebra 4.0
- 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 (required for the Exercise Science emphasis) 2.0

Distribution Courses

- BIOL 1010 General Biology 3.0
- Physical Science 3.0
- ZOOL 1090 Introduction to Human Anatomy and Physiology 3.0
- Humanities Distribution (any foreign language 2020 course) 3.0
- Fine Arts Distribution 3.0
- Social/Behavioral Science 3.0

Discipline Core Requirements: 17 Credits

- PES 2700 Foundations of Physical Education and Recreation 3.0
- PES 3500 Kinesiology 3.0
- PES 3550 Motor Learning and Development 3.0
- PES 3750 Psychosocial Aspects of Human Performance 2.0
- PES 3850 Ethical Concerns in Physical Education and 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 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 UVSC, 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.

Note: Students must obtain the departmental 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: 44 Credits

- CHEM 1110 Elementary Chemistry for the Health Sciences 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 Physical Activity Promotion in the Community 3.0
- PES 4900 Exercise Science Senior Practicum 3.0
- PES 4950 Senior Seminar 2.0
- MATH 2040 Principles of Statistics 4.0

Emphasis Elective Requirements: 8 Credits

- Any course 1000-level or higher 8.0

Emphasis in Outdoor Recreation Management 52 Credits

Emphasis Requirements: 40 Credits

- REC 1542 Wilderness First Responder 2.0
- REC 2400 Principles of Experiential Education in Recreation 3.0
- REC 3100 Recreation Program Planning 3.0
- REC 3400 Recreation Administration and Risk Management 3.0
- REC 3500 Recreation Administration 3.0
- REC 4200 Outdoor Leadership and Management Practicum 2.0

- MGMT 3600 Principles of Marketing 3.0
- REC 482R Senior Internship 3.0
- REC 4950 Senior Seminar 3.0

Complete four credits from the following land-based skills courses:

- 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 1535 Backpacking (2.0)
- REC 2005 Ropes Course Facilitation (2.0)
- REC 2010 Avalanche Awareness (2.0)
- REC 3300 Wilderness Skills (2.0)

Complete two credits from the following water-based skills courses:

- REC 1350 Scuba Diving I (2.0)
- REC 1351 Scuba Diving II (2.0)
- REC 1500 Canoeing I (1.0)
- REC 1505 Whitewater Kayaking I (2.0)
- REC 1506 Whitewater Kayaking II (2.0)
- REC 1513 Fly Casting I (1.0)

Complete three of the following classes: 9.0

- REC 2450 Rock Climbing Site Management and Facilitation (3.0)
- or REC 2600 Principles of Outdoor and Adventure Education (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)
- REC 4500 Visitor Behavior (3.0)

Emphasis Elective Requirements: 12 Credits

- Any courses 1000-level or higher 12.0

BS in Physical Education and Recreation 120 CREDITS

General Education Requirements: 36 Credits

- ENGL 1010 Introduction to Writing 3.0
- ENGL 2010 Intermediate Writing--Humanities/ Social Sciences 3.0
- or ENGL 2020 Intermediate Writing--Science and Technology (3.0)

Complete one of the following: 3.0

- MATH 1050 College Algebra 4.0
- 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

- BIOL 1010 General Biology 3.0
- Physical Science 3.0
- ZOOL 1090 Introduction to Human Anatomy and Physiology 3.0
- Humanities Distribution 3.0
- Fine Arts Distribution 3.0

Physical Education And Recreation

• Social/Behavioral Science	3.0
Discipline Core Requirements:	17 Credits
• PES 2700 Foundations of Physical Education and Recreation	3.0
• PES 3500 Kinesiology	3.0
• PES 3550 Motor Learning and Development	3.0
• PES 3750 Psychosocial Aspects of Human Performance	2.0
• PES 3850 Ethical Concerns in Physical Education and Recreation	3.0
• PES 4300 Research Methods in Physical Education and Recreation	3.0

Emphasis:

Complete one of the following:

- Exercise Science 67.0
- Outdoor Recreation Management 67.0

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 UVSC, with at least 10 hours earned in the last 45 hours.
- 4 Completion of GE and specified departmental requirements.

Note: Students must obtain the departmental advisor's signature on an approved program plan prior to enrollment in their second semester of study.

Emphasis in

Exercise Science 67 Credits

Emphasis Requirements: 44 Credits

- CHEM 1110 Elementary Chemistry for the Health Sciences 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 Physical Activity Promotion in the Community 3.0

- PES 4900 Exercise Science Senior Practicum 3.0
- PES 4950 Senior Seminar 2.0
- MATH 2040 Principles of Statistics 4.0

Emphasis Elective Requirements: 23 Credits

- Any courses 1000-level or higher 23.0

Emphasis in Outdoor Recreation

Management 67 Credits

Emphasis Requirements: 40 Credits

- REC 1542 Wilderness First Responder 2.0
- REC 2400 Principles of Experiential Education in Recreation 3.0
- REC 3100 Recreation Program Planning 3.0
- REC 3400 Recreation Administration and Risk Management 3.0
- REC 3500 Recreation Administration 3.0
- REC 4200 Outdoor Leadership and Management Practicum 2.0
- REC 482R Senior Internship 2.0
- REC 4950 Senior Seminar 3.0
- MGMT 3600 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)
- REC 1528 Rock Climbing II (2.0)
- REC 1550 Mountain Biking (2.0)
- REC 1535 Backpacking (2.0)
- REC 2005 Ropes Course Facilitation (2.0)
- REC 2010 Avalanche Awareness (2.0)
- REC 3300 Wilderness Skills (2.0)

Complete two credits from the following water-based skills courses:

- REC 1350 Scuba Diving I (2.0)
- REC 1351 Scuba Diving II (2.0)
- REC 1500 Canoeing I (1.0)
- REC 1505 Whitewater Kayaking I (2.0)
- REC 1506 Whitewater Kayaking II (2.0)
- REC 1513 Fly Casting I (1.0)

Complete three of the following classes:

- REC 2450 Rock Climbing Site Management and Facilitation (3.0)
- or REC 2600 Principles of Outdoor and Adventure Education (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)
- REC 4500 Visitor Behavior (3.0)

Emphasis Elective Requirements: 27 Credits

- Any courses 1000-level or higher 27.0

BS in Physical Education

Teacher Education 120 Credits

Matriculation Requirements:

- 1 Acceptance to the Secondary Education Program.
- 2 Complete the following with a grade of "C" or better: PES 1097, PETE 2100, PETE 2300, PETE 3100, and PES 2700.
- 3 Submit and pass matriculation essay with departmental evaluation and approval (see advisor).

General Education Requirements: 37 Credits

- ENGL 1010 Introduction to Writing 3.0
- ENGL 2020 Intermediate Writing--Science and Technology 3.0

- MATH 1050 College Algebra 4.0

Complete one of the following:

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

Complete the following:

- PHIL 2050 Ethics and Values 3.0
- PES 1097 Fitness for Life 2.0

Distribution Courses

- BIOL 1010 General Biology 3.0
- or BIOL 1610 College Biology I (4.0)
- CHEM 1010 Introduction to Chemistry 3.0
- or CHEM 1110 Elementary Chemistry for the Health Sciences (4.0)

- ZOOL 1090 Introduction to Human Anatomy and Physiology 3.0

- DANC 3400 Dance in the Elementary School 2.0
- and MUSC 3400 Music in the Elementary School 2.0

- PSY 1100 Human Development Life Span 3.0
- COMM 1020 Public Speaking 3.0

Discipline Core Requirements: 75 Credits

- PES 2700 Foundations of Physical Education and Recreation 3.0
- PES 3300 Sports Injuries 2.0
- PES 3500 Kinesiology 3.0
- PES 3700 Exercise Physiology 4.0
- PES 3550 Motor Learning and Development 3.0
- PES 3750 Psychosocial Aspects of Human Performance 2.0

- PETE 2100 Skill Analysis I 3.0
- PETE 2200 Skill Analysis II 3.0
- PETE 2300 Skill Analysis III 3.0
- PETE 3100 Physical Education Pedagogy 3.0
- PETE 3450 Special Populations in Physical Education 3.0

- PETE 4200 Methods of Teaching Elementary Physical Education 3.0

- PETE 4210 Elementary Physical Education Field Experience 1.0

- PETE 4250 Methods of Teaching Secondary Physical Education 3.0

- PETE 4260 Secondary Physical Education Field Experience 1.0

- PETE 4400 Assessment in Physical Education 3.0
- PETE 4900 Student Teaching Seminar for Physical Education 2.0

Secondary 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
- EDSP 3400 Exceptional Students 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 4.0
- EDSC 4850 Student Teaching--Secondary (4.0) 8.0

Elective Requirements: 8 Credits

- Any 1000-level or higher 8.0

Graduation Requirements:

- 1 Completion of a minimum of 120 semester credits with 40 semester credits from 3000 and 4000 level courses.
- 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 UVSC, with at least 10 hours earned in the last 45 hours.
- 4 Completion of GE and specified departmental requirements.

Minor in

Physical Education 24 Credits

Discipline Core Requirements: 24 Credits

- PETE 2100 Skill Analysis I 2100 Teaching Sports Skills 3.0
- PES 2700 Foundations of Physical Education and Recreation 3.0
- PES 3270 Methods of Teaching Fitness 3.0
- PES 3300 Sports Injuries 2.0
- PES 3550 Motor Learning and Development 3.0
- PES 3700 Exercise Physiology 4.0
- PETE 4250 Methods of Teaching Secondary Physical Education 3.0
- PETE 4260 Secondary Physical Education Field Experience 1.0

Choose one of the following:

- PES 3220 Teaching and Coaching Basketball (2.0) 2.0
- PES 3230 Teaching and Coaching Football (2.0)
- PES 3240 Teaching and Coaching Volleyball (2.0)
- PES 3250 Teaching and Coaching Aerobics and Cheerleading (2.0)
- PES 3260 Teaching and Coaching Baseball and Softball (2.0)

BA/BS in

Integrated Studies 123 Credits

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

Emphasis in Outdoor

Leadership 18 Credits

Emphasis Requirements: 18 Credits

Outdoor Leadership Emphasis

Complete the following:

- REC 3600 Foundations of Recreation and Leisure 2.0
- REC 3100 Recreation Program Planning 3.0
- REC 3400 Recreation Administration and Risk Management 3.0
- REC 4000 Outdoor Leadership 4.0

Complete 6 credits from the following:

- REC 1527 Rock Climbing I (2.0)
- REC 1525 Mountaineering (2.0)
- REC 1550 Mountain Biking (2.0)
- REC 1350 Scuba Diving I (2.0)
- REC 1351 Scuba Diving II (2.0)
- REC 1505 Whitewater Kayaking I (2.0)
- REC 1528 Rock Climbing II (2.0)
- REC 2005 Ropes Course Facilitation (2.0)
- REC 2010 Avalanche Awareness (2.0)
- REC 1500 Canoeing I (1.0)
- REC 3300 Wilderness Skills (2.0)

BA/BS in

Integrated Studies 123 Credits

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

Emphasis in Physical

Education 18 Credits

Emphasis Requirements: 18 Credits

Physical Education Emphasis

Complete the following:

- PES 2700 Foundations of Physical Education and Recreation 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:

- 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

Physical Education And Recreation

- prefixes:
- PES, Physical Education
 - PETE, Physical Education Teacher Education
 - REC, Recreation

Physics

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Phil Matheson
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John Powell

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PHYSICS AT UVSC

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 UVSC 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 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
- 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) 2.0

- 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: 9.0

- PHYS 3050 Astrophysics (3.0)
- PHYS 4420 Electrodynamics* (3.0)
- PHYS 4510 Quantum Mechanics I* (3.0)
- PHYS 4520 Quantum Mechanics II* (3.0)

Physics

- PHYS 4700 Acoustics* (3.0)
- PHYS 4800 Solid State Physics* (3.0)
- PHYS 499A Senior Project* (2.0)
- PHYS 499B Senior Thesis* (1.0)

Elective Requirements: 23 Credits

- Complete any 1000 level or higher 1.0
- Complete 22 credits from the following courses not used above (SEE ADVISOR). The selection of elective option coursework must present a coherent theme such as engineering physics, geophysics, environmental physics, computational physics, etc.

- BIOL 1610 College Biology I (4.0)
- BIOL 1615 College Biology I Laboratory (1.0)
- BIOL 1620 College Biology II (3.0)
- BIOL 1625 College Biology II Laboratory (1.0)
- Any BIOL course 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 EENG course 2700 or higher except internship and independent study type courses.
- Any ENGR course 2010 or higher except internship and independent study type courses.
- 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 3080 or higher except internship and independent study type courses.
- HIST 4320 History of Scientific Thought* (3.0)
- MATH 2270 Linear Algebra (3.0)
- Any MATH course 3200 or higher except internship and independent study type courses.
- METO 3100 Earth Systems (3.0)
- PHYS 3050 Astrophysics (3.0)
- PHYS 3800 Energy use on Earth (3.0)
- PHYS 4100 Biophysics (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)
- 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 Research (1.0)
- PHYS 499A Senior Project* (2.0)
- PHYS 499B Senior Thesis* (1.0)
- ZOOL 2320 Human Anatomy (4.0)
- ZOOL 2420 Human Physiology (4.0)
- See Physics Department academic advisor for possibly more complete and up-to-date list.

Graduation Requirements:

- 1 Completion of a minimum of 120 semester credits.
- 2 Overall grade point average of 2.0 (C) or above with no grade lower than a "C" in core and elective requirement courses.
- 3 Residency hours--minimum of 30 credit hours through course attendance at UVSC, with at least 10 hours earned in the last 45 hours.
- 4 Completion of GE and specified departmental requirements.

Note: * 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:

- 1 Students are admitted directly to the Baccalaureate degree program in Chemistry and Physics Education upon acceptance to the Secondary Education Program.
- 2 Students must obtain the departmental Advisor's signature on an approved program plan prior to enrollment in their second semester of study.
- 3 Students must select between chemistry and physics emphases upon matriculation.

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)

- and HIST 2710 US History since 1877 (3.0)
- HIST 1740 US Economic History (3.0)
- POLS 1000 American Heritage (3.0)
- POLS 1100 American National Government (3.0)

Complete the following:

- PHIL 2050 Ethics and Values 3.0
- HLTH 1100 Personal Health and Wellness (2.0)
- or 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
- Humanities 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 4200 Teaching Methods in Science 3.0
- HIST 4320 History of Scientific Thought 3.0
- MATH 1220 Calculus II 5.0
- MATH 2210 Calculus III 3.0
- PHYS 2210 Physics for Scientists and Engineers I 4.0
- PHYS 2215 Physics for Scientists and Engineers I 1.0

- PHYS 2220 Physics for Scientists and Engineers I 4.0
- PHYS 2225 Physics for Scientists and Engineers II 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 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 4440 Content Area Reading and Writing 3.0
- EDSC 4450 Multicultural Instruction/ESL 2.0
- EDSC 4550 Secondary Curriculum Instruction and Assessment 4.0

- EDSC 4850 Student Teaching--Secondary (4.0) 8.0
- EDSP 3400 Exceptional Students 2.0
- Complete one of the following sets: 11.0

CHEMISTRY:

- CHEM 3060 Physical Chemistry I (4.0)
- CHEM 3100 Inorganic Chemistry (4.0)
- PHYS 3050 Astrophysics (3.0)

PHYSICS:

- PHYS 3210 Introduction to Experimental Physics I (2.0)
- PHYS 490R Seminar* (0.5)

Complete 9 credits from the following:

- 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 UVSC, 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 UVSC. 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.

Footnotes:

- * Must be repeated two times.

Minor in Physics 20 CREDITS

Matriculation Requirements:

- 1 Admitted to a bachelor degree program at UVSC.

Discipline Core Requirements: 20 Credits

- PHYS 2210 Physics for Scientists and Engineers I 4.0

- PHYS 2215 Physics for Scientists and Engineers I Lab 1.0
- PHYS 2220 Physics for Scientists and Engineers II 4.0
- PHYS 2225 Physics for Scientists and Engineers II Lab 1.0
- PHYS 3740 Modern Physics 3.0
- PHYS 3210 Introduction to Experimental Physics I 2.0

Complete a minimum of 5 credits from the following courses:

- 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 4600 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 3050 Astrophysics (3.0)
- METO 3100 Earth Systems (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: Keith Snedegar

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.

Associate Professor

Lyndon W. Cook

Assistant Professor

Jay A. DeSart

Rick A. Griffin

Lecturer

Alex Stecker

Distinguished Visiting Professor

Baktybek Abdrisaev

School of Humanities, Arts, and Social Sciences

Dean: William W. Cobb, Jr.
Office: LA 209d
Telephone: 801-863-7435

Political science enjoys a central position among the social sciences. Aristotle characterized politics as the “queen of the sciences.” It is a broad discipline that encompasses philosophical, historical and analytical studies of governments, politics and policies. Political science students learn not only the concepts, theories and methods associated with the discipline, but also gain the cognitive and presentational skills required of tomorrow’s 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 service 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: 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)

Complete the following:

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

Distribution Courses

- Biology 3.0
- Physical Science 3.0
- Additional Biology or Physical Science 3.0
- Humanities Distribution (Fulfilled by completing Foreign Language Course 2020) 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 3000 Political Analysis 3.0
- POLS 4990 Senior Seminar (3.0) 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 15.0 one foreign language
- Complete courses numbered 1000 or higher (at least 16 credits must be upper-division) 31.0

Graduation Requirements:

- 1 Completion of a minimum of 120 or more semester credits, 40 credits must be upper-division.
- 2 Overall grade point average of 2.0 (C) or above (departments may require a higher GPA).
- 3 Residency hours: minimum of 30 credit hours through course attendance at UVSC, 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: 18 Credits

Complete 18 credits from the following courses: 18.0

- 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 3300 Introduction to Public Administration (3.0)
- POLS 420R Issues and Topics in Political Science (3.0)
- POLS 4720 Foundations of American Constitutionalism (3.0)
- POLS 4790 US Constitution (3.0)
- POLS 480R Internship (2.0)
- POLS 490R Independent Study (1.0)
- HIST 3870 Constitutional History to Plessy 1896 (3.0)
- HIST 3880 Constitutional History since Plessy 1896 (3.0)
- HIST 4600 Contemporary American Indian Political and Social Issues (3.0)
- PHIL 3530 Environmental Ethics (3.0)
- PHIL 3700 Social and Political Philosophy (3.0)
- SOC 3200 Race and Minority Relations (3.0)
- SOC 3460 Political Sociology (3.0)

Emphasis in

International Relations 18 Credits

Emphasis Requirements: 18 Credits

Complete 18 credits from the following courses: 18.0

- POLS 1440 Introduction to Middle East Politics (3.0)
- POLS 1800 Our Global Community (3.0)
- POLS 3100 Survey of International Terrorism (3.0)
- POLS 3400 American Foreign Policy (3.0)
- POLS 3500 International Relations of the Middle East (3.0)
- POLS 3600 International Relations of East Asia (3.0)
- POLS 420R Issues and Topics in Political Science (3.0)
- POLS 490R Independent Study (1.0)
- HIST 3050 Modern Latin America (3.0)
- HIST 3520 The United States and Vietnam--1945 to Present (3.0)
- HIST 3610 The Modern History of East Asia (3.0)
- HIST 4300 Violence and Social Conflict in Latin America (3.0)
- HIST 4430 History of Iran--1900 to Present (3.0)
- ANTH 1070 Multicultural Societies (3.0)
- ANTH 3000 Language and Culture (3.0)
- MGMT 3300 Survey of International Business (3.0)
- MGMT 3320 Cross-Cultural Communications for International Business (3.0)
- PHIL 1600 World Religions (3.0)
- SOC 3100 Population Society and Demography (3.0)

Emphasis in Political

Philosophy/Public Law 18 Credits

Emphasis Requirements: 18 Credits

Complete 18 credits from the following: 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)
- POLS 3250 Introduction to Law and Politics (3.0)
- POLS 3300 Introduction to Public Administration (3.0)
- POLS 420R Issues and Topics in Political Science (3.0)
- POLS 4720 Foundations of American Constitutionalism (3.0)
- POLS 4790 US Constitution (3.0)
- POLS 490R Independent Study (1.0)
- HIST 3870 Constitutional History to Plessy 1896 (3.0)
- HIST 3880 Constitutional History since Plessy 1896 (3.0)
- PHIL 3150 Philosophical Issues in Feminism (3.0)

Political Science

- PHIL 3530 Environmental Ethics (3.0)
- PHIL 3700 Social and Political Philosophy (3.0)
- SOC 3200 Race and Minority Relations (3.0)

BS in Political Science 120 Credits

General Education Requirements: 36 Credits

- ENGL 1010 Introduction to Writing 3.0
- ENGL 2010 Intermediate Writing--Humanities/Social Sciences (3.0)
- or ENGL 2020 Intermediate Writing--Science and Technology 3.0
- MATH 1050 College Algebra (recommended for Business, Education, Science, and Health Professions majors) 4.0

Complete one of the following: 3.0

- HIST 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 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
- POLS 2200 Introduction to Comparative Politics 3.0
- POLS 3000 Political Analysis 3.0
- POLS 4990 Senior Seminar (3.0)
- or POLS 480R Internship (2.0) 3.0

Quantitative Requirement: Complete 15 credits from the following courses: 15.0

- CLSS 1050 Library Research (1.0)
- COMM 1130 Writing for the Mass Media (3.0)
- COMM 1500 Introduction to Mass Communication (3.0)
- MATH 1060 Trigonometry (3.0)
- MATH 1210 Calculus I (5.0)
- MATH 2040 Principles of Statistics (4.0)
- MGMT 2390 Effective Business Presentations (3.0)
- MGMT 3000 Organizational Behavior (3.0)
- MGMT 3430 Human Resource Management (3.0)
- ECON 4150 Public Finance (3.0)

Emphasis:

Complete one of the following:

- American Government 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) 30.0

Graduation Requirements:

- 1 Completion of a minimum of 120 or more semester credits, 40 credits must be upper-division.
- 2 Overall grade point average of 2.0 (C) or above (departments may require a higher GPA).
- 3 Residency hours: minimum of 30 credit hours through course attendance at UVSC, 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: 18 Credits

Complete 18 credits from the following: 18.0

- 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 3300 Introduction to Public Administration (3.0)
- POLS 4720 Foundations of American Constitutionalism (3.0)

- POLS 4790 US Constitution (3.0)
- POLS 420R Issues and Topics in Political Science (3.0)
- POLS 480R Internship (2.0)
- POLS 490R Independent Study (1.0)
- HIST 3870 Constitutional History to Plessy 1896 (3.0)
- HIST 3880 Constitutional History since Plessy 1896 (3.0)
- HIST 4600 Contemporary American Indian Political and Social Issues (3.0)
- PHIL 3530 Environmental Ethics (3.0)
- PHIL 3700 Social and Political Philosophy (3.0)
- SOC 3200 Race and Minority Relations (3.0)
- SOC 3460 Political Sociology (3.0)

Emphasis in International Relations 18 Credits

Emphasis Requirements: 18 Credits

Complete 18 credits from the following courses: 18.0

- POLS 1440 Introduction to Middle East Politics (3.0)
- POLS 1800 Our Global Community (3.0)
- POLS 3100 Survey of International Terrorism (3.0)
- POLS 3400 American Foreign Policy (3.0)
- POLS 3500 International Relations of the Middle East (3.0)
- POLS 3600 International Relations of East Asia (3.0)
- POLS 420R Issues and Topics in Political Science (3.0)
- POLS 490R Independent Study (1.0)
- HIST 3050 Modern Latin America (3.0)
- HIST 3520 The United States and Vietnam--1945 to Present (3.0)
- HIST 3610 The Modern History of East Asia (3.0)
- HIST 4300 Violence and Social Conflict in Latin America (3.0)
- HIST 4430 History of Iran--1900 to Present (3.0)
- ANTH 1070 Multicultural Societies (3.0)
- ANTH 3000 Language and Culture (3.0)
- MGMT 3300 Survey of International Business (3.0)
- MGMT 3320 Cross-Cultural Communications for International Business (3.0)
- PHIL 1600 World Religions (3.0)
- SOC 3100 Population Society and Demography (3.0)

Emphasis in Political Philosophy/Public Law 18 Credits

Emphasis Requirements: 18 Credits

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)
- POLS 3250 Introduction to Law and Politics (3.0)
- POLS 3300 Introduction to Public Administration (3.0)
- POLS 4720 Foundations of American Constitutionalism (3.0)
- POLS 4790 US Constitution (3.0)
- POLS 420R Issues and Topics in Political Science (3.0)
- POLS 490R Independent Study (1.0)
- HIST 3870 Constitutional History to Plessy 1896 (3.0)
- HIST 3880 Constitutional History since Plessy 1896 (3.0)
- PHIL 3150 Philosophical Issues in Feminism (3.0)
- PHIL 3530 Environmental Ethics (3.0)
- PHIL 3700 Social and Political Philosophy (3.0)
- SOC 3200 Race and Minority Relations (3.0)

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 UVSC.

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)
- POLS 2120 Political Parties (3.0)

Complete TWO of the following: 6.0

- POLS 3030 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)

Complete TWO of the following: 6.0

- POLS 3000 Political Analysis (3.0)
- POLS 3100 Survey of International Terrorism (3.0)
- POLS 3400 American Foreign Policy (3.0)
- GEOG 3430 Political Geography (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)

Graduation Requirements:

- 1 Complete all history courses with a grade of "C-" or better.

Footnotes:

- * Only 3 credits of Internship will be accepted.

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

Pre-Engineering Science

Department of Computer Science and Pre-Engineering

Department Chair: Abraham Teng

Office: CS 520j
Telephone: 801-863-6201

Administrative Support III: Carol Robinson

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

Faculty:

Associate Professor
Masood Amin
Afsaneh Minaie
Assistant Professor
Abraham Teng

Advisor: Fred Orchard
Office: CS 635
Telephone: 801-863-6238

School of Technology and Computing

Interim 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 UVSC has been created for students who plan to complete the first two to three years of their engineering education at UVSC and then transfer to a baccalaureate university to complete their engineering degree. With adequate planning, pre-engineering coursework completed at UVSC 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 UVSC, 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 UVSC. Call 801-863-6238 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 UVSC New Student Assessment test. Remedial course work is available for students with inadequate high school preparation and achievement. Inadequately prepared students should see a pre-engineering advisor for recommended remedial courses which must be completed in addition to the normal pre-engineering requirements.

AS Pre Major in Pre-Engineering

62 Credits

General Education Requirements: 39 Credits

- ENGL 1010 Introduction to Writing 3.0
 - ENGL 2020 Intermediate Writing--Science and Technology 3.0
 - MATH 1210 Calculus I 5.0
- Complete one of the following: 3.0
- HIST 1700 American Civilization (3.0)
 - HIST 2700 US History to 1877 (3.0)
 - and HIST 2710 US History since 1877 (3.0)
 - HIST 1740 US Economic History (3.0)
 - POLS 1000 American Heritage (3.0)
 - POLS 1100 American National Government (3.0)

Complete the following:

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

Distribution Courses:

- BIOL 1010 General Biology* 3.0
- CHEM 1210 Principles of Chemistry I 4.0
- PHYS 2210 Physics for Scientists and Engineers I 4.0
- Humanities 3.0
- Fine Arts 3.0
- Social/Behavioral Science 3.0

Discipline Core Requirements: 23 Credits

- CS 1400 Fundamentals of Programming 3.0
- MATH 1220 Calculus II 5.0

Pre-Engineering Science

- PHYS 2220 Physics for Scientists and Engineers II 4.0

Complete ONE of the following sets of courses: 11.0

Mechanical/Civil Courses:

- ENGR 2010 Engineering Statics (3.0)
- ENGR 2030 Engineering Dynamics (3.0)
- ENGR 2140 Mechanics of Materials (3.0)
- Complete three credits of Pre-Engineering electives

Electrical/Computer Courses:

- EENG 2270 Circuit Theory (3.0)
- EENG 2275 Circuit Theory Lab (1.0)
- EENG 2700 Digital Design I (3.0)
- EENG 2705 Digital Design I Lab (1.0)
- Complete four credits of Pre-Engineering electives

Chemical/Biological Courses:

- 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. See your advisor.

Introduction to Engineering Disciplines

- ENGR 1000 Introduction to Engineering (3.0)
- ENGR 2450 Computational Methods for Engineering Analysis (3.0)
- ENGR 295R Special Topics (1.0)

Math and Science Electives (required by most engineering programs):

- MATH 2210 Calculus III (3.0)
- MATH 2270 Linear Algebra (3.0)
- MATH 2280 Ordinary Differential Equations (3.0)
- PHYS 2215 Physics for Scientists and Engineers I Lab (1.0)
- PHYS 2225 Physics for Scientists and Engineers II Lab (1.0)
- CHEM 1215 Principles of Chemistry I Laboratory (1.0)

Biological and Chemical Engineering Electives:

- BIOL 1610 College Biology I (4.0)
- BIOL 1615 College Biology I Laboratory (1.0)
- BIOL 1620 College Biology II (3.0)
- BIOL 1625 College Biology II Laboratory (1.0)
- MICR 2060 Microbiology for Health Professions (4.0)
- CHEM 1220 Principles of Chemistry II (4.0)
- CHEM 1225 Principles of Chemistry II Laboratory (1.0)
- CHEM 2315 Organic Chemistry I Laboratory (1.0)
- CHEM 2320 Organic Chemistry II (4.0)
- CHEM 2325 Organic Chemistry II Laboratory (1.0)

Civil and Mechanical Engineering Electives:

- EENG 2210 Fundamentals of Electric Circuit Analysis (3.0)
- ENGR 2300 Engineering Thermodynamics (3.0)
- EGDT 1040 Computer Aided Drafting--AutoCAD (3.0)
- EGDT 1400 Surveying (4.0)

Computer and Electrical Engineering Electives:

- CS 1410 Object-Oriented Programming (3.0)
- CS 2810 Computer Organization and Architecture (3.0)
- CS 2300 Discrete Structures I (3.0)
- CS 2420 Introduction to Algorithms and Data Structures (3.0)

Graduation Requirements:

- 1 Completion of a minimum of 62 semester credits.
- 2 Overall grade point average of 2.0 (C) or above. 2.5 or above in Math, Science, and Engineering courses.
- 3 Residency hours: minimum of 20 credit hours through course attendance at UVSC.
- 4 Completion of GE and specified departmental requirements.

Footnotes:

- * CHEM/BIOL Engineering students should consider BIOL 1610 in lieu of BIOL 1010.

APE in Associate in

Pre-Engineering 68-69 Credits

General Education Requirements: 28 Credits

- ENGL 1010 Introduction to Writing 3.0
- ENGL 2020 Intermediate Writing--Science and Technology 3.0

Complete the following Natural and Physical Science courses:

- BIOL 1010 General Biology 3.0
- CHEM 1210 Principles of Chemistry I 4.0
- CHEM 1215 Principles of Chemistry I Laboratory 1.0

Pre-Engineering Science

- PHYS 2210 Physics for Scientists and Engineers I 4.0
- PHYS 2215 Physics for Scientists and Engineers I Lab 1.0

Complete any combination of the following with no more than 1 course each from Humanities, Fine Arts, and Social/Behavioral Science: 6.0

- Humanities (from list)
- Fine Arts (from list)
- Social/Behavioral Sciences (from list)

Complete any American Institutions course 3.0

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

Discipline Core Requirements: 18 Credits

- MATH 1210 Calculus I 5.0
- MATH 1220 Calculus II 5.0
- CS 1400 Fundamentals of Programming 3.0
- PHYS 2220 Physics for Scientists and Engineers II 4.0
- PHYS 2225 Physics for Scientists and Engineers II Lab 1.0

Emphasis:

Complete one of the following:

- Biological and Chemical Engineering 23.0
- Civil and Mechanical Engineering 22.0
- Computer and Electrical Engineering 23.0

Graduation Requirements:

- 1 Completion of a minimum of 68 semester credits.
- 2 Overall grade point average of 2.0 (C) or above. 2.5 or above in Math, Science, and Engineering
- 3 Residency hours -- minimum of 20 credit hours through course attendance at UVSC.
- 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. 15.0

- 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)
- ENGR 1000 Introduction to Engineering (3.0)
- ENGR 2450 Computational Methods for Engineering Analysis (3.0)
- ENGR 295R Special Topics (1.0)
- MATH 2210 Calculus III (3.0)
- MATH 2270 Linear Algebra (3.0)
- MATH 2280 Ordinary Differential Equations (3.0)

Emphasis in Civil and

Mechanical Engineering 22 Credits

Emphasis Requirements: 9 Credits

- ENGR 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. 13.0

- EGDT 1040 Computer Aided Drafting--Auto-CAD (3.0)
- EGDT 1400 Surveying (4.0)
- ENGR 1000 Introduction to Engineering (3.0)
- EENG 2210 Fundamentals of Electric Circuit Analysis (3.0)
- EENG 2215 Fundamentals of Electric Circuit Analysis Lab (1.0)

- ENGR 2300 Engineering Thermodynamics (3.0)
- ENGR 2450 Computational Methods for Engineering Analysis (3.0)
- ENGR 295R Special Topics (Must be taken 3 times) (1.0)
- MATH 2210 Calculus III (3.0)
- MATH 2270 Linear Algebra (3.0)
- MATH 2280 Ordinary Differential Equations (3.0)

Emphasis in Computer

and Electrical Engineering 23 Credits

Emphasis Requirements: 8 Credits

- EENG 2270 Circuit Theory 3.0
- EENG 2275 Circuit Theory Lab 1.0
- EENG 2700 Digital Design I 3.0
- EENG 2705 Digital Design I Lab 1.0

Emphasis Elective Requirements: 15 Credits

Students should carefully select electives from the following list, based on the engineering discipline (Computer or Electrical) they are interested in and the college or university they want to attend to finish their BS degree. See your advisor. 15.0

- 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)
- EENG 3740 Digital Design II (3.0)
- ENGR 1000 Introduction to Engineering (3.0)
- ENGR 2450 Computational Methods for Engineering Analysis (3.0)
- ENGR 295R Special Topics (1.0)
- MATH 2210 Calculus III (3.0)
- MATH 2270 Linear Algebra (3.0)
- MATH 2280 Ordinary Differential Equations (3.0)

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

- EENG, Electrical Engineering
- ENGR, Engineering Science

ROTC

Air Force and Army

Contact: Army ROTC

Major Alexa O'Leary
Major Jerry Baker
Lieutenant Colonel Ron Fischer
Sergeant First Class Robert Gaskins
Sergeant First Class Kevin Boughton
Office: WB 137, UVSC Orem
Campus
Telephone: 863-6296 /6297/6299
E-mail: armyrotc@uvsc.edu

Contact: Air Force ROTC

Captain Christopher Walker
Ginny Richman
Office: Wells ROTC Bldg., Room
380 BYU Campus
Telephone: 801-422-2671
E-mail: afrotc@byu.edu

School of Business

Dean: Stanley Earl Jenne, Ph.D.
Office: WB 128b
Telephone: 801-863-8239

Associate Dean: Janice Gygi
Office: WB 219
Telephone: 801-863-8863

Assistant Dean: Mikki O'Connor
Office: WB 129
Telephone: 801-863-8850

CROSS-ENROLLMENT AGREEMENT

The College offers ROTC through a cross-enrollment agreement with Brigham Young University (BYU). The Military Science courses are taught at UVSC and the Aerospace Studies courses are taught at BYU.

Compliance with BYU standards, as listed in the current BYU catalog, is an obligation while participating in ROTC activities and at all times on the BYU campus.

General information on Aerospace Studies (Air Force ROTC) and Military Science (Army ROTC) is given below. More detailed information is available in the appropriate BYU catalog listing.

GENERAL INFORMATION

The ROTC program is designed to produce highly qualified commissioned officers for the U.S. Air Force, U.S. Army, Army Reserve, and Army National Guard.

The traditional ROTC program extends

over four years of college and consists of two phases: a two-year basic course during the freshman and sophomore years, and a two-year advanced course covering the junior and senior years of college.

To receive a commission as a second lieutenant in the U.S. Air Force, U.S. Army, Army Reserve or Army National Guard, students must earn a baccalaureate degree prior to age 30. An exception will be made for prior service, which may extend the age limit to 34. If designated for Air Force pilot or navigator training, all commissioning requirements must be met prior to age 29. Students must be citizens of the United States to be commissioned.

Physical and academic standards for the basic course are the same as for those of the university. To qualify for the advanced program, students must pass 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 depending upon the requirements of the college or university from which the students received their baccalaureate degree. ROTC military and leadership training provides ROTC graduates with many special skills and experiences which will enable them to compete as leaders in the military and/or business, civic, and community affairs.

SCHOLARSHIPS

ROTC offers many two, three, and four-year scholarships for which students may compete, awarded on merit. The scholarships pay full tuition, textbook costs, lab, and other required college fees, related education expenses such as classroom materials, and a \$350-500 per month subsistence allowance. These scholarships are among the finest scholarships offered and can be used at

hundreds of other universities and colleges across the United States for students to complete their baccalaureate training at a four-year school. ROTC scholarships are offered on a competitive basis and applications must be submitted through either the Air Force or Army ROTC Detachments. In most cases, deadline for scholarship applications is January of the year prior to enrollment; however, it is suggested that interested parties check with specific ROTC departments since in certain instances deadlines may vary. ROTC scholarships are not affected by other grants, loans, or VEAP. To be eligible for a scholarship, a student must be eligible to receive a baccalaureate degree by his or her 30th birthday, be a U.S. Citizen, be at least age 17 at the time the scholarship is to be used, and be willing to serve on active duty for a period of four years if a scholarship is utilized by a student. There are also Reserve Component Scholarships awarded each year for National Guard and Reserve duty.

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.)

Emphasis in Military Science 18 Credits

Emphasis Requirements:		18 Credits
• MILS 3200	Small Unit Leadership I	3.0
• MILS 3210	Small Unit Leadership II	3.0
• MILS 4200	The Profession of Arms I	3.0
• MILS 4210	The Profession of Arms II	3.0
Complete one of the following:		3.0

ROTC

- HIST 3450 The History of World War II (3.0)
 - HIST 3520 The United States and Vietnam--1945 to Present (3.0)
 - HIST 4740 American Revolution (3.0)
- Complete 3 credits from the following: 3.0
- COMM 3520 Case Studies in Public Relations (3.0)
 - CJ 3040 Community Policing (3.0)
 - ENGL 2310 Technical Communication (3.0)
 - DGM 3265 Instructional Design for Digital Media (3.0)
 - DGM 3290 Developing Digital Media for Instruction and Training (3.0)
 - MGMT 3300 Survey of International Business (3.0)
 - MGMT 3320 Cross-Cultural Communications for International Business (3.0)
 - MGMT 3430 Human Resource Management (3.0)
 - MGMT 3440 Managing Organizations (3.0)
 - POLS 3100 Survey of International Terrorism (3.0)
 - POLS 3400 American Foreign Policy (3.0)
 - POLS 3600 International Relations of East Asia (3.0)

Notes:

- 1 Contracted Army ROTC Cadets must also satisfy the leadership laboratory and physical fitness terms of their contract in order to be commissioned officers in the US Army.
- 2 Military Science students who select this emphasis may not choose Physical Education, Outdoor Leadership, Leadership, or Office Management as their second emphasis.

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

- AERO, Aerospace Studies
- MILS, Military Studies

Theatrical Arts for Stage and Screen

Department Chair: D. Terry Petrie

Office: FA 709
Telephone: 801-863-7222

Office: FA 705
Telephone: 801-863-8071

Administrative Assistant: Loretta King
Office: FA 707
Telephone: 801-863-8105

Faculty:

Associate Professor
James Arrington

Assistant Professor
Chris Clark
Terry Petrie

Lecturer
Rick Moody
Stephen Purdy

Administrative Staff:
Joe Fox (Scene Shop Foreman)
Carla Summers (Costume Shop Supervisor)

Advisor: Erin Grover
Office: LA 220
Telephone: 801-863-6645

School of Humanities, Arts, and Social Sciences

Dean: William W. Cobb, Jr.
Office: LA 209d
Telephone: 801-863-7435

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 UVSC student community, and the community at large, preparing students not only for continued education and employment, but also for lifelong learning, personal fulfillment, and culturally active citizenship.

The Department mounts six to ten productions per year encompassing a rich variety of genres and time periods. Students work side-by-side with faculty whose combined professional theatre experience and academic credentials enrich coursework in performance, script

analysis, script writing, directing, theatre history and literature, theatre management, and in design for lighting, sound, scenery, costumes, and makeup. Productions are often selected for showcasing in the Kennedy Center American College Theatre Festival, where students also compete for scholarships and professional employment.

Smaller student cohorts make it possible for the vast majority of student performers to be on stage in any given school year and for aspiring technicians and designers to be involved in the production process early in their college careers. The annual Short Attention-Span Theatre Festival features student-written, -directed, -designed, and -performed productions.

CAREER OPPORTUNITIES

Those jobs traditionally associated with theatre are shown below:

- acting
- directing
- producing
- script writing
- theatre design (lights, scenery, sound,
- costumes and makeup)
- theatre technology
- theatre education
- dramaturgy
- stage and production management
- theatrical agents
- theatre critics
- theatre managers

Additionally, it is not infrequently that graduates find work in the related areas of broadcasting, motion pictures, and television - particularly those graduates with education in the technical areas of the discipline.

PROGRAMS

AS Pre Major

in Theatre Arts **63 CREDITS**

General Education Requirements: 35 Credits

- ENGL 1010 Introduction to Writing 3.0
- ENGL 2010 Intermediate Writing--Humanities/ Social Sciences 3.0
- or ENGL 2020 Intermediate Writing--Science and Technology (3.0)

Complete one of the following: 3.0

- MATH 1030 Quantitative Reasoning (recommended for Humanities or Arts majors) (3.0)
- MATH 1040 Introduction to Statistics (recommended for Social Science majors) (3.0)
- MATH 1050 College Algebra (recommended for Business, Education, Science, and Health Professions majors) (4.0)

Complete one of the following: 3.0

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

Complete the following: 3.0

- PHIL 2050 Ethics and Values

- 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
 - THEA 1013 Introduction to Theatre 3.0
 - Social/Behavioral Science 3.0

Discipline Core Requirements: 25 Credits

Complete the following:

- THEA 1023 Introduction to Film 3.0
- THEA 1033 Fundamentals of Acting I 3.0
- THEA 1513 Stagecraft for Stage and Screen I 3.0
- THEA 1713 Script and Text Analysis 3.0
- THEA 259R Production Practicum for Stage and Screen (1.0) 4.0
- 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

Elective Requirements: 3 Credits

- Select any THEA course(s) 1000 level or higher for a total of 3 credits. 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 UVSC.
- 4 Completion of GE and specified departmental requirements.

NOTES

- PRODUCTION PARTICIPATION: THEA 259R - Production Practicum - is required for all AS Theatrical Arts majors and theatre scholarship recipients. Credit for this 1-credit, repeatable course is awarded for crew work completed on UVSC Theatrical Arts productions. Students should ideally diversify their crew experiences. Students should enroll for THEA 259R four times for the first 4 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.

BA in Theatre Arts **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 (3.0)
- MATH 1040 Introduction to Statistics (3.0)
- MATH 1050 College Algebra (4.0)

Complete one of the following: 3.0

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

Complete the following:

- 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 (2020 foreign language course) 3.0
- THEA 1013 Introduction to Theatre 3.0
- Social/Behavioral Science 3.0

Discipline Core Requirements: 53 Credits

- THEA 1033 Fundamentals of Acting I 3.0
- THEA 1513 Stagecraft for Stage and Screen I 3.0
- THEA 1713 Script and Text Analysis 3.0
- THEA 2513 Introduction to Design for Stage and Screen 3.0
- THEA 259R Production Practicum for Stage and Screen (1.0) 4.0
- THEA 3613 Directing Actors I 3.0

Theatrical Arts for Stage and Screen

• THEA 3633	Introduction to Stage and Theatre Management	3.0
• THEA 3723	Theatre History and Literature I	3.0
• THEA 3733	Theatre History and Literature II	3.0
• THEA 4633	Theatre Management II	3.0
• THEA 4981	Portfolio	1.0
• THEA 481R	Theatre Internship (1.0)	3.0
or THEA 457R	Special Projects in Design for Stage and Screen (1.0)	
Complete one of the following Tracks:		18.0
• TRACK ONE: BREADTH. For students desiring a general education in all areas of theatre study, select three (3) courses from each area of study shown below.		
• TRACK TWO: DEPTH. For students desiring to enter the job market with specialized skills or for students who have identified a specific area of theatre for their graduate studies, select one area of study shown below and take 6 courses for a total of 18 credits.*		
Performance Area of Study:		
• THEA 3113	Acting for Film (3.0)	
• THEA 3123	Stage Dialects (3.0)	
• THEA 3133	Stage Combat (3.0)	
• THEA 3413	Acting for Musical Theatre I (3.0)	
• THEA 3423	Acting for Musical Theatre II (3.0)	
• THEA 3623	Directing Actors II (3.0)	
• THEA 374R	New Script Workshop (3.0)	
• THEA 3753	Script Writing II (3.0)	
• THEA 4113	Auditioning (3.0)	
• THEA 4123	Acting Styles (3.0)	
Design/Technical Area of Study:		
• THEA 3553	Period Styles for Theatre Design (3.0)	
• THEA 3223	Makeup II (3.0)	
• THEA 3203	Costume Construction II (3.0)	
• THEA 4213	Costume Design I (3.0)	
• THEA 3513	Set and Prop Construction and Painting (3.0)	
• THEA 3533	Lighting and Sound Design I (3.0)	
• THEA 4513	Sets and Properties Design (3.0)	
• THEA 4533	Advanced Lighting Design (3.0)	
Elective Requirements:		32 Credits
• One Foreign Language		15.0
• Any courses 1000 or higher, 3 credits must be upper-division		17.0
Graduation Requirements:		
1 Completion of a minimum of 120 semester credits, 40 of which must be upper division.		
2 Overall grade point average of 2.0 (C) or above.		
3 Residency hours - minimum of 30 credit hours through course attendance at UVSC, with at least 10 hours in the last 45 hours.		
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/ Social Sciences	3.0
or ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
Complete one of the following:		3.0
• MATH 1030	Quantitative Reasoning (3.0)	
• MATH 1040	Introduction to Statistics (3.0)	
• MATH 1050	College Algebra (4.0)	
Complete one of the following:		3.0
• HIST 1700	American Civilization (3.0)	
• HIST 2700	US History to 1877 (3.0)	
and HIST 2710	US History since 1877 (3.0)	
• HIST 1740	US Economic History (3.0)	
• POLS 1000	American Heritage (3.0)	
• POLS 1100	American National Government (3.0)	
Complete the following:		
• PHIL 2050	Ethics and Values	3.0
• HLTH 1100	Personal Health and Wellness	2.0
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
• THEA 1013	Introduction to Theatre	3.0
• Social/Behavioral Science		3.0
Discipline Core Requirements:		53 Credits
• THEA 1033	Fundamentals of Acting I	3.0
• THEA 1513	Stagecraft for Stage and Screen I	3.0
• THEA 1713	Script and Text Analysis	3.0
• THEA 2513	Introduction to Design for Stage and Screen	3.0
• THEA 259R	Production Practicum for Stage and Screen (1.0)	4.0
• THEA 3613	Directing Actors I	3.0

• THEA 3633	Introduction to Stage and Theatre Management	3.0
• THEA 3723	Theatre History and Literature I	3.0
• THEA 3733	Theatre History and Literature II	3.0
• THEA 4633	Theatre Management II	3.0
• THEA 4981	Portfolio	1.0
• THEA 481R	Theatre Internship (1.0)	3.0
or THEA 457R	Special Projects in Design for Stage and Screen (1.0)	
Complete one of the following tracks:		18.0
• TRACK ONE: BREADTH. For students desiring a general education in all areas of theatre study, select three (3) courses from each area of study shown below.		
• TRACK TWO: DEPTH. For students desiring to enter the job market with specialized skills or for students who have identified a specific area of theatre for their graduate studies, select one area of study shown below and take 6 courses for a total of 18 credits.*		
Performance Area of Study:		
• THEA 3113	Acting for Film (3.0)	
• THEA 3123	Stage Dialects (3.0)	
• THEA 3133	Stage Combat (3.0)	
• THEA 3413	Acting for Musical Theatre I (3.0)	
• THEA 3423	Acting for Musical Theatre II (3.0)	
• THEA 3623	Directing Actors II (3.0)	
• THEA 374R	New Script Workshop (3.0)	
• THEA 3753	Script Writing II (3.0)	
• THEA 4113	Auditioning (3.0)	
• THEA 4123	Acting Styles (3.0)	
Design/Technical Area of Study:		
• THEA 3553	Period Styles for Theatre Design (3.0)	
• THEA 3223	Makeup II (3.0)	
• THEA 3203	Costume Construction II (3.0)	
• THEA 4213	Costume Design I (3.0)	
• THEA 3513	Set and Prop Construction and Painting (3.0)	
• THEA 3533	Lighting and Sound Design I (3.0)	
• THEA 4513	Sets and Properties Design (3.0)	
• THEA 4533	Advanced Lighting Design (3.0)	
Elective Requirements:		32 Credits
• Any courses 1000 or higher, 3 credits must be upper-division		32.0
Graduation Requirements:		
1 Completion of a minimum of 120 semester credits, 40 of which must be upper division.		
2 Overall grade point average of 2.0 (C) or above.		
3 Residency hours - minimum of 30 credit hours through course attendance at UVSC, with at least 10 hours in the last 45 hours.		
Footnotes:		
* See the department advisor for further refinements of this track.		

BS in Theatre Arts Education 120 CREDITS

Matriculation Requirements:		
1 Students are admitted directly to the Baccalaureate degree program in Theatrical Arts Education upon formal acceptance, by application and successful completion of admission criteria, to the Secondary Education Program of the college. Students should contact the Secondary Education department early in their academic careers to learn and prepare for the admission requirements.		
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 1700	American Civilization (3.0)	
• HIST 2700	US History to 1877 (3.0)	
and HIST 2710	US History since 1877 (3.0)	
• HIST 1740	US Economic History (3.0)	
• POLS 1000	American Heritage (3.0)	
• POLS 1100	American National Government (3.0)	
Complete the following:		
• PHIL 2050	Ethics and Values	3.0
• HLTH 1100	Personal Health and Wellness	2.0
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
• THEA 1013	Introduction to Theatre	3.0
• Social/Behavioral Science		3.0
Discipline Core Requirements:		73 Credits
Complete the following:		

• 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 2033	Fundamentals of Acting II	3.0
• THEA 2503	Stagecraft II	3.0
• THEA 2513	Introduction to Design for Stage and Screen	3.0
• THEA 259R	Production Practicum for Stage and Screen (1.0)	4.0
• THEA 2713	Introduction to Writing for the Stage and Screen	3.0
• THEA 3613	Directing Actors I	3.0
• THEA 3623	Directing Actors II	3.0
• THEA 3633	Introduction to Stage and Theatre Management	3.0
• THEA 3723	Theatre History and Literature I	3.0
• THEA 3733	Theatre History and Literature II	3.0
• EDSC 4500	Secondary Teaching Methods	3.0
Secondary Education Licensure requirements:		
• EDSC 2540	Development of the Adolescent Student	2.0
• EDSC 3000	Educational Psychology	3.0
• EDSC 3050	Foundations of American Education	2.0
• EDSC 3250	Instructional Media	2.0
• EDSC 4200	Classroom Management I	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	4.0
• EDSC 4850	Student Teaching--Secondary (4.0)	8.0
• EDSP 3400	Exceptional Students	2.0

Elective Requirements: 11 Credits

- Select 11 credits of 1000-level or higher courses. 11.0

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 go grade lower than a B- in Secondary Education courses.
- 3 Residency hours - minimum of 30 credit hours through course attendance at UVSC, with at least 10 hours in the last 45 hours.

Minor in Theatre Arts 21 CREDITS

Matriculation Requirements:

- 1 Admitted to a bachelor degree program at UVSC.

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
or 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

Technology Management

Department Chair: David Johnson

Office: GT 616c
Telephone: 801-863-6152

Faculty:

Associate Professor
Floyd Olson
Assistant Professor
Cheryl Hanewicz

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

Advisory Committee: Scott Atkinson, Caldera Engineering; Brad Norris, Mellor Engineering Corporation; John Osborne, BMS Building Materials; Leonard Pavia, MKS Services; Korie Roscher, Micron; Scott Seals, Mountain States Steel; Darrick Smith, UVSC; David Sorensen, MEP

School of Technology and Computing

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

The Technology Management program has a multi-disciplinary focus and is designed for students who want to add management skills to a chosen technology area. Students may enter the program with an AAS degree in an approved technical area or an AS degree containing at least 45 credit hours in an approved technical specialty. Students may also enter the program as freshmen and take their technology and management courses concurrently.

We view Technology as the practical application of knowledge, or a capability given by such, and see Management skills as keys that help bring innovation and change along with efficiency, effectiveness, continuity, quality, and safety to the process. In addition, we recognize the responsibility that all of us have to understand the impact of technology on society and to address the social and moral issues associated with the appropriate use of technology.

While the Technology Management Program was one of the first to offer a four-year degree at UVSC, it is also dynamic and changing to reach interested students and to add flexibility in meeting individual

needs. 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.

PROGRAMS

Bachelor of Applied Technology 123 CREDITS

Matriculation Requirements:

1. Have completed an AAT degree from UCAT in a sponsoring School at UVSC (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: 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

Discipline Core Requirements: 84 Credits

- Complete AAT Degree in Community Health or Information Technology 60.0
- 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 3.0

- MGMT 4220 Management Communication (3.0)
- MGMT 3320 Cross-Cultural Communications for International Business (3.0)

SUPERVISION: Complete one of the following courses 3.0

- DGM 3290 Developing Digital Media for Instruction and Training (3.0)
- TECH 3400 Project Management (3.0)

TEAM BUILDING 3.0

- MGMT 3500 Leadership Process 3.0

Elective Requirements: 16 Credits

- Complete a minimum of one of the following courses: 3.0
- INFO 3120 Principles of Information Systems--A Managerial Approach (3.0)
 - LEGL 3000 Business Law (3.0)
 - MGMT 3000 Organizational Behavior (3.0)
 - MGMT 3170 Entrepreneurship (3.0)
 - MGMT 3440 Managing Organizations (3.0)
 - MGMT 3600 Principles of Marketing (3.0)

Technology Management

- 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 4200 Technology Marketing and Distribution (3.0)

Upper-Division Discipline-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 UVSC, with at least 10 hours earned in the last 45 hours

Notes: ENGL 1010, MATH 1050, Social/Behavioral Science completed in the AAT degree. Students desiring to take more than three 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 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: 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)
- One course that requires MATH 1050 as a prerequisite (excluding MATH 1060)
- An Advanced Placement (AP) Mathematics Test with a score of 3 or higher

Complete one of the following: 3.0

- HIST 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
 - TECH 2000 Technology and Human Life (Fulfills Social/Behavioral Science) 3.0

Discipline Core Requirements: 30 Credits

Meet with Technology Management advisor to complete a degree plan prior to enrollment in Technology Management courses.

- TECH 3000 Introduction to Technology Management 3.0
- TECH 3010 Creativity Innovation and Change Management 3.0

or MGMT 3170 Entrepreneurship 3.0

- TECH 3400 Project Management 3.0
- TECH 3850 Quality Assurance in Technology 3.0
- TECH 4050 Global Ethical and Professional Issues in Technology 3.0

- TECH 4420 Organization Information Technologies 3.0

- TECH 4820 Current Topics in Technology Management 2.0

- TECH 4910 Senior Capstone Project 3.0

- ACC 3000 Financial Managerial and Cost Accounting Concepts 4.0

- MGMT 3430 Human Resource Management 3.0

Emphasis Requirements: 45 Credits

Technology Management

See specific Technical Area for the 45 credit requirement. 45.0

Elective Requirements: 15 Credits

- Complete 15 credits from the following: 15.0
- 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.
- Students may select up to 9 credits of other upper division technology related courses with advisor approval.

Graduation Requirements:

- 1 Completion of a minimum of 125 semester credits
- 2 Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
- 3 Residency hours--minimum of 30 credit hours through course attendance at UVSC, with at least 10 hours earned in the last 45 hours.
- 4 Completion of GE and specified departmental requirements.

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 Air Conditioning and Refrigeration Technology 47 Credits

Emphasis Requirements: 47 Credits

Complete the following:

- ACRT 1110 Refrigeration I 10.0
- ACRT 1210 Refrigeration II 9.0
- ACRT 1220 Basic Electricity and Motor Controls 5.0
- ACRT 2320 Motors--Controls and Wiring Diagrams 5.0
- ACRT 2340 Commercial Refrigeration Theory 4.0
- ACRT 234L Commercial Refrigeration Lab 5.0
- ACRT 2440 Commercial Refrigeration Heating and Air Conditioning Theory 4.0
- ACRT 244L Commercial Refrigeration Heating and Air Conditioning Lab 5.0

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 AVC courses. 36.0

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 HVACR 2.0

- AUT 2250 Electronic Fuel Management Systems 2.0
- Complete 5 credits from the following: 5.0
- AUT 201R Automotive Service Practicum (2.0)
- AUT 281R Cooperative Work Experience (1.0)

Specialization in Aviation Science 45 Credits

Emphasis Requirements: 39 Credits

- AVSC 1010 Survey of Aviation Science 2.0
- AVSC 1100 Ground Private Pilot 4.0
- AVSC 1110 Flight Private Pilot Certification 3.0
- AVSC 1220 Ground Commercial Pilot--Phase I 1.0
- AVSC 1230 Flight Commercial Pilot--Phase I 3.0
- AVSC 1240 Ground Instrument Pilot 4.0
- AVSC 1250 Flight Instrument Pilot Rating 2.0
- AVSC 2150 Air Transportation Management 3.0
- AVSC 2160 Aviation Law 3.0
- AVSC 2300 Ground Commercial Pilot--Phase II 2.0
- AVSC 2310 Flight Commercial Pilot--Phase II 3.0
- AVSC 2440 Ground Multi-Engine 1.0
- AVSC 2450 Flight Multi-Engine 1.0
- AVSC 281R Cooperative Work Experience (Must repeat 3 times) (1.0) 3.0
- AVSC 285R Cooperative Related Class 1.0
- METO 1010 Introduction to Meteorology 3.0

Elective Requirements: 6 Credits

Complete 6 credits from the following:

- AVSC 1020 Aircraft Identification (1.0)
- AVSC 2330 Theory of Instruction (1.0)
- AVSC 2400 Ground Certified Flight Instructor (3.0)
- AVSC 2410 Flight Certified Flight Instructor (1.0)
- AVSC 2420 Ground CFI Instrument (1.0)
- AVSC 2430 Flight CFI Instrument (1.0)
- AVSC 2500 Ground Multi-Engine Instructor (1.0)
- AVSC 2510 Flight Multi-Engine Instructor (1.0)
- AVSC 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 2860 SkillsUSA (1.0)
- AVSC 475R Current Topics in Aviation (1.0)

Specialization in Building Construction and Construction Management 45 Credits

Emphasis Requirements: 45 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 1270 Construction Scheduling 2.0
- 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

Specialization in Building Inspection Technology 45 Credits

Emphasis Requirements: 45 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
- EGDT 1400 Surveying 4.0
- EGDT 1600 Technical Math--Algebra 3.0

- FSO 2030 Fire Inspector I 3.0

Specialization in Cabinetry and Architectural Woodwork 45 Credits

Emphasis Requirements: 45 Credits

Complete 45 credits from the following:

- CAW 1130 Residential Cabinetry (4.0)
- CAW 1140 Millworking and Safety Shop I (5.0)
- CAW 1150 Design Drafting and Billing (3.0)
- 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 Up-keep (2.0)
- CAW 2430 Commercial Cabinetry Technology (4.0)
- EGDT 1040 Computer Aided Drafting--AutoCAD (3.0)

Specialization in Carpenter Union Apprentice (JATC) 45 Credits

Emphasis Requirements: 45 Credits

- APPR 1800 Carpenter Apprentice 1A 5.0
- APPR 1810 Carpenter Apprentice 1B 5.0
- APPR 1820 Carpenter Apprentice 2A 5.0
- APPR 1830 Carpenter Apprentice 2B 5.0
- APPR 1840 Carpenter Apprentice 3A 5.0
- APPR 1850 Carpenter Apprentice 3B 5.0
- APPR 1860 Carpenter Apprentice 4A 5.0
- APPR 1870 Carpenter Apprentice 4B 5.0
- BCCM 281R Cooperative Work Experience (Must be repeated 4 times) (1.0) 4.0
- BCCM 285R Cooperative Correlated Class 1.0

Specialization in Collision Repair Technology 45 Credits

Emphasis Requirements: 45 Credits

- CRT 1120 Nonstructural Repair 4.0
- CRT 1130 Overall Refinishing and Problem Solving 4.0
- CRT 1210 Blending Tinting and Detailing 4.0
- CRT 1220 Panel Replacement and Adjustment 4.0
- CRT 1230 Welding and Cutting 4.0
- CRT 2310 Collision Damage Reporting 4.0
- CRT 2320 Structural Damage Analysis 4.0
- CRT 2330 Structural Repair 4.0
- CRT 2410 Full and Partial Panel Replacement 4.0
- CRT 2420 Plastic Repair 4.0
- CRT 2430 Mechanical and Electrical Repair 4.0
- CRT 299R VICA 1.0

Specialization in Diesel Mechanics Technology 48 Credits

Emphasis Requirements: 48 Credits

- DMT 1110 Diesel Engine Overhaul 4.0
- DMT 111L Diesel Engine Overhaul Lab 2.0
- DMT 1120 Diesel Engine Operation/Tune Up 4.0
- DMT 112L Diesel Engine Operation/Tune Up Lab 2.0
- DMT 1510 Electrical Systems Theory 4.0
- DMT 151L Electrical Systems Lab 2.0
- DMT 1520 Engine Electronics and Diagnostics 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

Specialization in Drafting Technology 45 Credits

Emphasis Requirements: 45 Credits

Complete the following:

- EGDT 1010 Electrical-Electronic Drafting 3.0
- EGDT 1040 Computer Aided Drafting--AutoCAD 3.0
- EGDT 1070 3 Dimensional Computer Modeling 3.0
- EGDT 1080 AutoLisp 2.0

Technology Management

• EGDТ 1100	Architectural Drafting	3.0
• EGDТ 1200	Mechanical Drafting	3.0
• EGDТ 1300	Structural Drafting	3.0
• EGDТ 1400	Surveying	4.0
• EGDТ 2020	Descriptive Geometry	3.0
• EGDТ 2040	Piping Drafting	2.0
• EGDТ 2050	Plate Layout	2.0
• EGDТ 2600	Statics	3.0
• EGDТ 2610	Strength of Materials	3.0
Complete 8 credits from the following:		8.0
• EGDТ 1060	MicroStation (2.0)	
• EGDТ 2010	Advanced Electrical--CAD (2.0)	
• EGDТ 2100	Advanced Architectural--CAD (3.0)	
• EGDТ 2200	Advanced Mechanical--CAD (3.0)	
• EGDТ 2300	Advanced Structural--CAD (3.0)	
• EGDТ 2310	Structural Steel Modeling (3.0)	
• EGDТ 2400	Surveying Applications (4.0)	

Specialization in Electrical Automation and Robotics Technology 45 Credits

Emphasis Requirements:		44 Credits
• EART 1130	Basic Electrical	4.0
• EART 1050	Applied Electrical Math	5.0
• EART 1180	Basic Electrical Lab	5.0
• EART 1260	Logic	2.0
• 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 Circuit	5.0
• EART 2250	Programmable Logic Controllers 1	5.0

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:		45 Credits
• APPR 281R	Cooperative Work Experience (Must be repeated 4 times) (1.0)	4.0
• APPR 285R	Cooperative Correlated Class	1.0
• EART 1110	Electrical Apprentice 1A	5.0
• EART 1120	Electrical Apprentice 1B	5.0
• EART 1210	Electrical Apprentice 2A	5.0
• EART 1220	Electrical Apprentice 2B	5.0
• EART 2310	Electrical Apprentice 3A	5.0
• EART 2320	Electrical Apprentice 3B	5.0
• EART 2410	Electrical Apprentice 4A	5.0
• EART 2420	Electrical Apprentice 4B	5.0

Specialization in Electrical Union Apprentice (JATC) 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 Facilities Management 45 Credits

Emphasis Requirements		45 credits
• ACRT 2420	Heating and Air Conditioning Controls	5.0
• BCCM 1120	Blueprint Reading	2.0
• BCCM 1270	Construction Scheduling	2.0
• BIT 1010	Building Codes	3.0
• BIT 1240	Plumbing Codes	3.0
• BIT 1330	Mechanical Codes	3.0
• BIT 1340	Electrical Codes	3.0
• EGDТ 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)	
• FAC 281R	Cooperative Work Experience (take twice) (1.0)	8.0
• FAC 285R	Cooperative Correlated Class (take twice) (1.0)	2.0
• MGMT 2200	Business Communications	3.0

Specialization in Fire Science 45 Credits

Emphasis Requirements:		45 Credits
Complete 45 credits from the following:		45.0
• PESM 3300	Public Program Administration (3.0)	
• PESM 3700	Master Planning for Public Emergency Services (3.0)	

• PESM 4100	Health and Safety Program Management (3.0)	
• PESM 4500	Managing Emergency Medical Services (3.0)	
• PESM 4900	Advanced Seminar in Public Emergency Services Leadership (3.0)	
• FSD 1330	Fundamentals of Apparatus Operation (3.0)	
• FSD 1340	Fire Apparatus Skill (3.0)	
• FSE 2500	Paramedic I (5.0)	
• FSE 2510	Paramedic I Lab (3.0)	
• FSE 2520	Paramedic II (7.0)	
• FSE 2530	Paramedic III (4.0)	
• FSE 2540	Paramedic IV (6.0)	
• FSE 2550	Paramedic Work Experience (6.0)	
• FSF 1000	Survey of Fire and Rescue Emergency Services (3.0)	
• FSF 1010	Firefighting Fundamentals I (3.0)	
• FSE 1140	Emergency Medical Technician--Basic (6.0)	
• FSF 1210	Firefighting Skills I (4.0)	
• FSF 1220	Firefighting Fundamentals and Skills II (3.0)	
• FSW 1400	Wildland Firefighting Fundamentals (4.0)	
• FSF 1310	Recruit Candidate Academy--Fundamentals (8.0)	
• FSF 1320	Recruit Candidate Academy--Skills (3.0)	
• FSF 1330	Recruit Candidate Academy--Operations (3.0)	
• FSF 1340	Hazardous Materials First Responder (3.0)	
• FSF 1350	Mathematics for the Fire Service (3.0)	
• FSH 2410	Hazardous Materials Technician Fundamentals (3.0)	
• FSH 2420	Hazardous Materials Technician Skills (2.0)	
• FSH 2440	Hazardous Materials Chemistry (3.0)	
• FSO 2020	Incident Command (3.0)	
• FSO 2030	Fire Inspector I (3.0)	
• FSP 2310	Fire Investigator I (3.0)	
• FSO 2050	Fire Protection and Detection Systems (3.0)	
• FSO 2060	Fire Service Management and Administration (3.0)	
• FSO 2080	Building Construction for the Fire Services (3.0)	
• FSO 2090	Fire Officer I (3.0)	
• FSO 2100	Fire Supervision and Leadership (3.0)	
• FSO 2110	Fire Instructor I and II (3.0)	
• FSO 211A	Fire Service Instructor I (1.0)	
• FSO 211B	Fire Service Instructor II (2.0)	
• FSO 2200	Fire Officer Work Experience (3.0)	
• FSW 2500	Wildland/Urban Interface Fire Protection (3.0)	
• FSP 2320	Fire Investigator II (3.0)	
• FSP 2350	Public Fire Education I (2.0)	
• FSR 2180	Environmental Rescue (3.0)	
• FSR 2700	Technical Rescue Principles (3.0)	
• FSR 2740	Rope Rescue (3.0)	

Specialization in HVAC Apprentice 45 Credits

Emphasis Requirements:		45 Credits
• ACRT 281R	Cooperative Work Experience (Must be repeated 4 times) (1.0)	4.0
• ACRT 285R	Cooperative Correlated Class	1.0
• HVAC 1130	HVAC 1B	5.0
• HVAC 1150	HVAC 2B	5.0
• HVAC 1170	HVAC 3B	5.0
• HVAC 1190	HVAC 4B	5.0
• HVAC 1200	HVAC 1A	5.0
• HVAC 1220	HVAC 2A	5.0
• HVAC 2200	HVAC 3A	5.0
• HVAC 2220	HVAC 4A	5.0

Specialization in Industrial Maintenance Apprentice 45 Credits

Emphasis Requirements:		45 Credits
• APPR 281R	Cooperative Work Experience (Must be repeated 4 times) (1.0)	4.0
• 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:		10.0
• 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:		10.0
• 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)	

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	Computer Programming II for IS/IT	3.0
• INFO 2450	Web Application Design	3.0
• INFO 3030	Networks and Internetworking	3.0
• INFO 3410	Database Systems	3.0
• INFO 3430	Systems Analysis Design and Integration	3.0

Elective Requirements: 6 Credits

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 2640	Router Management (3.0)	
• INFO 2650	Voice and Data Cabling Fundamentals (3.0)	
• INFO 2660	Information Security--Fundamentals (3.0)	
• INFO 281R	Internship (1.0)	
• INFO 301R	Digital Lecture Series (1.0)	
• INFO 3420	Web Systems Development I (3.0)	
• INFO 3440	Enterprise Database Development (3.0)	
• INFO 3510	Advanced System Administration--Linux/UNIX (3.0)	
• INFO 3620	System Administration--Windows (3.0)	
• INFO 3630	Advanced System Administration--Windows Server (3.0)	
• INFO 3660	Information Security--Network Defense and Countermeasures (3.0)	
• Any approved Accounting- or Business-related Course up to 6 credits		

Specialization in Line 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

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

Technology Management

• LINE 1130	Lineman Applied DC Math	3.0
• LINE 1140	Basic Skill Development and Safety	4.0
• LINE 1210	AC Theory and Transformer Applications	4.0
• LINE 1220	Commercial Wiring	2.0
• LINE 1230	Lineman Applied AC Math	3.0
• LINE 1240	Single/Three-Phase Lines and Safety	4.0
• LINE 2310	Powerline Technician and Safety Code I	4.0
• LINE 2320	Industrial Wiring	2.0
• LINE 2330	Single and Polyphase Metering	2.0
• LINE 2340	Three-Phase Lines and Safety	5.0
• LINE 2410	Powerline Technician and Safety Code II	4.0
• LINE 2430	Substation Equipment	4.0
• LINE 2440	High Voltage Substation and Safety	4.0

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 Cinema 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 15.0
(see advisor)

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
• BCCM 281R	Cooperative Work Experience (Must be repeated 4 times) (1.0)	4.0
• 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

Specialization in

Welding Technology 46 Credits

Emphasis Requirements: 46 Credits

Complete the following:

• EGDT 1000	Basic Drafting	2.0
• WELD 1100	Essentials of Welding	8.0
• WELD 1200	Intermediate Arc Welding	6.0
• WELD 1210	Print Reading and Layout	6.0
• WELD 2300	Portable and Advanced Arc Welding	7.0
• WELD 2310	Welding Inspection	2.0
• WELD 2320	Metallurgy	4.0
• WELD 2400	Industrial Joining Processes	8.0
• WELD 2410	Advanced Blueprint and Design	3.0

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 4000	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 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 4000 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

Welding Technology

Department of Construction Technologies

Department Chair: Steve Fordham

Office: GT 601
Telephone: 801-863-8167

Program Coordinator:

Office:
Telephone:

Faculty:

Instructor

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

Advisor: Amy Ostler
Telephone: 801-863-8138

Advisory Committee: Daryn Smith, United States Welding; Mike Young, Liberty Safe; Jim Truitt, Miller Electric; Kent Barber, Barber Welding; Kurt Spencer, Lincoln Electric; William "Buddy" Diemler, State of Utah; Steve Robertson, Flowserve; Skip Peterson, Earth Tech Testing and Engineering; Steve Anderton, EZARC Welding; Shane Cummings, Praxair; Chad Cornaby, Cornaby Railing.

School of Technology And Computing

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

CAREER OPPORTUNITIES

The Welding Technology program is closely coordinated with business and industry needs to provide concentrated courses in manipulative and technical skills required for the various welding fields. Course content includes state-of-the-art training in such welding skills as oxyacetylene, arc, resistance, shielded metal, braze, soft soldering and hardfacing, mig and tig welding, and plastic welding. Students will gain experience using manual, semi-automatic, and automatic welding machines. The program includes familiarization with computer programming of welding machines with digital functions.

Upon successful completion of this program, students should be prepared to meet business and industry standards for entry-level jobs in the various welding and metals fields. Their training in the Welding Technology program will prepare them for employment as welders, boilermakers, iron workers, pipe fitters, mechanics, maintenance welders, fabricators, construction welders, layout persons, and quality control.

PROGRAMS

Students may receive a Diploma, an Associate in Applied Science degree, or a Bachelor of Science Degree in Technology Management.

Diploma in

Welding Technology **55 CREDITS**

Discipline Core Requirements: **55 Credits**

Complete the following:

• CLSS 1000	Student Success (3.0)	
or ENGL 106A	Career Writing for Technology--A	2.0
• EGDT 1000	Basic Drafting	2.0
• HLTH 1200	First Aid	2.0
• WELD 1100	Essentials of Welding	8.0
• WELD 1200	Intermediate Arc Welding	6.0
• WELD 1210	Print Reading and Layout	6.0
• WELD 1250	Math for Welders	2.0
• WELD 2300	Portable and Advanced Arc Welding	7.0
• WELD 2310	Welding Inspection	2.0
• WELD 2320	Metallurgy	4.0
• WELD 2400	Industrial Joining Processes	8.0
• WELD 2410	Advanced Blueprint and Design	3.0
• Social/Behavioral Science		1.0
• MET 1350	Related Machine Shop Practice	2.0

AAS in

Welding Technology **64 CREDITS**

General Education Requirements: **16 Credits**

ENGLISH 2.0

• 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)	

QUANTITATIVE LITERACY 2.0

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

HUMANITIES/FINE ARTS/FOREIGN LANGUAGE 2.0

• PHIL 2050	Ethics and Values (3.0)	
• Any approved Humanities, Fine Arts, or Foreign Language Distribution Course		

SOCIAL AND BEHAVIORAL SCIENCE 2.0

• MGMT 3000	Organizational Behavior (3.0)	
• Any approved Behavioral Science, Social, or Political Science Distribution Course		

BIOLOGY OR PHYSICAL SCIENCE 2.0

• EGDT 1810	Principles of Technology (2.0)	
• Any approved Biology or Physical Science Distribution Course		

PHYSICAL EDUCATION/HEALTH/SAFETY OR ENVIRONMENT 1.0

• Any approved Physical Education, Health, Safety or Environment Course		
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ADDITIONAL CREDITS FROM ANY OF THE ABOVE 5.0

Discipline Core Requirements: **48 Credits**

Complete the following:

• EGDT 1000	Basic Drafting	2.0
• WELD 1100	Essentials of Welding	8.0
• WELD 1200	Intermediate Arc Welding	6.0
• WELD 1210	Print Reading and Layout	6.0
• WELD 1250	Math for Welders	2.0
• WELD 2300	Portable and Advanced Arc Welding	7.0
• WELD 2310	Welding Inspection	2.0
• WELD 2320	Metallurgy	4.0
• WELD 2400	Industrial Joining Processes	8.0
• WELD 2410	Advanced Blueprint and Design	3.0

Recommended Courses:

• DGM 1000	Keyboarding Basics (1.0)	
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Welding Technology

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 UVSC.
4. Completion of GE and specified departmental requirements.

BS in Technology

Management **124 CREDITS**

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

Specialization in

Welding Technology **46 Credits**

Emphasis Requirements: **46 Credits**

Complete the following:

• EGDT 1000	Basic Drafting	2.0
• WELD 1100	Essentials of Welding	8.0
• WELD 1200	Intermediate Arc Welding	6.0
• WELD 1210	Print Reading and Layout	6.0
• WELD 2300	Portable and Advanced Arc Welding	7.0
• WELD 2310	Welding Inspection	2.0
• WELD 2320	Metallurgy	4.0
• WELD 2400	Industrial Joining Processes	8.0
• WELD 2410	Advanced Blueprint and Design	3.0

Due to the technical nature of the material in these courses, additional reading and math instruction may be required. More information will be given during advisement.

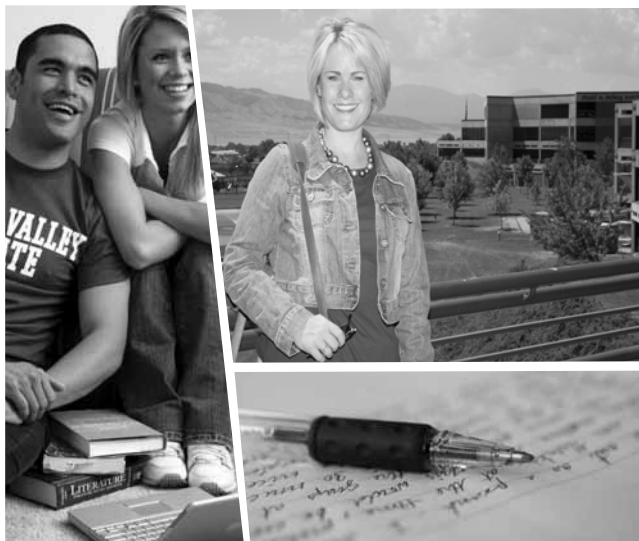
See Apprenticeship section of the catalog for welding related apprentice classes.

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

School of Continuing and Adult Education

School of Continuing and Adult Education



The School of Continuing Education has specially designed courses and programs to serve non-traditional students. Continuing Education offers credit and non-credit education to provide lifelong learning opportunities for the many diverse educational needs of the individual and the community.

Success.

The School of Continuing Education has specially designed courses and programs to serve non-traditional students. Continuing Education offers credit and non-credit education to provide lifelong learning opportunities for the many diverse educational needs of the individual and the community.

ASSISTANT VICE PRESIDENT/DEAN:

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

Office: Continuing Education Center
Telephone: 801-863-8450

Non-Credit Registration Center

Supervisor: Olena Hunt
Office: CE 104
Telephone: 801-863-8399

Command Spanish ®

Coordinator: Desi Cusak Schmauch
Office: CE 301
Telephone: 801-863-7429

Community and Adult Education

Manager: Diana Hunter
Office: Continuing Education Center
Telephone: 801-863-7427

Conferences and Workshops

Coordinator: Luella Jones
Program Coordinators: Connie Vincent, Annalee Barney, Karlie Coles
Administrative Assistant: Alisyn Sorensen
Driver Education: Sharylann Goertzen
Office: Continuing Education Center 2
Telephone: 801-863-8485

Elderhostel

Coordinator: Gary Nielsen
Program Assistant: Kathleen Pribyl
Office: Continuing Education Center 2
Telephone: 801-863-8495

Utah Valley Elder Quest

Program Assistant: Kathleen Pribyl
Office: Continuing Education Center 2
Telephone: 801-863-8490

Equity in Education: Training and Resource Center

Director: Jenny L. Chamberlain
Office: FA 701
Telephone: 801-863-8498
Website: www.uvsc.edu/conted/equity

Turning Point

Director: Carol Verbecky
Assistant Director: Dixie Severson
Office: MT 116
Telephone: 801-863-7580

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/UVSC Horticulture Program

Program Coordinator/Advisor: Mike Caron
Office: CE 105
Teaching Greenhouse: 935 S. 400 W.
Telephone: 801-863-8042

Continuing and Adult Education

Continuing and Adult Education

School of Continuing and Adult Education

Dean: Pamela J. Gardner
Office: CE 205
Telephone: 801-863-8779

Assistant Dean, Marketing:
Diana Hunter
Office: CE 208
Telephone: 801-863-7427

PURPOSE

The School of Continuing Education has designed courses and programs to provide lifelong educational opportunities for people with diverse educational needs—

- 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 semester class schedule for detailed information.

FINANCIAL AID

A varied and comprehensive program of financial aid is available to all students at the College 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 credit and 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 College, 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 consult the semester class schedule for detailed information, or contact Continuing Education 801-863-8450.

CENTER FOR LIFELONG LEARNING

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®

Coordinator: Desi Cusak Schmauch
Office: CE 301
Telephone: 801-863-7429

The School of Continuing Education at Utah Valley State College (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 that 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.

UVSC 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

UVSC/Alpine School District
Community Education Manager:
Diana Hunter
Telephone: 801-863-7427
UVSC Coordinator: DeLayna Crockett
Telephone: 801-863-8010
Office Manager: Sally Menefee
Telephone: 801-863-8012

UVSC and Alpine School District: A unique and effective partnership exists between UVSC 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 UVSC main campus, UVSC West Education Center, at several school buildings within Alpine and Provo School Districts 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 most 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 throughout the community. It is also available on-line on the UVSC web site, at the Continuing Education Offices on the Main Campus, at the Education Center at UVSC 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 gain 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, 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.

ELDERHOSTEL

Coordinator: Gary Nielsen
Office: Continuing Education Center
Telephone: 801-863-8495
Program Assistant: Kathleen Pribyl
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. UVSC Elderhostel hosts over 35 programs per year with active outdoor activities and fascinating evening courses.

ELDER QUEST

Program Assistant: Kathleen Pribyl
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 State Elder Quest reaches out to all seniors in Utah County.

CONFERENCES & WORKSHOPS

Department Coordinator: Luella Jones
Program Coordinator: Connie Vincent
Program Coordinator: Annalee Barney
Program Coordinator: Karlie Coles
Driver Education: Sharylann Goertzen
Office: Continuing Education
Administrative Assistant: Alisyn Sorensen
Office: Continuing Education II,
1066 South 400 East
Telephone: 801-863-8894
Website: www.uvsc.edu/conted/c&w

Conferences & Workshops is committed to offering courses, seminars, workshops and conferences that encompass professional development, training, upgrading and/or career enhancement opportunities. Often these events are held in conjunction with on-campus departments, educational associations or business in the community.

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 and the working poor.
- 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
- 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, dressing 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.

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

Continuing and Adult Education

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, resuming dating, etc. Successful Life Management is a pre-requisite.

ADDITIONAL SERVICES:

Wee Care Childcare Center

The Wee Care Center is designed to meet the childcare needs of student parents. Children may receive care during the hours their parent attends UVSC, 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 UVSC 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.

DRIVER EDUCATION

Program Coordinator: Sharylann

Goertzen

Office: CE2-1017
Telephone: 801-863-6157
E-mail: goertzh@uvsc.edu
Web-Site: www.uvsc.edu/conted/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.uvsc.edu/disted/php/drivers_ed/

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.

EQUITY IN EDUCATION: TRAINING AND RESOURCE CENTER

Director: Jenny L. Chamberlain
Office: FA 701
Orem, UT 84058
Telephone: 801-863-8498
website: www.uvsc.edu/conted/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 technical assistance, 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 illustrates connections, 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.)

USU/UVSC HORTICULTURE PROGRAM

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

The USU/UVSC Horticulture Program is a partnership between Utah State University and Utah Valley State College. 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 UVSC campus and surrounding area. Currently USU offers classes at UVSC 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 UVSC 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 UVSC students can earn the USU AAS in Horticulture while also working on their Bachelors degree from UVSC, 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 UVSC) 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/UVSC HORTICULTURE CLASSES

Proposed Schedule*

The one-year certificate in Horticulture from USU is also available. It is anticipated that these classes will fill the elective credit section for UVSC students pursuing their BS in Biology (with advising). Other students on campus may also enroll, with proper advising. Students will fill any general education and other university studies classes at UVSC. It is the intent of this program partnership to 1) improve the curriculum/degree offering at UVSC by bringing in an outside program (Horticulture) that they currently cannot offer, and 2) to create a worthwhile working cooperative partnership between Utah State University and UVSC to better fill the University Center initiative, and 3) to provide a background of applied science to science (or any other) majors to help give them better options when looking at professional schools or employment. The partnership will be unique in its scope and implementation, and will better serve the students that we all serve.

Classes will be held during the day (2days perweek), or if held in the evening, then 1 night per week.

Fall Semester 2007
PLSC 3800 (3) Turfgrass Mgmt Lawson Late Afternoon
PLSC 3700 (4) Plant Propagation Caron (Day)
PLSC 3400 (3) Sustainable Landscapes Caron (Day)

Spring Semester 2008
PLSC 3050 (4) Greenhouse Mgt/Crop Prod Caron Evening
SOIL 3000 (4) Fundamental Soil Science Isaman (Day)
PLSC 2100 (3) Intro to Horticulture Caron (Day)

*Subject to change

PLSC 2250 (1-4) Cooperative Work Experience in Horticulture (Arranged: Caron) offered each semester - students must have at least 1 credit.

PLSC 2900 (1-4) Special Problems in Horticulture (Arranged: Caron) offered each semester

Number of different courses offered: 15

Total credits offered: 33.5 plus 1-4 on Internship (PLSC 2250), plus 1-4 on Special Problems (optional)

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, landscaping, 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

Continuing and Adult Education

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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Course Descriptions

Catalog 2007-2008



With a commitment to small class sizes, instruction at Utah Valley State College is delivered on a personal level where students work alongside instructors both in and outside of the classroom. Students have opportunities to start their own business, participate in research, engage in lab experiences and reach out to the community through service and leadership organizations. A UVSC education offers application for improving the lives of students and preparation for meaningful careers. Here, students come first.

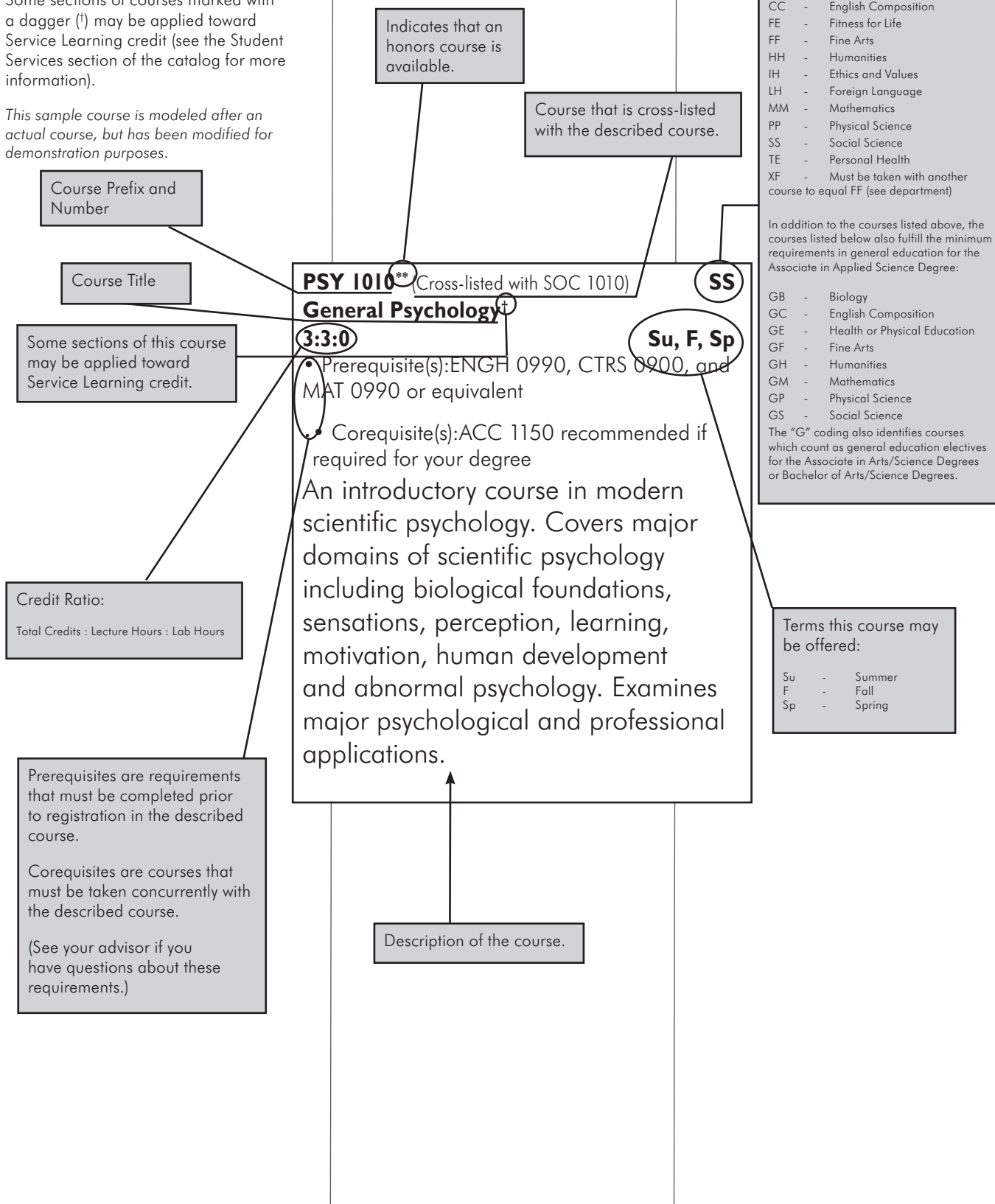
Success.

Course Descriptions

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.



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 2020
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 2100
Payroll Accounting
3:3:0 **F**

• Prerequisite(s): ACC 2010

Designed for accounting majors and as elective credit for other business majors. Comprehensive coverage of payroll laws, calculations, registers, taxes, compliance, and accounting entries. Laboratory experiences include manual and automated payroll methods.

ACC 2610
Accounting Systems Applications
3:3:1 **Sp; 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 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

Provide students in computer science and the technologies with knowledge of financial, managerial, and cost accounting concepts and applications. Prepares students to gain knowledge of accounting information systems and to utilize accounting information in making business decisions.

ACC 3010
Intermediate Accounting I
3:3:0 **Su, F, Sp**

• Prerequisite(s): ACC 2010 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 3300
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

Teaches students to prepare simple federal and state income tax returns and provides opportunities for practical application and service learning through participation in the income tax clinic. 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 3800 (Cross-listed with: LEGL 3800)
Fraud Examination
3:3:0 **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,

Course Descriptions

prevention, and resolution.

ACC 4020

Advanced Financial Accounting

3:3:0

Su, F, Sp

• Prerequisite(s): ACC 3020 and Matriculation into the Bachelor's Degree Program

Presents accounting concepts and methods for business combinations, foreign currency transactions, foreign statement translation, and partnerships.

ACC 4030

Governmental and Not-For-Profit Accounting

3:3:0

Su, F, Sp

• Prerequisite(s): ACC 3010 and Advanced Standing in the BS Accounting degree program

Covers areas of governmental and not-for-profit accounting and reporting. Includes fund accounting, the budgetary process, governmental financial reporting, not-for-profit organizations, health care organizations, colleges and universities, and public sector auditing.

ACC 4110

Auditing

3:3:0

Su, F, Sp

• Prerequisite(s): ACC 3010 and ACC 3300 and Advanced Standing in the BS Accounting degree program

Teaches auditing concepts and procedures covering examination of financial statements, internal control, disclosure, statistical sampling concepts, and EDP auditing techniques.

ACC 4350

Management Control

3:3:0

Sp

• Prerequisite(s): ACC 2020 and Advanced Standing in the BS Accounting 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 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 481R

Internship

2 to 8:0:10 to 40

Su, F, Sp

• Prerequisite(s): Approval of School of Business Career and Corporate Manager

For upper-division students in accounting. Provides a transition from school to work where learned theory is applied to actual practice through meaningful on-the-job paid experience commensurate with upper-division classroom instruction. Includes student, employer, and coordinator evaluations, on-site work visits, written assignments, and oral presentations. Completers should obtain experience in establishing and accomplishing individualized work objectives that improve work performance.

ACC 4870

International Accounting

3:3:0

On Sufficient Demand

• Prerequisite(s): ACC 3020, all international business courses, Senior standing and Matriculation into Business Management degree program

For accounting majors and other interested students. Examines accounting functions from an international perspective.

Focuses on flow of information in multiple currencies, complying with reporting requirements in the U.S. and abroad.

Studies setting budgets and monitoring performance and controlling the use of corporate assets through reports and audits. Successful completers should have a thorough knowledge of organizational structure and services provided by large public accounting firms with international clients.

ACC 4880

Accounting Policy

3:3:0

On Sufficient Demand

• Prerequisite(s): ACC 3020 and Matriculation into the Bachelor's Degree Program

A capstone course for accounting majors. Integrates economics, finance and management, financial accounting and reporting, analysis and behavior issues, operational auditing/internal control, research (FASB), and decision analysis, and information systems. Prepares students for the dynamic role that management accountants and financial managers play in business, public, and governmental accounting.

ACC 4890

CMA Review

3:3:0

On Sufficient Demand

• Prerequisite(s): ACC 3020 and ACC 3300

A preparatory course for taking the CMA (Certified Management Accountant) exam. Covers all four parts of the exam. Part 1: Economics, Finance and Management; Part 2: Financial Accounting and Reporting; Part 3: Management Reporting, Analysis, and Behavioral Issues; Part 4: Decision Analysis and Information Systems. Prepares students for exam given in June and December.

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 07-08

An introductory course which allows students to explore the opportunities available in the challenging and rewarding fields of Air Conditioning, Refrigeration, Heating, and Sheet Metal work. Covers theories, physics, and principles of various refrigeration and air conditioning systems. Includes hands-on practice with flaring and welding copper tubing.

ACRT 1110

Refrigeration I 10:5:15 Not 07-08

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 07-08

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 07-08

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 07-08

For entry-level Refrigeration majors. Runs concurrently with ACRT 1110. Solves math-based problems in air conditioning and refrigeration. Deals with pressure and temperature of gases. Covers physics pertaining to the refrigeration field. Emphasizes calculation of mechanical drivers, compressor capacity and heat load. Gives opportunities to work with psychometric charts and Mollier diagrams.

ACRT 1210

Refrigeration II 9:4:15 Not 07-08

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 07-08

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 07-08

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 07-08

For second semester Refrigeration majors and interested Refrigeration and Air Conditioning service personnel desiring skill upgrading. Runs concurrently with ACRT 1210. Oriented to the refrigeration industry. Covers basic AC and DC electrical theory. Explains magnetism, induction, and generation of electricity. Covers Ohm's Law. Includes hands-on experience with motors and controls. Includes theory and practice in electrical wiring according to the National Electrical Code. Emphasizes safety principles and practices.

ACRT 2320

Motors--Controls and Wiring Diagrams 5:5:0 Not 07-08

For Refrigeration and Air Conditioning Technology majors and interested community members. Studies electric motor theory, electrical schematic diagrams and controls for refrigeration, heating, and cooling systems. Covers characteristics and uses of electric motors for refrigeration, heating and cooling systems. Emphasizes reading electrical symbols and wiring diagrams for heat pumps, gas heat systems, and cooling controls. Stresses safety practices. Should be taken concurrently with ACRT 2310.

ACRT 2330

Sheet Metal Layout 1:0:3 Not 07-08

For heating, ventilation, and air conditioning students. Includes hands-on experience in layout, fabrication, and assembly of sheet metal ducts. Students will also become acquainted with sheet metal hand tools, equipment, and safe usage. Practice is given in geometric drawings.

ACRT 2340

Commercial Refrigeration Theory 4:4:0 Not 07-08

• Prerequisite(s): ACRT 1110, ACRT 1210 or equivalent
For third semester Air Conditioning and Refrigeration Technology majors and those interested in upgrading commercial refrigeration knowledge and or skills. Covers various types of current commercial refrigeration systems and controls. Includes theory of installing, operating, servicing, and trouble shooting equipment. Emphasizes electrical and electronic controls that are used on these systems.

ACRT 234L

Commercial Refrigeration Lab 5:0:15 Not 07-08

• 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

Course Descriptions

various types of current commercial refrigeration systems and controls. Includes lab hands-on experience with installing, operating, servicing, and trouble-shooting equipment. Emphasizes electrical and electronic controls that are used on these systems.

ACRT 2420

Heating and Air Conditioning Controls

5:5:0 Not 07-08

• 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 07-08

• 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 07-08

• 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 07-08

• 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 07-08

• 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. Completers should be better able to perform in their field of work or study.

ACRT 299R

SkillsUSA

1:1:0 Not 07-08

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.

AERO—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.

AERO 1110

Aerospace Defense General Purpose and Support Forces

1:1:0 Sp

• Corequisite(s): AERO 1010

Studies U.S. Air Force Defensive Forces, General Purpose Forces, and Tactical Air Forces.

AERO 143R

Air Force Physical Training

0.5:0:2 F, Sp

• Corequisite(s): AERO 1000

Prepares students for the physical demands placed upon them at Air Force Field Training encampment normally attended between their sophomore and junior years. Provides leadership opportunities and tests a cadet's physical fitness. Repeats are allowed. See advisor for details. May be repeated for a maximum of four credits.

AERO 2000

Leadership Laboratory 2A

0.5:0:2 F

Teaches fundamentals of military leadership: drill, courtesy, planning, and organizing at various levels of responsibility. Increased emphasis on performance level.

AERO 2010

Leadership Laboratory 2B

0.5:0:2 Sp

Teaches fundamentals of military leadership: drill, courtesy, planning, and organizing at various levels of responsibility. Increased emphasis on performance level.

AERO 2100

The Developmental Growth of Air Power-A

1:1:0 F

• Corequisite(s): AERO 2000

Studies development of various concepts of air power employment, emphasizing factors that have prompted research and technological change.

AERO 2110

The Development and Growth of Air Power-B

1:1:0 Sp

• Corequisite(s): AERO 2010

Studies development of various concepts of air power employment. Emphasizes factors that have prompted research and technological change.

AERO 3000

Leadership Laboratory 3A

0.5:0:2 F

Teaches basic fundamentals of military leadership: drill, courtesy, planning, and organizing at various levels of responsibility. Students perform as cadet officers. Emphasizes leadership development.

Course Descriptions

AERO
AMST
ANTH

AERO 3010
Leadership Laboratory 3B
0.5:0:2 Sp
Teaches basic fundamentals of military leadership: drill, courtesy, planning, and organizing at various levels of responsibility. Students perform as cadet officers. Emphasizes leadership development.

AERO 305R
Leadership Laboratory Honor Guard
1:0:3 F, Sp
Teaches basic fundamentals of military leadership: drill, courtesy, planning, and organizing at various levels of responsibility. Emphasizes leadership development. Students perform as cadet officers. Repeats are allowed. See advisor for details. May be repeated for a maximum of eight credits.

AERO 3100
Management and Leadership-A
3:3:0 F
Introduces students to the United States Air Force (USAF) and the Reserve Officer Training Corps (ROTC). Includes conflict management, followership, leadership responsibility, officership, and process improvement.

AERO 3110
Management and Leadership-B
3:3:0 Sp
Introduces students to the United States Air Force (USAF) and the Reserve Officer Training Corps (ROTC). Includes conflict management, followership, leadership responsibility, officership, and process improvement.

AERO 3200
Jet Pilot Introduction
2:2:0 F
Studies principles of flight and accompanying issues. Introduces meteorology. Presents FARs as they apply to the private pilot. Provides orientation, understanding, and preparation of the US Air Force Undergraduate Pilot Training (UPT).

AERO 399R
Academic Internship--Leadership Intern Program
4:0:8 Su
• 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.

AMST—AMERICAN STUDIES

AMST 2000
Introduction to American Studies
3:3:0 Sp
• Prerequisite(s): ENGL 2010 or ENGL 2020
Introduces students to the interdisciplinary study of American culture. Employs insights and approaches from literature, history, art, sociology, anthropology, and political science. Analyzes a variety of texts and artifacts. Explores selected themes and issues central to American Studies.

AMST 300R
Topics in American Studies
3:3:0 F, Sp
• Prerequisite(s): ENGL 2010 or ENGL 2020
Uses an interdisciplinary approach to study various topics and themes in American Studies. Topics might include Western American Culture, Nature and Culture, Popular Culture in America, Mass Media in America, etc. May be repeated for up to six credits toward graduation.

ANTH—ANTHROPOLOGY

ANTH 1010
Social/Cultural Anthropology
3:3:0 Su, F, Sp; DE
Introduces students to the variability of human behavior cross-culturally and provides an understanding of the holistic approach to human behavior. Explores interrelationships, in a variety of cultural contexts, between beliefs, economic structures, sexuality, eating habits, ecology, politics, living arrangements, psychology, symbolism, and kinship.

ANTH 1020 (Cross-listed with: BIOL 1500) SS
Biological Anthropology
3:3:0 F
Introduces the basic scientific methods and findings of biological anthropology and provides meaningful context by relating them to the larger contexts of evolutionary biology, nonhuman primatology, psychology, archeology, and sociocultural anthropology. Describes history of the discipline and its controversies. Studies genetics, natural selection, comparative anatomy, forensics, and field paleoanthropology.

ANTH 1030
World Prehistory
3:3:0 F
Introduces the archaeological record of human prehistory. Explores the earliest fossil remains and follows the development of humans throughout prehistory. Examines techniques used by archaeologists to find, recover, date and analyze prehistoric artifacts.

ANTH 1070 SS
Multicultural Societies
3:3:0 F
For students who desire to broaden their cultural awareness. Examines societies and cultures within the kinships, beliefs, values and political backgrounds related to differing ethnic groups. Provides a forum for constructive interaction among people of differing economic, social, racial, ethnic and religious backgrounds.

ANTH 1800 (Cross-listed with: HIST 1800) SS
Introduction to American Indian Studies
3:3:0 F
Provides overview of modern and historical American Indian communities in the United States. Explores political and historical issues of major tribes and Indian communities by region. Provides students with information and perspectives on key social and cultural issues: spirituality, relations with the Federal government, notable individuals, art, literature, dance, media, health, education and activism.

ANTH 2030
Ancient Anthropology
3:3:0 Sp
Explores the history, goals, theories, and methods of anthropological and archaeological research, especially as influenced by the natural sciences. Examines variations in prehistoric human behavior by analyzing the physical remains of ancient peoples throughout diverse time periods and geographical locations.

ANTH 275R
Survey of Current Topics
3:3:0 On Sufficient Demand
• Prerequisite(s): (ANTH 1010 or PSY 1010 or SOC 1010) and ENGL 1010
Presents selected topics in Anthropology and will vary each semester. Approaches subjects from a cross-disciplinary

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perspective. Requires a project demonstrating competency in the specific topic. May be repeated for a maximum of nine credits with different topics.

ANTH 3000 (Cross-listed with: LANG 3000)
Language and Culture
3:3:0 **Sp**
 • Prerequisite(s): ENGL 1010 and (ANTH 1010 or any foreign language 2010 course). Sophomore status required.

Introduces cultural linguistics. Analyzes features of human languages that make possible semantic universality. Examines distinction between phonetic and phonemic units. Explores relationship between language and culture. Studies how language shapes culture and how culture shapes language.

ANTH 3100
Anthropology of Gender and Sexuality
3:3:0 **F**
 • Prerequisite(s): ANTH 1010 and (ENGL 2010 or ENGL 2020)

Explores critical issues of gender and sexuality to better understand how these concepts appear within a variety of societies and contexts. Studies feminist anthropology and other anthropological writings challenging gender as an essential construct. Examines social movements that have developed around gender and sexuality.

ANTH 3130
Gender and Biomedicine
3:3:0 **On Sufficient Demand**
 • Prerequisite(s): ANTH 1010 and (ENGL 2010 or ENGL 2020); ANTH 3150 is suggested

Studies anthropological concepts of culture and gender to understand the science, technology and politics of reproductive health. Explores ethnographic case studies and the symbolism of the body. Examines the contested meanings of gender, personhood and society within diverse cultural and political settings.

ANTH 3150 (Cross-listed with: HLTH 3150) **SS**
Culture Ecology and Health
3:3:0 **Sp**
 • Prerequisite(s): ENGL 1010 and (ANTH 1010 or PSY 1010 or SOC 1010)

Examines reciprocal roles of culture, environment, and disease in human health. Covers nutrition, stress, and traditional non-Western treatments. Explores cultures' use of their own global medicine to sustain health and welfare.

ANTH 3200
Anthropology of Food
3:3:0 **On Sufficient Demand**
 • Prerequisite(s): (ANTH 1010 or SOC 1010) and (ENGL 2010 or ENGL 2020)

Explores the complex relationships between food and human action. Examines the biological and ecological underpinnings of human nutrition and the evolution of world cuisine, as well as the consequences of modernization for diet, nutrition, and health. Studies the selected social,

cultural, medical, political, ideological, and symbolic uses of food in both Western and non-Western societies.

ANTH 3220
Women Food and the Body
3:3:0 **On Sufficient Demand**
 • Prerequisite(s): ANTH 1010 and (ENGL 2010 or ENGL 2020)

Examines the complex ways food and women are connected through food's actions on women's physical, social, economic, and cultural bodies in today's global society. Explores society's treatment of women as food, including controversies surrounding breastfeeding, and women's roles as food preparers, providers, and servers. Studies the relationship of women, food, and body image cross-culturally.

ANTH 3300
Development and Rural Societies
3:3:0 **On Sufficient Demand**
 • Prerequisite(s): ANTH 1010 and (ENGL 2010 or ENGL 2020)

Examines the importance of agriculture and village life in an increasingly globalized world. Explores peasant studies and the many concerns of rural development. Also discusses poverty and how it relates to economic, social, and political development. Studies ways to ameliorate poverty and the role of governmental and non-governmental organizations in the process.

ANTH 3400
Myth Magic and Religion
3:3:0 **Sp**
 • Prerequisite(s): ANTH 1010 and (ENGL 2010 or ENGL 2020)

Explores the many aspects of religion, including its history, diversity, and how it relates to social science studies. Also examines terms such as myth, magic, religion, ritual and shamanism, among others, and how these items are used to discuss religious and spiritual practices around the world.

ANTH 3450
Shamanism and Indigenous Religion
3:3:0 **On Sufficient Demand**
 • Prerequisite(s): ANTH 1010 and (ENGL 2010 or ENGL 2020)

Studies the religious systems of indigenous peoples, particularly those which have been called shamanic. Focuses on the classical study of shamanism and the literature on indigenous shamanism. Locates the study of shamanism within a social context that includes social relational and political economic contexts of the groups within which shamanism is found. Poses questions of how shamanism is different from the expanding world religions and compares and contrasts shamanism with non-shamanic indigenous religions. Looks at the current marketing of shamanism in New Age contexts.

ANTH 3460
Anthropology of Mormonism
3:3:0 **F**
 • Prerequisite(s): ANTH 1010 and (ENGL 2010 or ENGL 2020); ANTH 3400 recommended

Examines the anthropological and sociological work on Mormonism, both the Church and Mormon society and culture. Studies Mormonism in a comparative framework, and will explore the question of the adequacy of the conceptual apparatus of a social science of religion for comprehending Mormonism.

ANTH 3500
Discourse Semiotics and Representation
3:3:0 **On Sufficient Demand**
 • Prerequisite(s): ANTH 1010 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.

ANTH 3550 (Cross-listed with: HIST 3550)
Memory and History
3:3:0 **On Sufficient Demand**
 • Prerequisite(s): ANTH 1010 and (ENGL 2010 or ENGL 2020)

Studies how societies remember and represent their past and present in various contexts. Examines how societies employ different senses of temporality in these processes. Explores the relationships with historiography and ethno history and how anthropologists and historians have dealt with these issues.

ANTH 360R
People and Cultures of the World
3:3:0 **Su, F, Sp**
 • Prerequisite(s): ENGL 1010 and (ANTH 1010 or SOC 1010)

Surveys selected cultures and peoples in ethnographically different areas of the world. Includes cultures such as: Africa, Far and Middle East, North and South America, Europe and the Pacific. Repeatable up to nine credits with different topics.

ANTH 3620 (Cross-listed with: PSY 3620, SOC 3620)
Intercultural Relations
3:3:0 **Su, F, Sp**
 • Prerequisite(s): (PSY 1010 or SOC 1010 or ANTH 1010) and (ENGL 2010 or ENGL 2020)

Investigates potential psychological, sociological, and anthropological techniques for transcending our own culture to more objectively study current hot spots involving the United States and other governments.

ANTH 3650
The Aging of America--Social and Health Policy Issues in the 21st Century

3:3:0 On Sufficient Demand
• Prerequisite(s): ANTH 1010 and (ENGL 2010 or ENGL 2020)

Analyzes the aging process and the major social and health policy issues confronting older Americans. Examines the special needs of Americans as they age, including the impact of culture and ethnicity, political and financial factors, and legislative measures as they affect health care programs and services for the elderly. Places older Americans in a broader social context, compared to other societies.

ANTH 3700 (Cross-listed with: PSY 3700)

Psychological Anthropology
3:3:0 On Sufficient Demand
• Prerequisite(s): PSY 1010 and ANTH 1010 and (ENGL 2010 or ENGL 2020); PSY 3400 strongly recommended

Explores interrelationships of individual personality to elements of Western and non-Western sociocultural systems. Relations of sociocultural contexts to self, motives, values, personal adjustment, stress and pathology are examined using case histories and ethnography. Studies the idea of self and personality, normality and deviance, and mental health and mental illness across social and cultural boundaries.

ANTH 3720
Applied Anthropology
3:3:0 On Sufficient Demand
• Prerequisite(s): ANTH 1010 and (ENGL 2010 or ENGL 2020)

Surveys the ethics and methods used by applied anthropologists. Surveys a range of areas where applied work is performed, including development anthropology, anthropology and health, industrial anthropology, anthropology and marketing, etc. Also explores the political, social, and theoretical implications of applied work.

ANTH 3800
History of Evolutionary Theory
3:3:0 On Sufficient Demand
• Prerequisite(s): (ANTH 1010 or ANTH 1020) and (ENGL 2010 or ENGL 2020)

Examines evolutionary history from pre-Darwinian time to the present. Explores the development of aspects of modern evolutionary theory, effects of cultural contexts, and both scientific and public controversies.

ANTH 3830
Biology and Culture
3:3:0 On Sufficient Demand
• Prerequisite(s): (ANTH 1010 or ANTH 1020) and (ENGL 2010 or ENGL 2020)

Explores the interactions of nature and nurture as a complex whole, rather than as mutually exclusive possibilities or separate streams of influence. Includes a significant research project.

ANTH 4150
Contemporary Theory and Debates
3:3:0 Sp
• Prerequisite(s): ANTH 1010 and (ENGL 2010 or ENGL 2020)

Explores social theory and other disciplines. Surveys current debate through exploration of the conceptual apparatuses that are deployed and the issues that motivate current research. Prepares the student to knowingly engage contemporary anthropological literatures.

ANTH 4160
History of Anthropological Thought
3:3:0 F
• Prerequisite(s): ANTH 1010 and (ENGL 2010 or ENGL 2020)

Surveys anthropological thought, theory and its philosophical roots from the nineteenth to the twentieth centuries. Focuses on the concepts and theoretical paradigms deployed in different social and intellectual conjunctures, as well as on the major debates that have formed the field and separated it from other social science disciplines.

ANTH 4180
Power Economy and People†
3:3:0 On Sufficient Demand
• Prerequisite(s): ANTH 1010 and (ENGL 2010 or ENGL 2020)

Builds from a foundation in classic social anthropology and political economy to comprehend groups and identities both in the past and present as we look at nations, ethnicities, churches, civil society, tribes, and social movements.

ANTH 4200
Biology of Religion
3:3:0 On Sufficient Demand
• Prerequisite(s): (ANTH 1010 or ANTH 1020) and (ENGL 2010 or ENGL 2020)

Examines how biologists and life scientists have begun to study the physical nature of religious behavior and beliefs. Explores how religious behaviors and beliefs affect biology from an interdisciplinary perspective.

ANTH 4250
Human Sexual Nature
3:3:0 On Sufficient Demand
• Prerequisite(s): (ANTH 1010 or ANTH 1020) and (ENGL 2010 or ENGL 2020)

Examines cultural and biological aspects of human sexual nature, drawing on evidence and controversies from anthropology, psychology, medicine, biology and history.

ANTH 475R
Current Topics in Anthropology
3:3:0 On Sufficient Demand
• Prerequisite(s): ANTH 1010 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.

ANTH 4850
Ethnographic Methods
3:3:0 F
• Prerequisite(s): ANTH 1010 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.

ANTH 490R
Independent Studies
I to 3:I 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.

APPR—APPRENTICE

APPR 1110
Sheet Metal IA
6:6:0 F
Completers will obtain American Red Cross CPR/First Aid Certification. Introduces Sheet Metal trade and its history. Teaches the safe operation of hand and power sheet metal tools and machinery. Covers basic drafting and layout techniques, and construct sheet metal seams to blueprint specification.

APPR 1120
Sheet Metal IB
6:6:0 Sp
Introduces parallel line, radial line, and triangulation layout methods. Addresses layout and fabrication of basic sheet metal duct system fitting to blueprint specifications. Introduces field installation practices, emergency procedures, and hazardous communication.

APPR 1210
Sheet Metal 2A
6:6:0 F
• Prerequisite(s): APPR 1120
Teaches the basics of bidding jobs and

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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.

APPR 1220

Sheet Metal 2B

6:6:0

Sp

Teaches construction and installation of louvers and ventilators, selection and installation of duct hangers and anchor, selection and installation of fire and smoke dampers and introduction to computer operations.

APPR 1300

Apprentice Math

3:3:0

F, Sp

For apprentices. Covers math used in apprentice trades. Teaches fractions, decimals, percents, interest, volume and metrics. Studies special trade formulas.

APPR 1410

Plumbing Independent 1A

5:5:0

F

For plumbing apprentices. Introduces plumbing definitions, Uniform Plumbing Code chapters 1, 2 and 3, mathematics for plumbers. Studies installation practices and IAPMO standards, related science, pipe threading, and mechanical piping systems.

APPR 1420

Plumbing Independent 1B

5:5:0

Sp

• Prerequisite(s): APPR 1410

For plumbing apprentices. Covers Uniform Plumbing Code as it relates to fixtures, faucets, valves, overflows, strainers, connections, floor drains, whirlpool bathtubs, cast-iron soil, drainage, glass, clay and concrete pipe. Studies basic emergency and first aid, solder and brazed joint, copper pipe, calked joint, mathematics units 7-16 and blue print reading.

APPR 1430

Plumbing Independent 2A

5:5:0

F

• Prerequisite(s): APPR 1420

For plumbing apprentices. Covers Uniform Plumbing Code chapters 5 and 6, Appendix A-recommended rules for sizing water supply system, mathematics and backflow prevention.

APPR 1440

Plumbing Independent 2B

5:5:0

Sp

• Prerequisite(s): APPR 1430

For plumbing apprentices. Covers blue print reading for plumbers units 11-34, Uniform Plumbing Code chapters 7, 8, and 9, plumbing safety NAPHCC lessons 27A, 97-104.

APPR 1450

Plumbing Independent 3A

5:5:0

F

• Prerequisite(s): APPR 1440

For plumbing apprentices. Covers plumbing mathematics, Uniform Plumbing Code Illustrated Training Manual chapters 4 and 10, Appendix C-minimum plumbing facilities, review of Uniform Plumbing Code chapter 3 and flex supply hoses.

APPR 1460

Plumbing Independent 3B

5:5:0

Sp

• Prerequisite(s): APPR 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.

APPR 1470

Plumbing Independent 4A

5:5:0

F

• Prerequisite(s): APPR 1460

For plumbing apprentices. Covers plumbing math review, installation practices, Uniform Plumbing Code chapters 6, 7, 8, 10, Appendices D and H. Studies heating systems, hydraulic theory, pump systems, brazing, soldering, PVC pipe and pipe dies.

APPR 1480

Plumbing Independent 4B

5:5:0

Sp

• Prerequisite(s): APPR 1470

For plumbing apprentices. Covers blue print reading, PVC pipe and copper joining techniques, and review and preparation for state license exam.

APPR 1800

Carpenter Apprentice 1A

5:5:0

F

• Prerequisite(s): Departmental Written Approval

For members of the Carpenters Joint Apprenticeship Training Committee. Covers first aid, CPR, Safety and OSHA requirements. Teaches use of hand tools, power tools, materials, tool safety, rigging, knots, hand signals and math. Introduces Building layout and forms.

APPR 1810

Carpenter Apprentice 1B

5:5:0

Sp

• Prerequisite(s): APPR 1800 or Departmental Written Approval

For members of the Carpenters Joint Apprenticeship Training Committee. Covers layout, framing, roots, canopies, sound control, temperature control, insulation and math. Teaches finish for exteriors and interiors.

APPR 1820

Carpenter Apprentice 2A

5:5:0

F

• Prerequisite(s): APPR 1810 or Departmental Written Approval

For members of the Carpenters Joint

Apprenticeship Training Committee.

Covers exterior/interior finish, interior systems, metal framing, drywall, partitions, ceilings, tools.

APPR 1830

Carpenter Apprentice 2B

5:5:0

Sp

• Prerequisite(s): APPR 1820 or Departmental Written Approval

For members of the Carpenters Joint Apprenticeship Training Committee.

Covers forms, pile caps, form hardware, tilt up and precast.

APPR 1840

Carpenter Apprentice 3A

5:5:0

F

• Prerequisite(s): APPR 1830 or Departmental Written Approval

For members of the Carpenters Joint Apprenticeship Training Committee.

Covers blueprints, elevation, symbols, detail drawing and math. Introduces CAD, print reading and drafting.

APPR 1850

Carpenter Apprentice 3B

5:5:0

Sp

• Prerequisite(s): APPR 1840 or Departmental Written Approval

For members of the Carpenters Joint Apprenticeship Training Committee.

Covers welding safety and principles, cutting and burning. Teaches flat, vertical, overhead and light gauge. Introduces blueprint reading and drafting.

APPR 1860

Carpenter Apprentice 4A

5:5:0

F

• Prerequisite(s): APPR 1850 or Departmental Written Approval

For members of the Carpenters Joint Apprenticeship Training Committee.

Covers scheduling, MSDS, leadership skills, concrete testing, computer keyboard, trade tips and scaffold safety.

APPR 1870

Carpenter Apprentice 4B

5:5:0

Sp

• Prerequisite(s): APPR 1860 or Departmental Written Approval

For members of the Carpenters Joint Apprenticeship Training Committee.

Covers MSHA, clean rooms, comet, foundations, heavy construction and highway.

APPR 2310

Sheet Metal 3A

6:6:0

F

• Prerequisite(s): APPR 1220

Teaches the properties of air as in heating, ventilating, and cooling system applications, specifications, and review of contract documents, selections and installation of fans, duct system designs.

Course Descriptions

ARCH
ART

APPR 2320
Sheet Metal 3B
6:6:0 **Sp**
Teaches structural, mechanical, and electrical blueprint interpretation. Introduces the uses of CAD in the sheet metal industry. Teaches proper hoisting and rigging methods, beginning field measuring, and sign work.

APPR 2410
Sheet Metal 4A
6:6:0 **F**
• Prerequisite(s): APPR 2320
Uses advance mathematics to design and layout duct systems. Teaches specialized power equipment used in the shop and in the field. Incorporates advanced layout techniques to layout and fabricate sheet metal duct fittings.

APPR 2420
Sheet Metal 4B
6:6:0 **Sp**
Teaches methods to layout and install metal ceilings and boiler breaching, construction of metal buildings and installation of skylights, basic air conditioning properties and duct sizing, and determination of the air quality in a building.

APPR 281R
Cooperative Work Experience
I to 8:0:5 to 40 **On Sufficient Demand**
• Corequisite(s): APPR 285R
Designed for electrical construction apprentice majors. Provides paid, on-the-job work experience in the student's major. Work experience, the correlated class and enrollment are coordinated by the Cooperative Coordinator. Includes student, employer and coordinator evaluations, on-site work visits, written assignments and oral presentations. Provides experience in writing and completing individualized work objectives that improve present work performance.

APPR 285R
Cooperative Correlated Class
I:1:0 **On Sufficient Demand**
• Corequisite(s): APPR 281R
Designed for electrical construction apprentice majors. Identifies on-the-job problems and provides remediation of those problems through in-class discussion and study. Includes the study of identifying and maximizing service opportunities. Students register for this class with approval of the Cooperative Coordinator. Includes lecture, guest speakers, video tapes, role playing, case analysis, oral presentation and written assignments. Completers should be better able to perform in their field of work or study.

ARCH—ARCHAEOLOGY

ARCH 1100 **SS**
Introduction to Archaeology
3:3:0 **F**
Studies the archeological record of human behavior for the last two million years. Examines the scientific techniques used to explore and analyze the record. Investigates the ways in which our ancestors lived and the ways in which the present and future world is affected by the past. Includes field trips, films and research methods.

ART—ART

ART 1000
Color Theory
3:3:0 **F, Sp**
Covers theories of color, color systems, social and psychological impact of color, and the effects of colors on humankind. Assignments demonstrate the application of color theories.

ART 1010 **FF**
Introduction to Visual Arts
3:3:0 **Su, F, Sp; DE**
Develops an appreciation of art. Studies elements and principles of art. Includes identification of major art forms, surveys art history, art criticism, and media. Satisfies a fine arts requirement. Community members are welcome.

ART 1050 **FF**
Photography I
3:2:2 **Su, F, Sp**
Emphasizes the use of camera operation, including aperture and shutter speed adjustments to control exposure, depth of field, lenses, camera format. Teaches how to see photographically, using elements of composition and lighting to make stronger images. Teaches basic black and white film and printing processes. Requires a 35mm manual mode camera, as well as film and paper. Community members welcome.

ART 1110 **FF**
Drawing I
3:2:2 **Su, F, Sp**
For majors and non-majors. Introduces fundamental drawing concepts and media. Emphasizes mastery of basic drawing principles and integration of these principles into a personal drawing style through exposure to a variety of structured drawing experiences. Requires sketchbook, in-class and home work assignments.

ART 1120
2D Design
3:3:0 **Su, F, Sp**
Core course for all AVC majors. Introduces the elements and principles of design. Studies two and three dimensional formats

as they relate to a series of different design problems. Uses principles such as line, shape, rhythm, contour, value, and contrast in creative assignments.

ART 1130
3 D Design
3:2:2 **F, Sp**
• Prerequisite(s): ART 1120
Presents a survey of the history and main lines of development and influential factors in three dimensional designs. Examines important designers, firms, and decisive turning points in the history of three dimensional designs. Emphasizes planning, purpose, and function through project oriented assignments. Teaches proper use of tools and materials.

ART 1280
Airbrush Basics
3:2:2 **F, Sp**
Studies basic airbrush techniques, tools and materials. Develops masking and painting skills for a wide variety of textures and effects. Includes lectures, demonstrations, and labs. Students must provide airbrush (any model) and materials.

ART 1340 **FF**
Sculpture I
3:2:2 **F, Sp**
Introduces methods and techniques of figurative clay sculpture. Students will construct armatures and build clay head and anatomy studies from the model. Includes firing and finishing techniques. Community members welcome.

ART 1350 **FF**
Ceramics I
3:2:2 **Su, F, Sp**
Studies clay as an expressive medium. Emphasizes techniques of working with clay, including hand building, wheel throwing, glazing, and firing. Community members welcome.

ART 1360
Crafts Methods and Materials
3:2:2 **On Sufficient Demand**
• Prerequisite(s): ART 1120
Emphasizes design skills used in craft media including glass, metal, wood, fibers, and composites. Covers use and safe practices for both hand and power tools. Includes historical and cultural derivation of designs and art works, through critical analysis, aesthetic import and production techniques. Community members welcome.

ART 1400
Graphic Computer Applications
3:2:2 **Su, F, Sp**
Core course for all Art and Visual Communications majors. Introduces concepts and software related to visual communication and the creation and reproduction of art. Teaches how to create and modify digital images using Adobe Photoshop. Also teaches basic design skills

Course Descriptions

using Adobe Illustrator. Teaches basic page layout skills. Covers basic software used in visual communications.

ART 1410
Typography and Layout I
3:2:2 **F, Sp**
 •Prerequisite(s): ART 1400
 Teaches the principles of typographic design and communication, type selection and typesetting. Addresses the use of typography in modern design and its relationship to layout, including grid structure. Teaches skills to allow students to professionally set type using industry standard software. Covers basic typographic usage and layout.

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 **FF**
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 **FF**
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 **FF**
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 **FF**
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 **FF**
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 **FF**
Architectural Rendering
3:3:0 **On Sufficient Demand**
 Teaches two point perspective architectural rendering. Develops exterior pictorial views from floor and elevation plans. Uses various artist mediums to add atmospheric perspective and landscape features. Successful completers should also be familiar with the use of renderings in public hearings and design reviews.

ART 1810
Introduction to Interior Design
3:3:0 **F, Sp**
 For individuals wishing to develop interior design skills, be employed in the interior design industry, or develop their own interior design business. Overviews the interior design profession, client profiles and the design process. Covers principles and elements of design, evaluating design, color and lighting, fabric and pattern coordination. Studies American architecture and furniture styles, history and identification, and current design trends.

ART 1815
Historical Architecture and Interior Design
3:3:0 **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 **FF**
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

Course Descriptions

ART

art. Develops skill in the application and combination of a variety of painting processes. Focuses primarily on oil and watercolor painting techniques. In addition, develops mixed media processes and techniques using oil and watercolor in combination with other materials.

ART 2240 **Illustrative Media and Techniques II** **3:2:2** **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 various media, such as hydrocal, resins, acrylic polymers, cold cast metals, etc. Completers should possess techniques to create a sculpture from clay model to finished piece. Community members welcome.

ART 2350 **Ceramics II** **3:2:2** **F**

• Prerequisite(s): ART 1350 or Department Approval
For students seeking intermediate and advanced techniques of wheel throwing, hand-building, and glazing. Emphasizes clay as an artistic medium. Includes decoration of clay shapes with engobes, slip, glaze, overglazes, etc. Students will provide all materials and equipment except wheels. Completers should possess the skills to create a quality finished ceramic piece. Community members welcome.

ART 2410 **Typography and Layout II** **3:2:2** **F, Sp**

• Prerequisite(s): ART 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 WYSIWIG 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 of 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 watermedias. Includes lecture, demonstration, and studio time for application and evaluation. Encourages development of personal style in relation to the media.

ART 2680 **Introduction to Printmaking** **3:2:2** **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

Course Descriptions

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** **FF**

• 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** **I to 8:0:5 to 40 On Sufficient Demand**

• 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** **I: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** **I 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** **I: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** **Su, 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 1110 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** **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** **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** **Su, 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** **Su, F, Sp**

• Prerequisite(s): ART 2350
Continuation of concepts developed in Ceramics I and II. Addresses advanced skills in hand building, wheel throwing, glaze formulation and kiln firing.

ART 3400 **Fundamentals of Art Education** **3:2:2** **FF**

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** **On Sufficient Demand**

• Prerequisite(s): ART 1410, ART 2430, ART 2450
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** **Su, F, Sp**

• Prerequisite(s): ART 2430, ART 2450, ART 3410
Teaches concept and theory behind brand identity and package design. Covers

how to conduct research to ensure their designs are appropriate and powerful. Includes creation of designs that use three-dimensional space.

ART 3460
Interactive Design II
3:2:2 **F, Sp**

• 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 **On Sufficient Demand**

• 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
Emphasizes experimental approach to watermedia, acrylic, and mixed media. Provides opportunity for independent

exploration and development of personal style coupled with refinement of technical skills. May be repeated for a maximum of 6 credits toward graduation.

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 maximum of 6 credits toward graduation.

ART 3750
Digital Imaging II
3:2:2 **On Sufficient Demand**

• 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. Extends skills learned in ART 2450 and ART1050. Strong emphasis on using Photoshop as a creative tool in personal artistic expression. Discusses more advanced uses of selection tools, color correction, layer and channel manipulations. Teaches processes and concepts through slide presentations, readings, critiques and class discussions.

ART 412R
Advanced Illustration
3:2:2 **Su, F, Sp**

• Prerequisite(s): ART 3220
Provides advanced studies in producing a senior level portfolio. Encourages students to find a personal style and voice in communicating images. Requires advanced problem solving skills and

advanced abilities in the creation of images. May be repeated for a maximum of 6 credits toward graduation.

ART 4230
Advanced 3D Computer Modeling
3:2:2 **On Sufficient Demand**

• Prerequisite(s): ART 3230
Teaches advanced techniques in creating and manipulating 3D computer models. Focuses on character modeling and design.

ART 4360
Mold Making and Casting
3:2:2 **On Sufficient Demand**

• Prerequisite(s): ART 1120, ART 1130, ART 2340
Covers both theory and practice of sculptural mold making and casting of sculptural designs of multiple originals of their own works. Includes using various materials for both cold casting and lost wax casting. May be repeated for up to six credits toward graduation.

ART 4370
Hand Building Ceramics
3:2:2 **On Sufficient Demand**

• Prerequisite(s): ART 2350
Designed for students interested in three-dimensional art forms. Emphasizes hand building design and techniques in creating both sculptural and vessel projects in water-based clay. Teaches advanced methods of coil, slab, and pinch construction. Utilizes slump molding, rolled slab, cylinders, and molds in creation of finished clay products. Covers various types of firing processes, including bisque, raku, anagama, sagger, high fire, and overglaze, in addition to normal firing methods.

ART 443R
Special Topics in Graphic Design
3:2:2 **Su, F, Sp**

• 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 **On Sufficient Demand**

• 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 WYSIWIG 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.

Course Descriptions

ART 449R
Advanced Graphic Design Studio
3:2:2 F, Sp
• Prerequisite(s): ART 1120, ART 1410, ART 1430, ART 2410, ART 2420, ART 2460, ART 3430
Presents 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 On Sufficient Demand
• 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 Sp
• 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 On Sufficient Demand
• 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
I 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 the college 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 On Sufficient Demand
• Prerequisite(s): Senior Status in AVC Major
For AVC majors. Covers standard policies and procedures used in the creation and marketing of visual arts. Includes estimating, pricing, trade customs, ethical standards, contracts, and other legal rights and issues. Explores job opportunities and self-employment options for visual artists.

ART 491R
Independent Study
I to 3:0 to 3:0 to 9 On Sufficient Demand
• Prerequisite(s): Department Approval
Provides an opportunity for upper division students to do individual research and experimentation within the areas of the AVC Program. Study is limited to advanced work beyond that which can be completed in existing available classes. A proposal must be submitted and approved by the department prior to enrollment. A maximum of three credits may apply to graduation.

ART 4990
Senior Studio
3:2:2 On Sufficient Demand
• Prerequisite(s): Senior Status in AVC Major
For AVC majors with senior status. Combines and integrates concepts, methodologies and skills developed in previous AVC course work, through the completion of a comprehensive project. Requires students to develop their own project/portfolio in consultation with a faculty advisor. Finished projects will demonstrate individual student skills and interests.

ART 4991
BFA Project
3:2:2 On Sufficient Demand
• Prerequisite(s): Senior Status in AVC Major with BFA degree
For AVC majors with senior status and a BFA emphasis. Students will be required to develop and execute a gallery exhibition. The course will require the student to work with a gallery/museum professional in the preparation of the student project for public viewing.

ARTH—ART HISTORY

ARTH 2710
History of Art to the Renaissance
3:3:0 F, Sp
Covers major trends in Western art from the Paleolithic period to the Gothic era,

including elements of political, religious, cultural, literary, and philosophical elements as they impacted the development of art.

ARTH 2720
History of Art from the Renaissance
3:3:0 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 2790
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 inception, using the social and cultural environment as a context and focus on the ever-increasing use of photography by artists in the creative process from the first uses of the camera obscura to the present. Discusses the specific reasons that set the stage for the "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.

Course Descriptions

ARTH
ASL

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 On Sufficient Demand

- 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

ASL 1000

Introduction to the Deaf-World

3:3:0 F

Focuses on the nature, make up, and significance of the Deaf-World as a linguistic and cultural minority group. Gives significant attention to the different ways that deaf people form a minority group thereby adding diversity to society at large. Also addresses the diversity within the group and the sociological factors that affect its makeup. Introduces American Sign Language (ASL) and teaches some basic conversational skills. Gives special attention to the differences between the ways hearing and Deaf people construct meanings associated with deaf people. Taught in (or interpreted into) English.

ASL 1010

Beginning American Sign Language I

5:5:1 Su, F, Sp

Introduces American Sign Language (ASL) to students with no previous experience with ASL. Employs an immersion approach to language learning. Emphasizes basic

expressive and receptive conversational skills. Includes introduction to American Deaf culture. Requires weekly lab.

ASL 1020

Beginning American Sign Language II

5:5:1 Su, F, Sp

- Prerequisite(s): Students should have equivalent knowledge of ASL 1010

Builds on the experiences in ASL 1010. Emphasizes basic expressive and receptive conversational skills through active student participation. Continues introduction to American Deaf culture. Employs an immersion approach to language learning. Requires a weekly lab.

ASL 2010

Intermediate American Sign Language I

5:5:1 Su, F, Sp

- Prerequisite(s): Students should have equivalent knowledge of ASL 1020

Reviews and builds upon the grammar and conversation skills learned in the first year courses. Concentrates on understanding and acquiring more advanced conversational proficiency in ASL. Emphasizes the use of various kinds of ASL classifiers in the function of describing objects and in providing locative information. Analyzes Deaf culture with an emphasis on the struggles of this linguistic minority with a majority controlled educational establishment with particular attention to the effects on individual Deaf lives.

ASL 2020

Intermediate American Sign Language II

3:3:0 F, Sp

- Prerequisite(s): Students should have equivalent knowledge of ASL 2010

Continues applied conversation use of ASL through literature, narratives, poetry, and creative sign play. Analyzes ASL grammatical principles and Deaf cultural experiences to explore and understand various underlying metaphors found in ASL literature. Requires Deaf community exposure and involvement.

ASL 2030

Advanced Fingerspelling

1:1:0 On Sufficient Demand

- Prerequisite(s): ASL 1020
- Focuses on the patterns of ASL fingerspelling, one of the hardest ASL skills to master. Designed to increase student's ability to accurately produce and comprehend ASL fingerspelling. Also gives attention to the nature and application of fingerspelling within the sociocultural context of the Deaf-World. Taught in ASL.

ASL 2040

ASL Numbers

1:1:0 On Sufficient Demand

- Prerequisite(s): ASL 1020
- Focuses on the complex rule systems of ASL numbers, one of the hardest to learn elements of ASL. Designed to increase students' ability to accurately produce and

comprehend ASL numbers. Taught in ASL.

ASL 2050

Advanced ASL Grammar

3:3:0 On Sufficient Demand

- Prerequisite(s): ASL 2020 or Instructor Approval

Explores the grammar of ASL focusing on areas typically difficult for English speakers. Provides extensive instruction and opportunity for students to improve both comprehension and production. Taught in ASL.

ASL 3050

Advanced American Sign Language

3:3:0 On Sufficient Demand

- Prerequisite(s): ASL 2020 or equivalent

Designed for non-native ASL users who have attained a fairly good mastery of basic ASL. Focuses on grammatical aspects of ASL, including sign formation, sentence forms, pronominalization, identifying subjects and objects, classifiers, pluralization, time concepts, locatives, and inflectional morphology. Includes considerable study of the culture of Deaf people.

ASL 3310

Interpreting I

3:3:0 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 wellbeing in the physically demanding and high stress field of interpreting. Develops cognitive, ergonomic, and dual tasking abilities required to interpret without stress or physical injury. Helps students better understand how a healthy lifestyle and developing good habits can improve their skills and prevent injury.

ASL 3330

Cross-Cultural Communication and Interpreting

3:3:0 On Sufficient Demand

- Prerequisite(s): ASL 3310 and Instructor Approval

Builds on course ASL 3310. Focuses heavily on the practice of interpreting with special emphasis on the dimension of intercultural communication. Requires regular skill-building exercises in both consecutive and simultaneous interpretation, both English-to-ASL and ASL-to-English. Deaf students are encouraged to enroll. Taught in ASL.

Course Descriptions

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 interpretative 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 interpretative 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 interpretative work. Includes one-hour per week lab.

ASL 3380
Transliteration
3:3:1
• Prerequisite(s): ASL 3310
Introduces students to skills and processes required to produce conceptually accurate and linguistically appropriate messages using ASL signs in an English word order. Develops cognitive, semantic, and dual tasking abilities required to interpret spontaneous texts. Teaches and incorporates more advanced semantic choices and negotiation techniques, work with a variety of audience sizes and types. Helps students better understand how ethics impact behavioral decisions and interpretations. Gives more consideration to developing sets of technical or field-specific signs and applying these to interpretative work. Includes one-hour per week lab.

ASL 3390
Professional Issues in Interpreting
3:3:0
• 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 ethnic development and linguistic history of the Deaf. Presentations and class instruction conducted entirely in ASL.

ASL 3520
Deaf Culture 1817 to 1970
3:3:0 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 ethnic development and linguistic history of the Deaf. Presentations and class instruction

conducted entirely in ASL.

ASL 3530
Deaf Culture from 1970
3:3:0 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 ethnic 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 2020 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 3800
ASL Deaf Culture Studies
3:3:0 On Sufficient Demand
• Prerequisite(s): ASL 2020 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.

ASL 4360
Legal Interpreting
3:3:0
• Prerequisite(s): ASL 3350, ASL 3360, ASL 3370, and ASL 3380
Provides students with a conceptual understanding of the American legal system, and the unique cultural challenges related to interpreting for parties within the system. Examines both the law and Deafness and the areas of language and cultural mediation required to effectively facilitate communication between people who are Deaf and people who are hearing in legal settings.

ASL 4370

Ethics for Interpreters

3:3:0

• Prerequisite(s): ASL 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)

PP

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.

Sp

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

• 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. Taught in a seven and one half (7 1/2) week block.

AUT 111L

Brake Systems Lab

1:0:3

• 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. Taught in a seven and one half (7 1/2) week block.

AUT 1120

Manual Power Trains

2:2:0

F

• 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. Taught in a seven and one half (7 1/2) week block.

AUT 112L

Manual Power Trains Lab

1:0:3

• 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. Taught in a seven and one half (7 1/2) week block.

ASTR

AUT

Course Descriptions

AUT 1130

Engine Repair[†]

2:2:0

F

• Corequisite(s): AUT 113L Recommended

Offers an in-depth study of design, operation, troubleshooting, and service procedures for modern gasoline and diesel engines. Presents procedures for disassembly and reassembly of engine units, service, and technical data. Taught in a seven and one half (7 1/2) week block.

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

• 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 manufactures to supplement training. Taught in a seven and one half (7 1/2) week block.

AUT 1160

Automotive Electrical Systems

2:2:0

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

• 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

• Prerequisite(s): AUT 1160

Studies the function, construction, operation, testing, diagnosis and servicing of automotive ignition systems, cranking, charging/generator systems and battery testing using a variety of diagnostic test equipment.

AUT 117L

Engine Electrical Systems Lab

1:0:3

• Corequisite(s): AUT 1170

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

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. Taught in a seven and one half (7 1/2) week block.

AUT 121L

Suspension and Steering Systems Lab

1:0:3

• 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 manufactures to supplement training. Taught in a seven and one half (7 1/2) week block.

AUT 1220

Automatic Transmissions and Transaxles

2:2:0

Sp

• Corequisite(s): AUT 122L Recommended

Studies diagnosis, repair, and adjustment of many automatic transmissions and transaxles. Covers planetary gearing, hydraulic theory, strategies for operation, and service of many domestic and imported passenger car and light-truck vehicles. Introduces electronic control theory. Taught in a seven and one half (7 1/2) week block.

AUT 122L

Automatic Transmissions and Transaxles Lab

1:0:3

• 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 manufactures to supplement training. Taught in a seven and one half (7 1/2) week block.

AUT 1230

Engine Performance[†]

2:2:0

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. Taught in a seven and one half (7 1/2) week block.

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

• 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 manufactures to supplement training. Taught in a seven and one half (7 1/2) week block.

AUT 1260
Tech Math for Mechanics
3:3:0 **F, Sp**

For students in Automotive, Collision Repair, and Diesel Mechanics technology majors. Covers principles of math as required by the industry. Studies pressures, measuring engine and horsepower output, hydraulics, torque, and electrical flow. Includes solving equations in percent, proportion, variation, formula rearrangement, function and graphs with right and oblique triangles. Successful completers should be able to solve problems on the job using technical and mathematical data.

AUT 1700
Brakes and Wheels
3:3:I **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:I **On Sufficient Demand**

For automotive apprentices. Studies steering and suspension components. Teaches steering, gear, rack and pinion and conventional and MacPherson strut design. Includes steering geometry, and factor of tire wear. Discusses different methods of front end alignment. Studies troubleshooting and repair of heating and air conditioning system, includes A/C evacuation and seal replacement. Discusses electrical and service tools.

AUT 1720
Engine Repair
3:3:I **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:I **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:I **On Sufficient Demand**

For automotive apprentices. Performs basic operations on PC compatible computers including keyboarding and key functions using typical shop management software. Emphasizes components found on computerized automobile systems. Identifies various common automotive computer components by type and function. Includes hands-on computer use in diagnostics and troubleshooting.

AUT 1760
Manual Drive Trains and Safety
3:3:I **On Sufficient Demand**

For automotive apprentices. Studies diagnosis and repair of manual transmissions including transaxles, differentials, drive shafts, axle shafts, and four wheel drive components. Teaches clutch theory with torque and gear application. Covers general and trade safety common to the automotive trades. Stresses accident prevention for personal safety along with equipment safety.

AUT 1770
Automatic Transmission and Transaxles
3:3:I **On Sufficient Demand**

For automotive apprentices. Studies diagnosis, repair, and adjustment of most automatic transmissions and transaxles. Covers basic planetary gearing. Includes hydraulic theory, strategies for operation, and service of GM, Ford, Chrysler, and many foreign models.

AUT 201R
Automotive Service Practicum
2:0:6

• Prerequisite(s): AUT 1110, AUT 1120, AUT 1130, AUT 1210, AUT 1220, AUT 1230, AUT 1160, AUT 1170 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. Taught in a seven and one half (7 1/2) week block. May be repeated for a maximum of 8 credits toward graduation.

AUT 2110
Advanced Steering Suspension and Alignment
2:2:0 **F**

• Prerequisite(s): AUT 1210, AUT 1160 with a grade of C- or better
• Corequisite(s): AUT 201R
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. Taught in a seven and one half (7 1/2) week block.

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 201R
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. Taught in a seven and one half (7 1/2) week block.

AUT 2130
Advanced Emission Control Systems
2:2:0 **F**

• Prerequisite(s): AUT 1130, AUT 1230, AUT 2120, AUT 1160 with a grade of C- or better
• Corequisite(s): AUT 201R
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. Taught in a seven and one half (7 1/2) week block.

AUT 2140
Chassis Electrical and Electronics Systems
2:2:0

• Prerequisite(s): AUT 1160, AUT 1170 with a grade of C- or better
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. Taught in a seven and one half (7 1/2) week block.

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 201R
An in-depth study of the theory, diagnosis, and repair of electronic controlled braking systems. Includes the study of anti-lock brakes, traction control systems, stability control systems and other control systems found on vehicles. Taught in a seven and one half (7 1/2) week block.

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 201R
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

Course Descriptions

service, diagnosis and troubleshooting using electronic test equipment. Taught in a seven and one half (7 1/2) week block.

AUT 2240 Automotive HVACR

2:2:0 **Sp**

- Prerequisite(s): AUT 1160 with a grade of C- or better
- Corequisite(s): AUT 201R

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. Taught in a seven and one half (7 1/2) week block.

AUT 2250 Electronic Fuel Management Systems

2:2:0

- Prerequisite(s): AUT 1230, AUT 1160 with a grade of C- or better

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. Taught in a seven and one half (7 1/2) week block.

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
- Designed for Automotive Technology majors. Provides paid, on-the-job work experience in the student's major. Work experience, the correlated class, and enrollment are coordinated by the Cooperative Coordinator. Includes student, employer, and coordinator evaluations, on-site work visits, written assignments, and oral presentations. Provides experience in writing and completing individualized work objectives that improve present work performance. May be repeated as desired for interest.

AUT 285R Cooperative Correlated Class

1:1:0 **Su, F, Sp**

- Corequisite(s): AUT 281R
- Designed for Automotive Technology majors. Identifies on-the-job problems and provides remediation of those problems through in-class discussion and study. Includes the study of identifying and maximizing service opportunities. Students register for this class with approval of the Coop coordinator. Included lecture, guest speakers, video tapes, role playing, case analysis, oral presentations, and written

assignments. Completers should be better able to perform in their field of work or study. May be repeated as desired for interest.

AUT 299R SkillsUSA

1:1:0 **F, Sp**

Designed for Automotive Technology majors. Supports and facilitates the goals and objectives of SkillsUSA. SkillsUSA is a pre-professional student organization that develops social awareness, civic, recreational, and social activities. Students may participate in local, state, and national contests. May be repeated as desired for interest.

AUT 3230 High Performance Engines

3:2:3 **F, 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.

AVSC—AVIATION SCIENCE

AVSC 1010 Survey of Aviation Science

2:2:0 **Su, F, Sp; DE**

Designed for all students interested in career opportunities in Aviation Science and general knowledge of aviation and aerospace studies. Includes historical events in aviation and aerospace development. Studies aviation and aerospace terminology, how airplanes and spacecraft fly, research and development of future systems, government and industry roles in the growth of aviation, and potential careers in aviation. Includes a field trip and several interesting and exciting projects.

AVSC 1020 Aircraft Identification

1:1:0 **F, Sp; DE**

Introduces skills of aircraft recognition and identification. Teaches identification of aircraft types and purposes available in the aviation world. Develops increased safety skills and the ability to correlate identifications to speed.

AVSC 1030 Aviation Customer Service

3:3:0 **DE**

Covers the history of customer service in the aviation industry. Introduces flight school and general aviation customer service principles. Studies customer rights and carrier responsibilities. Explores diffusion of confrontational customers.

Course Descriptions

Analyzes airline cultures and resulting effects on employees and customers.

AVSC 1040

In-flight Service

3:3:0

DE

Teaches service and safety issues of in-flight service operations. Examines responsibilities and training requirements of in-flight service specialists. Covers applicable federal aviation regulations. Explores labor relations and crew resource management. Discusses abnormal and emergency procedures. Studies passenger safety and security issues as well as service and customer relations.

AVSC 1100

Ground Private Pilot

4:4:0

Su, F, Sp; DE

• Corequisite(s): AVSC 1110 recommended
Designed for entry level student pilots. Introduces the airplane to students as they prepare for flight training. Stresses airport systems, air traffic control procedures, aviation weather, air navigation, radio communication procedures, and federal aviation regulations. Prepares the student for the FAA Private Pilot written examination. Lab activities will provide opportunity for viewing practical application of required pilot proficiency skills.

AVSC 1110

Flight Private Pilot Certification

3:3:1

Su, F, Sp; DE

• Corequisite(s): AVSC 1100 recommended
Provides the entry level aviation student with 20 hours of dual flight instruction and 15 hours of solo practical flight experience for private pilot certification. Covers airplane ground operation, take-off and landing, all basic flight maneuvers, and emergency procedures. Provides practice in a training airplane. Designed to meet the flight experience requirements for the FAA Private Pilot Flight check.

AVSC 1120

• Basic Aircraft Systems

1:1:0

F; DE

• Prerequisite(s): AVSC 1100
Designed to provide a more in-depth knowledge of the basic systems used in piston-powered aircraft. Includes an examination of propeller systems, constant speed propellers, retractable landing gear, electrical systems, cooling, flight control systems, and basic hydraulics. Will help students with oral examinations for the commercial and other flight certificates.

AVSC 1130

Glider Rating

1:1:1

On Sufficient Demand

• Prerequisite(s): AVSC 1100
Prepares student to transition from powered to non-powered glider flight in preparation for the FAA Private Pilot Glider Rating. Includes ground and flight lessons covering 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

1:1:1

Su, F, Sp; DE

• 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 1240

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

AVSC

Course Descriptions

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
Presents airport, airline, and general aviation security issues. Covers historical hijacking threat, public perception of threat and government response. Examines airport screening processes for passengers and cargo. Explores technology as a tool in security. Discusses cockpit security, pilot and weapons issues, and passenger responsibilities. Examines airport security methods, levels of security, personnel and management issues.

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. Discusses the history of commercial aviation, Air Commerce Act, and government regulatory agencies. Successful completers should have a basic knowledge of federal, state, and international law in order to comply with Federal Aviation Regulations.

AVSC 2170

Airline Interview Preparation

1:1:0 F, Sp; 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 crew and operational federal aviation regulations. Examines tools and practices of airline system control and corporate flight departments. Explores responsibilities and authority of dispatchers and schedulers.

AVSC 2200

Aviation Marketing

3:3:0 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 tradeshow, 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

2:2:1 Su, F, Sp; DE
• Prerequisite(s): AVSC 1220, AVSC 1230
• Corequisite(s): AVSC 1230
Designed for Commercial Pilot students in preparation for the FAA commercial pilot written exam. Covers advanced maneuvers such as steep power turns,

steep spirals, chandelles, lazy eights, and pylon eights. Uses ground classroom instruction and illustrated lecture, video tape presentations, and demonstration using model airplanes. Studies engine fuel injection and turbo charging, constant speed propellers, retractable landing gear, and ice control systems. Lab activities will provide opportunity for viewing practical application of required pilot proficiency skills.

AVSC 2310

Flight Commercial Pilot--Phase II

3:2:3 Su, F, Sp; 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, pylon eights, and chandelles. Includes commercial cross-country, instrument flying skills, and emergency procedures. Prepares student for the FAA Commercial Pilot Flight test.

AVSC 2330

Theory of Instruction

I:1:0 Su, F, Sp; 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

I: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 Su, F, Sp; 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

I: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 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

I:1:0 F; 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

I: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

I:1:1 Su, F, Sp; DE

• Prerequisite(s): Instructor's recommendation
• Corequisite(s): AVSC 2450

Designed for advanced pilots preparing for commercial multi-engine operations. Covers the theory of multi-engine flight and the significant aerodynamic difference between single-engine and multi-engine flight. Includes system operation of constant speed propellers, multi-tank and pump fuel systems, dual electrical systems, turbocharger, and ice control systems. Discusses multi-engine weight and balance and use of performance charts. Prepares the student for the FAA Multi-Engine airplane Pilot oral exam.

AVSC 2450

Flight Multi-Engine

I: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

I:1:0 Su, F, Sp; DE

• Prerequisite(s): AVSC 2410, AVSC 2450
• Corequisite(s): AVSC 2510

For advanced commercial multi-engine pilots with a single engine certified flight instructor rating. Presents specific teaching techniques and skills necessary to certify as a flight instructor with a multi-engine land rating. Includes a review of the multi-engine pilot certification requirements. Stresses the unique responsibilities of an instructor demonstrating flight at minimal control speed.

AVSC 2510

Flight Multi-Engine Instructor

I: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

Course Descriptions

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.

AVSC 3070

Aviation Cargo Operations

3:3:0

DE

• Prerequisite(s): AVSC 2150

Studies air cargo history and industry development. Teaches air cargo scheduling and supply chain administration. Explores aircraft options and conversions and airport and logistical considerations. Discusses shipping and air cargo regulations including hazmat and security issues. Explores domestic and international air cargo considerations.

AVSC 3100

Corporate Aviation Management

3:3:0

DE

• Prerequisite(s): AVSC 2150

Introduces basic principles of corporate flight department management. Discusses regulatory requirements in corporate aviation, acquisition procedures, insurance requirements, and pilot certification programs. Explores fractional ownership programs and management.

AVSC 3120

Airport Management

3:3:0

DE

• Prerequisite(s): AVSC 2150

Explores airport management at both small and large airports. Emphasizes basic requirements and attributes of successful airport managers. Course includes discussion of local and state airport finance and regulatory issues. Discusses pertinent Federal Aviation Regulations and security issues.

AVSC 3140

Fixed Base Operations Management

3:3:0

Sp; DE

• Prerequisite(s): AVSC 2150

Prepares students for employment and management at a fixed base operation and related general aviation management. Covers the organization, profit, maintenance, and safety systems concerning fixed base operators. Presents pertinent Federal Aviation Regulations, facility management, and advertising issues.

AVSC 3200

Flight Physiology

3:3:0

Sp; DE

For pilots with a career goal in commercial Aviation. Teaches physiological and psychological factors that affect pilot performance. Studies issues such as human error, fatigue, fitness, attitudes, training devices, controls, cabin space, and human payload. Includes lecture, demonstration, experiments, group projects, class discussion, and possible guest lecturers.

AVSC 3210

Aircraft Crash and Emergency Management

3:3:0

DE

• Prerequisite(s): AVSC 2160

Teaches how to develop a pre-accident plan addressing the issues of chain and command responsibility, initial response to safety and security issues, and the coordination of human and material resources for public safety. Emphasizes post crash/aircraft incident preservation of forensic evidence.

AVSC 3220

Aircraft Accident Investigation

3:3:0

DE

• Prerequisite(s): AVSC 2160

Explores the fundamental requirements of aircraft mishap and accident investigation.

Covers the initial gathering and preservation of evidence at the crash site, including photographic and video graphic documentation, assessing environmental factors, human factor considerations, aircraft maintenance status, and air traffic control considerations.

AVSC 3230
Accident Witness Interviewing
3:3:0 **DE**
• Prerequisite(s): AVSC 3210 or AVSC 3220
Teaches the currently recommended techniques for conducting an accident witness interview and common mistakes. Presents methods of evaluating and analysis of interview information. Case studies and role playing will be used in classroom exercises.

AVSC 3240
Aviation Accident Reporting
3:3:0 **DE**
• Prerequisite(s): AVSC 3210 or AVSC 3220
Teaches the student a working knowledge of preparing a complete aircraft mishap/accident report that includes the factual information, analysis, and conclusions, including probable causes, and aviation safety recommendations. Involves turning accident investigation data into an accident report.

AVSC 3300
Jet Transport Systems
3:3:0 **Su, F; DE**
• Prerequisite(s): AVSC 2440, Commercial Pilot Certificate
For the commercial pilot desiring training in turbine driven engines, thrust vectoring, pneumatics, electrical, hydraulic, and auxiliary systems. Includes subjects such as pressurization, de-ice and anti-ice, environmental, and warning systems. Utilizes schematic drawings, computer based trainers, and various jet operating manuals. Includes lecture, class discussion, demonstrations, group practice, and possible guest lecturers.

AVSC 3400
High Altitude Navigation/International Flight Operations
3:3:0 **Sp; DE**
• Prerequisite(s): AVSC 3300
Covers the advanced navigation systems of commercial aircraft. Explores VOR/DME, Loran-C, IRS (three ring laser gyro), and GPS navigational aids. Teaches the operation of the "Glass Cockpit" flight data center. Explains international flight operations. Uses in class lectures, demonstrations, individual experimentation, and computer based trainer experience.

AVSC 3530
Advanced Aerodynamics
3:3:0 **Sp; DE**
• Prerequisite(s): AVSC 3300
For commercial pilots. Teaches the aerodynamics involved in commercial aircraft. Includes aircraft turning and

accelerated climb performance, take off velocity, load factors, hypersonic flight, and laminar flow airfoils. Includes demonstration, examples, experiments, and class discussion.

AVSC 3600
Crew Resource Management/Human Factors
3:3:0 **Su, F; DE**
• Prerequisite(s): Commercial Pilot Certificate
Explores concepts of Crew Resource Management (CRM) employed by commercial airlines. Covers crew coordination, communication, and resource management in a professional airline atmosphere. Utilizes class discussions, role plays, lecture, guest lecturers, and group experiences.

AVSC 3610
Aviation Safety and Security
3:3:0 **DE**
• Prerequisite(s): AVSC 2050
Explores aviation safety and security in the 21st century. Surveys metallurgy, airframe stress analysis, psychology, pathology, and toxicology, flammable and explosive materials analysis, destructive and non-destructive material analysis as they apply to aviation safety and security.

AVSC 3740
Advanced Methods in Aviation Investigation
3:3:0 **DE**
• Prerequisite(s): AVSC 3220
Teaches current scientific techniques for the analysis of aircraft materials, components, performance and design. Considers aircraft crashworthiness. Discusses the process of establishing facts from analysis and of the findings of an aircraft investigation and probable vs. proximate cause.

AVSC 4200
Ground Turbine Transition
3:3:0 **Sp; DE**
• Prerequisite(s): AVSC 3300, AVSC 3530
• Corequisite(s): AVSC 4210
For commercial pilots desiring a Citation type rating. Teaches operating practices of the Citation jet, along with systems indoctrination, and procedures training. Utilizes lecture, demonstration, and cockpit procedures trainers. Successful completers should be prepared to pass the FAA Citation type rating oral exam.

AVSC 4210
Flight Turbine Transition
1:0:3 **Sp; DE**
Provides practical experience in preparation for the FAA Citation type rating practical exam. Teaches start up, taxi, take-off, en-route, approach, landing, shutdown, and emergency procedures. Utilizes individualized instruction in a cockpit procedures trainer, simulator, and Citation jet.

AVSC 4300
Ground Airline Transport Pilot/Aircraft Dispatcher
3:3:0 **F; 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 **F; 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
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
• Corequisite(s): AVSC 485R
For upper division Aviation majors. Provides on the job work experience that will utilize student's skills and abilities in the field of Aviation. Includes student, employer, and coordinator evaluations, on-site work visits, written assignments, and oral presentations. Completers should obtain experience in establishing and accomplishing individualized work objectives that improve work performance. May be repeated twice for credit.

AVSC 485R
Cooperative Related Class
1:1:0 **F, Sp; DE**
• Prerequisite(s): Instructor approval
• Corequisite(s): AVSC 481R
For upper division Aviation Science majors. Identifies on the job managerial problems through class discussion and study. Teaches resume and job interview letter writing, interview techniques, and personal and career goal setting. Includes lecture, guest speakers, case analysis, role playing, oral presentations, and written assignments. May be repeated twice for

Course Descriptions

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

Su, 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

Su, 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

Su, 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

Su, 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

Su, 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, lien laws, labor laws, and tax laws.

BCCM 1260

Computer Estimating

2:2:0

Su, F, Sp

• Prerequisite(s): BCCM 1230 or estimating experience

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 1270

Construction Scheduling

2:2:0

Su, F, Sp

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.

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).

BESC—BEHAVIORAL SCIENCE

BESC 1000

Behavioral Science Forum

2:2:0

F, Sp

For students interested in exploring a Behavioral Science major. Offers an overview of curriculum, major requirements, faculty and their specialties, study and writing helps and guidelines, campus resources and career possibilities. Utilizes lectures, guest speakers, field trips, and application-oriented activities.

BESC 3000

Behavioral Science Models

3:3:0

Not 07-08

• Prerequisite(s): ANTH 1010 and PSY 1010 and SOC 1010 and (ENGL 2010 or ENGL 2020)

Required class for Behavioral Science Honors students and Integrated Studies students seeking an emphasis in Behavioral Science. Meets one of the Allied Credit Requirements for all other Behavioral Science Students. Integrates Anthropology, Psychology, and Sociology. Emphasizes theories and research methods. Examines professional and ethical issues in each of these disciplines.

BESC 3100

Career Preparation for Behavioral Science Majors

2:2:0

F, Sp

• Prerequisite(s): (ANTH 1010 or PSY 1010 or SOC 1010 or SW 1010) and (ENGL 2010 or ENGL 2020)

Emphasizes the development of skills necessary to successfully apply for employment and/or graduate school. Includes resume writing, cover letters and basic interview skills. Also includes the preparation of acceptable application packages, and learning how to network with school and community resources to find employment and/or graduate school opportunities.

BIOL—BIOLOGY

BIOL 1010**

BB

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

A general laboratory experience covering introductory topics in general biology. Designed to complement the student's experience in the General Biology 1010 course with emphasis on the application of the scientific method. Includes actual student experiences with living organisms, use of the microscope, field excursions and an introduction to techniques used in the study of life.

BIOL 101H

BB

General Biology[†]

3:3:0

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

BB

Heredity

3:3:0

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)

BB

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.

BIOL 1500 (Cross-listed with: ANTH 1020)

BB

Biological Anthropology

3:3:0

F

• Prerequisite(s): ENGL 1010 and (ANTH 1010 or BIOL 1010)

For students with special interests in Anthropology or the Life Sciences. Studies fossils and living primates, primate biology and behavior. Surveys humanoid fossils. Investigates human evolution and variations of basic biology as it pertains to human development. Stresses the importance of the distribution and diversity of humankind.

BIOL 1610

BB

College Biology I

4:4:0

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

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.

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)

BB

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.

BCCM

BESC

BIOL

Course Descriptions

BIOL 2500 **BB**
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**
 Explores and examines special topics relating to the field of Biology. Emphasizes areas of rapid growth in Biology or current importance to society. May be repeated for a total of six credits toward graduation.

BIOL 295R **GB**
Independent Studies in Life Sciences
I to 4:0:3 to I2 **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 3300
Developmental Biology
3:3:0 **F**
 • Prerequisite(s): BIOL 1620
 Examines the principles of Developmental Biology with emphasis on the specialization of cells and their organization into body plans. Recommended for Biology Majors interested in developmental processes.

BIOL 3400
Cell Biology
3:3:0 **F, Sp**
 • Prerequisite(s): BIOL 1610 and CHEM 1220
 For Biology majors or those desiring more knowledge of this subject. Studies the cell as an organism emphasizing structure and function correlations.

BIOL 3405
Cell Biology Laboratory
I:0:3 **Su, 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
3:3:0 **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 **Su, F, Sp**
 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 3600 (Cross-listed with: CHEM 3600)
Biological Chemistry
3:3:0 **Sp**
 • Prerequisite(s): CHEM 2320
 Introduces principles of the chemical processes that define living organisms. Covers structure and function of proteins, carbohydrates, lipids, and nucleic acids. Explores metabolic pathways, biosynthesis, enzymatics, thermodynamics, membrane dynamics and related processes within a living cell. Emphasizes molecular mechanisms of reactions and their outcomes.

BIOL 3605 (Cross-listed with: CHEM 3605)
Biochemistry Laboratory
I: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)

Introduces the relationships between organisms and their environment, including population, community and ecosystem processes. Specific topics include adaptation to abiotic factors and the influence of these factors on distribution and abundance; survivorship, age structure, and growth of populations; life history patterns, species interactions, community structure and diversity, biome structure and distribution, and energy flow and nutrient cycles in ecosystems. Also presents the impact of humans on ecological processes.

BIOL 3705
General Ecology Laboratory
I: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 physiochemical characteristics and different groups of organisms found in freshwater habitats. Includes weekly laboratory.

BIOL 4200 (Cross-listed with: CHEM 4200, GEO 4200)

Teaching Methods in Science

3:3:0

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

I to 5:I to 5:0 to 10

Su, F, Sp

• 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:I:2

Su, F, Sp

• 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

Su, F, Sp

• 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

I: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 481R

Biology Internship

I to 4:0:5 to 20

• Prerequisite(s): BIOL 1620 and Instructor Approval
Allows biology majors to earn credit while obtaining practical and research experience as an intern in a government, nonprofit, private agency, or with an approved employer. Must be supervised by agency representative and faculty advisor. Department chairperson approval required and written contracts must be completed and signed. May be repeated for a maximum of 5 credits.

BIOL 490R

Special Topics in Biology

I to 4:0 to 4:0 to 8

On Sufficient Demand

• Prerequisite(s): BIOL 1620

Explores and examines special topics relating to the field of biology. Emphasizes areas of rapid growth in biology or current importance to society. May be repeated for a total of six credits toward graduation.

BIOL 494R

Seminar

I:I: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 495R

Student Research

I to 4:0:3 to 12

Su, F, Sp

• Prerequisite(s): BIOL 1620, CHEM 1210, Junior or Senior Standing, and instructor permission
Provides guided research studies in biology under the direction of a Biology Department faculty mentor. Includes any combination of literature reviews, original research, and/or participation in ongoing departmental projects. Involves students in the methodology of original biology research. Requires preparation and presentation of oral and/or written reports. Results may form the basis of the senior thesis in the major, if thesis option is chosen. May be repeated for four credits toward graduation.

BIOL 499R

Senior Thesis

I 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.

BIOL

Course Descriptions

BIT—BUILDING INSPECTION TECHNOLOGY

BIT 1010

Building Codes

3:3:0 Su, F, Sp; DE

Teaches the nonstructural standards of the Uniform Building Code. Includes occupancy classifications, building area, height and location limits, exit requirements, and fire-resistive standards.

BIT 1020

Residential Codes

3:3:0 F, Sp

Teaches the nonstructural standards of the International Residential Code. Includes foundations, walls, floors, roofs, finishes, heating, cooling, plumbing and electrical codes as they apply to residential construction.

BIT 1170

Field Lab--Building Codes

1:0:3 Su, F, Sp

For students, building inspectors, architects, and builders. Provides practical on-the-job experience in inspecting footings, foundation walls, reinforcement steel, the building structure, and interior and exterior coverings.

BIT 1230

Plan Review

3:3:0 F, Sp

• Prerequisite(s): BIT 1010 or instructor's approval.
Designed to introduce students to the techniques of nonstructural plans examination through familiarization of the plan and construction documents, specifications, and the application of code requirements.

BIT 1240

Plumbing Codes

3:3:0 Su, F, Sp; 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 Su, 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 Su, 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 3700

Principles of Business/Marketing Education

3:3:0 F

• Prerequisite(s): Admittance into the secondary teacher education program, EDSC 2540, EDSC 3000; or instructor approval
Provides background and foundation of business/marketing teacher education for students seeking a secondary education degree. Includes curriculum standards, competency-based instruction and assessment, student achievement, textbook selection, exploring available resources, equipment selection and management, and establishing

classroom procedures. Explores student organizations, professional associations, advisory committees, relationships with colleagues, and dealing with various publics and stakeholders. Addresses career and technical education, current research, issues and trends in business and marketing education, teacher growth and development, professionalism and career development. Field experience required.

BMED 4200

Methods of Teaching Digital Technology

3:3:1 Sp

• Prerequisite(s): BMED 3700, DGM 2350, DGM 2360, DGM 2370, 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** **BB**
4:3:2 **F, Sp**

• Prerequisite(s): BIOL 1010 or BIOL 1610 or instructor permission

Surveys of the Divisions (Phyla) traditionally studied by botanists, emphasizing structure, reproduction, systematics, and evolution. Completers should be familiar with the morphological features of the major prokaryotic, fungal, algal, and plant groups. Includes a weekly laboratory.

BOT 3340 **Plant Biology** **F**
4:3:2

• 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** **Su, F, Sp**
4:3:2

• 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** **Sp**
3:2:2

• 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** **F**
3:2:2

• 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** **F**
3:2:2

• 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** **Sp**
3:3:0

• Prerequisite(s): BIOL 1620 and CHEM 1220
• Corequisite(s): BOT 4605

Covers the physiological processes occurring in plants. Includes experimental techniques used in the investigation of processes such as photosynthesis, water and solute transport, tissue culture, growth regulation and responses and plant hormones. Involves problem solving and critical thinking skills. Students can not receive credit for both BOT 4600 and BOT 3340.

BOT 4605 **Plant Physiology Laboratory** **Sp**
1:0:3

• 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** **Su, F, Sp**
3:1:4

• 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.

CA—CULINARY ARTS

CA 1120 **Cooking Skills Development** **F, Sp**
4.5:2:7.5

• 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 end 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** **F, Sp**
4.5:2:7.5

• Prerequisite(s): Matriculation and acceptance into the Culinary Arts Institute
• Corequisite(s): CA 1120 and CA 1310

Teaches basic baking and pastry skills in a commercial kitchen environment. Stresses the use of standardized recipes and procedures. Provides daily end product critiquing. Includes simple yeast-raised products, quick breads, pies, and custards. Emphasizes sanitary food handling practices and professional work habits.

CA 1150 **Nutrition and Food Service** **Sp**
3:3:0

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** **Su, F, Sp**
4.5:2:7.5

• 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** **Su, F, Sp**
4.5:2:7.5

• 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** **F, Sp**
3:3:0

• Corequisite(s): CA 1120 and CA 1130

Teaches principles and practices

Course Descriptions

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

9:4:15

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

• 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) or Instructor approval

Combines patisserie skills learned in other culinary arts classes to develop advanced skills in the production of fine baked products. Stresses the use of standardized recipes and procedures. Includes cakes, torts, pastries, chocolate, and desserts. Provides daily end-product critiquing.

CA 282R

Culinary Arts Internship

3 to 8:1:10 to 35

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

ACF

1:0.5:2

F, Sp

For Culinary Arts students who are interested in participating with a national professional association (American Culinary Federation). Prepares students to participate in local, state, and national competitions. May require payment of membership dues. A maximum of four credits may be applied toward graduation.

CA 299R

VICA

1:0.5:2

F, Sp

For Culinary Arts students who are interested in participating with a national vocational student organization (Vocational Industrial Clubs of America) that develops social awareness, civic responsibility, vocational and leadership skills through participation in educational, vocational, civic, recreational, and social activities. Prepares students to participate in local, state, and national competitions. May require payment of membership dues. A maximum of four credits may be applied toward graduation.

CA 481R

Cooperative Work Experience

2 to 9:1:5 to 40

Su, F, Sp

• Prerequisite(s): Approval of 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 college. Credit is determined by the number of hours a student works during the semester. Completers meet individually set goals. Six credits may be applied toward 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.

Course Descriptions

CAW 114B Millworking and Safety Shop I 2.5:0:7.5 Sp

Laboratory for Cabinetry students. Covers half of CAW 1140. Teaches fundamentals of woodworking machines and standard millwork operations. Studies correct construction techniques. Teaches safety the first 15 hours and stressed throughout the course.

CAW 1150 Design Drafting and Billing 3:3:0 F

For CAW majors and other interested community members. Teaches detailed drawing concepts, writing bills of materials, and material cost estimates. Uses all elements of good design.

CAW 1170 Finish Technology 2:2:1 F

For CAW majors and other interested community members. Studies types of stains, fillers and finishes, and techniques to properly prepare wood. Teaches hand and spray painting. Includes lab experience.

CAW 1210 Cabinetmaking Materials and Hardware 1:1:0 F

Emphasizes characteristics of wood, plastic laminates, plywoods, and particle boards. Discusses proper use and residential hardware. Covers specifications, types, selection, and installation.

CAW 1240 Millworking Shop II 5:0:15 Sp

A second semester shop course for CAW students and interested community members. Teaches the design and construction of more difficult millworking projects. Studies advanced 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 jointers, finishing techniques, and fastening devices. Stresses safety.

CAW 1250 Drafting and Computer Applications for Cabinetmakers 4:4:0 Sp

Emphasizes design, purpose, function, appearance, materials, and construction for quality cabinetmaking. Covers efficient timesaving methods. Teaches material cost estimating. Teaches basic CNC software. Uses computer software Cabinet Vision and Master CAM.

CAW 2300 Counter-top Technology 3:3:0 Sp

Explores methods used to produce different types of counter-tops. Studies high pressure laminates, solid wood, solid surface, tile, and stone. Includes field trips to counter-top shops.

CAW 2310 Cabinetry Math 2:2:0 F

Covers math used in cabinetmaking. Includes fractions, decimals, percents, interest, volume, and metrics. Studies special trade formulas. Students receive instruction through structured situations to cope with the special problems required in the woodworking industry.

CAW 2340 Millworking Shop III 5:0:15 F

Custom cabinetmaking shop. Practice in making and setting up custom shaper knives, doing custom flat and curved veneer and lamination work. Includes lathe work on the duplicator attachments. Completers should be able to enter the field as a cabinet and architectural woodwork trainee.

CAW 234A Millworking Shop III 2.5:0:7.5 F

Custom cabinetmaking shop. Covers half of CAW 2340. Practice in making and setting up custom flat and curved veneer and lamination work. Includes lathe work on the duplicator attachments. Completers should be able to enter the field as a cabinet and architectural woodwork trainee.

CAW 234B Millworking Shop III 2.5:0:7.5 Sp

Custom cabinetmaking shop. Covers half of CAW 2340. Practice in making and setting up custom shaper knives, doing custom flat and curved veneer and lamination work. Includes lathe work on the duplicator attachments. Completers should be able to enter the field as a cabinet and architectural woodwork trainee.

CAW 2430 Commercial Cabinetry Technology 4:1:9 F

Studies zoning, shop flow, and production set. Includes field trip to commercial cabinet shop. Teaches set up of machines used in the industry.

CAW 2440 Millworking Shop IV 5:0:15 Sp

A culminating architectural woodworking shop. Students build projects demonstrating advanced skills learned in previous shop courses.

CAW 244B Millworking Shop IV 2:0:6 Sp

Culminates previous architectural woodworking courses. Covers half of CAW 2440. Requires advanced skills, learned previously, to complete projects.

CAW 2450 Machine Maintenance and Upkeep 2:2:0 Su, F, Sp

Studies the maintenance and upkeep of machines and tools used in the woodworking industry. Focuses on sharpening, routine maintenance, machine set-up, adjustments, and diagnosing problems.

CAW 281R Cooperative Work Experience 1 to 8:0:5 to 40 F, Sp

• Corequisite(s): CAW 285R the first time only
For CAW majors. Provides paid, on-the-job work experience in the student's major. Work experience, the related class, and enrollment are coordinated by the Cooperative Coordinator. Includes student, employer, and coordinator evaluations, on-site work visits, written assignments, and oral presentations. Provides experience in writing and completing individualized work objectives that improve present work performance. May be repeated twice for credit.

CAW 285R Cooperative Correlated Class 1:1:0 F, Sp

• Corequisite(s): CAW 281R the first time only
For CAW majors. Identifies on-the-job problems and provides remediation of those problems through in-class discussion and study. Includes the study of identifying and maximizing service opportunities. Students register for this class with approval of the Cooperative Coordinator. Includes lectures, guest speakers, video tapes, role playing, case analysis, oral presentations, and written assignments. Completers should be better able to perform in their field of work or study. May be repeated twice for credit.

CAW 299R Skills USA 1:1:0 F, Sp

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.

CAW

Course Descriptions

CHEM—CHEMISTRY

CHEM 1010 **PP** **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 **PP** **Elementary Chemistry for the Health Sci-** **ences** **4:4:0** **Su, F, Sp**

Prerequisite(s): MATH 1010 or equivalent
Introduces the fundamentals of chemistry to students in the health sciences. Covers chemical measurements and calculations, atomic structure, chemical bonding, chemical reactions, states of matter, solutions, chemical equilibrium, acid-base systems, and introduces organic chemistry.

CHEM 1115 **Elementary Chemistry Laboratory** **1:0:2** **Su, F, Sp**

• Corequisite(s): CHEM 1010 or CHEM 1110
Introduces inorganic laboratory experiments including density, precipitation, determination of empirical formulas, gas laws and acid-base reactions.

CHEM 1120 **PP** **Elementary Organic Bio-Chemistry** **4:4:0** **F, Sp**

• Prerequisite(s): CHEM 1110

An introductory organic and biochemistry class for non-chemistry majors entering nursing and other allied health fields such as medical technology, physical therapy, nutrition, and environmental technology. Studies the nomenclature of organic compounds, organic functional groups and their reactivities, stereochemistry, major biomolecules and their metabolism, enzymes, chemical communications, and chemistry of heredity. May also be used to prepare for organic chemistry (CHEM 2310 and 2320). Students who need or desire laboratory work should enroll in CHEM 1125 also.

CHEM 1125 **Elementary Organic Bio-Chemistry Labora-** **tory** **1:0:3** **F, Sp**

• Prerequisite(s): CHEM 1110 and CHEM 1115
• Corequisite(s): CHEM 1120
An introductory organic bio-chemistry laboratory class for non-chemistry majors who need a laboratory to accompany Elementary Organic Bio-Chemistry (CHEM

1120). Explores identifications and reactions of organic functional groups and conducts experiments with biomolecules.

CHEM 1210 **PP** **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 UVSC
• 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 **PP** **Principles of Chemistry II** **4:4:0** **Su, F, Sp**

• Prerequisite(s): CHEM 1210
• Corequisite(s): CHEM 1225
Continuation of Chemistry 1210. Primarily for students in the physical and biological sciences and engineering. Covers intermolecular interactions, properties of solutions, kinetics, equilibria, thermodynamics, and electrochemistry.

CHEM 1225 **Principles of Chemistry II Laboratory** **1:0:3** **Su, F, Sp**

• Prerequisite(s): CHEM 1215
• Corequisite(s): CHEM 1220
Primarily for students in the physical and biological sciences and engineering. Continuation of CHEM 1215. Experiments follow topics in CHEM 1220.

CHEM 2310 **GP** **Organic Chemistry I** **4:4:0** **F, Sp**

• Prerequisite(s): CHEM 1210 and CHEM 1220
The first in a series of two organic chemistry classes for students majoring in science and for those interested in careers in medicine, dentistry, veterinary science, and pharmacy, who must complete two semesters of organic chemistry. Teaches bonding and structures of organic molecules. Explores the relationship between structure and reactivity of organic functional groups. Introduces the concepts of nomenclature, stereochemistry, and reaction mechanism.

CHEM 2315 **Organic Chemistry I Laboratory** **1:0:4** **F, Sp**

• Corequisite(s): CHEM 2310
The first of a series of two laboratory courses to accompany CHEM 2310 and 2320. For students majoring in science and those interested in careers in medicine, dentistry, veterinary science, and pharmacy. Introduces safety in organic chemistry lab and chemical waste disposal. Teaches basic separatory, purification, and analytical techniques in organic chemistry such as crystallization, melting points, distillation and chromatography. Introduces organic synthesis using simple organic reactions. Introduces natural product isolation.

CHEM 2320 **GP** **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 2325 **Organic Chemistry II Laboratory** **1:0:4** **F, Sp**

• Prerequisite(s): CHEM 2315
• Corequisite(s): CHEM 2320
The second of a series of two laboratory courses to accompany CHEM 2310 and 2320. For students majoring in science and those interested in careers in medicine, dentistry, veterinary science, and pharmacy. Provides hands-on experience in organic synthesis using a series of single and multistep transformations. Teaches identification of products of reactions using spectroscopic techniques. Explores biologically important organic molecules.

CHEM 3000 **Analytical Chemistry** **4:2:6** **F**

• Prerequisite(s): CHEM 1225
For Chemistry majors and others interested in the basic principles of chemical measurement. Studies principles of quantitative analysis, stoichiometry, equilibrium theory, volumetric and gravimetric analysis. Includes introduction to instrumental methods and error analysis. Includes lectures and laboratory exercises.

<p>CHEM 3020 Environmental Chemistry 3:3:0 F</p> <ul style="list-style-type: none"> • Prerequisite(s): CHEM 1225 • Corequisite(s): CHEM 3025 <p>Studies the chemistry of soil, ground water, hazardous waste, and the atmosphere. Explores current environmental concerns and issues.</p> <p>CHEM 3025 Environmental Chemistry Laboratory 1:0:3 On Sufficient Demand</p> <ul style="list-style-type: none"> • Prerequisite(s): CHEM 1225 <p>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.</p> <p>CHEM 3060 Physical Chemistry I 4:4:0 F</p> <ul style="list-style-type: none"> • Prerequisite(s): PHYS 2220, MATH 2210 <p>Introduces laws of thermodynamics and chemical thermodynamics. Covers changes of state and equilibrium. Introduces quantum mechanics.</p> <p>CHEM 3070 Physical Chemistry II 4:4:0 Sp</p> <ul style="list-style-type: none"> • Prerequisite(s): CHEM 3060 <p>Continuation of Chemistry 3060. Covers quantum mechanics, spectroscopy, kinetics, and statistical thermodynamics.</p> <p>CHEM 3090 Physical Chemistry Applications in Biology 3:3:0 Sp</p> <ul style="list-style-type: none"> • Prerequisite(s): MATH 1220, CHEM 2320 <p>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.</p> <p>CHEM 3100 Inorganic Chemistry 4:4:0 Sp</p> <ul style="list-style-type: none"> • Prerequisite(s): CHEM 3000 recommended (may be taken as a corequisite) <p>Reviews major trends across the periodic table. Surveys basic structure, bonding, and oxidation states of the elements. Introduces inorganic stereochemistry including coordination compounds.</p> <p>CHEM 3115 Physical and Inorganic Chemistry Laboratory 1:0:4 Sp</p> <ul style="list-style-type: none"> • Prerequisite(s): CHEM 3000, CHEM 3060 • Corequisite(s): CHEM 3100, CHEM 3070 <p>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.</p>	<p>CHEM 3600 (Cross-listed with: BIOL 3600) Biological Chemistry 3:3:0 F, Sp</p> <ul style="list-style-type: none"> • Prerequisite(s): CHEM 2320 <p>Introduces principles of the chemical processes that define living organisms. Covers structure and function of proteins, carbohydrates, lipids and nucleic acids. Explores metabolic pathways, biosynthesis, enzymatics, thermodynamics, membrane dynamics and related processes within a living cell. Emphasizes molecular mechanisms of reactions and their outcome.</p> <p>CHEM 3605 (Cross-listed with: BIOL 3605) Biochemistry Laboratory 1:0:4 Sp</p> <ul style="list-style-type: none"> • Corequisite(s): CHEM 3600 <p>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.</p> <p>CHEM 3700 Forensic Chemistry 3:3:0 Sp</p> <ul style="list-style-type: none"> • Prerequisite(s): CHEM 3000, CHEM 2320 • Corequisite(s): CHEM 4000, CHEM 4005 <p>For students in forensic chemistry emphasis and for chemistry majors interested in forensic science. Studies the challenges, methods, and analyses of forensic science from a fundamental, chemical perspective.</p> <p>CHEM 3800 (Cross-listed with: ENVT 3800, PHYS 3800) Energy Use on Earth 3:3:0 F</p> <ul style="list-style-type: none"> • Prerequisite(s): (PHYS 1010 or PHSC 1000 or CHEM 1010 or GEO 1010 or GEO 2040 or METO 1010) and MATH 1050 <p>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.</p> <p>CHEM 4000 Instrumental Analysis 2:2:0 Sp</p> <ul style="list-style-type: none"> • Prerequisite(s): CHEM 3000, CHEM 3070 • Corequisite(s): CHEM 3115 <p>Covers modern instrumental methods and basic principles of instrumentation. Includes spectroscopic and chromatographic analysis.</p>	<p>CHEM 4005 Instrumental Analysis Laboratory 2:0:6 Sp</p> <ul style="list-style-type: none"> • Prerequisite(s): CHEM 3000, CHEM 2325 • Corequisite(s): CHEM 4000 <p>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.</p> <p>CHEM 4200 (Cross-listed with: BIOL 4200, GEO 4200) Teaching Methods in Science 3:3:0 F, Sp</p> <ul style="list-style-type: none"> • Prerequisite(s): Acceptance into secondary education program; senior-level standing <p>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.</p> <p>CHEM 425R Chemistry for Teachers I to 5:I to 5:0 to 5:0 to 10 Su</p> <ul style="list-style-type: none"> • Prerequisite(s): Departmental Approval <p>For licensed teachers or teachers seeking to recertify. An update course in chemistry and/or a basic chemistry course for the chemistry endorsement from the Utah State Office of Education. Teaches principles of chemistry and pedagogy of teaching chemistry for teachers in public or private schools. Emphasis will be placed on correlation with the Utah Core Curriculum, the National Science Education Standards, and the Benchmarks of Project 2061. Topics will vary.</p> <p>CHEM 482R Chemistry Internship I to 4:0:5 to 20 Su, F, Sp</p> <ul style="list-style-type: none"> • Prerequisite(s): CHEM 2320 and a minimum GPA of 3; and Departmental approval of the internship proposal. <p>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.</p> <p>CHEM 491R Advanced Topics in Inorganic Chemistry 3:3:0 On Sufficient Demand</p> <ul style="list-style-type: none"> • Prerequisite(s): CHEM 1220 and instructor's permission. CHEM 3100 or CHEM 3600 or BIOL 3600 recommended <p>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.</p>
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Course Descriptions

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 I to 4:0:3 to 12

• Prerequisite(s): 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.

Su, F, Sp

CHIN—CHINESE

CHIN 1010

Beginning Chinese I 5:5:1

Studies Mandarin. Emphasizes oral proficiency in pronunciation and basic conversation as well as traditional grammar concepts. First priority is receptive language learning, then verbally-expressive language learning. Reading and writing are studied in CHIN 1020.

LH

F

CHIN 1020

Beginning Chinese II 5:5:1

• Prerequisite(s): Students need equivalent knowledge of CHIN 1010

Continues the same mode of learning as CHIN 1010 with renewed emphasis on conversational skills. Introduces characters and elementary calligraphy, reading and writing.

LH

Sp

CHIN 2000

Chinese Character Writing 2:2:0 On Sufficient Demand

• Prerequisite(s): Basic Chinese speaking ability
Prepares students who have oral fluency in Chinese to read and write Chinese (Kanji Characters). Develops skills in sentence and paragraph writing according to Chinese language norms and format.

CHIN 2010

Intermediate Chinese I 5:5:1

• 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 diglot weave (mixture of English and Chinese) and character-Romanization mix to ease learning of characters.

LH

F

CHIN 2020

Intermediate Chinese II

3:3:0

• Prerequisite(s): Students need equivalent knowledge of CHIN 2010

Emphasizes increased communicative ability as well as grammatical accuracy; adds more complex, literary grammatical structures, as well as discussion of contemporary cultural and political themes. Includes reading of basic 1000 characters and writing of basic 450-600 characters. Uses diglot weave (mixture of English and Chinese) and character-Romanization mix to ease learning of characters.

HH

Sp

CJ—CRIMINAL JUSTICE

CJ 100R

Forensic Science Lecture Series

1:1:0

Consists of lectures presented by guest speakers on current topics in forensic science. May apply a maximum of three credits toward graduation.

Su, F, Sp

CJ 1010

Introduction to Criminal Justice

3:3:0

Presents the processes, institution, and administration of criminal justice in the United States. Examines the crime problem and criminal law. Discusses criminal law, law enforcement, criminal prosecution, criminal defense, bail, the jury system, and sentencing. Explores the correctional system; namely, probation, prisons, inmates' rights, and parole.

Su, F, Sp; DE

SS

CJ 1300

Introduction to Corrections Process

3:3:0

• Prerequisite(s): CJ 1010 and ENGL 1010

Introduces the corrections system. Includes origin and evolution, philosophies of corrections, perspectives on sentencing, and alternatives to incarceration. Includes community corrections, probation and parole, offender rights and legal issues; adult, juvenile, and special needs offenders; corrections specialists, staff and administration as a profession and special challenges for the future.

F, Sp; DE

CJ 1330

Criminal Law

3:3:0

• Prerequisite(s): LEGL 1000 or CJ 1010

Provides an overview of criminal law and procedures. Covers history and terminology of the criminal justice system, the elements of specific offenses, and the role of the paralegal in the fact-gathering process.

Su, F, Sp; DE

CJ 1340

Criminal Investigations

3:3:0

• Prerequisite(s): CJ 1010 and ENGL 1010

Introduces criminal investigation including necessary functions of interviewing

F, Sp; DE

witnesses and suspects, preservation and collection of evidence, and crime scene processing including post-crime scene processing of evidence.

CJ 1350

Introduction to Forensic Science

3:3:0

• Prerequisite(s): CJ 1010

Studies the importance of proper identification, collection and preservation of physical evidence. Teaches laboratory techniques and services available to the law enforcement professional as they relate to physical evidence.

F, Sp; DE

CJ 135L

Introduction to Forensic Science Laboratory

1:0:3

• 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 tool mark 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.

Sp, F

CJ 1390

Police Field Operations

3:3:0

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.

Sp

CJ 1800

POST Module I

7:7:0

• 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.

Su, F

CJ 1810

POST Module II

11:11:0

• 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

Sp

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

Covers principles and practice of the law of evidence. Teaches legal issues including admissibility of evidence, judicial notice, burdens of proof, hearsay, documentary evidence, evidentially privileges and witnesses.

CJ 281R

Internship

1 to 8:0:5 to 40 Su, F, Sp

• Prerequisite(s): Approval of 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 3:3 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

Course Descriptions

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. Presents the anatomy of the human foot, its relationship to the manufacturing process, and resulting impressions. Explains crime scene protection and searching procedures. Explains why footwear impressions are overlooked and how to find them. Identifies and lists the basic equipment needed for footwear recovery at the crime scene. Identifies applicable chemical formulas and instructs in the preparation of chemical reagents used to visualize footwear impressions. Teaches lighting and other enhancements used to record and preserve footwear evidence. Recovers footwear evidence through photography, lifting, and casting. Teaches the methodology of footwear identification by image comparison techniques.

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, test tire impressions, and tire tread drawings. Explains what can be learned without a suspect's vehicle. Explains what can be learned when you do have a suspect's tire. Advises on preparing for trial and obtaining a consultant. Presents one case from the beginning to end. Presents a test case example on tire imprint identification.

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

Presents the history of fingerprint examination. Teaches recent technical advances in fingerprint development and examination. Describes the theory and make-up fingerprints, palm prints, and foot prints. Teaches "Superglue Enhancement" techniques. Explores different photographic techniques for preserving fingerprints. Explores different charting and comparison techniques. Teaches the criteria used to determine successful identification versus non-identification. Practices fingerprint identification in Latent Fingerprint Workshop. Organizes and archives casework.

CJ 3740

Fingerprint Examination III

3:3:0

On Sufficient Demand

• Prerequisite(s): Instructor's Consent

Emphasizes the best established and emerging new methods for developing latent prints. Reviews latent print identification, composition, and chemistry. Teaches techniques directed at lipid-soluble components. Reviews traditional fingerprint development techniques. Teaches development by ninhydrin and its analogues. Teaches detection with photo luminescent nanoparticles. Teaches the use of silver physical developer. Updates the use of automated Fingerprint Identification and Imaging Systems. Teaches statistic-based measurements of individuality. Teaches strategies in systematic fingerprint comparison. Presents a Practical Crime Scene Exercise. Critiques and reviews.

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 Moot 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 On Sufficient Demand

• Prerequisite(s): CJ 1330 and CJ 2350 each with a C+ or higher

Stresses the importance of background checks, polygraph tests and personal integrity. Teaches Professional Competence: training, degrees and certificates, publications, affiliations, testimony track record, continuing education. Describes the duties and the special privileges of opinion testimony afforded to expert witnesses. Explains the Rules of Evidence and statistical reliability as they pertain to scientific data and findings. Presents guidelines for case review and report writing. Discusses trial strategy, testimony, presentations, and dangers that confront the expert witness at court. Discusses cross-examination strategies. Teaches professional business practices including personal organization, contracts for hiring the expert for professional services, consultation, correspondence, record keeping, fee setting, and fee collection.

CJ 4060

Special Problems in Criminal Justice

3:3:0 On Sufficient Demand

• Prerequisite(s): Acceptance into the Criminal Justice Bachelor Degree Program and Senior Standing

Presents causes and prevention of white collar and organized crime. Studies gangs and the way they establish their bases as well as other current interest topics selected by the instructor.

CJ 4160

Constitutional Rights and Responsibilities

3:3:0 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 Justice program

Emphasizes the development of effective techniques for successfully locating, applying for and securing employment as well as advancing in a Criminal Justice related career path. Includes industry and job research, demonstration, role play, and application exercises. Should be taken during second semester junior year. Provides preparation for coop/internship experience.

CJ 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

CJ

Course Descriptions

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 443R

Directed Research in Forensic Science 2 to 7:1:3 to 15 On Sufficient Demand

• Prerequisite(s): Instructor Approval
Provides undergraduate research. Guidance by a faculty member directs literature data, experimental design, data acquisition, interpretation of results, and conclusion. Written report, suitable in 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 2350, ENGL 2010 or ENGL 2020
Studies local, county, state, and federal law enforcement systems, their operation and areas of jurisdiction. Compares foreign and United States criminal justice systems. Presents opportunities available in criminal justice areas.

CJ 481R

Internship 1 to 8:0:5 to 40 Su, F, Sp

Provides actual, on-the-job work experience on a paying or non-paying (volunteer) basis in a criminal justice profession or other approved related situation. Emphasizes successful work experience, with emphasis on identifying and solving problems. Completers should be qualified to work in the Criminal Justice profession.

CJ 487R

Criminal Justice Field Experience 1 to 6:1 to 5:3 to 15 On Sufficient Demand

• Prerequisite(s): Junior or Senior status required
Provides students access to law enforcement agencies, prisons, detention centers, courts and institutions dealing with criminals and delinquents. Includes 2-3 weeks of intense classroom instruction, interviews, and lectures by practitioners in the field and several on-site visits of varying duration. Course may be repeated five times for a total of six hours of credit.

CJ 4880

Qualitative Research Methods in Criminal Justice 3:3:0 F, Sp

• Prerequisite(s): Senior Standing in Criminal Justice Bachelor's Degree Program
Presents the types of research in which criminal justice educators and practitioners engage. Emphasizes the application of basic research practices to law enforcement and corrections problems. Includes the use of American Psychological Association (APA) style.

CJ 491R

Directed Reading and Special Projects 1 to 3:1 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): ACT of 19 or above, or DRP of 50-57, or Compass Reading Score of 45-52
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): Pass CLSS 0800 with a C- or above, or ACT of 19 or above, or DRP of 58-69, or Compass Reading Score of 53-66
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 07-08

• Prerequisite(s): Appropriate reading skills
Variable credit course that surveys essential skills for success in college. Topics covered include: memory, note taking, test taking, textbook reading and study strategies, time management, writing processes, and thinking skills.

CLSS 1030

Student Leadership Development I 2:1:3 F

Provides an overview of leadership styles, personalities, and organizational dynamics for student leaders. Explores the structure and culture of Student Leadership, Utah Valley State College, 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

Course Descriptions

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): Pass CLSS 0900 with a C-, or ACT of 19 or above, or DRP of 70 or above, or Compass Reading Score of 67 or above

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): ACT of 19 or higher, or DPR above 77, or Compass Reading Score above 74

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): ACT of 19 or above, or DRP of 80 or above, or Compass Reading score of 78 or above

For independent learners with good reading skills who want to more efficiently and effectively understand and remember what they are reading in college texts. Presents a wide variety of critical thinking and reading strategies. Offered only online.

CLSS 1200

The 7 Habits of Highly Effective People

3:3:0 **Su, F, Sp**

Provides the foundation for personal leadership by teaching fundamental principles of character and life-changing paradigms. Examines the personal and organizational components of

effectiveness. Focuses on high leverage changes such as time management, communication skills, win/win negotiation, and principle-centered life choices. Prepares students for life-long success. Includes highly interactive class discussions, application exercises, videos, and group work.

CLSS 1300

Learning to Learn

2:2:0 **Not 07-08**

- 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 **F, Sp**

For students seeking help in the selection of majors and careers. Assesses and clarifies interests, skills, values, and personal characteristics. Explores college majors, careers, and the world of work. Integrates knowledge of self with career options. Teaches decision-making skills to help students make well-informed career decisions and goals. Develops an action plan for graduation.

CLSS 2200

Leadership Mentoring I

3:3:0 **Sp**

- 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.

CLSS 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 college; identifies UVSC college resources, policies,

and procedures; and stresses effective academic strategies. UV Mentors develop communication and leadership skills as they process and integrate classroom experiences and responsibilities, while they assist first-year students. Includes lectures, collaborative learning activities, field experiences, case studies, student presentations, journal writing and portfolios.

CLSS 240R

Leadership Mentoring Practicum

2:1:10 **F, Sp**

- 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.

CLSS 281R

Internship

1 to 8:0:5 to 40 **F, Sp**

- Prerequisite(s): Department Approval
- Corequisite(s): CLSS 2100 recommended

Provides supervised, practical, and professional experience for students exploring a variety of career areas. May be repeated for a maximum of eight credit hours.

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 **F, Sp**

Teaches Associated Press-style writing for the mass media. Focuses on organizing and presenting information to a mass audience. Emphasizes news writing.

COMM 120R

Communication Forum

1:1:0 **On Sufficient Demand**

Facilitates students in engaging contemporary communication issues. Provides enriched learning situations in

CLSS

COMM

Course Descriptions

which students may interact with noted guest scholars. Includes discussions, lectures, symposia, field trips, outreach projects and other activities oriented to immerse students in the study of communication. Meets with the Communication Club. Grading is credit/no credit. May be repeated for a total of four credits.

COMM 128R **GF**
Forensics
3:3:0 **F, Sp**

• Prerequisite(s): COMM 1020
 Designed for students interested in inter-collegiate speech and theatre competition. Studies all aspects of intercollegiate speech competition and prepares the student for specialization in areas of the student's choice. Includes debate, public speaking, limited preparation speaking, oral interpretation, and reader's theatre. Members of the class will compete in forensics tournaments. Includes lecture, demonstration, practice speeches, and tournament competition. May be repeated up to four times.

COMM 1500 **HH**
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 **HH**
Mass Communication and Society
3:3:0 **Sp**

• Prerequisite(s): COMM 1500
 Examines relationships between mass communication and society from a variety of theoretical perspectives and social concerns.

COMM 2100
The News Editing Process
3:3:0 **Sp**

• Prerequisite(s): COMM 1130
 Introduces news judgment, content, and forms. Prepares and edits copy for publication, including rewriting faulty stories, copy editing, proof-reading, headlines, newspaper design, and picture editing.

COMM 2110 (Cross-listed with: MGMT 2110) **SS**
Interpersonal Communication
3:3:0 **Su, F, Sp; DE**

Examines the role of communication in interpersonal relationships. Includes the history of interpersonal communication research and theory, and applications such as negotiation, conflict management, listening, and assertiveness.

COMM 2120
Small Group Communication and Decision Making
3:3:0 **Sp**

Provides an overview of the communication processes involved in small group interactions. Covers theories of leadership, decision-making, and problem-solving through group activities.

COMM 2130
Television News Writing and Reporting
3:1:6 **F, Sp**

• Prerequisite(s): (COMM 1130 or COMM 1610) and DGM 2110
 Teaches advanced techniques in news writing and reporting for applied, multimedia contexts. Produces news stories for print, radio, television, and internet. Covers news selection, interviewing techniques, field reporting, news videography, and script-writing for the various media. Produces voice overs (VO), voice over to sound on tape (VO-SOT), and news packages for student-produced television newscast. Requires students to supply news packages for student-produced newscasts.

COMM 2200
Broadcast Journalism Anchoring and Producing
3:1:6 **F**

• Prerequisite(s): (COMM 1130 or COMM 1610) and DGM 2110
 Teaches television news writing, anchoring, and the non-technical aspects of producing. Requires students to produce a weekly newscast in conjunction with students from Broadcast Production, and Multimedia News Writing and Reporting.

COMM 2270
Argumentation
3:3:0 **F, Sp**

Examines the study of argument. Emphasizes reasoning, evidence, analysis, evaluation, audience analysis, and practice.

COMM 2280 **GF**
Oral Interpretation
3:3:0 **Sp**

• Prerequisite(s): COMM 1020 or THEA 1033 or THEA 1113
 Prepares students to perform individual oral interpretation of literature. Presents techniques relative to the interpretation of poetry, prose, and drama. Introduces interpreter's theatre. Completers should be conversant with the three major divisions of theatrical literature and be skilled in verbal

and non-verbal communication as applied to theatrical productions.

COMM 2300
Public Relations
3:3:0 **Su, F, Sp; 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 **F, Sp**

• Prerequisite(s): COMM 1610
 For students interested in pursuing careers in journalism. Focuses on non-fiction writing for magazine consumption. Teaches how to research and write long, investigative feature articles. Includes analysis of the early magazine industry, contemporary issues in the magazine industry, and in-depth reporting on special topics, such as science, politics, culture and society, education, environment, and international affairs.

COMM 281R
Internship
I 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
I:1:0 **On Sufficient Demand**

• Prerequisite(s): COMM 1610, Approval of instructor and department chair.
 For qualified students who wish to

undertake a well-defined project or directed study related to an area of special interest. Requires individual initiative and responsibility. Includes limited formal instruction and faculty supervision. Projects may include writing a publishable paper, creating a portfolio of published news articles, producing an annotated bibliography, oral or multimedia presentation, or other options as approved by the instructor.

COMM 290B

Independent Study

2:2:0 On Sufficient Demand

- Prerequisite(s): COMM 1610, Approval of instructor and department chair.

For qualified students who wish to undertake a well-defined project or directed study related to an area of special interest. Requires individual initiative and responsibility. Includes limited formal instruction and faculty supervision. Projects may include writing a publishable paper, creating a portfolio of published news articles, producing an annotated bibliography, oral or multimedia presentation, or other options as approved by the instructor.

COMM 290C

Independent Study

3:3:0 On Sufficient Demand

- Prerequisite(s): Approval of instructor and department chair.

For qualified students who wish to undertake a well-defined project or directed study related to an area of special interest. Requires individual initiative and responsibility. Includes limited formal instruction and faculty supervision. Projects may include writing a publishable paper, creating a portfolio of published news articles, producing an annotated bibliography, oral or multimedia presentation, or other options as approved by the instructor.

COMM 290D

Independent Study

4:4:0 On Sufficient Demand

- Prerequisite(s): COMM 1610, Approval of instructor and department chair.

For qualified students who wish to undertake a well-defined project or directed study related to an area of special interest. Requires individual initiative and responsibility. Includes limited formal instruction and faculty supervision. Projects may include writing a publishable paper, creating a portfolio of published news articles, producing an annotated bibliography, oral or multimedia presentation, or other options as approved by the instructor.

COMM 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 3130

The Culture of Nature and Technology

3:3:0 F

- 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 3320 (Cross-listed with: MGMT 3320)

Cross-Cultural Communications for International Business

3:3:0 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 3400

Film Theory

3:3:0 Not 07-08

- 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 3410 (Cross-listed with: SW 3410, PSY 3410, LEGL 3410)

Fundamentals of Mediation and Negotiation

3:3:0 F, Sp

- 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 On Sufficient Demand

- Prerequisite(s): COMM 1500, COMM 2010

Presents selected topics in mass communication, and will vary from semester to semester. Requires a project demonstrating competency in the specific topic. May be repeated once with different topics for a total of six (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

- Prerequisite(s): COMM 1500, COMM 2300

Examines public relations strategic planning process through the analysis of case studies. Addresses issues in media relations, crisis communications, ethics, creative planning, research, and evaluation, using real-world situations and clients.

COMM 3530

Public Relations Writing

3:3:0 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 F

- 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 Sp

- 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

Course Descriptions

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

• 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 television narrative strategies and structures. Includes the production of a long-format video story. May be repeated for a maximum of 6 credits toward graduation.

COMM 4100 (Cross-listed with: SW 4100, PSY 4100, LEGL 4100)

Advanced Mediation and Negotiation

3:3:0

Su, 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

3:1:6

F, Sp

• Prerequisite(s): COMM 2200

For students with interests in careers in broadcast journalism. Teaches live anchoring skills, television studio control room operations, television news direction, production, studio camera operation, audio control, computer graphics, teleprompter, and tape operator duties for on-air college newscasts. May be repeated three times for a total of twelve (12) credits.

COMM 479R

Journalism Workshop

3:1:6

F, Sp

• Prerequisite(s): COMM 2790 or consent of instructor

For student newspaper staff. Gives experience in writing, editing, and publishing. Students work on the student newspaper completing specific learning objectives related to print production such as news and feature writing, columns and editorials. May include layout, production, photography, advertising, and sales. May be repeated once for credit.

COMM 481R

Internship

1 to 8:0:5 to 40

Su, F, Sp

• Prerequisite(s): Departmental Approval

For upper division students working toward a Bachelor of Arts or a Bachelor of Science degree in Integrated Studies with a Communication emphasis. Provides a transition from school to work where academic concepts are applied to actual practice through on-the-job experience commensurate with upper-division classroom instruction. Requires instructor approval and final report. Repeatable for a total of 8 credits.

COMM 4930

Communication Capstone

3:3:0

Su, F, Sp

• Prerequisite(s): Communication major and senior status

Discusses the integration of various principles and objectives covered across the communication curriculum. Includes major thesis or project designed to reflect students' career goals.

CRT—COLLISION REPAIR TECHNOLOGY

CRT 100R

Paint Your Own Car

2:1:4

Su, F, Sp

Designed as a survey class. Discusses and demonstrates safety, sanding, masking, feather edging, priming, and refinishing of student's vehicle. Students will refinish their own projects in this class. Body and fender dents, rust out, etc., should be taken care of before class enrollment. The instructor will inspect and approve each project prior to allowing it in the program. Course is open to any community member who may profit from the instruction. May be repeated as desired for interest.

CRT 1110

Surface Preparation

4:1.5:7

F

Presents how to prepare metal surfaces for painting through removing finishes and rust, sanding old finishes, applying and sanding fillers. Teaches how to mask for, mix, and spray on primer surfaces. Covers block sanding, use of two-part fillers, removal of wax and grease, blow-out, and surface pre-cleaning. Uses ICAR Advanced Technical Curriculum. Successful completers should be prepared for ASE certification. Includes lecture, lab, and demonstrations. Taught in a five week block.

CRT 1120

Nonstructural Repair

4:1.5:7

F

Teaches how to analyze minor damage and apply metal working techniques. Studies application of rough out, ridge alignment, hammer and dolly, heat shrinking, pick and file, and grinding methods. Presents application of body fillers and shaping. Emphasizes safety precautions. Includes lecture, demonstrations, and lab. Uses ICAR Advanced Technical Curriculum. Successful completers should be prepared for ASE certification.

CRT 1130

Overall Refinishing and Problem Solving

4:1.5:7

Sp

Teaches use and maintenance of shop paint spray equipment. Studies types of sealers, their use and application. Discusses refinish products and recommended refinish systems. Teaches removal of orange peel or sags left in the refinishing process. Covers cutting and buffing. Includes lecture, demonstrations, and lab. Uses ICAR Advanced Technical Curriculum. Successful completers should be prepared for ASE certification.

CRT 1210
Blending Tinting and Detailing
4:I.5:7 **Sp**
 Teaches how to remove paint with paint remover. Studies grinding off oil, painting, feather edging, primer-surface block sanding, and paint coloring. Presents preparation and refinishing of a vehicle in single, double, and triple stage finishes. Includes lecture, demonstrations, and lab. Uses ICAR Advanced Technical Curriculum. Successful completers should be prepared for ASE certification.

CRT 1220
Panel Replacement and Adjustment
4:I.5:7 **Sp**
 Teaches removal, replacement, and alignment of bolt-on body panels. Presents rust removal and sheet metal fabrication by using metal brake, stretcher, shrinking tools, and other hand and machine techniques. Includes lecture, demonstrations, and lab. Uses ICAR Advanced Technical Curriculum. Taught in five week block. Successful completers should be prepared for ASE certification.

CRT 1230
Welding and Cutting
4:I.5:7 **F**
 Introduces gas welding, followed by intense study of MIG welding and spot welding of steel and aluminum. Studies the most common joints as they apply to current vehicles. Includes lecture, demonstrations, and lab. Uses ICAR Advanced Technical Curriculum. Successful completers should be prepared for ASE certification.

CRT 2310
Collision Damage Reporting
4:I.5:7 **F**
 Teaches estimating procedures. Uses Crash Estimating Guide. Covers labor and material costs, judgment of repairs, estimating, and insurance nomenclature. Includes computer-generated damage reporting, page logic, and ethical problem solving. Uses lecture, guest speakers, and practice exercises. Includes lecture, demonstrations, and lab. Uses ICAR Advanced Technical Curriculum. Successful completers should be prepared for ASE certification.

CRT 2320
Structural Damage Analysis
4:I.5:7 **F**
 Teaches visual inspection, gauging, measuring, laser technology, and procedures needed to correctly evaluate primary and secondary structural damage. Includes lecture, demonstrations, and lab. Uses ICAR Advanced Technical Curriculum. Successful completers should be prepared for ASE certification.

CRT 2330
Structural Repair
4:I.5:7 **F**
 Teaches methods, strategies, and technology needed to align and straighten unibody and frame components made from high stretched steel and plastics. Studies alignment of steering and suspension components. Includes lecture, demonstrations, and lab.

CRT 2410
Full and Partial Panel Replacement
4:I.5:7 **Sp**
 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 2420
Plastic Repair
4:I.5:7 **Sp**
 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:I.5:7 **Sp**
 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 2510
Custom Welding
4:I.5:7 **F**
 • Prerequisite(s): CRT 1110, CRT 1120, CRT 1130, CRT 1210, CRT 1220 and CRT 1230
 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. Includes theory and lab.

CRT 2520
Customizing
4:I.5:7 **F**
 • Prerequisite(s): CRT 1110, CRT 1120, CRT 1130, CRT 1210, CRT 1220 and CRT 1230
 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 frenching, shaving, body modifications, convertible conversions, building hood scoops, louvers, flare, and other technical customizing processes. Includes theory and lab.

CRT 2530
Panel Fabrication
4:I.5:7 **F**
 • Prerequisite(s): CRT 1110, CRT 1120, CRT 1130, CRT 1210, CRT 1220 and CRT 1230
 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, kraftfomer, plenisier hammer, shrinkers, and stretchers. Teaches panel fabrication and hammer forming. Includes theory and lab.

CRT 2610
Top Chopping Sectioning and Channeling
4:I.5:7 **Sp**
 • Prerequisite(s): CRT 1110, CRT 1120, CRT 1130, CRT 1210, CRT 1220 and CRT 1230
 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 to top chopping, sectioning and channeling techniques.

CRT 2620
Frames
4:I.5:7 **Sp**
 • Prerequisite(s): CRT 1110, CRT 1120, CRT 1130, CRT 1210, CRT 1220 and CRT 1230
 For students pursuing a Diploma or an AAS degree in Collision Repair Technology with an emphasis in Custom Street Rod Technology or interested community members with a welding background. Identifies the different types of frames and how to modify them. Teaches sub-framing, pro-streeting, narrowing of rear ends, drive shafts, and complete frame change over. Covers exhaust systems and other alternations, front to rear. Includes theory and lab.

CRT 2630
Detailing and Custom Painting
4:I.5:7 **Sp**
 • Prerequisite(s): CRT 1110, CRT 1120, CRT 1130, CRT 1210, CRT 1220 and CRT 1230
 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 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. Includes

Course Descriptions

theory and lab.

CRT 281R **Cooperative Work Experience** **1 to 8:0:5 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** **F, Sp**

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**

• MAT 0990 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
For those with previous programming language experience. Presents Microsoft Visual Basic. Emphasizes Rapid Application Development (RAD) methodologies using Visual Basic. Covers event-driven software, visual and non-visual components. Introduces database interfacing and connectivity and multi-tier client/server designs.

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-plus-plus Programming** **3:3:0** **On Sufficient Demand**

• Prerequisite(s): CS 1400
Covers practical C++ programming in-depth, including advanced operator overloading and memory management, proper use of exceptions, defensive programming techniques, automated testing, multiple inheritance, advanced memory management, proper use of the standard template library, and programming.

CS 239R **Current Topics in Computer Science** **1 to 3:1 to 3:0** **On Sufficient Demand**

• Prerequisite(s): Department approval
Discusses emerging technologies and state-of-the-art topics of current interest in computer science. Varies each semester depending upon the state of technology. A maximum of three 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 3:0 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 8:0:5 to 4:0 Su, F, Sp
 • Prerequisite(s): Department approval
 Provides on-the-job work experience for CNS majors. Utilizes the skills and abilities in the fields of computer science, software engineering, networking, and/or computer engineering. May be repeated for a maximum of three credits toward graduation.

CS 291R
Independent Study
1 to 6:0 to 6:0 to 18 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 3:0 to 3:0 to 12 On Sufficient Demand
 Presents topics of current interest to computer science in a seminar environment. Includes invited lectures by experts in the field, or a review of a

particular technology by a faculty member. A maximum of three hours may be counted towards graduation without prior written CS Department approval.

CS 301R
Invited Speaker Series
1:1:0 F, Sp
 Guest speakers lecture on current topics in computer science, computer engineering, and electrical engineering. May be repeated for a maximum of one credit toward graduation.

CS 3050
Computer Ethics
3:3:0 Su, F, Sp
 • Prerequisite(s): CS 1030 or CS 1400 or INFO 1120 or DGM 1110
 Examines how computers have affected society and how they could further affect it in the future. Challenges students to (1) examine several types of ethical reasoning to establish an ethical framework to assist in making normative judgments, (2) examine various ethical issues surrounding computers, (3) understand the responsibilities they bear, to know how their actions can affect both society and individual people, and to appreciate both the good and the harm they can do and (4) consider many of the moral and professional issues that those who work with computers might expect to face.

CS 3060
Operating Systems Theory
3:3:0 F
 • Prerequisite(s): CS 2420 and CS 2810
 Introduces underlying theory of basic concepts of operating systems. Illustrates use of processes, tasks, threads, scheduling, queues, blocking, deadly embrace, etc.

CS 3220
Visual Basic Software Development
3:3:0 F
 • Prerequisite(s): CS 2420
 For those with previous programming language experience. Presents Microsoft Visual Basic. Emphasizes Rapid Application Development (RAD) methodologies using Visual Basic. Covers event-driven software, visual and non-visual components. Introduces database interfacing and connectivity and multi-tier client/server designs.

CS 3240
Introduction to Computational Theory
3:3:0 F, Sp
 • Prerequisite(s): CS 2300, MATH 1220, PHYS 2220
 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, Sp
 • Prerequisite(s): CS 2420
 Covers features of the Java Programming Language, emphasizing mastery of core Java packages, java.lang, java.io, java.util, and other commonly-used library packages. Topics include abstract classes, interfaces, inner classes, JavaBeans, I/O operations in depth, collections and algorithms, reflection, threads, the Java Event Model, basic Swing Components, and XML processing. Introduces common idioms and design patterns. Emphasizes accepted software engineering

CS 3260
CsharpNET Software Development
3:3:0 F, 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 Engineering
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 F
 • 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

Course Descriptions

Libraries (DLLs), the Windows file system, and performance issues.

CS 3370

C-plus-plus 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 3520

Database Theory

3:3:0

Su, F, Sp

• Prerequisite(s): CS 2300, CS 2420

For Computer Science majors. Introduces theory, concepts, architecture, and use of database management systems (DBMS). Presents the relational and object-oriented database models used in both local and client/server databases. Discusses the Structured Query Language (SQL), database design, normalization theory, and relational calculus relating to database management systems.

CS 3540

Game Programming

3:3:0

F

• Prerequisite(s): CS 2420; CS 3370 recommended.

Presents programming techniques for two and three dimensional graphics programming using DirectX, OpenGL, and/or similar graphics platform. Includes application of artificial intelligence concepts to game programming. Also includes use of network programming

techniques for development of multi-player games.

CS 3550

Internet Software Development

3:3:0

Su, F, Sp

• Prerequisite(s): CS 3250

Covers Internet programming concepts and sophisticated applications for today's World Wide Web. Includes client side and server side code development.

CS 3660

Web Server Administration and Program- ming

3:3:0

Sp

• Prerequisite(s): CS 3550

Covers web programming techniques such as 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 1060. (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.

CS 4100

Database Management System Construction

3:3:0

Su, F, Sp

• Prerequisite(s): CS 3520 and (CS 3220 or CS 3250 or CS 3260)

Looks at issues involved in actually implementing a DBMS. Students will implement a relational DBMS. Features of the DBMS include project, select and join, indexing, B+ trees, parsing and query optimization.

CS 4230

Software Testing and Quality Engineering

3:3:0

F

• Prerequisite(s): CS 2450 and MATH 2040

Provides a comprehensive exploration of strategies for testing computer systems. Includes unit testing, system testing, developing software testing organization,

and establishing software Total Quality Management (TQM) programs. Students will conduct system tests of software packages.

CS 4260

Digital System Simulation

3:3:0

Sp

• Prerequisite(s): CS 3060, MATH 2040

Introduces simulation of the methods used to study the behavior of digital systems. Includes the study of discrete simulation models, queuing theory, the generation of random numbers and varieties, and stochastic processes. Compares popular simulation languages and commercially available simulation tools. Describes approaches to design of simulation experiments and the analysis of experimental data.

CS 4380

Advanced/High-Performance Computer Architecture

3:3:0

F

• Prerequisite(s): CS 3060

Presents theory and concepts of high-performance computer architectures. Includes digital logic, buses, registers, ALU's, control units, pipelining, parallelism, DASD's, SASD's, RAID, caching, instruction-sets, memory hierarchy, multiprocessing, interconnection via networks.

CS 439R

Advanced Current Topics in Computer Science

1 to 3:0 to 3:0 to 12 On Sufficient Demand

• Prerequisite(s): Department approval

Provides exposure to emerging technologies and topics of current interest in computer science. Varies each semester depending upon the state of technology. A maximum of three hours may be counted towards graduation without CNS Department approval.

CS 4400

Software Engineering II

3:3:0

F

• Prerequisite(s): CS 2450

Covers principles and practices of early phases of software development life cycle. Studies software requirements elicitation, analysis, and design. Includes in-depth, practical study of at least one major 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 4410

Human Factors in Software Engineering

3:3:0

Sp

• Prerequisite(s): CS 3220 or CS 3250 or CS 3370 or INFO 2200

Studies issues of software analysis,

design, and development for and from the perspective of computer-human interaction. Emphasizes design of the computer-human interface, effective presentation of data via graphics, color, text, sound, etc. to the user. Uses development tools for effective graphic presentation, the elements of effective information presentation to users.

CS 4450

Analysis of Programming Languages

3:3:0

F

• Prerequisite(s): CS 3240

Offers the mature student an in-depth understanding of the design and implementation of programming languages. Criteria for evaluating programming languages are established as a context for comparing both traditional and current popular languages. Topics include the evolution of programming languages, syntax analysis, the concept of binding, type checking, static and dynamic scoping, control structures, subprograms and parameter passing methods, concurrency, and exception handling. Explores the functional programming paradigm in-depth. Includes programming assignments in at least two different programming languages, at least one of which being a functional language such as LISP, Scheme, ML, or Haskell.

CS 4470

Artificial Intelligence

3:3:0

F

• Prerequisite(s): CS 3240, MATH 1220, and (CS 3220 or CS 3250 or CS 3260)

Presents theory, organization, concepts, and principles of artificial intelligence methodologies including neural networks, expert systems, machine learning algorithms, and genetic algorithms.

CS 4480

Digital Image Processing and Computer Vision

3:3:0

Sp

• Prerequisite(s): CS 2300, CS 2420, MATH 1220.

Prepares students for creating software solutions in the multimedia market of today and into the future. Covers digital sampling of analog signals, basic image processing in the spatial domain and frequency domain, edge and line detection, photo enhancement, feature extraction, and object recognition.

CS 4490

Compiler Construction

3:3:0

Sp

• 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

Su, F, Sp

• Prerequisite(s): CS 3520, INFO 3410, CS 3690

Covers transaction processing, concurrency control techniques, database recovery techniques, database security and authorization, database integrity, distributed databases and client-server architectures, load balancing, data warehousing, data mining, database machines, mobile database, multimedia database, GIS, genome data management, data fragmentation, data encryption, locking, and deadlock.

CS 4510

Operating Systems Design and Simulation

3:3:0

Sp

• Prerequisite(s): CS 4380

Presents architecture, principles concepts, design, implementation, and simulation of modern operating systems. Studies architecture, design, and simulation of an operating system. Discusses queuing, scheduling, resource allocation, and memory management.

CS 4550

Software Engineering III

3:3:0

Sp

• Prerequisite(s): CS 4400

Senior-level, capstone project experience course. Requires operating as part of a high performance team. Includes completing the design and implementation of a large-scale software development project. Combines major milestone presentations to project clients, completing a portfolio of project-related artifacts, and offer an evaluation of the project and team experience.

CS 4600

Enterprise Architecture

3:3:0

F

• Prerequisite(s): INFO 3410 and CS 3690 and (CS 3220 or CS 3250 or CS 3260 or CS 3370)

Explore 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

F

• Prerequisite(s): CS 3690

Provides theoretical, practical, administrative perspectives of the TCP/IP protocol and its use with the Internet. Includes coverage of IPv4, IPv6, TCP, OSPF and related protocols, IP addressing, subnetting issues, and domain name

services are also covered.

CS 4650

Directory-Based Networks

3:3:0

F

• Prerequisite(s): CS 1400, CS 3690. INFO 3630 recommended.

Presents 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

Sp

• 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.

CS 479R

Advanced Current Topics in Computer Science

I 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

I 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 course work. Studies the specification, analysis, design, implementation, and completion of a complex and comprehensive project. Requires a project/portfolio using project management techniques. A maximum of three hours may be counted towards graduation without prior written Computer Science Department approval.

Course Descriptions

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 1010

Dance as an Art Form

3:3:0

For students with an interest in multi-cultural dance and movement expression. Studies the different ways in which world cultures are expressed through dance and movement. Overviews dance history and traces the evolution of dance as an art form. Examines the art and craft of dance making, dance as an expression of culture and community. Explores dance as artistic expression in 20th Century America. Includes guest lecturers, demonstration, and studio experiences.

DANC 1100

Beginning Ballet

1:0:2

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

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

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

For intermediate level ballet students. Requires ability to handle the varying technical difficulties of classical ballet. Includes theories from Soviet, French, Italian, American, English, and Danish schools. Provides hands-on experience in barre and center floor work to increase strength, flexibility. Emphasizes body alignment and correct placement. Successful completers should be fully prepared to participate in a 227R ballet course. May be repeated for a total of 18 credits.

DANC 1330

Studio Workshop--Creative Process in Dance

1:0.5:1.5

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

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

• Prerequisite(s): Audition

First level modern dance technique for Dance majors. Focuses on development of solid foundational skills in modern dance technique and theory that prepare the student for an intensive major program. Emphasizes the development of strength, flexibility, core support, coordination, kinesthetic awareness and memory, and movement expressiveness. Includes experience in improvisation and composition as a means of understanding and applying technical skills in performance settings. May be repeated for a total of six credits toward graduation.

DANC 144R

Modern Dance Technique and Theory I

3:1:6.5

• Prerequisite(s): DANC 143R

First level modern dance technique for Dance majors. Focuses on development of solid foundational skills in modern dance technique and theory that prepare the student for an intensive major program. Emphasizes the development of strength, flexibility, core support, coordination, kinesthetic awareness and memory, and movement expressiveness. Includes experience in improvisation and composition as a means of understanding and applying technical skills in performance settings. May be repeated for a total of six credits toward graduation.

DANC 1500

Beginning Jazz Dance

1:0:2

Gives students experience in jazz dance including rhythms, style, and jazz techniques. Includes basic jazz terminology

DANC 1510

Intermediate Jazz Dance

1:0:3

• 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

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

• 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

Teaches basic steps, styling and history of clogging. Includes dances and freestyle clogging choreography.

DANC 1550

Clogging II

1:0.5:1.5

• Prerequisite(s): DANC 1540 or equivalent experience

Teaches buck-style clogging and steps of complex rhythm and structure. Includes upper body movement patterns and emphasizes total body coordination.

Course Descriptions

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 dance styles 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 **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 Foxtrot, Triple Swing, Waltz, and Cha Cha. Emphasizes, on a beginning level, correct rhythm, poise, footwork and foot positions, dance position, and etiquette. Successful completers will have a good general knowledge of Bronze level curriculum.

DANC 1710 International Ballroom Dance I

1:0:2 **Su, F, Sp**
For students seeking ballroom dance experience. Teaches beginning (Bronze) level patterns of International Ballroom Dance including Waltz, Quickstep, and Tango. Introduces correct rhythm, poise, footwork, foot positions, dance position, 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 07-08**
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 07-08**
• 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

FF

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 **F**
• Prerequisite(s): Intermediate equivalent skill level to be determined by audition
First of a two-semester sequence. Must be taken in sequence. For ballet students at an intermediate or higher skill level. Studies theatre dance based on ethnic styles within ballet performance context.

DANC 2260 Character Dance II

1:0:3 **Sp**
• Prerequisite(s): DANC 2250
Second of a two-semester sequence course. Must be taken in sequence. For ballet students at an intermediate or higher skill level. Studies theatre dance based on ethnic styles within ballet performance context.

DANC 227R Ballet Technique II

3:1:6.5 **F, Sp**
• Prerequisite(s): Instructor Approval
For advanced level ballet students. Requires ability to handle the varying technical difficulties of classical ballet. Includes theories from Soviet, French, Italian, American, English and Danish schools. Provides hands-on experience in barre and center floor work to increase strength, flexibility and artistic interpretation. Emphasizes body alignment and correct placement. Successful completers should be fully prepared to participate in an upper division classical

DANC

Course Descriptions

ballet course. May be repeated for a total of 18 credits.

DANC 2330 Improvisation

1:0:3 **Sp**
• Prerequisite(s): DANC 1330
For students interested in experiencing and developing skills in physical inventiveness and performance intuition and immediacy. Provides guided exploration in the elements of dance for the creative development of personal movement vocabulary, spontaneous group interaction, and the ability to recall and give form to movement generated improvisationally.

DANC 2340 Composition

2:1:3 **F**
• Prerequisite(s): DANC 2330
For students interested in experiencing and developing skills in dance composition. Includes conceptual and practical exploration of the basic elements of dance in both solo and group forms. Investigates the relationship between choreographic intention, movement invention, content, and form/structure. Introduces choreographic devices and forms and encourages experimentation in the choreographic process. Emphasizes the process of creating and giving form to a personal movement vocabulary.

DANC 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, Argentine Tango, Capoeira, Balinese and Tibetan Folk Dance. Focuses on learning specific dance forms through active participation. Includes integration of theoretical, historical and social concepts which deepen the student's understanding of the context in which the dance form was practiced historically and is practiced today. May be repeated for a total of 6 credits towards graduation.

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

Course Descriptions

be repeated for up to four credits toward graduation.

DANC 281R **Internship in Dance I** **1 to 3:0.5:2.5 to 12.5**

• 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 UVSC 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.

F, Sp

DANC 3140 **Dance Production and Lighting** **2:I:2**

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.

Sp

DANC 3150 **Music for Ballet Dancers** **2:I:2**

• 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, chirography, and performance.

F

DANC 3160 **Dance Accompaniment** **2:I:2**

• 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.

Sp

DANC 321R **Pointe III** **1:0:3**

• 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

F, Sp

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:I:6.5**

• 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.

F, Sp

DANC 3330 **Modern Dance Workshop** **2:I:2**

• 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.

F

DANC 3340 **Ballet Choreography** **2:I:2**

• Prerequisite(s): DANC 2230, DANC 2340
• Corequisite(s): (DANC 327R, DANC 427R, or DANC 428R) and (DANC 321R or DANC 421R)
For dance majors desiring ballet emphasis. Investigates and explores the choreographic process with relationship to narration as well as all choreographic concepts. Includes the creation of student works that give shape and form to ideas based on a specific theme or statements. Examines plot, character, and theme as part of the creative process.

Sp

DANC 3350 **Choreography** **2:I:2**

• 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

Su, F, Sp

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:I:2**

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).

XF

F, Sp

DANC 341R **Modern Dance Technique and Theory III** **3:I:6.5**

• Prerequisite(s): By audition
For students interested in building technical, performance, and theoretical understanding and skills in modern dance. Emphasizes body and performance techniques; axial and locomotor skills; total body connectivity movement progressions; increased spacial, rhythmical, and qualitative acuity; risk-taking; and movement commitment. Includes aspects of composition, improvisation, and performance as they relate to technique. May be repeated for up to 9 credits total toward graduation.

F

DANC 342R **Modern Dance Technique and Theory III** **3:I:6.5**

• Prerequisite(s): DANC 341R or by audition
For students interested in building technical, performance and theoretical understanding and skills in modern dance. Expands on the skills and concepts introduced in DANC 341R. Emphasizes body and performance techniques, axial and locomotor skills, total body connectivity movement progressions; increased spacial, rhythmical, and qualitative acuity; risk-taking; and movement commitment. Includes aspects of composition, improvisation, and performance as they relate to technique. May be repeated for up to 9 credits total toward graduation.

Sp

DANC 3450 **Modern Dance Teaching Methods** **3:3:0**

• 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

F

DANC

Course Descriptions

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 **GF**

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 Bartenieff Fundamentals to varied movement contexts. Explores the connections between Laban Movement Analysis (LMA) elements of Body, Effort, Shape, and Space and applies the connections to developing increased ease in movement function and liveliness of expression in many movement forms. Develops increased skill and awareness in movement sensation, perception, practice, observation, analysis, prescription, and interpretation. Utilizes LMA symbology. Involves lecture, participation, observation, and written and verbal analysis. May be repeated for 4 credits toward graduation.

DANC 3670

Movement Analysis

3:3:0

Sp

- Prerequisite(s): DANC 2670 or equivalent, DANC 265R or equivalent

An advanced survey course in movement analysis. Focuses on application of the concepts and theories of Laban Movement Analysis in the context of observing, recording, analyzing, and making meaning from human body movement. Includes in-depth study of motif score writing and applying Body, Effort, Shape and Space Harmony paradigms. Utilizes physical performance and written and verbal observation methods. Examines application to disciplines that concern themselves with human movement behavior such as behavioral sciences, 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 3730

American Social Dance Teaching Methods 2:2:0 Sp

- Prerequisite(s): DANC 1700 or equivalent skill level, DANC 2700 or equivalent skill level

For dance majors and other students with an interest in teaching social dance. Focuses primarily on teaching techniques using Bronze level patterns. Emphasizes calling steps. Explores proper music selection and tempo. Includes actual teaching time of peers and a beginning class. Completers should be able to adequately teach social dance in either a formal or informal setting.

DANC 3740

Ballroom Dance Choreography 2:1:2 Sp

- Prerequisite(s): DANC 2700, DANC 2710, DANC 2720

For dance majors in the Dancesport emphasis. Investigates and explores the choreographic process with reference to choreographic concepts. Involves the creation of dance skills that give shape and form to ideas based on a specific theme, style, or statement. Includes Latin, International Ballroom, American Rhythm and Smooth, and Cabaret styles. Explores formation team competition, solo couple competition, formation team stage performance, and solo couple stage performance as part of the creative process.

DANC 3750

Studies in Ballroom Dance Styles 2:2:0 F

For dance majors in the Dancesport emphasis. Investigates and explores historical ballroom dance styles. Emphasizes the social and cultural context in which ballroom dance is created and performed. Includes career, life style, education, gender, moral and ethical concerns related to ballroom dance issues. Also covers ballroom dance history, evolution, and current trends. Identifies similarities and differences between ballroom dance and other dance forms. Involves discussion, lecture, research, student presentations and participation.

DANC 376R

Ballroom Dance Company Reserve Tour Team 2:0:6 F, Sp

- Prerequisite(s): Audition

For students with advanced ballroom dance experience. Teaches American, International Ballroom, and Latin techniques using intermediate and

advanced choreography in performance and competitive discipline. Includes choreography, stage performances, competitions, and demonstrations with increased emphasis on dance technique and proper execution of formations. Requires individual practice. Prepares dancers for audition to touring team. May be repeated for eight credits toward graduation.

DANC 421R

Pointe IV 1:0:3 F, Sp

- Prerequisite(s): Advanced equivalent skill level to be determined by audition
- Corequisite(s): DANC 427R

For women dance majors and other students with an interest in the professional dance world. Emphasizes pointe. Continues to build strength and control through increased complex combinations. Explores advanced levels of styles from classical and contemporary repertoire. Develops virtuosity en pointe. Completers will have skills necessary to perform at a professional technical skill level. Includes guest teachers. May be repeated for a total of six credits toward graduation.

DANC 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

Repertory Ensemble 2:0:6 F, Sp

- Prerequisite(s): Advanced equivalent skill to be determined by audition.
- Corequisite(s): DANC 327R or DANC 427R

For serious ballet students showing a high level of talent and technical achievement. Explores the development of artistic interpretation as students learn styles of various repertoire works. Prepares students to perform as a competent corps de ballet member. May be repeated for a total of 12 credits toward graduation.

DANC 427R

Ballet Technique IV 3:1:6.5 F, Sp

- Prerequisite(s): DANC 327R or advanced equivalent skill level to be determined by audition
- Corequisite(s): DANC 421R

For ballet students at an advanced skill level who are able to handle the varying technical difficulties of classical ballet. Provides experience in barre and center floor work to increase strength and flexibility. Emphasizes the development of musicality as it relates to artistic interpretations. Successful completers will be prepared to participate on a corp de ballet professional performance level. May be repeated for a total of 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

Course Descriptions

DANC 4350

Senior Capstone I

1:1:0

F

• Prerequisite(s): DANC 3140 and DANC 3340 or DANC 3350

The first of two courses designed to prepare senior dance majors with the skills, resources, and portfolio/marketing materials needed to apply for graduate work or professional opportunities in dance. Emphasizes portfolio development and biographical writing, personal web page creation, audition and interview strategies, and dance resources. Includes writing, performance, research, and multimedia work.

DANC 4360

Senior Capstone II

2:2:0

Sp

• Prerequisite(s): DANC 4450

Designed for senior dance students as the second course in a capstone sequence. Emphasizes through choreography, performance, and production a synthesis of the knowledge and skills developed in the B.F.A. degree in Dance. Includes writing, collaborative work, discussion, lecture, and intensive studio preparation of choreography.

DANC 441R

Modern Dance Technique and Theory IV

3:1:6.5

F

• Prerequisite(s): By audition

An advanced level course for focused students interested in building technical, performance, and theoretical understanding and skills in modern dance. Emphasizes body and performance techniques, axial and locomotor skills, total body connectivity, movement progressions, increased spacial, rhythmical and qualitative acuity, risk-taking, and movement commitment. Includes aspects of composition, improvisation, and performance as they relate to technique. May be repeated for up to 9 credits total towards graduation.

DANC 442R

Modern Dance Technique and Theory IV

3:1:6.5

Sp

• Prerequisite(s): DANC 441R or by audition

A capstone technique course for students interested in rigorous technical, performance, and theoretical training. Emphasizes advanced performance sequences and progressions that utilize technical, kinesthetic, and expressive skills. Includes challenging spacial, rhythmical, and qualitative performance skills, risk-taking, and movement commitment. Includes aspects of composition, improvisation, and performance as they relate to technique. May be repeated for up to 9 credits total toward graduation.

DANC 4430

Dance Teaching Practicum

3:2:3

Sp

• Prerequisite(s): DANC 3450

For secondary dance licensure majors or dance majors interested in dance pedagogy. Builds on the methodologies, strategies, ideologies and philosophies of dance pedagogy studied in DNCE 3430. Emphasizes lesson plan and unit development, instruction, and assessment based on the National and Utah State Dance Standards. Focuses on the integration of theory and practice during a practicum experience in the secondary public schools setting. Includes writing, reading, discussion, and participation.

DANC 446R

Contemporary Dance Ensemble

2:0:6

F, Sp

• Prerequisite(s): By audition

• Corequisite(s): DANC 341R or DANC 342R or DANC 441R or DANC 442R

Designed for students with advanced technical, performance, and artistic skills. Provides students interested in further developing their artistry with opportunities to perform the works of professional choreographers in formal and informal settings. Explores a variety of contemporary and historical choreographic approaches. Prepares students for work in a professional modern dance company. May be repeated for a total of six credits.

DANC 471R

International Ballroom Dance IV

2:1:2

F, Sp

• Prerequisite(s): DANC 1710, DANC 2710, DANC 371R

For students who have successfully completed Bronze, Silver and Gold International Ballroom Dance classes and for members of the Ballroom Tour Team. Prepares students to dance, choreograph and compete on a championship amateur level. Teaches the Advanced (Gold-Bar) level patterns of International style Waltz, Quickstep, Tango, Foxtrot, and Viennese Waltz. Emphasizes, on a pre-professional level, correct poise, style, and rhythm. Also teaches and enhances correct footwork, foot positions, alignments, rise and fall, partnering, floor craft, body flight, precedes and follows, and correct leading and following. First semester successful completers will develop a general knowledge of Gold-Bar level curriculum. Second semester successful completers will develop an in-depth knowledge of Gold-Bar level curriculum. Must be repeated for four credits toward graduation.

DANC 472R

Latin Ballroom Dance IV

2:1:2

F, Sp

• Prerequisite(s): DANC 1720, DANC 2720, DANC 372R

For students who have successfully completed Bronze, Silver and Gold International Ballroom Dance classes and

for members of the Ballroom Tour Team. Prepares students to dance, choreograph and compete on a championship amateur level. Teaches the advanced (Gold-Bar) level patterns of Latin style Rumba, Samba, Cha Cha, Paso Doble, and Jive. Emphasizes, on a pre-professional level, correct poise, style, and rhythm. Also teaches and enhances correct footwork, foot positions, Cuban action, alignments, rise and fall, partnering, floor craft, precedes and follows, and correct leading and following. First semester successful completers will develop a general knowledge of Gold-Bar level curriculum. Second semester successful completers will develop an in-depth knowledge of Gold-Bar level curriculum. Must be repeated for four credits toward graduation.

DANC 4740

International Ballroom Dance Teaching

Methods

3:3:0

F

• Prerequisite(s): DANC 371R, DANC 3730

For Dancesport majors and other students interested in teaching International Ballroom classes. Covers technical and theoretical aspects of all basic figures in Waltz, 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 Dancesport majors and other students interested in teaching International Latin classes. Covers technical and theoretical aspects of all basic figures in Rumba, Samba, Paso Doble, Jive and Cha Cha. Focuses on areas such as Footwork, Rhythm, and Leads and Follows. Emphasizes correct teaching methods associated with each dance. Prepares students to obtain membership in the Imperial Society of Teachers of Ballroom Dance and to teach professionally.

DANC 476R

Ballroom Dance Company Tour Team

2:0:6

F, Sp

• Prerequisite(s): Audition

For students with advanced Ballroom Dance Team experience. Audition required. Teaches advanced technique in performance and competitive discipline. Includes choreography, performances, demonstrations, and tours, in formation team dancing, stage performance, team competition, team match, and individual competitive events. Requires individual practice. May be repeated for eight credits toward graduation.

DANC 481R

Internship in Dance II

1 to 3:0.5:2.5 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 UVSC and employer, completion of goals and tasks as required by academic department, and completion of final evaluation. May be repeated for a total of 6 credits towards graduation.

DANC 4880

Current Issues in Dance

3:3:0

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

Sp

- Prerequisite(s): Departmental permission required
- Presents the history, composition, chemical, and physical properties and use of materials commonly utilized in the dental laboratory and dental operator. Builds on dental sciences. Provides laboratory experience in performing common dental laboratory procedures and prepares for the clinical practice of expanded functions; all skills are taught to laboratory competence.

DENT 1040

Dental Hygiene II

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 2020

Dental Pharmacology

3:3:0

F

- Prerequisite(s): Departmental permission required
- Focuses on pharmacology as it affects the clinical practice of dentistry. Emphasizes drugs commonly used in dentistry, for treatment of common systemic and oral diseases, and for emergency treatment: effects, administration, and toxicology. Builds on basic and dental sciences and prepares for clinical dental hygiene practice.

DENT 2030

Periodontology

3:3:0

F

- Prerequisite(s): Departmental permission required
- Focuses on the study of the healthy periodontal tissues, and the factors, recognition, and classes of periodontal disease. Provides background knowledge of nonsurgical and surgical treatment of periodontal disease. Builds on basic and dental sciences and prepares for clinical dental hygiene practice.

DENT 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

Course Descriptions

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.

DGM—DIGITAL MEDIA

DGM 1000

Keyboarding Basics

1:1:1

F, Sp

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

F, Sp

• 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

3:3:0

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

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

For International Association of Administrative Professionals student chapter officers. Includes development, organization, and direction of the IAAP student chapter at UVSC. Graded credit/no credit. A maximum of four credits may be applied toward graduation.

DGM 2010

Business Computer Proficiency

3:3:0

Su, F, Sp

• Prerequisite(s): (DGM 1010 with a grade of B- or higher) or (Basic Computer Applications Exam with a score of 80% or higher)

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 presentation creation for formatting; spreadsheet design, charts, list manipulation, and a variety of basic, financial, statistical, and lookup functions; and database tables, forms, report generation, and 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

Presentations 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. Emphasizes hands-on experience along with lectures and demonstrations. This class may be taken for a total of nine credits, but curriculum may vary from one semester to another.

DGM 2110

Digital Cinema Essentials

3:2:3

Su, F, Sp

• Prerequisite(s): DGM 1210 or COMM 1130

• Corequisite(s): DGM 2130 recommended

Teaches the essential skills of Pre-Production, Production and Post Production process of Motion Pictures. Topics include cinematic storytelling, script writing, composition techniques, lighting principles, editing techniques, sound design and mixing to name a few. Participants create short films as their final projects. Includes lectures, demonstrations, reading assignments and labs.

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

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 Design†

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

3D 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 development techniques when creating Digital Media experiences. Laptop Required

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 menu design, overlays, navigation logic and usability, encoding schemas, authoring techniques, and building and formatting DVD's. Laptop Required

DGM 2300

Records and Information Management

3:3:0

F, Sp

Pre- Corequisite(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

Course Descriptions

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

Teaches intermediate word processing features in a Windows environment for the production of business letters, envelopes, multiple-page documents, reports, newsletters, tables, and other specialized business documents. Emphasizes identification and troubleshooting problems associated with soft copy document production. Stresses proper formatting.

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, letters, labels, 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

• Pre- Corequisite(s): DGM 2370

Emphasizes organizing projects, prioritizing tasks, working under time pressures, and dealing with stressful situations. Requires completion of advanced document production in an automated environment

using current versions of suite software packages. Includes machine transcription, integration of suite software components, effective use of groupware, and completion of group projects. 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 more 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 F

Teaches the history of radio, and the structure of typical radio stations, from management to programming and sales, and production and promotion. Covers method of producing radio promos, radio shows, commercials and news segments, as well as features and interviews. Examines

the use of Digital Audio Workstations to produce several radio segments of the student's choosing. Includes lectures, demonstrations, and guest lecturers from radio stations in the community.

DGM 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 college'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.

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/department applying on-set protocols

to meet the needs of production objectives.

DGM 260R

Special Topics in 2D/3D Animation I 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 2620

Principles of Animation I 3:2:3

• 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 I 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 make the

static content within a typical webpage more dynamic, interesting, and most importantly, useful. Culminates with a final project during which each student will design and create materials for use in a well-designed interactive web site.

DGM 2780

Authoring for the Internet I 3:3:0

• 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

I to 4:0:5 to 20

• Prerequisite(s): Departmental Approval

For Digital Media students to receive actual on-the-job work experience. Provides a transition from school-to-work where learned theory is applied to actual practice through a meaningful on-the-job paid experience. Includes student, employer and coordinator evaluations, on-site work visits, written assignments, and oral presentations. May be repeated for a maximum of 4 credits toward graduation.

DGM 296R

Seminar

I 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 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 3120

Developing Multimedia for Accessibility[†]

3:3:0

• Prerequisite(s): DGM 1210

Provides information regarding accessibility and digital media. Includes narrow-casting techniques for a specific special needs audience. Addresses broadcasting techniques for a general audience. Focuses on special populations that must be treated uniquely. Requires a service-learning project.

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[†]

I 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

• 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.

Course Descriptions

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, unique programming aspects of DVD functionality, and ROM capabilities. Laptop Required

Sp

DGM 3280

Authoring for Digital Devices

3:3:0

• 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

Sp

DGM 3290

Developing Digital Media for Instruction and Training

3:3:0

• Prerequisite(s): DGM 3265

Teaches the lifecycle of training and development in a business setting. Uses the Instructional System Design (ISD) process, which includes identifying performance deficiencies and appropriate interventions, developing objectives, selecting appropriate learning technologies, developing course content, selecting effective instructional aids, delivering training, and evaluating training effectiveness. Reviews basic educational principles in teaching adult learners and managing classroom dynamics. Examines legal issues, cross-cultural preparation, and workforce diversity as they relate to training and development. Provides hands-on training experiences. Completers should be prepared to apply basic principles to training and development opportunities.

F

DGM 330R

Advanced Topics in Digital Media Graphics I to 4:0 to 4:0 to 12 On Sufficient Demand

Intended for advanced students with an interest in digital graphics and design. Includes relevant and changing topics and tools. Emphasizes hands-on experience along with lectures and demonstrations. Curriculum may vary from one semester to another. May be repeated for a maximum of nine credits.

DGM 3320

Digital Photography and Compositing II

3:3:0

• Prerequisite(s): DGM 2320

Builds on skills acquired in Digital Photography and Imaging I. Furthers 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

I to 4:0 to 4:0 to 12 On Sufficient Demand

Intended for advanced students with an interest in digital audio. Includes relevant and changing topics and tools. Emphasizes hands-on experience along with lectures and demonstrations. Curriculum may vary from one semester to another. May be repeated for a maximum of nine credits.

DGM 3420

Studio Recording II

3:3:0

• Prerequisite(s): DGM 2420

Reviews microphone types and techniques of use. Covers in-depth theory and application of mixers, signal processors, and effects. Addresses advanced stereo miking techniques and focuses on several key instruments, including piano and drums. Teaches the art of mastering for CD and DVD audio. Continues further in-depth topics on impedance matching, power requirements, and use of the decibel. Provides students with the opportunity to interface with several on-campus musical groups and to record several live concerts, and will require students to complete a mixdown of the shows.

Su

DGM 3460

Live Sound Reinforcement

3:3:0

• Prerequisite(s): DGM 2130

Teaches fundamental sound concepts: propagation, absorption, reflection, transmission, frequency response, effective manipulation of the decibel in calculations of loudness, power, and voltages. Covers intelligent use of microphone patterns, and loudspeaker and monitor placement. 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 UVSC theater, music department, and public relations functions.

Sp

DGM 3480

Digital Audio Restoration

3:3:0

Teaches the use of various tools to restore, preserve, and archive audio from a variety of sources, including vinyl records, tapes, film soundtracks, etc. Addresses how to remove ambient noise (fans, AC, etc) from class film projects. Covers methods of removing impulsive noise (clicks and pops), periodic noise (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,

F

or restoring audio for intelligence or law enforcement applications.

DGM 350R

Advanced Topics in Digital Motion Picture Production

I to 4:0 to 4:0 to 12 On Sufficient Demand

• Prerequisite(s): DGM 2110

Includes relevant and changing topics and tools used in digital media industries. Emphasizes hands-on experience. Uses video tools to create a typical multimedia project. Curriculum may vary from one semester to another. May be repeated for a maximum of nine credits.

DGM 3510

Digital Broadcasting

3:2:3

• Prerequisite(s): DGM 2110

Teaches planning, management, and execution of live video productions integrating multiple Teaches planning, management and execution of live video productions integrating multiple cameras. Teaches the roles of the broadcast production team. Studies various types of digital standards and broadcast equipment. Includes hand-on broadcast lab where students produce and direct short productions.

F

DGM 3520

Digital Film Production

3:3:0

• Prerequisite(s): DGM 2110

Teaches advanced digital cinema storytelling production techniques for CD-ROM, DVD, World Wide Web and theatrical distribution. Includes instruction in the different positions that comprise the entire production team, including the roles of the team and how they evolve through the pre-production, production and post production process. Stresses narrative film based on structurally sound three act eight sequence scripts. Involves dividing the class into production teams and producing short three act narrative films that include dialogue, sound effects and music.

Sp

DGM 3540

Cinematography II

3:2:3

• Prerequisite(s): DGM 2540

A "hands-on" class that covers the role of the Director of Photographer (DP) and Gaffer in drama-based broadcast television and digital cinematography. Teaches continuity of lighting, visual story telling, implied script subtext through light quality and color, continuity in direction, use of lenses and shot blocking for the fixed and moving camera. Covers advanced grip and lighting equipment use and setups. Covers working with a producer, director, production designer, set decorator, boom operator and editor and on-set protocol.

Su, F, Sp

Course Descriptions

<p>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 cutting, montage cutting, music cutting, multi-camera editing, multi-layer compositing, audio mixing, special effects editing, animation editing, fine cutting and color correcting.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>DGM 3620 Principles of Animation II 3:2:3 Sp • Prerequisite(s): DGM 2620 and DGM 2210 Covers advanced concepts. Includes lip synch, complex motion analysis and scene layout. A continued study of the principles of animation and an integration of 2D and 3D environments.</p>	<p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p>	<p>DGM 3760 Web Languages II 3:3:0 Sp • Prerequisite(s): DGM 2760 Expands on Web Languages I. 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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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</p>
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Course Descriptions

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 Systems and Technology section of the CPS and CAP exams.

DGM 4110

CPS/CAP Review--Office Administration

2:2:0

On Sufficient Demand

• Prerequisite(s): Instructor approval

For students and others wishing to prepare for the Certified Professional Secretary or the Certified Administrative Professional Examinations administered by International Association of Administrative Professionals. Prepares students to sit for the Office Administration section of the CPS and CAP exams.

DGM 4120

CPS/CAP Review--Management

2:2:0

On Sufficient Demand

• Prerequisite(s): Instructor approval

For students and others wishing to prepare for the Certified Professional Secretary or the Certified Administrative Professional Examinations administered by International Association of Administrative Professionals. Prepares students to sit for the Management section of the CPS and CAP exams.

DGM 4130

CAP--Advanced Organizational Management

2:2:0

On Sufficient Demand

For students and others wishing to prepare for the Certified Professional Secretary or the Certified Administrative Professional Examinations administered by International Association of Administrative Professionals. Prepares students to sit for the Advanced Organizational Management section of the CPS and CAP exams.

DGM 4310

Senior Projects I†

3:1:6

F

• Prerequisite(s): DGM 3220

For senior Digital Media students. Provides a capstone experience working in digital media. Develops individual real world projects in consultation with a faculty advisor. Encourages team work.

DGM 4330

Corporate Issues in Multimedia

3:3:0

F

• Prerequisite(s): DGM 2220

Covers business and legal issues in multimedia. Reviews good business practices for the multimedia industry. Studies e-commerce fundamentals. Teaches copyright laws and procedures, obtaining permissions, creating and using contracts, protecting corporate assets, standards, security and privacy issues, and other legal issues regarding multimedia communication.

DGM 4350

Information Workflow Management

3:3:0

F

• Prerequisite(s): (DGM 2350, DGM 2360, DGM 2370, DGM 3820, and DGM 3850) or approval of instructor.

Emphasizes organization, problem-solving, and critical thinking skills in directing the completion of documents and projects in an automated and integrated environment. Covers a variety of administrative information management activities including planning and organizing new projects; directing new and ongoing operations; and utilizing available technology to process, analyze, manage, and communicate information. Stresses self-motivation, effective decision making, and critical- and creative-thinking skills. Completers should function effectively in the role of an administrative information or business office manager.

DGM 4410

Senior Projects II†

3:1:6

Sp

• Prerequisite(s): DGM 4310

Conclusion of DGM 4310. Concludes the capstone experience for digital media students. Addresses post production issues such as testing, packaging, and documentation. Offers the opportunity to present projects to students, faculty, sponsors, and potential employers or

clients.

DGM 4420

Applied Digital Media Technology

3:3:0

On Sufficient Demand

For educators and general public interested in technology integration. Examines the ever-expanding array of options available to educators, business personnel and government agencies for creating and distributing rich media based materials. Explores what new technologies and creative practices are available and how to implement them into their present workflow. Focuses on getting the most out of Digital Media technology.

DGM 4610

Designing Technology-based Training

3:3:0

On Sufficient Demand

• Prerequisite(s): DGM 3290

Provides shadowing opportunities in an educational or business setting where students can see basic principles of training and development in action and gain insights into training design, development, implementation, and evaluation. Uses the course map content from the DGM 3290 course to pre-author a technology-based training program, which includes creating a course navigation map (flowchart) to determine course sequence and navigational paths, designing storyboard frames with multimedia elements, and generating the navigation map and storyboards into an authoring tool. Completers should be prepared to apply shadowing experiences, discussion insights, and pre-authoring computer skills to future training opportunities.

DGM 4620

Producing Technology-based Training

3:3:0

On Sufficient Demand

• Prerequisite(s): DGM 4610

Builds on information taught in DGM 3290 and DGM 4610. Generates story boards from a computer design tool into an authoring tool. Teaches basic principles of building and editing frames with text and multimedia elements. Provides practice and feedback, remediation as needed. Addresses individual learner needs and evaluation of program effectiveness. Uses program objectives to evaluate final program product.

DGM 481R

Internship

I 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.

DMT—DIESEL MECHANICS TECHNOLOGY

DMT 1010

Diesel Apprentice Electrical IA

5:5:0 On Sufficient Demand

Studies PC computers for managing shop information, work orders and reports. Uses word processing, data management and typical shop management software. Teaches theory of operation and troubleshooting/repair skills in automotive electrical systems using state-of-the-art testing equipment. Includes safety and environmental awareness.

DMT 1020

Diesel Apprentice Engine Overhaul IB

5:5:0 On Sufficient Demand

Covers basic operating principles and technical information. Focuses on engine rebuilding nomenclature, precision measuring, cooling systems, lubricating systems, induction and exhaust systems. Provides theory and lab experiences on diesel engines.

DMT 1030

Diesel Apprentice Governor Systems 2A

3.5:3.5:0 On Sufficient Demand

- Prerequisite(s): DMT 1020

For second semester advanced Diesel Technology students and other interested community members. Provides theory with heavy duty on and off road diesel fuel systems. Covers tune up procedures, fuels, proper engine oils, overview of mechanical governors, testing and adjusting. Includes dynamometer operations, maintenance procedures, and emission controls. Emphasizes ethics, safety, and electrical

review.

DMT 1040

Diesel Apprentice Engine Controls 2B

3.5:3.5:0 On Sufficient Demand

- Prerequisite(s): DMT 1030

For second semester Diesel Technology students and other interested community members. Provides theory with mechanical and electronic engine controls on heavy duty diesel engine systems. Covers tune-up procedures, electronic fuel control and governor system for Detroit Diesel, Cummins and Caterpillar engines. Emphasizes testing, adjusting, maintenance procedures, emission controls, work ethics and safety.

DMT 1050

Diesel Apprentice Engine Diagnostics and Air Conditioning 2C

3.5:3.5:0 On Sufficient Demand

- Prerequisite(s): DMT 1040

For second semester Diesel Technology students and other interested community members. Provides theory with on and off road heavy duty systems including computerized engine diagnostics and air conditioning. Covers tune-up procedures, electronic HUEI, Bosch distributor and inline fuel system. Includes testing, adjusting, maintenance procedures, air-conditioning and heating. Emphasizes work ethics and safety.

DMT 1060

Diesel Apprentice Fluid Power 3A

5:5:0 On Sufficient Demand

Provides instruction in theory and application of fluid power (hydraulics) as used in modern mobile equipment. Includes practical theory related to the operation and repair of hydraulic and pneumatic components, and hydraulic systems. Emphasizes testing, troubleshooting, design and use of hydraulic schematics, and electric over hydraulic systems.

DMT 1070

Diesel Apprentice Power Transmission 3B

5:5:0 On Sufficient Demand

- Prerequisite(s): DMT 1060

Provides instruction on theory and operation of torque converters, powershift and automatic transmissions, electronic control systems for transmissions, and service of hydraulic brake systems. Emphasizes troubleshooting, repair procedures, the use of service manuals and schematics.

DMT 1080

Diesel Apprentice Chassis 4A

5:5:0 On Sufficient Demand

- Prerequisite(s): DMT 1020

Provides theory on maintenance and repair of heavy duty chassis systems. Covers air brake systems, ABS, steering geometry, front end and tandem alignment, steering and load carrying suspensions and frame maintenance. Emphasizes troubleshooting,

highway safety and preventative maintenance.

DMT 1090

Diesel Apprentice Power Trains 4B

5:5:0 On Sufficient Demand

- Prerequisite(s): DMT 1020

Provides theory of maintenance and repair of heavy duty power trains systems. Covers clutches, single and multiple counter shaft transmission, computer controlled transmissions, drive line geometry, differentials and DOT safety requirements. Emphasizes troubleshooting, highway safety, and preventative maintenance.

DMT 1110

Diesel Engine Overhaul

4:4:0 F, Sp

- Prerequisite(s): Minimum ACT Reading score of 16 or 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. Offered on the block.

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. Offered on the block.

DMT

Course Descriptions

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 IA

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 IB

5:5:0 On Sufficient Demand

• Prerequisite(s): Departmental written approval
A power transmission course for Industrial Maintenance apprentices. Teaches power transmission safety, OSHA guidelines, gearing and gear boxes.

DMT 1430

Industrial Maintenance 2B

5:5:0 On Sufficient Demand

• Prerequisite(s): Departmental written approval
A hydraulics course for Industrial Maintenance apprentices. Teaches hydraulics principles and power, fluids and conductors, cylinders, reservoirs, basic industrial systems. Covers hydraulic safety and OSHA guidelines, troubleshooting and repair of hydraulic valves.

DMT 1440

Industrial Maintenance 3B

5:5:0 On Sufficient Demand

• Prerequisite(s): Departmental written approval
An electrohydraulics and pneumatics course for Industrial Maintenance apprentices. Teaches pumps, circuits, and symbols (I.S.O.), troubleshooting, industrial systems including hydrostatic drives, basic pneumatics, circuits and components, and pressure vessel code. Covers troubleshooting of compressors, aftercoolers, dryers, oilers, valves, filters, separators, pneumatic or nitrogen operated system controls, machinery lube systems and steam systems.

DMT 1510

Electrical Systems Theory

4:4:0 F, Sp

• Prerequisite(s): AUT 1260 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
• Pre- or Corequisite(s): DMT 1510
Provides hands-on experience in basic circuitry, digital volt/ohm meter usage. Studies electrical component identification, troubleshooting and repair, charging system troubleshooting and repair, starting system troubleshooting and repair, electrical safety, and preventative maintenance.

DMT 1520

Engine Electronics and Diagnostics Theory

4:4:0 F, Sp

• Prerequisite(s): AUT 1260 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. Offered on the block.

DMT 152L

Engine Electronics and Diagnostics

2:0:6

For Second and Third semester students. Provides hands-on experience in troubleshooting and repair of heavy duty electrical systems and electronic engine management. Covers heavy duty truck and trailer lighting, monitoring and control systems. Emphasizes DOT safety regulations requirements. Teaches mechanical fuel injection pumps, fuel injectors and speed governing. Studies electronic engine diagnostic tools, engine sensors, and circuitry.

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 auxillary power units used on highway trucks.

DMT 2310

Fluid Power Theory

4:4:0

F, Sp

• Corequisite(s): DMT 231L Recommended
Teaches the fundamental principles of fluid power (hydraulics). Emphasizes the relationships between pressure, force, area, and resistance as well as rpm, torque, hydraulic horsepower, and energy. Covers the application and operation of all of the essential components found in a hydraulic system. Introduces various types of circuit designs and schematic symbols.

DMT 231L

Fluid Power Lab

2:0:6

Pre- or Corequisite(s): DMT 2310
Provides practical lab experience related to the identification, operation, and repair of basic hydraulic system components and circuits. Utilizes various lab equipment or machinery to familiarize students with basic system designs and use of schematics. Emphasizes the use of tools and diagnostic equipment for component and system testing. Offered in a seven and one-half (7 1/2) week block.

DMT 2320

Fluid Power Transmission Theory

2:2:0

F, Sp

• Corequisite(s): DMT 232L Recommended
Provides instruction in the theory and operation of hydrostatic and automatic transmissions used with heavy equipment. Emphasizes component operation, maintenance, repair, testing, and troubleshooting.

DMT 232L

Fluid Power Transmission Lab

1:0:3

Provides hands-on experience with hydrostatic and automatic transmissions. Emphasizes disassembly, reassembly, maintenance, repair, troubleshooting, and the use of diagnostic tools and service manuals.

DMT 2410

Chassis Theory

4:4:0

F, Sp

• Corequisite(s): DMT 241L Recommended
For third and fourth semester students. Provides theory on maintenance and repair of heavy duty chassis systems. Covers air brake systems, ABS, steering geometry, front end and tandem alignment, steering and load carrying suspensions, and frame maintenance. Emphasizes troubleshooting, highway safety, and preventative maintenance.

DMT 241L

Chassis Lab

2:0:6

Pre- or Corequisite(s): DMT 2410

For third and fourth semester students. Gives hands-on experience in dealing with the operation of, and troubleshooting and repair of modern truck and equipment air brake systems, ABS brakes, foundation brakes and wheel ends, front end and tandem alignments, steering and load carrying suspensions and frame maintenance.

DMT 2420

Power Trains Theory

4:4:0

• Corequisite(s): DMT 242L Recommended

For third and fourth semester students. Provides theory in maintenance and repair of heavy duty power trains systems. Covers clutches, single and multiple counter shaft transmission, computer controlled transmissions, drive line geometry, differentials and DOT safety requirements. Emphasizes troubleshooting, highway safety, and preventative maintenance.

F, Sp

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

I 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.

F, Sp

DMT 285R

Cooperative Correlated Class

I: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,

F, Sp

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

I to 5:0:3 to 15

F, Sp

• Prerequisite(s): Advisor and Instructor Approval

For students majoring in diesel technology. Involves special projects. Allows independent projects that are designed to enhance beginning or advanced abilities. Repeatable for as many times as desired.

DMT 298R

Technical Workshop

I to 4:0 to 4:0 to 12

F, Sp

For Diesel Technology students and other interested community members. Tailored to a specific topic, product, component, or vehicle related to the diesel service industry. Its purpose is to update technician training by addressing changes in products or equipment. Topics will vary. May be presented by an OEM, a dealer representative, or faculty member. Repeatable.

DMT 299R

VICA

I:1:0

F, Sp

Designed for Diesel Mechanics Technology majors. Supports and facilitates the goals and objectives of Vocational Industrial Clubs of America (VICA). VICA is a pre-professional student organization that develops social awareness, civic, recreational, and social activities. Students may participate in local, state, and national contests.

EART—ELECTRICAL AUTOMATION AND ROBOTICS TECHNOLOGY

EART 1000

Survey of Electrical Automation and Robotics Technology

2:2:0

On Sufficient Demand

An introductory course for those interested in exploring the electrical and robotics field. Familiarizes students with the fundamentals of electricity. Includes career exploration, consumer awareness, manipulative skills, and craftsmanship.

EART 1010

Industrial Maintenance 2A

5:5:0

On Sufficient Demand

• Prerequisite(s): Departmental written approval

An electricity course for Industrial Maintenance apprentices. Teaches fundamentals of electricity and electrical safety, electric motor fundamentals, transformers, rectifiers and inverters. Introduces circuit breakers, wiring diagrams and electronic and computer controls.

EART 1020

Industrial Maintenance 4A

5:5:0

On Sufficient Demand

• Prerequisite(s): Departmental written approval

A basic computers, PLC logic and variable speed drives course for Industrial Maintenance apprentices to troubleshoot, adjust, and repair AC electric motors, motor controls, PLC controls and variable speed drives.

EART 1050

Applied Electrical Math

5:5:0

F

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

F

For electrical apprentices. Teaches the theory of and includes an introduction to electricity, basic DC theory, voltage, current, resistance, batteries, and magnetism. Covers principles, formulas and math for simple electrical circuits, series, parallel, combination circuits, and power problems.

EART 1120

Electrical Apprentice 1B

5:5:0

Sp

• Prerequisite(s): EART 1110 or departmental written approval

For electrical apprentices. Introduces measuring instruments, magnetism, circuits, devices, National Electrical Code, blueprint reading, DC motors, low voltage circuits, DC motor control, DC generators, 3 and 4 way switches, and conduit bending.

EART 1130

Basic Electrical

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 electric field. Explains the basic construction and theory of inductance, capacitance and resistors dealing with L.C.R. circuits

EART

Course Descriptions

as they are used in the electrical or electronic fields. Includes lectures and demonstrations.

EART 1180

Basic Electrical Lab

5:0:15

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 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 07-08

• 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/NECS's structure, and tools of the trade. Introduces resistance in a DC series circuit.

EART 1310

Electrical Union Apprentice 1B

5:5:0

Not 07-08

• Prerequisite(s): Departmental Written Approval
For electrical union apprentices. Teaches voltage functions, resistance, how current reacts, current dividers, and how to calculate power in a DC parallel circuit and DC combination circuits. Covers principles of magnetism and electromagnetism, electrical generators, superposition to circuit calculations, DC theory principles and aluminum conductors. Introduces the National Electric Code, blue prints.

EART 1320

Electrical Union Apprentice 2A

5:5:0

Not 07-08

• Prerequisite(s): Departmental Written Approval
For electrical union apprentices. Teaches NEC code book skills, Local union by-laws, AC/DC theory, three phase systems, AC resistive circuits, capacitors, diodes, and rectifiers. Covers electrical test instruments, multimeters, oscilloscope, inductance, vectors, RL circuits.

EART 1330

Electrical Union Apprentice 2B

5:5:0

Not 07-08

• Prerequisite(s): Departmental Written Approval
For electrical union apprentices. Teaches LC circuits, LCR circuits, transformers, three-phase systems. Covers benders, wiring methods, conductor ampacity, branch circuits and feeders, lighting and receptacles, cable assemblies, boxes and fittings. Reviews blueprints and NEC.

EART 1440

DC Motors

3:3:0

On Sufficient Demand

• Prerequisite(s): ECT 1010 or equivalent
Course addresses installation, troubleshooting, preventive maintenance and repairs of DC generators and controllers and in the proper use of tools and test equipment needed in maintaining motors and controllers. Includes lecture and demonstrations.

EART 144L

DC Motors Lab

1:0:3

On Sufficient Demand

• Prerequisite(s): ECT 1010
Course focus is on actual installation, troubleshooting, preventive maintenance and repairs on DC generators and controllers, as well as the proper use of tools and test equipment needed in maintaining motors and controllers. Emphasizes hands-on lab experiences. Includes labs and demonstrations.

EART 1450

AC Motors

3:3:0

On Sufficient Demand

• Prerequisite(s): EART 1440 or equivalent
Course addresses installation, troubleshooting, preventive maintenance and repairs of AC motors, generators, and controllers. Concepts are developed which

are associated with the proper use of tools and test equipment needed for maintaining motors and controllers. Course approach includes lecture and demonstrations.

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 tests 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 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 I

5:3:6 Sp

- Prerequisite(s): EART 2110, EART 2150, and EART 2160; or departmental approval

Covers the theory, programming and industrial control system applications of small and medium sized programmable logic controllers (PLCs). Studies basic maintenance and troubleshooting techniques for programmable logic controllers. Includes lecture, demonstration, print reading, and lab projects with hands-on experience. Completers should be able to work in industry in related work at entry-level positions with safety and environmental awareness.

EART 2260

Advanced Logic

3:2:3 Sp

- Prerequisite(s): EART 2110, EART 2150, and EART 2160; or departmental approval

Covers theory and industrial applications of Comparators, Decoders, Encoders, Multiplexers, Demultiplexers, Latches (SR and D), Flip Flops (SR, D, and JK), One-shots, Timers, Counters, and Shift Registers. Includes lecture, demonstrations, and lab projects with hands-on experience. Emphasizes implementation and troubleshooting of logic circuits. Completers should be able to work in industry in related work at entry-level positions with safety and environmental awareness.

EART 2270

Programmable Logic Controllers 2

6:4:6 Sp

- Prerequisite(s): EART 2110, EART 2150, and EART 2160; or departmental approval

Covers the theory, implementation, and application of advanced Programmable Logic Controller instructions, functions, programming techniques, and data communications. Studies basic programming language and industrial control applications. Includes lecture, demonstration, and lab projects with hands-on experience. Completers should be able to work in industry at entry-level positions with safety and environmental awareness.

EART 2310

Electrical Apprentice 3A

5:5:0 F

- Prerequisite(s): Departmental written approval

For electrical apprentices. Teaches installation, troubleshooting, preventive maintenance and repair of AC motor controls. Covers the proper use of hand tools and test equipment used in the maintenance of AC motor controllers.

EART 2320

Electrical Apprentice 3B

5:5:0 Sp

- Prerequisite(s): Departmental written approval

For electrical apprentices. Covers theory of operation of electronic devices used in industrial control systems. Studies test equipment and procedures used in installation maintenance, troubleshooting, and repair of electronic control circuits. Introduces basic theory and operation of instrumentation and process control equipment.

EART 2330

Electrical Union Apprentice 3A

5:5:0 Not 07-08

• Prerequisite(s): Departmental Written Approval
For electrical union apprentices. Teaches Kirchhoff's laws, Thevenin's and Norton's theorems, diodes, single phase power supplies, transducers, transistors, switching and biasing techniques. Covers silicon controlled rectifiers (SCR), triacs and diacs, unijunction transistor, amplifiers, field effect transistors, ICs and OP AMPs, IC timers, electronic applications, and industrial prints. Reviews DC/AC theory.

EART 2340

Electrical Union Apprentice 3B

5:5:0 Not 07-08

- Prerequisite(s): Departmental Written Approval

For electrical union apprentices. Teaches grounding, cause and effect of electrical faults, grounding components, grounding connections, grounding of electrical systems, systems and circuit grounding requirements for 1kV and over. Introduces earth testing, transformer overcurrent protection, proper applications of fuses, short circuits calculations, electrical load calculations, calculating the

Course Descriptions

parameters of range loads. Review three phase transformers, WYE and DELTA connections.

EART 2350

Electrical Union Apprentice 4A

5:5:0

Not 07-08

• Prerequisite(s): Departmental Written Approval
For electrical union apprentices. Teaches lightening 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 Union Apprentice 4B

5:5:0

Not 07-08

• 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 Union Apprentice 5A

5:5:0

Not 07-08

• Prerequisite(s): Departmental Written Approval
Designed for fifth year electrical union apprentices. Teaches fire alarms, advanced technology systems, smoke detectors, fire alarm installation, maintenance, and troubleshooting. Introduces instrumentation, calibration and telephone wiring. Covers fundamentals of flow, pressure, level, temperature, control valves, pneumatics, controllers, and sexual harassment.

EART 2380

Electrical Union Apprentice 5B

5:5:0

Not 07-08

• Prerequisite(s): Departmental Written Approval
Designed for fifth year electrical union apprentices. Teaches fundamentals, troubleshooting and electrical controls for air conditioning/refrigeration systems. Introduces Cable faults, security systems, small programmable controllers. Covers programming timers and counters, data manipulation, emergency system installation requirements.

EART 2410

Electrical Apprentice 4A

5:5:0

F

• Prerequisite(s): EART 2320 or departmental written approval
For electrical apprentices. Studies industrial motor control with particular attention to the National Electrical Code

and Programmable Logic Controllers (PLC). Explores the fundamental parts of a PLC and motor control systems. Includes print reading.

EART 2420

Electrical Apprentice 4B

5:5:0

Sp

• Prerequisite(s): EART 2410 or departmental written approval
For electrical apprentices. Reviews DC and AC theory, electrical circuits and circuit calculations, transformers, motors, and motor control circuits. Studies the calculation of single and three phase loads, service entrance size, feeder and branch circuit capacity, wire and conduit size, and voltage drops. Includes a comprehensive study of all chapters of the National Electrical Code with an emphasis placed on the preparation for taking the Utah State Journeyman Exam. Includes print reading and problem solving. Completers should be prepared to take the Utah Journeyman Exam, provided they have completed all State requirements.

EART 2450

Hydraulics and Pneumatics Fundamentals

2:2:0

On Sufficient Demand

This course addresses the fundamentals of hydraulic and pneumatic components and systems used in industrial applications. Focus is on pumps, motors, directional and flow control valves, cylinders, transmission, and fluids. Emphasizes maintenance, safety and environmental problems as well as troubleshooting techniques and 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.

ECFS—EDUCATION, CHILD AND FAMILY STUDIES

ECFS 1400

SS

Marriage

3:3:0

Su, F, Sp

For single and married students interested in marriage dynamics. Examines courtship, marriage, communication within marriage, and expected values of spouses. Studies marital sexuality, causes of marital stability and instability. Uses class-selected personal topics as the foundation for group discussion. Includes guest speakers and small group interaction. Successful completers should have improved communication skills relating to marriage.

ECFS 208R

Directed Readings

1 to 4:0:3 to 12

Su, F, Sp

For second-year ECFS students. Includes readings with analysis and discussion of selected topics in child education and family relationships. Requires approval of the department for registration. May be taken for a maximum of four credits.

Course Descriptions

ECFS 2400 SS

Family Relations

3:3:0 Su, F, 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 F, Sp

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 281R

Cooperative Work Experience

I to 8:0:5 to 40 Su, F, Sp

• Corequisite(s): ECFS 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 285R

Cooperative Correlated Class

I:1:0 Su, F, Sp

• Corequisite(s): ECFS 281R

For ECFS 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. Registration for this class is 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 or work or study.

ECFS 2900

Independent Study

I 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 Su, F, Sp; DE

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 semester the applicant is taking the course.

Designed for public school teachers who supervise student teachers. Examines education method classes at UVSC, 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): 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): ECFS 4720; Permission of instructor

For senior education students and in-service teachers in local schools. Describes the various settings in which gifted students are served. Reviews instructional strategies and assessment appropriate to teaching gifted students, and strategies for dealing with parents.

ECFS 492R

Special Topics in Gifted Education

3:3:0 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-

ECFS

ECON

Course Descriptions

division university economics courses.

ECON 2360

Money and Banking

3:3:0 On Sufficient Demand

Designed for finance and banking majors and as elective credit for other business majors. Studies a banker's stock-in-trade "money" and how it functions in the US and world economies. Explores money as a medium of exchange, introduces the concept of money supply, and discusses the role of banks as money creators and as participants in the nation's payment mechanism. Explains the operations of financial institutions, including cross-selling, collections, and lending practices; the working of monetary and fiscal policies and the functions and powers of the Federal Reserve. Methods include lectures, class discussions, and case studies.

ECON 3020

Intermediate Microeconomics

3:3:0 On Sufficient Demand

• Prerequisite(s): ECON 2010, ECON 2020, and MGMT 2340

Extends the discussion of economic theory of markets, demand and supply, elasticity, and marginal analysis process to make more effective decisions. Discusses the concepts of production theory and cost analysis in both the short and long run. Describes how to apply economic decision making in a variety of competitive markets including perfect competition, monopoly, monopolistic competition and oligopoly.

ECON 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

• 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 interdisciplinary group of engineering, science, social science, and natural resources management professionals. Presents the microeconomic concepts useful for reviewing these types of issues. Evaluates public policy issues related to environmental, ecological, and natural resource challenges.

ECON 3340

Managerial Statistics

3:3:0 On Sufficient Demand

• Prerequisite(s): MGMT 2340

Studies advanced managerial concepts. Includes multiple regression, ANOVA, test of hypotheses, and time series techniques. Emphasizes statistical modeling, statistical decision-making, and is computation intensive.

ECON 3810

Labor Economics

3:3:0 On Sufficient Demand

• Prerequisite(s): ECON 2010

Provides an analysis of the theory and practice of labor markets. Defines the factors that influence the demand and supply of labor in a modern economy. Develops the concepts for a theory of human capital. Reviews factors such as wage determination, occupational differences, problems of gender, labor turnover, discrimination, impacts of education and training, impacts of labor unions, immigration, changes in technology, and other related issues.

ECON 3820

Economic Development

3:3:0 On Sufficient Demand

• Prerequisite(s): ECON 2010

Describes and evaluates economic models of development in third world and emerging economies. Includes a review of theories of economic growth, the importance of creating new economic institutions, the importance of education and human capital development, and the importance of creating stable political and social cultures in the development of modern economic systems.

ECON 3830

History of Economic Thought

3:3:0 On Sufficient Demand

• Prerequisite(s): ECON 2010 and ECON 2020

Traces the evolution of formal economic theory primarily beginning with Adam Smith, the first classical economic theorist. Studies other classical writers including Ricardo and Malthus as well as Marx's criticisms. Studies neoclassical analysis through Marshall and the critiques of the Austrian school. Reviews the modern theorists including Keynes and the development of macroeconomics, the development of empirical and mathematical economic theories, monetarism, and other post-Keynesian analysis.

ECON 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

US Economic Development and History

3:3:0 On Sufficient Demand

• Prerequisite(s): ECON 3020

Provides an analysis of the economic development of the United States. Describes the factors that led to the development of colonies in the Americas and the causes of the Revolution and formation of a government. Describes the economic causes for western expansion, transportation development, and the rise of American capitalism. Reviews the shift from agrarian to industrial development, the economic development of big business and big government, the impact of depression, and the economics of world war and peace.

ECON 4960

Senior Seminar Current Economic Issues

3:3:0 On Sufficient Demand

• Prerequisite(s): Department Chair Approval

Provides exposure to emerging topics of current interest in economics. Topics vary each semester.

ECT—ELECTRONIC AND COMPUTER TECHNOLOGY

ECT 1000

Survey of Electronics

2:2:0

F, Sp

An overview course for those unfamiliar with the field of electronics. Covers basic electrical theory, electronic devices, applications, and history. Emphasizes recent trends in the electronic industry and effects on everyday life. Includes lecture, demonstration, video presentation, and field trip.

ECT 1010

Basic Electronics--DC/AC

4:4:0

F

• Corequisite(s): ECT 101L; ECT 1050 or equivalent recommended

An introductory and foundation course for Electronic and Computer Technology majors. Covers fundamental DC/AC concepts. Studies basic electrical physics, DC/AC sources, resistance, basic circuits and laws, capacitance, inductance, transformers, superposition, the sine wave, reactance, impedance, resonance, and filters. Includes lecture, demonstration, computer simulation, and video presentation.

ECT 101L

DC/AC Circuits Laboratory

2:0:6

F

• Corequisite(s): ECT 1010; ECT 1050 or equivalent recommended

Emphasizes finding agreement between analytical and experimental results as DC/AC theory is applied in a practical laboratory environment. Studies design, analysis, and building of circuits using passive electrical devices. Includes hands-on experience with equipment and demonstration.

ECT 1020

Basic Electronic Math

2:2:0

On Sufficient Demand

• Prerequisite(s): High School Algebra II
• Corequisite(s): ECT 1010

Designed for Electronic and Computer Technology majors who are not enrolled in a math course in the Math Department or the School of General Academics. Provides a basic mathematical base for solving problems associated with Basic Electronics: DC/AC. Provides mathematical applications to the physical world, teaches students to work in teams, learn to estimate answers, use computer algebra systems, and graphic calculators. Presents new ideas graphically, numerically, and analytically. Applies deductive reasoning to problem solving and troubleshooting.

ECT 1030

Electronics Safety

1:1:0

On Sufficient Demand

Teaches safety to those desiring to work with electricity and electronic equipment. Covers topics relating to safety on the job in a high technology, electronics environment. Studies ESD, ergonomics, FCC radiation rules, and hazardous materials disposal. Includes lecture, demonstration, and hands-on activities. Completers should be able to work safely around a variety of electrical and electronics equipment and know what to do in case of an emergency.

ECT 1050

Mathematics for Electronics

5:5:0

F

• Prerequisite(s): High School Algebra II, or MAT 0990 or MAT 0950

Covers basic mathematical principles needed for DC/AC theory and provides a mathematical base for future studies. Applies theories and laws to the components and circuits covered in ECT 1010 and ECT 101L. Includes calculator use and programming, graphics, algebra, and trigonometry concepts. Includes lecture and demonstration.

ECT 1060

Electrical Science I

2:2:0

Su, F, Sp

Foundation course in Electronic and Computer Technology. Covers typical topics in DC circuit theory beginning with electrical quantities and measurements then progressing through electromagnetism and inductance. Course available via the internet.

ECT 106L

Electrical Science I Laboratory

0.5:0:1.5

Su,F,Sp

Foundation course in Electronic and Computer Technology. Designed for those who need a short intense laboratory course in electronics. May be used by those who need to validate their proficiencies in electronics which may have been developed during independent study or in nontraditional course work such as the internet. Focus is on DC principles and circuits.

ECT 1070

Electrical Science II

2:2:0

Su, F, Sp

• Prerequisite(s): ECT 1060 or equivalent

Foundation course in Electronic and Computer Technology. Covers typical topics in AC circuit theory beginning with sinusoidal alternating current waveforms and progressing through passive filters and pulse waveform response. Course available via the internet.

ECT 107L

Electrical Science II Laboratory

0.5:0:1.5

Su, F, Sp

• Prerequisite(s): ECT 1070, ECT 1060 or equivalent
Foundation course in Electronic and Computer Technology. Designed for those who need a short intense laboratory course in electronics. May be used by those who need to validate their proficiencies in electronics which may have been developed during independent study or in nontraditional course work such as the internet. Subject focus is on AC principles and circuits.

ECT 1100

Electronics Fundamentals

4:3:3

On Sufficient Demand

An introductory and foundation course in electronics for non-majors. Covers fundamental electronic circuit concepts. Studies basic electrical physics, DC/AC sources, resistance, capacitance, inductance, 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.

ECT 1110

Active Devices and Circuits

5:5:0

Sp

• Prerequisite(s): ECT 1010 and ECT 1050 or equivalent
• Corequisite(s): ECT 1120 or equivalent

For students with DC/AC background. Covers semiconductor theory beginning with the pn junction diode. Studies the operation of semiconductors and the design and analysis of basic semiconductor circuits. Includes diode characteristics and circuits, physics of semiconductors, bi-polar and field effect transistors, basic transistor circuits and amplifiers, thyristors (SCRs), AC analysis and frequency effects in transistors and their circuits. Includes lecture, demonstration, and computer simulation.

ECT 1120

Active Devices and Circuits Laboratory

2:0:6

Sp

• Prerequisite(s): ECT 101L
• Corequisite(s): ECT 1110

Provides laboratory experience for ECT 1110 students. Studies the design, analysis and building of circuits using semiconductor devices. Emphasizes applying theory to practical situations in design and construction of basic diode circuits, transistor biasing and amplifier circuits, and other related circuits. Includes hands-on experience with common test equipment, demonstration, and observation.

ECT 1150

Digital Devices and Circuits

3:3:0

F

Presents the concepts of basic logic design. Studies analysis, troubleshooting, repairing,

ECT

Course Descriptions

and designing of sequential digital circuits. Includes number systems, codes, Boolean algebra, truth tables, Karnaugh maps, basic logic components (gates, flip-flops, counters, registers, timers, etc.), and state machine design. Includes lecture, demonstration, and computer simulation.

ECT 1160 Digital Devices and Circuits Laboratory 2:0:6 F

• Corequisite(s): ECT 1150
Provides laboratory experience for ECT 1150 students. Studies the design, analysis, and building of digital circuits. Emphasizes applying theory to practical situations in design, construction, and troubleshooting of combinational and sequential digital circuits. Includes hands-on experience with common test equipment, demonstration, and observation.

ECT 1170 Software Tools for Electronics 2:1:3 F

Introduces the computer as a problem solving tool for electronic problems. Uses basic computer hardware, DOS, word processors, spreadsheets, circuit analysis, and circuit drawing software. Emphasizes hands-on computer experience. Studies uses of the computer to write lab reports, draw schematics, solve difficult problems, and graph results.

ECT 1180 Advanced Software Tools for Electronics 3:3:0 Sp

• Prerequisite(s): ECT 1010 or equivalent
Course focuses on the development of electronic virtual instrumentation. Using LabVIEW students learn to use graphical programming language which uses icons instead of lines of text to create applications specific to their analytical needs. The focus is on data flow programming, where data determine execution. Application will be developed which will communicate with remote, data generating sites, via the web.

ECT 1210 Analog Circuits 3:3:0 Sp

• Prerequisite(s): ECT 1110, ECT 1120
Covers designing and analyzing circuits using discrete bi-polar, FET and other devices along with operational amplifiers and other linear integrated circuits in meaningful applications. Includes lecture, demonstration, and computer simulation.

ECT 1220 Analog Circuits Laboratory 3:0:9 On Sufficient Demand

• Prerequisite(s): ECT 1110, ECT 1120
• Corequisite(s): ECT 1210
Designed to provide the laboratory experience to complement ECT 1210. Enrollment should be concurrent. Studies designing, building, and performing measurements with a variety of

electronic application circuits. Covers the building and testing of circuits utilizing semiconductor devices and linear integrated circuits. Emphasizes getting agreement between analytical and experimental results as the theory learned in ECT 1210 is applied in the lab. Includes hands-on experience with common test equipment, demonstration, and observation.

ECT 1250 Introduction to Calculus for Electronics 5:5:0 Sp

• Prerequisite(s): ECT 1050 or MATH 1050 or higher
Designed to prepare and introduce Electronic and Computer Technology majors to calculus and its use in electronics. Applies the math learned to electronic devices and circuits. Includes a review of algebra and trigonometry and basic differential calculus concepts.

ECT 1270 Assembly Language for Electronics 2:1:3 F

A core class for Electronic and Computer Technology majors. Includes practical applications of assembly language in real world situations. Studies programming in assembly language to the extent of exercising hardware and performing common routines. Covers debuggers, micro-processor architecture, assembly language procedures, memory segments, I/O, modular design, firmware, and OS routines. Emphasizes hands-on experiences with a computer system.

ECT 1300 Interconnection Technology 3:2:3 On Sufficient Demand

• Prerequisite(s): ECT 1000 or ECT 1100 or ECT 1110
Studies wiring, cabling, and connectors, transmission lines, hardware interconnect standards, fiber optics connections, sensors, and transducers, network connections, telephone and modem connections, Internet connections, etc. Includes lecture, lab, demonstration, video presentation, and computer simulation.

ECT 1430 Customer Communications 1:1:0 On Sufficient Demand

For students studying Computer Systems Maintenance. Includes customer relations, business communications, telephone etiquette, and documentation. Covers cost of repairs and service. Includes how to explain to customers costs associated with their bills.

ECT 1570 Programming Tools for Repair 3:1:6 On Sufficient Demand

• Corequisite(s): ECT 1270
For the Computer Systems Maintenance Certificate. Presents fundamentals in batch file programming, HTML, and Java

programming. Studies debugging and fault isolation techniques using software including assembly language. Covers system diagnostic software and virus protection utilities.

ECT 1610 Foundations of Nanoscale Materials Chemistry 3:3:0 On Sufficient Demand

Surveys the field of nanoscale materials chemistry with emphasis on properties of matter and the techniques by which matter can be altered to create materials required for the future. Introduces processes, materials and equipment used in integrated circuit and micro mechanical manufacturing. Focuses on ceramics, solids, polymers and composite materials. Considers processes such as thermal oxidation, lithography, thin film deposition, metrology and packaging.

ECT 1620 Introduction to Integrated Circuit Layout 3:3:0 On Sufficient Demand

• Corequisite(s): ECT 1610
Introduces Integrated Circuit layout and design. Integrates electronic engineering design schematics with silicon semiconductor process constraints. Addresses design rules and constraints imposed by MOS manufacturing processes.

ECT 1650 Network Maintenance 4:3:3 On Sufficient Demand

For the Computer Systems Maintenance Certificate. Presents fundamentals of networks and networking. Studies LAN, WAN, peer to peer, Internet, and intranet configurations. Emphasizes installation, maintenance, and troubleshooting. Studies cabling and connectors, transmission lines, hardware interconnect standards, network connections, telephone and modem connections, and Internet connections.

ECT 1710 Computer Maintenance 3:2:3 F, Sp

For students studying Computer Systems Maintenance. Presents concepts of computer architecture. Teaches troubleshooting techniques and BUS conflict resolution. Studies component failure, floppy disk drives, keyboards, video graphics hardware, and power supplies. Additional topics may be included according to current technology. Includes hardware troubleshooting to board level.

ECT 1720 System Configurations 3:2:3 On Sufficient Demand

• 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 transmittal systems, interfacing, digitized test equipment, diagnostic programming, computer control of processes, robotics, etc.

ECT 2320 Microprocessor and Computer Laboratory

4:0:12 F

- Prerequisite(s): ECT 1150
- Corequisite(s): ECT 2310

Lab work includes microprocessor hardware organization, microprocessor machine instructions, input-output peripheral equipment, memory elements, control elements, data transmittal systems, interfacing, digital test equipment, diagnostic programming, computer control of processes, robotics, etc. Emphasizes lab experiences with an industry-popular microprocessor system. Lab assignments include practical testing, evaluation and design work on digital systems. Involves programming in assembly language, building computer interfaces, and

operating digital test equipment.

ECT 2350 Calculus for Electronics

3:3:0 F

- Prerequisite(s): ECT 1250 or MATH 1210 or higher

Designed as a continuation of ECT 1250. Includes differential calculus and integral calculus concepts, Fourier series, and introduction to differential equations. Applications are made to electronics.

ECT 2380 Electro-Mechanics for Electronics

2:2:0 F

- Prerequisite(s): ECT 1010

Covers fundamental concepts enabling students to use transducers, lasers, fiber optics, sensors, motors and relays in electronic circuit applications. Emphasizes techniques of electronic and computer interface with mechanical systems.

ECT 2400 Communications for Multimedia

3:3:0 On Sufficient Demand

- Prerequisite(s): ECT 1100, ECT 1300

For non-electronics majors. Provides training in theory relating to electronic communications systems. Emphasizes TV, video equipment, radio communications, digital transmission, multiplexing, stereo systems, transmission lines, antennas, microwave, radar, other communications systems and up-to-date circuits and devices as they are related to these systems and to the operation and automatic controls of remote communication systems. Includes lecture demonstration and computer simulation. Completers should be able to work with a variety of communications equipment.

ECT 2410 Communications Systems

4:4:0 Sp

- Prerequisite(s): ECT 2350
- Corequisite(s): ECT 1210

Designed for Electronic and Computer Technology majors in their last semester. Provides training in theory and circuit analysis relating to electronic communications systems. Studies TV broadcast receivers and transmitters, video equipment, radio communications, digital transmission, multiplexing, stereo systems, transmission lines, antennas, microwave, radar, other communication systems, up-to-date circuits and devices as they are related to these systems, and the operation and automatic control of remote communication systems. Includes lecture, demonstration, and computer simulation. Completers should be able to work with a variety of communications equipment.

ECT 2420 Communications Systems Laboratory

4:0:12 Sp

- Prerequisite(s): ECT 2350
- Corequisite(s): ECT 2410 and ECT 1210

Designed as a laboratory course

associated with ECT 2410. Includes testing and evaluating the operation of subsystems of more advanced electronic systems. Provides laboratory experience with communication circuits, sophisticated specialized test equipment and modem 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

Course Descriptions

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

An advanced course into the practice of digital 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 manufacturing processes.

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. The focus will be on the chemistry of silicon, not only as a substrate but also as a reactive dielectric.

ECT 2690

Thin Film Processes

3:3:0 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. Completers 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 Su, F, Sp

• 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 Su, F, Sp

• Corequisite(s): ECT 281R

Designed to identify on-the-job problems and to remedy those problems through in-class discussion and study. Studies identifying and maximizing service opportunities. Students register for this class with approval of the Cooperative Coordinator. Cooperative credits may be used as technical electives or in place of some of the laboratory classes if approved in advance by the department chairperson. Includes lecture, guest speakers, video tapes, role playing, case analysis, oral presentations, and written assignments. Completers should be better able to perform in their field of work or study.

ECT 299R

VICA

1:1:0 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—EARLY 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

Childrens 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 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 Not 07-08

• 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 Not 07-08

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 Not 07-08

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

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 2700

Implements assessment with children in the Teacher Education Preschool including anecdotal notes, checklists, event sampling, and logs. Connects daily child and program assessment to preschool curriculum planning and implementation. Prepares child portfolio assessment and use in conference with child and parents. Includes personal professional portfolio assessment.

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

For Early Childhood students. Discusses implications of human diversity for major

Course Descriptions

societal institutions. Addresses the impact of diversity in children’s education environments, ages birth through adolescence. Focuses on linguistic, cultural, ethnic, familial, religious, developmental, and gender diversity. Emphasizes inclusive, anti-bias classroom strategies for supporting learning and development of diverse students. Encourages examination of personal beliefs and attitudes about diversity.

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
 For dual certification Early Childhood Education students. Covers integrated developmentally appropriate activities for pre-K-Kindergarten. Emphasizes planning, implementation, and evaluation of active learning experiences for children. Includes group curriculum mapping of Utah Kindergarten State core. Requires 45 clock hours of supervised practical application with young children in the Teacher Education Preschool.

EDEC 3800
Assessment for Preprimary
1:0.5:1.5 F, Sp
 • Prerequisite(s): EDEC 2600, B- or better
 • Corequisite(s): EDEC 3620
 Implements assessment with children in the Teacher Education Preschool including anecdotal notes, checklists, event sampling, and logs. Connects daily child and program assessment to preschool curriculum planning and implementation. Prepares child portfolio assessment and use in conference with child and parents. Includes personal professional portfolio assessment.

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.
 For Early Childhood students. Presents developmentally appropriate methods for integrating music, 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
 Presents developmentally appropriate methods for teaching social studies concepts to children, pre-kindergarten through grade 3. Includes classroom instruction and field experiences with children.

EDEC 4200
Classroom Management I
1:1:0 On Sufficient Demand
 • Prerequisite(s): Admission to Professional Education Program or permission of instructor
 Presents philosophy, trends and necessities of a well managed classroom. Discusses the role of management and quality instruction.

EDEC 4210
Classroom Management II
1:1:0 On Sufficient Demand
 • Prerequisite(s): EDEC 4200
 • Corequisite(s): Admission to Professional Education Program or permission of instructor
 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.

EDEC 4230
Classroom Management III
1:1:0 On Sufficient Demand
 • Prerequisite(s): EDEC 4210
 • Corequisite(s): Admission to Professional Education Program or permission of instructor
 Presents strategies for routine management of the classroom environment and materials, and the initial set up of a classroom and management plans. Workday and observation of first day of school in a public school classroom.

EDEC 4240
Classroom Management IV
1:1:0 On Sufficient Demand
 • Prerequisite(s): EDEC 4230
 • Corequisite(s): Admission to Professional Education Program or permission of instructor
 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 4400
Literacy Methods I
3:3:0 On Sufficient Demand
 • Prerequisite(s): Admission to Professional Education Program or permission of instructor.
 Presents practical and theoretical foundations for fostering reading competence in children, pre-kindergarten thru grade 3. Includes classroom instruction and field experience with children.

EDEC 4410
Literacy Methods II
3:3:0 On Sufficient Demand
 • Prerequisite(s): Admission to Professional Education Program or permission of instructor
 Surveys contemporary issues in literacy instruction in the elementary school years. 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.

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 4860
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 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 4860
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 (Cross-listed with: EDEL 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 (EDEC 4860 OR EDEC 4870)
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.

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 instructor
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

• 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.

EDEL 3050
Foundations of American Education
2:2:0 F

• 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.

EDEL 3250
Instructional Media
2:2:0 Sp, F

• Prerequisite(s): Admission to Professional Education Program or permission of instructor
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 Sp

• Prerequisite(s): Admission to Professional Education Program or permission of instructor
For Elementary Education students. Discusses implications of human diversity for major societal institutions. Addresses the impact of diversity in children's education environments, ages birth through adolescence. Focuses on linguistic, cultural, ethnic, familial, religious, developmental, and gender diversity. Emphasizes inclusive, anti-bias classroom

Course Descriptions

strategies for supporting learning and development of diverse students. Encourages examination of personal beliefs and attitudes about diversity.

EDEL 3350

Curriculum Design and Assessment 3:3:0

F

• Prerequisite(s): Admission to Professional Education Program or permission of instructor
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 On Sufficient Demand

• Prerequisite(s): Admission to Professional Education Program or permission of instructor
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

F

• Prerequisite(s): Admission to Professional Education Program or permission of instructor.
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

• Prerequisite(s): Admission to Professional Education Program or permission of instructor
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

Sp

• Prerequisite(s): EDEL 4200
• Corequisite(s): Admission to Professional Education Program or permission of instructor
Establishes a foundation for selecting a model to follow for the development of a classroom management plan. Considers the role of the teacher and students in developing rules and establishing habits in a classroom setting.

EDEL 4230

Classroom Management III

1:1:0

F

• Prerequisite(s): EDEL 4210
• Corequisite(s): Admission to Professional

Education Program or permission of instructor
Presents strategies for routine management of the classroom environment and materials, and the initial set up of a classroom and management plans. Workday and observation of first day of school in a public school classroom.

EDEL 4240

Classroom Management IV

1:1:0

Sp

• Prerequisite(s): EDEL 4230
• Corequisite(s): Admission to Professional Education Program or permission of instructor
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 4250

Classroom Management II

1:1:0

On Sufficient Demand

• Prerequisite(s): EDEL 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.

EDEL 4400

Literacy Methods I†

3:3:0

Sp

• Prerequisite(s): Admission to Professional Education Program or permission of instructor.
Presents practical and theoretical foundations for fostering reading competence in children, pre-kindergarten thru grade 3. Includes classroom instruction and field experience with children.

EDEL 4410

Literacy Methods II

3:3:0

F

• Prerequisite(s): Admission to Professional Education Program or permission of instructor.
Surveys contemporary issues in literacy instruction in the elementary school years. 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

Sp

• Prerequisite(s): Admission to Professional Education Program or permission of instructor
Presents methods for teaching reading and language art concepts to children, grades 1-6. Includes classroom instruction and field experiences with children.

EDEL 4430

Teaching English as a Second Language

3:3:0

F

• Prerequisite(s): Admission to Professional Education Program or permission of instructor.
For Elementary Education students. Presents methods for promoting reading competence and fostering literacy in limited English-speaking children, grades 1-6. Includes classroom instruction and field experiences with children.

EDEL 4510

Elementary Math Methods

3:3:0

Sp

• Prerequisite(s): Admission to Professional Education Program or permission of instructor
For Elementary Education students. Presents methods for teaching math concepts to children, grades 1-6. Includes classroom instruction and field experiences with children.

EDEL 4520

Elementary Science Methods

3:3:0

Sp

• Prerequisite(s): Admission to Professional Education Program or permission of instructor
For Elementary Education students. Presents methods for teaching science concepts to children, grades 1-6. Includes classroom instruction and field experiences with children.

EDEL 4530

Elementary Social Studies Methods

3:3:0

F

• Prerequisite(s): Admission to Professional Education Program or permission of instructor
For Elementary Education students. Presents methods of teaching social studies concepts to children. Includes classroom instruction and field experience teaching children.

EDEL 4540

Elementary Creative Arts Methods

2:2:0

F

• Prerequisite(s): Admission to Professional Education Program or permission of instructor.
For Elementary Education students. Presents methods for integrating music, art, dance, and drama experiences across the curriculum in grades 1-6. Includes classroom instruction and field experiences with children.

EDEL 4600

Differentiation for Special Populations I

1:1:0

On Sufficient Demand

• Prerequisite(s): Admission to the Professional Education Program or permission of instructor
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

On Sufficient Demand

• Prerequisite(s): EDEL 4600, Admission to the Professional Education Program or permission of instructor
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[†] 3:3:0

F

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.

EDEL 4700

Educational Leadership for Elementary Teachers 1:1:1

Sp

• Prerequisite(s): Admission to Professional Education Program or permission of instructor.
For Elementary Education senior education students. Reviews the theory and practice of educational leadership skills. Includes classroom instruction and the analysis of skills currently being used in schools.

EDEL 4880

Student Teaching--Grades 1-3 4 to 8:0:12 to 24

Sp

• Prerequisite(s): Admission to Professional Education Program. Successful completion of all professional education courses.
• Corequisite(s): EDEL 4980
For Elementary Education students. A culminating ten-week teaching experience in an elementary classroom, grades 1-3. Includes application of knowledge, skills, and attitudes derived in previous course work and program experience. Must complete a combined ten-week experience in EDEL 4880 and EDEL 4890.

EDEL 4890

Student Teaching--Grades 4-6 4 to 8:0:12 to 24

Sp

• Prerequisite(s): Admission to Professional Education Program. Successful completion of all professional education courses.
• Corequisite(s): EDEL 4980
For Elementary Education students. A culminating ten-week teaching experience in an elementary classroom, grade 4-6. Includes application of knowledge, skills, and attitudes derived in previous course work and program experience. Must complete a combined ten-week experience in EDEL 4880 and EDEL 4890.

EDEL 491R

Independent Study

2 to 4:0 to 4:0 to 12 On Sufficient Demand

• Prerequisite(s): Department Chair Approval
For Bachelor Degree seeking students and other interested persons. Offers independent study as directed at the discretion and approval of the department chairperson. May be repeated for up to three credits toward graduation.

EDEL 4980 (Cross-listed with: EDEC 4980)

Elementary 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 (EDEC 4860 OR EDEC 4870)
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.

EDSC—SECONDARY EDUCATION

EDSC 2010

Content Area Tutoring 2 to 6:1:5 to 25

Su, F, Sp

• Prerequisite(s): Instructor Approval
For those interested in working for tutorial programs on campus. Includes methodology, theory and practice of tutoring and completers will have met the requirements for CRLA tutor certification. Features experience tutoring students who have a variety of learning styles. Prepares teachers to appropriately train and use tutors for all students under their direction.

EDSC 2540

Development of the Adolescent Student 2:2:0

Su, F, Sp

A core course for Secondary Education students. Examines development of the adolescent in areas of physical, cognitive, psychological, social, and sexual development and the relationship of development in these areas with success in school. Explores common problems of adolescence and methods of dealing with these problems in the school setting.

EDSC 3000

Educational Psychology 3:3:0

Su, F, Sp

• 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.

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. Presents strategies for routing management of the classroom environment and materials, and the initial set up of classrooms and management plans. Covers theory and practice. Taught during the fall semester prior to the start of public schools.

EDSC 4250

Classroom Management II

1:1:0

Su, F, Sp

• Prerequisite(s): EDSC 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.

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

Course Descriptions

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 curricular history and issues, national, state, and district standards; and prepares pre-service secondary students to write objectives, lesson plans, and units using appropriate generic models of instruction and assessment. Includes intensive field experience in public schools.

EDSC 4850

Student Teaching--Secondary

4 to 8:0:12 to 24

F, Sp

• Prerequisite(s): Admission to Professional Education Program. Successful completion of all professional education and content courses.

Culminating ten-week teaching experience in a secondary classroom, grades 7-12. Includes application of knowledge, skills, and attitudes derived in previous course work and program experience. It is the culminating requirement for students to be recommended for a secondary education license from the Utah State Office of Education.

EDSC 491R

Independent Study

2 to 4:0 to 4:0 to 12 On Sufficient Demand

• Prerequisite(s): Department Chair Approval
For Bachelor Degree seeking students and other interested persons. Offers independent study as directed at the discretion and approval of the department chairperson. May be repeated for up to four credits toward graduation.

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.

EDSP—SPECIAL EDUCATION

EDSP 3400

Exceptional Students[†]

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.

EENG—ELECTRICAL ENGINEERING

EENG 2210

Fundamentals of Electric Circuit Analysis

3:3:0

On Sufficient Demand

• Prerequisite(s): MATH 1210, PHYS 2210

• Corequisite(s): EENG 2215

Studies fundamental electric circuit analysis techniques. Develops analysis techniques using Kirchoff's laws, Thevenin 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

Su, F, Sp

• Prerequisite(s): MATH 1210, PHYS 2210

• Corequisite(s): EENG 2210

Covers fundamental electric circuit analysis techniques. Develops analysis techniques using Kirchoff's laws, Thevenin 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. Integrates a laboratory.

EENG 2275

Circuit Theory Lab

1:0:3

Su, 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, Sp

• 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

1:0:3

Su, F, Sp

• 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

Su, F, Sp

• Prerequisite(s): MATH 1210, EENG 3710

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, Sp

• 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, task scheduling algorithms, task synchronization and design of a kernel for real-time systems.

EENG 4740

Queuing Theory

3:3:0

Su, F, Sp

• 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

Electronic Systems

3:3:0

Sp

• Prerequisite(s): EENG 2270
• Corequisite(s): EENG 4765

Introduces semiconductor theory and the fundamentals of diode and transistor operation. Covers the use of discrete and integrated active devices in linear amplifier and switching applications.

EENG 4765

Electronics Systems Lab

1:0:3

Su, F, Sp

• Prerequisite(s): EENG 2270
• Corequisite(s): EENG 4760

Designed to accompany EENG 4760. Electronic analog circuit design, simulation, construction, debugging and measurement of circuit performance quantities using advanced instrumentation techniques.

EGDT—ENGINEERING GRAPHICS AND DESIGN TECHNOLOGY

EGDT 1000

Basic Drafting

2:2:0

Su, F, Sp

A beginning course for Engineering Graphics and Design Technology students; students in the School of Technology, Trades, and Industry programs who need a related drafting class; and general education students wanting to explore a drafting class. Covers basic sketching, instruments and their use, lettering, geometric construction, dimensioning, multi-view drawings, and section views. Completers should be qualified to take any of the first-year drafting technology courses.

EGDT 1010

Electrical-Electronic Drafting

3:3:0

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 1040

Computer Aided Drafting--AutoCAD

3:3:0

Su, F, Sp

• Prerequisite(s): EGDT 1000 recommended
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

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, lofts, coils, shells, placed features, patterns, and many others. Also teaches creation of basic multi-part assemblies, constraint-driven assembly animation, and generation of detailed production drawings.

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 Architectural 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, hand lettering procedures, 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
For Engineering Graphics and Design Technology, Welding Technology, and intended Mechanical Engineering majors. Requires previous knowledge of linework, lettering, geometric construction, and dimensioning. Teaches engineering sketching and detail drawing from design layouts. Uses Machinery's Handbook, ANSI Standard and manufacturer's reference materials involving retaining rings, bearings, oil seals, and other hardware. Emphasizes geometric dimensioning and tolerancing. Includes precision dimensioning, surface finish, materials, screw threads, and machining processes and applications.

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.

Course Descriptions

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

GP

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 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

A computer-assisted course which covers dimensioning, filling and room identification of a previously drawn commercial floor plan. Includes layout detailing and dimensioning of the site plan, footing and foundation plan, door and window schedules; reflected ceiling plan coordinated with the HVAC; electrical lighting drawings; cross and longitude sections; roof framing; and exterior elevations. Also covers structural details including stress analysis in terms of beam and column design and footing widths. 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,

Course Descriptions

EGDT

ENGH

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 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 commercial drafting which allows students, with project approval, to layout and detail a commercial floor plan of their choice. CAD-based, using standard library details.

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

I to 8:0:5 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

I:I: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.

ENGH—ENGLISH-BASIC COMPOSITION

ENGH 0890

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.

Course Descriptions

ENGL 0990
Basic Writing II†
3:5:0 **Su, F, Sp; DE**
 • Prerequisite(s): ENGL 0890 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—ENGLISH AND LITERATURE

ENGL 1010** **CC**
Introduction to Writing
3:3:0 **Su, F, Sp; DE**
 • Prerequisite(s): COMPASS Writing/DRP scores of 80+/77+, or ACT English/ACT Reading scores of 19 +/19+, or completion of ENGL 0990 and CLSS 1170 each with a grade of "C-" or higher, or appropriate placement scores, or challenge by essay assessment for a \$20 fee.
 Emphasizes, in writing intensive workshops, rhetorical knowledge and skills. Teaches critical reading, writing, and thinking skills. Explores writing situations as complex and recursive processes. Enhances basic literacies, addressing both rhetorical problems and conventions of language use (within the context of Standard Written English). Three major essays with graded revision(s), micro themes, in-class writing and collaboration, portfolios, and journals.

ENGL 101H **CC**
Introduction to Writing
3:3:0 **F, Sp**
 • Prerequisite(s): COMPASS Writing/DRP scores of 80+/77+, or ACT English/ACT Reading scores of 19 +/19+, or completion of ENGL 0990 and CLSS 1170 each with a grade of "C-" or higher, or appropriate placement scores, or challenge by essay assessment for a \$20 fee.
 Emphasizes, in writing intensive workshops, rhetorical knowledge and skills. Teaches critical reading, writing, and thinking skills. Explores writing situations as complex and recursive processes. Enhances basic literacies, addressing both rhetorical problems and conventions of language use (within the context of Standard Written English). Three major essays with graded revision(s), micro themes, in-class writing and collaboration, portfolios, and journals.

ENGL 1060 **GC**
Career Writing for Technology
3:3:0 **F, Sp**
 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 **GC**
Career Writing for Technology--A
2:2:0 **F, Sp**
 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 2010** **CC**
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 invokes 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 201H **CC**
Intermediate Writing--Humanities/Social Sciences
3:3:0 **F, Sp**
 • Prerequisite(s): ENGL 101H or ENGL 1010 with a C- or better
 Explores interfaces between the personal and the public and invokes 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 2020** **CC**
Intermediate Writing--Science and Technology
3:3:0 **Su, F, Sp; DE**
 • Prerequisite(s): ENGL 1010
 Explores public issues involving science and technology. Invokes problems for exploration. Emphasizes the production of well-reasoned and carefully researched written arguments that inquire, interrogate, and negotiate meanings across a diverse array of positions and in a variety of contexts, including writing about science and technology issues, and technical and/or professional documents. Includes at least one major research project (possibly more), annotated bibliography and/or appendices, oral presentations (individual and/or group), portfolios, in-class writing, and collaboration. May include basic requirements for professional and technical documents (memos, letters, reports, and

more).

ENGL 202H **CC**
Intermediate Writing--Science and Technology
3:3:0 **F, Sp**
 • Prerequisite(s): ENGL 101H or ENGL 1010 (C- or better)
 Explores public issues involving science and technology. Invokes problems for exploration. Emphasizes the production of well-reasoned and carefully researched written arguments that inquire, interrogate, and negotiate meanings across a diverse array of positions and in a variety of contexts, including writing about science and technology issues, and technical and/or professional documents. Includes at least one major research project (possibly more), annotated bibliography and/or appendices, oral presentations (individual and/or group), portfolios, in-class writing, and collaboration. May include basic requirements for professional and technical documents (memos, letters, reports, and more).

ENGL 2030 **HH**
Rhetoric of Persuasion
3:3:0 **F, Sp**
 • 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 2130 **HH**
Science Fiction
3:3:0 **F**
 • 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

• 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 2200

Introduction to Literature[†] 3:3:0

• 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

• 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 2230**

Myths and Legends in Literature 3:3:0

• Prerequisite(s): ENGL 1010
• Corequisite(s): ENGL 1010
Introduces students to myths and legends that are the foundation of literature. Uses discussion, storytelling, videos, journals, and portfolios.

ENGL 223H

Myths and Legends in Literature 3:3:0

• Prerequisite(s): ENGL 1010
Provides a thorough foundation for the study of classical mythology; explores common myth themes through guided research and projects in world myth; analyzes myth through a variety of theoretical perspectives. Focuses on lecture, discussion, written and oral presentations, myth analysis, exams, and papers.

ENGL 2250**

Creative Process and Imaginative Writing 3:3:0

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 UVSC's Writing Program/Composition courses for the AA/AS degree.

ENGL 225H

Creative Process and Imaginative Writing 3:3:0

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**

Shakespeare

3:3:0

• 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 230H

Shakespeare

3:3:0

• Prerequisite(s): ENGL 1010

For General Education students and English majors. Introduces several Shakespeare plays with particular attention to analysis and critical evaluation of Shakespeare's works. Teaches comprehension of Shakespeare's works and their continued cultural stature. Explores aspects of dramatic performance and a selection of Shakespeare's poetry. May include discussion, lectures, films, papers, examinations, and attending or performing in plays or scenes from plays. Completers should be able to interpret Shakespearean literature and explain the relationship of Shakespeare's works to the world of today.

ENGL 2310

Technical Communication

3:3:0

• Prerequisite(s): ENGL 1010

For Technical Communication minors and those interested in improving their professional and technical communication knowledge and abilities. Emphasizes clear and concise written, oral, and visual communication strategies. Includes creation of professional documents such as technical descriptions, proposals, correspondence, and other work-related

communication in both print and electronic media.

ENGL 2510

American Literature before 1865

3:3:0

• 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

• 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

• 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

• 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

• 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

• Prerequisite(s): ENGL 2010 or ENGL 2020

Analyzes gender from an interdisciplinary

Course Descriptions

model. Explores such issues as the definition of masculinity and femininity, the function of gender roles and stereotypes, and what it means to have sexed bodies and minds. Analyzes questions of gender through the different frameworks of literature, anthropology, sociology, history, biology, psychology, and philosophy.

ENGL 276R

Themes in Literature

3:3:0

Su, 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

GH

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

GH

Su, F, Sp

Provides independent study as directed in reading and individual projects at the discretion and approval of the Dean and/or Department Chair. Limited to three credits toward graduation with an AS/AA degree.

ENGL 3000

Professional Considerations for the English Major

1:1:0

F, Sp

• Prerequisite(s): ENGL 2010 or ENGL 2020

Discusses various career choices for English majors. Familiarizes students with curricular

emphases and department faculty.

Emphasizes internships and other activities available to help majors professionalize.

Features a regular rotation of English faculty guest speakers. English majors must take the course as early as possible, no later than their junior year.

ENGL 3010

Rhetorical Theory

3:3:0

F, Sp

• Prerequisite(s): ENGL 2010 or ENGL 2020

Considers prominent theories of rhetoric and accompanying methods for the production of texts in various contexts, encouraging adopting, amending, and/or developing hybrid theories of rhetoric.

ENGL 3020

Modern English Grammars

3:3:0

F, Sp

• Prerequisite(s): ENGL 2010 or ENGL 2020

Explores language structures, discovering connections between grammar (linguistic structure) and language uses (discourse and/or rhetoric). Writing intensive. Includes the study of and practice in informed decision making in the process of developing language structures (grammatical choices) appropriate to a particular rhetorical aim.

ENGL 3030

Writing and Communicating Effectively in/across Contexts

3:3:0

F, Sp

• 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 Desktop Publishing

3:3:0

Sp

• Prerequisite(s): ENGL 2010 or ENGL 2020 or Instructor Approval; ENGL 2050 recommended

Refines student editing skills. Provides students with the opportunity to take a

manuscript through the editing phase to a press-ready state utilizing desk-top publishing software. Teaches industry standards for software, equipment, and typesetting using hands-on projects. Recommended for students involved with student publications, including journals and campus newspaper.

ENGL 3090

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 3310 (Crosslisted with COMM 3110)

Designing Documents for Print Media

3:3:0

Sp

• Prerequisite(s): ENGL 2010 or ENGL 2020 or ENGL 2310; Recommended: ENGL 2050

For advanced undergraduates. Teaches design-intensive technical communication tools for the print media, including Quark XPress and the Adobe creative suite. Explores the writer's role in creating print and electronic documentation through such projects as designing books and designing marketing literature/corporate identities. Topics include design, typography, and prepress issues as they relate to writing and editing documents.

ENGL 3320

Grant and Proposal Writing

3:3:0

F, DE

• 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

F

• Prerequisite(s): ENGL 2010 or ENGL 2020; Recommended: ENGL 2050, ENGL 2310

For advanced undergraduates. Explores the writer's role in creating online help and web-based documentation through document management, web-based documentation design, and online helpfile creation. Includes Framemaker, helpfile creation tools, and web design tools. Topics may include methodologies for determining usability, information architecture, and document management.

ENGL 3420
Intermediate Fiction Writing
3:3:0 F, Sp
 • Prerequisite(s): ENGL 2250 or instructor/advisor approval
 Implements a variety of intermediate techniques for generating, writing, and revising stories for publication and public readings, along with readings in theory and fiction.

ENGL 3440
Intermediate Poetry Writing
3:3:0 F, Sp
 • 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 3510
Early American Literature
3:3:0 Su, F, Sp
 • 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 Su, F, Sp
 • Prerequisite(s): ENGL 2010 or ENGL 2020, and ENGL 2510 or ENGL 2520
 Studies American literary works during the Romantic period, roughly 1830-1870. Authors may include Hawthorne, Melville, Poe, Emerson, Thoreau, Douglass, Jacobs, Stowe, Whitman, and Dickinson. Locates the contribution of both canonical and lesser-known authors within cultural and historical contexts. Requires informal and formal writing, presentations, and exams.

ENGL 3525
American Literary Realism and Naturalism
3:3:0 F, Sp
 • 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 Su, F, Sp
 • 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 Su, F, Sp
 • 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. Explores multiple genres, including fiction, drama, poetry, and film, and devotes particular attention to recent developments in literary criticism.

ENGL 3610
Medieval Literature
3:3:0 Su, F, Sp
 • Prerequisite(s): ENGL 2010 or ENGL 2020, and ENGL 2610 or ENGL 2620
 Covers major authors, works, and themes from Anglo Saxon, Middle English, up to the Tudor period (750 to 1485 AD). Studies selected authors. May include "Beowulf" poet, Julian of Norwich, Langland, Margery Kempe, Malory, Marie De France, the "Pearl" poet, and the Wakefield Master. Includes brief discussion of Chaucer. Analyzes relevant cultural, philosophical, and historical aspects of the period. Includes lectures, discussions, oral presentations, films, tests, journal writing, and papers.

ENGL 3620
Tudor British Literature
3:3:0 Su, F, Sp
 • Prerequisite(s): ENGL 2010 or ENGL 2020, and ENGL 2610 or ENGL 2620
 Covers major authors, works, and themes from the Tudor period (1485-1603). Studies selected authors. May include Surrey, Wyatt, Skelton, Moore, Marlowe, Sydney, Spenser, Queen Elizabeth I, Raleigh, Mary Herbert, Shakespeare, Drayton, Campion, and Nashe. Briefly discusses Shakespeare. Analyzes relevant cultural, philosophical, and historical aspects of the period. Includes lectures, discussions, oral presentations, films, tests, journal writing, and papers.

ENGL 3630
Stuart British Literature
3:3:0 Su, F, Sp
 • Prerequisite(s): ENGL 2010 or ENGL 2020, and ENGL 2610 or ENGL 2620
 Covers major authors, works, and themes from the Stuart period (Jacobean, English Civil War, and Restoration eras). Studies selected authors. May include

Shakespeare, Jonson, Lanyer, Donne, Wroth, Herbert, Herrick, Vaughn, Marvell, Cavendish, Philips, Milton, Behn, and Dryden. Discusses relevant cultural, philosophical, and historical aspects of the period. Includes lectures, discussion, oral presentations, films, journal or response writing, and papers.

ENGL 3640
Restoration and 18th Century British Literature
3:3:0 Su, F, Sp
 • Prerequisite(s): ENGL 2010 or ENGL 2020, and ENGL 2610 or ENGL 2620
 Surveys major authors and works from the Augustan and Johnsonian eras of British literature, including literary, political, historical, religious, and social trends and ideas. Studies selected authors. May include Defoe, Swift, Pope, Johnson, Thompson, Gray, Collins, Goldsmith, Montague, Burney, and others. Includes lectures, discussion, oral presentations, papers, and tests.

ENGL 3650
Romantic British Literature
3:3:0 Su, F, Sp
 • Prerequisite(s): ENGL 2010 or ENGL 2020, and ENGL 2610 or ENGL 2620
 Explores British poetry, fiction, and nonfiction of the Romantic era (approx. 1780-1830) by authors including Blake, Wordsworth, Coleridge, Byron, Keats, the Shelleys, and Austen. Examines historical and philosophical trends that shaped the era's literature and were shaped by it. Involves lecture, discussion, small group work, audiovisual presentations, examinations, and writing.

ENGL 3655
Victorian British Literature
3:3:0
 • 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 Rossetts, 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 Su, F, Sp
 • Prerequisite(s): ENGL 2010 or ENGL 2020, and ENGL 2610 or ENGL 2620
 Explores modern British literature (c. 1900-1945) in relation to intellectual and historical developments. Emphasizes the literature of empire and of the world wars, modernist experimental writing, and reactions against modernism. Involves lectures, discussion, audiovisual presentations, written assignments, and exams.

Course Descriptions

ENGL 3670

Contemporary British Literature

3:3:0

• Prerequisite(s): ENGL 2010 or ENGL 2020, and ENGL 2610 or ENGL 2620

Explores contemporary British literature (1945-present) in relation to intellectual and historical developments. Emphasizes postmodern and postcolonial writing alongside traditional forms that, together, characterize recent British literature. Involves lectures, discussion, audiovisual presentations, written assignments, and exams.

ENGL 3710

Literature by Women[†]

3:3:0

F, 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 3740

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 3760

World Literature

3:3:0

HH

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

F

• 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

Su, 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 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 4250

Adolescent Literature[†]

3:3:0

F

• Prerequisite(s): ENGL 2010 or ENGL 2020
Engages secondary education majors and other interested students in the study of literature written explicitly for adolescent readers. Explores attitudes towards adolescence as a distinctive psychological, social and moral state using contemporary and time-honored works from various cultures. Particular attention paid to contemporary adolescent issues, history of young adult literature, value instruction, and the role of young adult literature in the literacy development process.

ENGL 4310

Advanced Technical Communication

3:3:0

Su, F, Sp

• Prerequisite(s): ENGL 2010 or ENGL 2020
For upper-division technology management majors, technical writing emphases and minors, and as elective credit for other upper-division students. Teaches writing skills most in demand for business and industry today. Provides collaborative experience in the development of a lengthy, professional-caliber manual or handbook, using computers. Emphasizes primary and secondary research, guest lecturers, and coaching by members of the business community.

ENGL 4320

Document Management

4:3:2

Sp

• Prerequisite(s): ENGL 2310, ENGL 3310
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

F, Sp

• 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 **Su, F, 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 **F, Sp**
 • Prerequisite(s): ENGL 3440
 Provides further practices and techniques for generating, writing, and revising original poetry. Includes poetry readings, memorizations, workshoping and submission of original poetry to literary journals. Focuses on contemporary poetry and critical theories associated with contemporary poetry.

ENGL 4450
Creative Nonfiction Writing
3:3:0 **F, Sp**
 • Prerequisite(s): ENGL 2250, or instructor/advisor approval
 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 **F, Sp**
 • Prerequisite(s): ENGL 2010 or ENGL 2020
 Surveys the "great American novel," providing historical, regional, and cultural perspectives of one of the richest genres in literary history.

ENGL 4620
Chaucer
3:3:0 **Sp**
 • Prerequisite(s): ENGL 2010 or ENGL 2020
 Studies selected works by Chaucer investigating selections primarily from The Canterbury Tales, with some use of Chaucer's other major and minor poetry.

Considers context of cultural and historical perspectives of the Middle Ages. Includes lectures, discussions, oral presentations, films, tests, journal writing, and papers.

ENGL 463R
Topics in Shakespeare
3:3:0 **Su, F, Sp**
 • Prerequisite(s): ENGL 2010 or ENGL 2020
 Examines various topics related to Shakespeare's works. May include study of his genres, poems, sonnets, theater, and/or relevant cultural and historical aspects of his times. May use lectures, discussions, group work, oral presentations, papers, tests, and film. May be repeated for a maximum of 6 credits for graduation with different topics.

ENGL 4640
Milton
3:3:0 **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 4700
Advanced College Writing
3:3:0 **Su, F, Sp**
 • Prerequisite(s): ENGL 2010 or ENGL 2020
 An advanced, interdisciplinary course in communication and writing. Emphasizes critical thinking, reading, writing, and multimedia presentation skills. Requires students to write and present annotated bibliographies, critical/analytical essays, oral reports, and a major research report. Successful completers should write and present information confidently and professionally.

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 **Su, F, 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 4760
Multi-ethnic Literature in America
3:3:0 **F**
 • Prerequisite(s): ENGL 2010 or ENGL 2020
 Surveys multi-ethnic literature reflecting the rich diversity inherent in American experience. Includes but is not limited to works by Native American, Hispanic American, Asian American, African American authors.

ENGL 481R
Internship
I to 8:0:5 to 40 **Su, F, Sp**
 • Prerequisite(s): Departmental approval, senior status
 For senior English majors and minors. Internships are intended to offer students opportunities to work with instructors and other professionals on task related to the field of English. Students who receive credit for an internship must establish learning objectives with their Faculty Sponsor at the beginning of their internship and reflect on their learning through academic work (i.e. papers, journal, etc.). Students are required to submit an evaluation of their experience at the end of the semester. May be repeated for a maximum of 8 credits toward graduation.

ENGL 486R
Topics in Literature
3:3:0 **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
I 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

Course Descriptions

available through regular course work.
May be repeated two times for a total of up to nine credits.

ENGL 4950 Senior Seminar

3:3:0 **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.

ENGR—ENGINEERING SCIENCE

ENGR 1000 Introduction to Engineering

3:3:0 **F, Sp**
• Prerequisite(s): MAT 1000 or MAT 1010
Introduces the various areas of engineering to pre-engineering majors and others interested in learning more about the contributions engineers make to our modern society. Includes a brief history of engineering and discussions about what engineers really do. Discusses professional ethics, responsibilities, and career opportunities. Emphasizes problem solving skills and the processes and procedures of engineering design. Includes lectures, projects, guest speakers, field trips, and in-class exercises.

ENGR 2010 Engineering Statics

3:3:0 **F, Sp**
• Prerequisite(s): MATH 1210, 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

3:3:0 **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

3:3:0 **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

3:3:0 **Sp**
• Prerequisite(s): MATH 1220, PHYS 2210
Covers static pressure, phase diagrams, equations of state, and mass balance. Studies the first and second laws of thermodynamics and their application in engineering problem solving. Includes analysis of open and closed systems, steady state, and unsteady flow problems. Studies heat engine, refrigeration, and Carnot cycles. Discusses Entropy and Energy balance.

ENGR 2450 Computational Methods for Engineering Analysis

3:3:0 **F**
• Prerequisite(s): MATH 1210, CS 1400
Discusses computational and symbolic methods for the solution of complex engineering problems. Discusses computer representation of numbers and algorithm error analysis. Covers the solution of algebraic and differential equations. Includes the use of modern software tools.

**ENGR 295R
Special Topics**
1 to 3:1 to 3:0 **On Sufficient Demand**
• Prerequisite(s): Permission of Department Chair
Presents various engineering topics. Examines current technology, techniques, processes and equipment. Includes oral and written reports. May be repeated for a maximum of 3 credits toward graduation.

ENST—ENVIRONMENTAL STUDIES

ENST 3000 Introduction to Environmental Studies

3:3:0 **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.

ENVT—ENVIRONMENTAL MANAGEMENT

ENVT 1110 Introduction to Environmental Management

3:3:0 **F, Sp**
Surveys environmental issues and the impact of people on the environment. Covers water, air, and soil pollution. Discusses pollution prevention and remediation methods. For majors and any who have an interest in environmental issues.

ENVT 1200 Environmental Worker Safety

3:3:0 **F**
Discusses safety laws, training requirements, and the use of personal protective equipment. Covers management of a safety program and development of a safety culture.

ENVT 1210 Introduction to Water Reclamation

3:3:0
Covers the basic processes used to treat wastewater including primary treatment, biological treatment, and chemical treatment processes. Offers excellent preparation for the state license exam.

ENVT 1270 Environmental Microbiology

3:3:0 **F**
• Prerequisite(s): MICR 2060 recommended
For water managers, public health workers, and environmental managers. Discusses the role microorganisms in water treatment, wastewater treatment, agriculture, environmental change, and others.

ENVT 1300 Environmental Lab and Sampling

3:2:3 **Sp**
Studies basic laboratory techniques used by labs working on environmental projects. Covers safety, pH, dissolved oxygen, BOD, turbidity, organics, and others. Includes opportunities for undergraduate research.

ENVT 1360 Introduction to Water Treatment

3:3:0
Covers coagulation, sedimentation, filtration, water sources, sampling, disinfection, and regulations. Introduces the equipment used to treat water. Discusses the prevention of disease through effective treatment.

ENVT 1510 Hazardous Materials Emergency Response

3:3:0 **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.

Course Descriptions

<p>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.</p> <p>ENVT 2600 Skills for Humanitarian Projects 3:3:0 F For students interested in participating in humanitarian projects. Covers water supplies, adobe stoves, drip irrigation systems, photoelectric lighting, and rules for safety in unfamiliar surroundings.</p> <p>ENVT 2710 Environmental Careers 1:1:0 Sp For all students interested in environmental careers. Explores the career opportunities in environmental areas. Covers resumes, letters of inquiry, networking, and other methods of job seeking.</p> <p>ENVT 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.</p> <p>ENVT 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.</p> <p>ENVT 3010 Environmental Toxicology 3:3:0 F • Prerequisite(s): BIOL 1010 and CHEM 1110 recommended For environmental managers and safety managers. Discusses safe levels of exposure, safe industrial practices and regulations. Reviews standards for toxic substances. Increases awareness of toxins commonly found on job sites.</p> <p>ENVT 3280 Environmental Law 3:3:0 F • Prerequisite(s): ENGL 1010 and ENGL 2020 recommended Covers the Clean Water Act, the Safe Drinking Water Act, and the Clean Air Act. Reviews the Toxic Substances Control Act, the Resource Conservation and Recovery Act, the Superfund law, DOT regulations, and OSHA regulations.</p>	<p>ENVT 3290 Environmental Permits and Reports 3:3:0 On Sufficient Demand • Prerequisite(s): ENGL 1010 and ENGL 2020 recommended For students interested in becoming environmental managers. Covers the permits and reports that are required by the EPA, OSHA, state and local agencies that relate to air, water, and hazardous materials. Includes the preparation of sample permit applications and monthly operational reports.</p> <p>ENVT 3320 Hydraulics of Water 3:3:0 On Sufficient Demand • Prerequisite(s): MAT 1010 Prepares students to analyze the flow of water. Includes the continuity equation, Hazen-Williams formula, and the Bernoulli Theorem. Completers will be better able to interact with engineers and operate water equipment in a professional manner.</p> <p>ENVT 3330 Water Resources Management 3:3:0 Examines the broad issues that affect water quality and supply. Covers watershed management, limnology, stormwater management, and wetlands. Discusses the biological and physical processes that occur and the legal constraints that affect management decisions.</p> <p>ENVT 3530 Environmental Management Systems 3:3:0 On Sufficient Demand • Prerequisite(s): ENGL 1010 and ENGL 2020 recommended For those interested in the interaction between industry and the environment. Covers the systems and organization necessary to effectively manage environmental issues. Discusses the ISO 14000 standard and its effect upon management practices.</p> <p>ENVT 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.</p> <p>ENVT 3630 (Cross-listed with: GEOG 3630) Introduction to Geographic Information Systems 4:3:2 Su, F, Sp • Prerequisite(s): GEOG 1300 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,</p>	<p>engineering, and other related fields.</p> <p>ENVT 3700 Current Topics in Environmental Management 3:3:0 Sp • Prerequisite(s): ENVT 1110 recommended Studies local environmental issues, new technologies, and the challenges faced by environmental managers. Issues discussed will vary with the semester. Prepares students for a thoughtful discussion of environmental issues.</p> <p>ENVT 3750 Land Use Planning 3:3:0 F • Prerequisite(s): ENVT 3280 recommended Covers key issues in land use planning and how they affect the environment. Includes multiple use concepts, focused uses, zoning, mapping, and the political processes used in planning. Discusses the importance of strategic planning and public relations.</p> <p>ENVT 3770 Natural Resources Management 3:3:0 On Sufficient Demand • Prerequisite(s): BIOL 1010 recommended For students in the Environmental Management program and others interested in natural resource issues. Introduces the management and conservation of natural resources. Discusses forestry, range management, wildlife management, and outdoor recreation.</p> <p>ENVT 3790 Hydrology 3:3:0 On Sufficient Demand • Prerequisite(s): MAT 1010 and DGM 201D recommended Presents a comprehensive review of the role of water in the environment. Discusses precipitation, runoff, surface flow, groundwater movement, effects of vegetation on water cycles, and human impacts. Knowledge of spreadsheets recommended.</p> <p>ENVT 3800 (Cross-listed with: CHEM 3800, PHYS 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</p>
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ENGR

ENST

ENVT

Course Descriptions

impact in our society.

ENVT 3850
Environmental Policy
3:3:0 **Su, F, Sp**
• Prerequisite(s): ENVT 1110 and ENVT 3280 recommended

For upper-division students with an interest in environmental policy. Discusses the process by which policies are made and the factors that influence policy formation. Includes political factors, economics, international issues, public awareness and others.

ENVT 482R (Cross-listed with: GEO 482R)
Geologic/Environmental Internship I to 3:0:5 to 15 **Su, F, Sp**
• Prerequisite(s): GEO 1010 or ENVT 1110, and 12 credit hours of any GEO, GEOG, or ENVT courses, and declared major in any Earth Science program

Engages students in supervised geologic or environmental work in a professional setting. Requires approval by the Chair of the Department of Earth Science. Includes maintaining a journal of student experiences and preparing a paper summarizing their experience. A maximum of 3 credit hours may be counted toward graduation.

ENVT 495R
Special Projects in Environmental Management
I to 3:0:3 to 9 **Su, F, Sp**
• Prerequisite(s): Instructor Permission

Allows students to pursue undergraduate research projects. Includes instructor directed practical research. Students will prepare a report of their findings. May be repeated for a maximum of six credits toward graduation.

ESL—ENGLISH AS A SECOND LANGUAGE

ESL 0100
Basic English Language Immersion
12:12:0 **F, Sp**

• Prerequisite(s): Department Approval
For beginning ESL students, with little or no previous English experience. Integrates essential language tools and skills—reading, writing, listening, speaking, and vocabulary-needed to perform basic communicative tasks. Emphasizes building a learning community within the classroom. Includes lecture, discussion, collaborative class work, and outside experience with native English speakers.

ESL 010A
Basic English Reading and Writing
5:5:0 **F, Sp**

• Prerequisite(s): Department Approval
For beginning ESL students, with little or no previous English experience. Teaches basic competence and fluency in reading and writing. Focuses on reading fluently with meaningful comprehension and

natural vocabulary acquisition. Covers paragraph writing on topics introduced in reading, using description, narration, and biography. Includes lecture, discussion, and outside experience with native English speakers. Completers should advance to high-beginning reading and writing level.

ESL 010B
Basic English Listening and Speaking
5:5:0 **F, Sp**

• Prerequisite(s): Department Approval
For beginning ESL students, with little or no previous English experience. Teaches basic survival skills in English—grammar pragmatics, accuracy, and listening, including proper pronunciation, intonation, and rhythm patterns. Includes lab, lecture, field trips, guest speakers, and outside experience with native English speakers. Completers should advance to high-beginning English level.

ESL 010C
Basic English Vocabulary
2:2:0 **F, Sp**

• Prerequisite(s): Department Approval
For beginning ESL students, with little or no previous English experience. Teaches a 1500-word vocabulary necessary for survival and academic needs. Explores vocabulary in context around relevant themes. Includes communicative practice and authentic language practice with native English speakers. Completers should advance to high-beginning English level.

ESL 0910
Listening/Speaking Level I
4:4:1 **Su, F, Sp**

• Prerequisite(s): Department Approval
For students whose native language is other than English. Introduces concepts of pronunciation, intonation, stress, and English phonics. Explores use of simple statements, questions, and commands on familiar topics. Introduces students to academic lectures and conversations. Includes weekly use of the UVSC Language Lab where beginning conversation skills are emphasized and practiced.

ESL 0920
Reading Level I
5:5:0 **Su, F, Sp**

• Prerequisite(s): Department Approval
For students whose native language is other than English. Studies beginning vocabulary, word attack skills, English dictionary usage, and comprehension skills. Encourages reading for pleasure and for information. Introduces students to academic and job-related reading skills.

ESL 0930
Writing Level I
4:4:1 **Su, F, Sp**

• Prerequisite(s): Department Approval
For students whose native language is other than English. Introduces English writing conventions including applied

grammar and usage, word choice, style, organization, idea development, and technical accuracy. Introduces students to simple academic writing tasks. Includes weekly use of the LEC Computer Classroom where beginning writing skills are emphasized and practiced.

ESL 0940
Grammar Level I
5:5:0 **Su, F, Sp**

• Prerequisite(s): Department Approval
For students whose native language is other than English. Introduces students to English usage, correct speech and writing forms and patterns, basic verb tenses and their related structures, and simple use of nouns, pronouns, adverbs, sentence connectives, descriptives, and related forms.

ESL 1210
Listening/Speaking Level II
4:4:1 **Su, F, Sp**

• Prerequisite(s): Department Approval
For students whose native language is other than English. Studies low-intermediate concepts of pronunciation intonation, stress, and English phonics. Expands use of simple statements, questions, and commands on familiar topics as well as academic lectures, and conversations. Includes weekly use of the UVSC Language Lab where low-intermediate conversation skills are emphasized and practiced.

ESL 1220
Reading Level II
5:5:0 **Su, F, Sp**

• Prerequisite(s): Department Approval
For students whose native language is other than English. Studies low-intermediate vocabulary, word attack skills, English dictionary usage, and comprehension skills. Encourages reading for pleasure and for information. Practices academic and job-related reading skills.

ESL 1230
Writing Level II
4:4:1 **Su, F, Sp**

• Prerequisite(s): Department Approval
For students whose native language is other than English. Studies low-intermediate English writing conventions including applied grammar and usage, word choice, style, organization, idea development, and technical accuracy. Explores short academic writing tasks. Includes weekly use of the GA Computer Classroom where low-intermediate writing skills are emphasized and practiced.

ESL 1240
Grammar Level II
5:5:0 **Su, F, Sp**

• Prerequisite(s): Department Approval
For students whose native language is other than English. Studies low-intermediate English usage, correct speech and writing forms and patterns, verb tenses and their related structures, and use of nouns,

Course Descriptions

pronouns, adverbs, sentence connectives, descriptives, and related forms. Introduces modal auxiliaries, conditional sentence usage, phrases, and adjective clauses.

ESL 1310

Listening/Speaking Level III

4:4:I

Su, F, Sp

• Prerequisite(s): Department Approval
For students whose native language is other than English. Studies high-intermediate concepts of pronunciation, intonation, stress, and English phonics. Expands use of simple statements, questions, and commands on familiar topics as well as academic lectures. Emphasizes active participation in academic and social conversations. Includes weekly use of the UVSC Language Lab where high-intermediate conversation skills are emphasized and practiced.

ESL 1320

Reading Level III

5:5:0

Su, F, Sp

• Prerequisite(s): Department Approval
For students whose native language is other than English. Studies high-intermediate vocabulary, word attack skills, English dictionary usage, and comprehension skills. Encourages reading for pleasure and for information. Practices academic and job-related reading skills. Emphasizes extensive reading.

ESL 1330

Writing Level III

4:4:I

Su, F, Sp

• Prerequisite(s): Department Approval
For students whose native language is other than English. Studies high-intermediate English writing conventions including applied grammar and usage, word choice, style, organization, idea development, and technical accuracy. Explores longer academic writing tasks. Includes weekly use of the LEC Computer Classroom where high-intermediate writing skills are emphasized and practiced.

ESL 1340

Grammar Level III

5:5:0

Su, F, Sp

• Prerequisite(s): Department Approval
For students whose native language is other than English. Studies high-intermediate English usage, correct speech and writing forms and patterns, verb tenses and their related structures, and use of nouns, pronouns, adverbs, sentence connectives, 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

4:4:I

Su, F, Sp

• Prerequisite(s): Department Approval
For students whose native language is other than English. Studies advanced

concepts or pronunciation, intonation, stress, English phonics, critical thinking, and vocabulary. Provides opportunities for students to build confidence in public speaking. Emphasizes speaking and listening in advanced academic situations such as note-taking and participating in class discussions and debates. Includes weekly use of the UVSC Language Lab where advanced conversation skills are emphasized and practiced. Satisfies AAS Humanities requirements.

ESL 2120

Advanced Reading/Vocabulary

5:5:0

Su, F, Sp

• Prerequisite(s): Department Approval
For international students whose native language is other than English. Using the English language, emphasizes developmental activities in finding stated main ideas and details, understanding inferred main ideas, 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

4:4:I

Su, F, Sp

• Prerequisite(s): Department Approval
For international students whose native language is other than English. Using the English language, emphasizes developmental activities in essay organization, outlining, essay writing, editing and punctuation, and research paper writing. Includes lectures, small and large group activities, peer editing, and lab activities. Satisfies AAS Humanities requirements.

ESL 2140

LH

Advanced Grammar

5:5:0

Su, F, Sp

• Prerequisite(s): Department Approval
For students whose native language is other than English. Studies advanced English usage, correct speech and writing forms and patterns 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.

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 07-08

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

I 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

I:I: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 to improve work and communications skills.

FAMT—FINE ARTS, MUSIC, AND THEATER

FAMT 281R

Cooperative Work Experience

2 to 9:1:5 to 40

F, Sp

• Prerequisite(s): Approval of Cooperative Coordinator

Designed for Fine Arts majors. Provides paid work experiences in the student's major. Course content is individualized, with students setting objectives in consultation with their faculty coordinator and their on-the-job supervisor. Credit is determined by the number of hours a student works during the semester. May be repeated four times for credit.

FREN—FRENCH

FREN 1010

Beginning French I

5:5:I

Su, F, Sp

Emphasizes understanding, speaking, reading and writing skills. Basic language usage and cultural understanding are acquired through an activity-based approach.

ESL

FAC

FAMT

FREN

Course Descriptions

FREN 1020 **LH**
Beginning French II
5:5:1 **F, Sp**
 • Prerequisite(s): Students need equivalent knowledge of FREN 1010
 Completes the first year of study. Includes the remaining grammar, language concepts, and culture, and introduces students to literature in French.

FREN 1500 **LH**
French Travel Study
3:1:6 **On Sufficient Demand**
 Introduces students to a French-speaking foreign country for a minimum of 10 days of intensive language and culture study. Course entails several meetings prior to departure and at least one after the return home to facilitate observation and analysis of data to be gathered on the tour. An organized presentation of that data will be contained in a multimedia project due no later than one month after tour.

FREN 2010 **LH**
Intermediate French I
5:5:1 **F, Sp**
 • Prerequisite(s): Students need equivalent knowledge of FREN 1020
 Reviews grammar, reading, writing, and conversation skills learned throughout the first year. Introduces readings and discussions on the history, culture, and literature of the French world.

FREN 2020 **HH**
Intermediate French II
3:3:0 **Sp**
 • Prerequisite(s): Students need equivalent knowledge of FREN 2010
 Emphasizes reading, writing, and conversational skills through studies in literature excerpts and complete works.

FREN 2050
Advanced French Grammar and Composition
3:3:0 **On Sufficient Demand**
 • Prerequisite(s): FREN 2020 or equivalent
 Explores grammar of French focusing on areas typically difficult for English speakers. Provides extensive instruction in, and opportunity for the students' improvement in language production, both oral and written. Completers should improve considerably their ability to express themselves in the foreign language both orally and in written form.

FREN 3040
Introduction to Literary Genres in French
3:3:0 **On Sufficient Demand**
 • Prerequisite(s): FREN 2050 or equivalent
 Explores different literary genres in the French 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 French.

FREN 3050 **LH**
Advanced French
3:3:0 **On Sufficient Demand**
 • Prerequisite(s): FREN 2020, one year residency in French speaking country, or placement test
 Continues to emphasize reading, writing, and conversational skills through studies in literary excerpts and complete works. Includes a review of grammar and an introduction to French culture.

FREN 3200 **LH**
Business French
3:3:0 **On Sufficient Demand**
 • Prerequisite(s): Students need equivalent knowledge of FREN 3050
 For those who plan to pursue careers in international business or related fields, learn French business language, understand French corporate culture, or plan to major or minor in French. Teaches French business terminology and prepares students to take the Chambre de Commerce et d'Industrie de Paris exam. Explores technological, personal, and professional aspects of business. Will be taught entirely in the French language.

FREN 3510
Culture and Civilization to 1700
3:3:0 **On Sufficient Demand**
 • Prerequisite(s): Students need equivalent knowledge of FREN 3050
 Explores chronologically to 1700 the formation and development of French speaking societies and cultures. Completers should acquire an understanding of the ethnic development and linguistic history of these societies and countries. Presentations and class instruction conducted entirely in French.

FREN 3520
Culture and Civilization from 1700
3:3:0 **On Sufficient Demand**
 • Prerequisite(s): Students need equivalent knowledge of FREN 3050
 Explores chronologically from 1700 the evolution and development of French speaking societies and cultures. Completers should acquire an understanding of the ethnic development and linguistic history of these societies and countries. Presentations and class instruction conducted entirely in French.

FREN 3610
French Literature to 1700
3:3:0 **On Sufficient Demand**
 • Prerequisite(s): Students need equivalent knowledge of FREN 3050
 Introduces chronologically to 1700 representative French authors. Emphasizes literary analysis and criticism. Completers should develop knowledge of literary history, acquire skills in interpreting literary texts, and deepen understanding of the French language. Presentations and class instruction conducted entirely in French.

FREN 3620
French Literature from 1700
3:3:0 **On Sufficient Demand**
 • Prerequisite(s): Students need equivalent knowledge of FREN 3050
 Introduces chronologically from 1700 representative French authors. Emphasizes literary analysis and criticism. Completers should develop knowledge of literary history, acquire skills in interpreting literary texts, and deepen understanding of the French language. Presentations and class instruction conducted entirely in French.

FREN 4200
Advanced Business French
3:3:0 **On Sufficient Demand**
 • Prerequisite(s): Students need equivalent knowledge of FREN 3200
 For those taking the exam leading to the Diplome de francais des affaires (DFA 2) awarded by the Chambre de Commerce et d'Industrie de Paris. Emphasizes case studies, marketing, resumes, cover letters, job interviews, computers, and the Internet. Taught entirely in French.

FS—FIRE SCIENCE

FS 281R
Cooperative Work Experience
1 to 8:0:5 to 40 **Su, F, Sp**
 • Corequisite(s): FS 285R
 Designed for Fire Science majors. Provides paid, on-the-job work experience. Work experience and the correlated class are coordinated by the Cooperative Coordinator and director who must approve enrollment. Includes student, employer, and coordinator evaluations, on-site work visits, written assignments, and oral presentations. Gives experience in writing and completing individualized work objectives that improve present work performance.

FS 285R
Cooperative Correlated Class
1:1:0 **Su, F, Sp**
 • Corequisite(s): FS 281R
 Designed for Fire Science majors. Identifies on-the-job problems and provides remediation of 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 and director. 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.

FSD—FIRE SCIENCE - DRIVER/OPERATOR

FSD 1330 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.

FSD 1340 Fire Apparatus Skill 3:0:9 On Sufficient Demand

• Prerequisite(s): FSF 1220
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.

FSE—FIRE SCIENCE - EMERGENCY MEDICINE

FSE 1140 Emergency Medical Technician--Basic 6:3:9 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.

FSE 1150 EMT Refresher Level I 2:1:2 On Sufficient Demand

• Prerequisite(s): FSF 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.

FSE 1160 Emergency Medical Technician--Intermediate 6:4:6 Su, F, Sp

• Prerequisite(s): (FSE 1140 or equivalent) or EMT-Basic Certification for one year or six months experience as a Utah EMT-Basic with prior Utah Bureau of Emergency Medical Services approval.
Prepares students for certification as an Emergency Medical Technician-Intermediate through the Utah Bureau of EMS. Includes advanced airway management, intravenous access,

medication administration, cardiac rhythm interpretation and other advanced medical skills.

FSE 2500 Paramedic I 5:5:0 F, Sp

• Prerequisite(s): EMT-Basic Certification for one-year; ZOOL 1090 with a grade of "C" or higher; Completion of ENGH 0990 or higher; MAT 0990 or higher or FSF 1350 with a grade of "C-" or higher; or departmental approval.
• Corequisite(s): FSE 2510, FSE 2520, and FSE 2530

For first semester paramedic students with previous EMS experience. Introduces the Emergency Medical Services system and the role of the paramedic. Covers pre-hospital instruction for the care of the sick and injured including lectures in EMS communication, medical and legal considerations and documentation. Includes anatomy and physiology of the human body as it applies to emergency care. Discusses proper sterile technique, scene evaluations, and patient assessments. Covers acid/base, fluid and electrolytes and fluid resuscitation, patient assessment and emergency treatment of the respiratory and abdominal systems. Successful completers should be qualified to progress to the second semester program.

FSE 2510 Paramedic I Lab 3:0:9 F, Sp

• Corequisite(s): FSE 2500, FSE 2520, and FSE 2530
For first semester Paramedic students with previous EMS experience. Designed to allow hands-on practice and evaluation of the following skills: IV therapy, IO infusions, IM injections, SQ injections, oral and nasal intubation, thoracotomy, cricothyrotomy, defibrillation, transcutaneous pacing, cardioversion, medication delivery, and patient assessment. Completers should be qualified to progress to the second semester program.

FSE 2520 Paramedic II 7:6:3 F, Sp

• Corequisite(s): FSE 2500, FSE 2510, and FSE 2530
For first semester Paramedic students with previous EMS experience. 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.

FSE 2530 Paramedic III 4:4:0 F, Sp

• Corequisite(s): FSE 2500, FSE 2510, and FSE 2520
For first semester Paramedic students with previous EMS experience. Discusses the Emergency Medical Services system and the role of the paramedic. Covers pre-hospital instruction for the care of the sick and injured including lectures in diabetes, alcoholism, overdose and ingestion, and communicable diseases. Includes pediatrics (PALS), obstetrics, childbirth, care of the neonate, geriatrics, incident command system (ICS), interpersonal skills, and critical incident stress. Completers should be qualified to progress to the second semester program.

FSE 2540 Paramedic IV 6:5:3 Su, Sp

• Prerequisite(s): FSE 2500, FSE 2510, FSE 2520, and FSE 2530
• Corequisite(s): FSE 2550
For students who have completed the first semester of the Paramedic program. Discusses the Emergency Medical Services (EMS) system and the role of the paramedic within this system. Teaches the terms, definitions, concepts, 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.

FSE 2550 Paramedic Work Experience 6:0:18 Su, Sp

• Prerequisite(s): FSE 2500, FSE 2510, FSE 2520, and FSE 2530
• Corequisite(s): FSE 2540
For students who have completed the first semester of the Paramedic program. 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 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.

FS
FSD
FSE

Course Descriptions

FSF—FIRE SCIENCE - FIREFIGHTER

FSF 1000

Survey of Fire and Rescue Emergency Services

3:3:0 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.

FSF 1010

Firefighting Fundamentals I

3:3:0 On Sufficient Demand

• Corequisite(s): FSF 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.

FSF 1210

Firefighting Skills I

4:0:12 On Sufficient Demand

• Corequisite(s): FSF 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.

FSF 1220

Firefighting Fundamentals and Skills II

3:1:6 On Sufficient Demand

• Prerequisite(s): FSF 1010 or Departmental approval

Teaches intermediate skills as described in NFPA 1001 Level II. Builds upon the basic skills taught in FSF 1010 and introduces new skills and knowledge in water supplies, portable extinguisher practices, inspection techniques, and rescue operations.

FSF 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: FSF 1000, FSE 1140, ENGH 0990 or higher, and MAT 0990 or higher.
• Corequisite(s): FSF 1320

For students with no previous fire fighting experience. Addresses the cognitive requirements of Firefighter I and II certification for NFPA 1001, Professional Qualifications for Firefighters. Includes orientation and safety behavior, building construction, protective equipment, portable extinguishers, ropes and knots, rescue and extrication, forcible entry, ladders, 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.

FSF 1320

Recruit Candidate Academy--Skills

3:2:3 F, Sp

• Corequisite(s): FSF 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.

FSF 1330

Recruit Candidate Academy--Operations

3:2:3 F, Sp

• Corequisite(s): FSF 1310, FSF 1320, and FSF 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.

FSF 1340

Hazardous Materials First Responder

3:3:0 F, Sp

• Corequisite(s): FSF 1310, FSF 1320, and FSF 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.

FSF 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.

FSF 2910

Basic Firefighter Internship

3:0:15 Su, F, Sp

• Prerequisite(s): FSF 1330, FSF 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.

FSH—FIRE SCIENCE - HAZARDOUS MATERIALS

FSH 2410

Hazardous Materials Technician Fundamentals

3:3:0 On Sufficient Demand

• Prerequisite(s): FSF 1340

Teaches the knowledge requirements of NFPA 471, 472, and CFR 1910.120 regulation for a Hazardous Materials Technician. Includes emergency response plans, classification of materials, ICS roles, personnel protective equipment needs, masks, containment and confinement concepts, decon requirements, termination concepts, toxicological and chemical terms and definitions.

FSH 2420

Hazardous Materials Technician Skills

2:0:6 On Sufficient Demand

• Prerequisite(s): FSH 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.

FSH 2440

Hazardous Materials Chemistry

3:2:3 On Sufficient Demand

Presents in-depth chemical information for hazardous materials responders. Teaches basic knowledge of how to evaluate potential hazards and behaviors of hazardous materials. Provides the underlying reasons for chemical reactions of hazardous materials. Includes decision-making abilities, safe operations, and handling.

FSO—FIRE SCIENCE - OFFICER

FSO 2020

Incident Command

3:3:0 F, Sp

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.

FSO 2030

Fire Inspector I

3:3:0 F, Sp

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.

FSO 2050

Fire Protection and Detection Systems

3:3:0 F, Sp

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.

FSO 2060

Fire Service Management and Administration

3:3:0 F, Sp

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.

FSO 2080

Building Construction for the Fire Services

3:3:0 F, Sp

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.

FSO 2090

Fire Officer I

3:3:0 F, Sp; DE

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.

FSO 2100

Fire Supervision and Leadership

3:3:0 F, Sp

Designed to bring together basic principles of effective supervision. Includes up-to-date findings from behavioral research practical guidelines for improving supervisory and leadership skills, and applying effective supervisory practices on the job.

FSO 2110

Fire Instructor I and II

3:3:0 F, Sp

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.

FSO 211A

Fire Service Instructor I

1:1:0 F, Sp

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.

FSO 211B

Fire Service Instructor II

2:2:0 F, Sp

• Prerequisite(s): FSO 211A or Departmental Permission

For those who have already completed FSO 211A or attained Fire Service Instructor I certification. Explores job factors that influence teaching, developing behavior objectives and lesson plans, organizing the learning environment, methods of instruction, training aids, and principles of testing and evaluations. Completers should be able to prepare and conduct classroom presentations, prepare audiovisual materials and equipment, and be prepared to certify as Fire Service Instructor II.

FSO 2200

Fire Officer Work Experience

3:1:6 Su, F, Sp

• Prerequisite(s): FSO 2020 and FSO 2100

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.

FSP—FIRE SCIENCE - INSPECTOR

FSP 2310

Fire Investigator I

3:3:0 F, Sp

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.

FSP 2320

Fire Investigator II

3:3:0 On Sufficient Demand

• Prerequisite(s): FSP 2310 or Departmental Approval

Presents advanced skills for fire investigators. Explores all aspects of the investigative process, scene documentation, advance collection tools and evidence preservation, advanced investigative techniques, case preparation, presenting findings in a legal/court proceeding.

FSP 2350

Public Fire Education I

2:2:0 On Sufficient Demand

Teaches professional qualifications of NFPA 1035. Identifies fire risks and problems in a community. Teaches

FSF

FSH

FSO

FSP

Course Descriptions

selecting, designing, and implementing fire prevention and education programs.

FSR—FIRE SCIENCE - RESCUE

FSR 2180
Environmental Rescue
3:2:3 **On Sufficient Demand**
• Prerequisite(s): FSR 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.

FSR 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. Completers should be prepared for enrollment in any of the technical rescue specialty courses (FSR 2040 - FSR 2090).

FSR 2740
Rope Rescue
3:2:3 **On Sufficient Demand**
• Prerequisite(s): FSR 1330 and FSR 1340; or departmental approval
Designed to meet the rope rescue job performance requirements of NFPA 1006, Standard for Rescue Technician Professional Qualifications. Addresses various types and configurations of rope rescue systems. Includes compound mechanical advantage systems, rescuer suspension systems, high-angle and vertical victim rescue systems, construction and operation of highline systems, and ascent/ descent procedures.

FSW—FIRE SCIENCE - WILDLAND

FSW 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.

FSW 1410
Wildland Firefighter Practicum I
5:2:9 **Su**
• Prerequisite(s): FSW 1400 or departmental approval
Provides experience in fighting fires at wildfire and urban interface incidents. Studies wildland fire behavior, fire weather, and fire mitigation. Teaches size-up, chain of command, communications, strategy, and tactics. Includes developing water sources, learning engine tactics, understanding procedures for aircraft, firing and felling operations. Completers should develop skills beyond the entry level firefighter.

FSW 1420
Wildland Firefighter Practicum II
5:2:9 **Su, F, Sp**
• Prerequisite(s): FSW 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.

FSW 2300
Wildland Firefighter Basics
5:4:3 **Su, F, Sp**
• Prerequisite(s): FSW 1400 or departmental approval
Provides basic weather concepts as well as other environmental factors that influence wildland fire behavior. Features a more in-depth study of fire operations in the urban interface as well as basic aircraft operations on wildland fire incidents. Prepares 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.

FSW 2400
Advanced Wildland Firefighter
5:4:3 **Su, F, Sp**
• Prerequisite(s): FSW 2300
Introduces students to advanced wildland fire strategies and tactics as well as to common leadership tasks and principles. Includes the initiation 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 Followership 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.

FSW 2430
Wildland Firefighter Practicum III
5:2:9
Prerequisite(s): FSW 1420 and FSW 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.

FSW 2500
Wildland/Urban Interface Fire Protection
3:3:0 **F, Sp**
• Prerequisite(s): FSW 1400 or departmental approval
For advanced students. Prepares 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.

GEO—GEOLOGY

GEO 1010** **PP**
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 GEOL 1015, the class is sufficiently rigorous to articulate as an introductory geology class.

GEO 1015
Introduction to Geology Laboratory
1:0:2 **Su, F, Sp**
Designed to be taken in conjunction with GEO 1010. Includes the identification of rocks, minerals, basic land forms and structures. Studies geologic processes occurring in desert, glacial, mountainous and other environments. Taken with

Course Descriptions

GEO 1010, the class will articulate as an introductory earth science class.

GEO 101H **Introduction to Geology** **PP**

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** (Cross-listed with: BIOL 1200) **PP**

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** **F, Sp**

1:0:2
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** **PP**

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** **F, Sp**

1:0:2
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** **PP**

3:3:0 **F**
Examines the origin and development of the Earth. Studies the succession of animals and plants from trilobites through dinosaurs and eventually to man himself, following the changing earth environment

in the process. Designed for non-science students who desire an understanding of the history of the Earth. Taken in conjunction with laboratory exercises in GEO 1225, the class is sufficiently rigorous to articulate as an introductory earth science class.

GEO 1225 **Historical Geology Laboratory** **F**

1:0:2
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) **F, Sp**

Science Excursion
1:0:2
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) **PP**

Natural History Excursion
3:1:6 **Su**
For students interested in the natural world. Promotes an in-depth look at a wide variety of topics in science, including geology, botany, astronomy, zoology, ecology, and archeology. Consists of 15 hours of lecture plus an appropriate field trip. Participants should gain an interdisciplinary understanding of science and nature.

GEO 3080 **Earth Materials** **F**

4:3:3
• Prerequisite(s): GEO 1010, GEO 1015; CHEM 1210 (or other chemistry course) recommended.
Investigates geologically significant rocks and rock-forming minerals. Includes origins, occurrences, and associations of several rocks and minerals. Includes hand sample and microscopic methods of identifying rocks and minerals in the laboratory. Involves field trips, possibly including weekend trips.

GEO 3200 **Geologic Hazards** **Sp**

4:3:2
• 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** **F**

4:3:2
• 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** **F**

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** **Sp**

4:3:3
• 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 4200 (Cross-listed with: BIOL 4200, CHEM 4200) **Sp**

Teaching Methods in Science
3:3:0
• Prerequisite(s): Acceptance into Secondary Education program; senior-level standing
Examines objectives, instructional methods, and curriculum for teaching science in the secondary school. Includes developing, adapting, evaluating, and using strategies and materials for teaching biological and physical sciences. Explores special needs of the learners and characteristics specific to the science discipline.

GEO 425R **Geology for Teachers** **Su, F, Sp**

I to 5:I 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

FSR

FSW

GEO

Course Descriptions

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, paleoclimatology, and biostratigraphy. 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 (Cross-listed with: ENVT 482R)

Geologic/Environmental Internship

1 to 3:0:5 to 15

• Prerequisite(s): GEO 1010 or ENVT 1110, and 12 credit hours of any GEO, GEOG, or ENVT courses, and declared major in any Earth Science program

Engages students in supervised geologic or environmental work in a professional setting. Requires approval by the Chair of the Department of Earth Science. Includes maintaining a journal of student experiences and preparing a paper summarizing their experience. A maximum of 3 credit hours may be counted toward graduation.

GEO 495R

Independent Study

1 to 4:0:3 to 12

Su, F, Sp

• Prerequisite(s): GEO 1010 and GEO 1015

Requires an independent study program to be developed with one or more Earth Science faculty member and approved by a committee of Earth Science faculty. Includes some combination of literature review, field work, numerical analysis, and/or laboratory analysis. Involves the preparation of a written report. An oral presentation may also be required. May be repeated for up to four credits.

GEOG—GEOGRAPHY

GEOG 1300

SS

Survey of World Geography

3:3:0

Su, F, Sp; DE

For students who wish to have a better understanding of the world in which we live. Studies major countries of the world with special emphasis on location, physical environment, culture, resources, and current events.

GEOG 1400

SS

Introduction to Human Geography

3:3:0

Su, F, Sp

Examines the theoretical aspects of human activity across the Earth's surface. Discusses the analytical frameworks for understanding the interactions of social, cultural, economic and political systems. Topics include population dynamics, international development, human conflicts, and urbanization.

GEOG 2100

SS

Geography of the United States

3:3:0

Sp

Surveys primarily the regional geography of the United States and, secondarily, of Canada. Explores subregions of each country in detail. Includes topics such as culture, environment, economy, urbanization, transportation systems, territory and political borders.

GEOG 2200

Geography of Europe

3:3:0

On Sufficient Demand

Provides a regional survey of Europe including topics such as economic development, environment, politics, society and culture. Explores the place of Europe in geopolitical and global economic systems. Discusses internal relationships within the European Union, Eastern Europe and Russia.

GEOG 2500

Geography of Latin America and the Caribbean

3:3:0

On Sufficient Demand

Surveys the Americas south of the United States. Explores each subregion of Latin America and the Caribbean in detail. Includes topics such as development,

environment, indigenous peoples, history, and national political and financial crises.

GEOG 3010

Economic Geography

3:3:0

On Sufficient Demand

A course encompassing the study of humankind's economic activities on the earth, including hunting, gathering, agriculture, mining, manufacturing, forestry, fishing, high technology, and world trade. Studies population, environmental issues, urban patterns, and travel and tourism. Uses lectures, oral response, field trips, and audiovisual aids.

GEOG 3110

Urban Geography

3:3:0

On Sufficient Demand

• Prerequisite(s): GEOG 1300 preferred

Focuses on the origins, growth, structure and function of cities. Examines social and political dimensions of urban life and the emergence of new urban spaces around the world. Includes case studies in the decline of urban industrial America and the rise of Sunbelt and Edge Cities.

GEOG 3150

Social Geography

3:3:0

On Sufficient Demand

• Prerequisite(s): (ENGL 2010 or ENGL 2020) or permission of instructor

Takes a spatial approach to understanding society, premised upon the notion that geographic space and social relationships are inescapably linked. Examines networks and relationships between individuals and groups at a number of scales, from interpersonal to global. Explores topics such as discrimination, segregation, poverty and homelessness.

GEOG 3250

Cultural Geography

3:3:0

On Sufficient Demand

• Prerequisite(s): (ENGL 2010 or ENGL 2020) or permission of instructor

Explores the cultural landscape of the world's peoples. Describes the geographic complex of cultural forms including language, religion, music, art, architecture, folklore, food, clothing and land use. Topics include cultural conflicts, globalization, and the international entertainment industry.

GEOG 3430

Political Geography

3:3:0

Sp

Surveys the geographic dimensions of political action and theory at local, national and global scales. Covers topics such as geopolitics, nationalism, territoriality, and political conflicts. Examines subjects such as American electoral patterns, Cold War geographies, and 21st century global security.

Course Descriptions

GEOG 3630 (Cross-listed with: ENVT 3630)
Introduction to Geographic Information Systems
4:3:2 **F**
 • Prerequisite(s): GEOG 1300
 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 **LH**
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 1020 **LH**
Beginning German II
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 **LH**
German Conversation I
4:4:0 **On Sufficient Demand**
 A total immersion course taught in a classroom in a German speaking country. Students live in native, German-speaking homes or other total immersion environments. Practices creative language in conversation to develop proficiency in the German language at the novice

level. Includes intensive listening and speaking experience to improve aural-oral proficiency. Students will attend cultural and sporting events. Offered only with the Summer Study Abroad program. May be taken concurrently with GER 2700.

GER 2010 **LH**
Intermediate German I
5:5:1 **F, Sp**
 • Prerequisite(s): Students should have equivalent knowledge of GER 1020
 Reviews and builds upon the grammar, reading, writing and conversational skills learned in the first year courses. Introduces readings and discussions on the history, culture, and literature of the German speaking world, maintaining a focus on oral proficiency.

GER 2020 **HH**
Intermediate German II
3:3:0 **Sp**
 • Prerequisite(s): Students need equivalent knowledge of GER 2010
 Studies fourth-semester conversational German that is used in daily settings. Includes culture study, pronunciation, reading, and grammar. Emphasizes conversation in real life situations. 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 **LH**
Immersion German Civilization and Culture
4:4:0 **On Sufficient Demand**
 A total immersion course of classroom study and experience in a German speaking country. Students will live in native, German-speaking homes or other total immersion environments. Includes classroom study, supervised travel of cultural interest, and attendance at various cultural and sporting events. Includes written response, journals, and examinations. Offered only with the Summer Study Abroad program. May be taken concurrently with GER 1110.

GER 3050 **LH**
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 **LH**
Business German
3:3:0 **On Sufficient Demand**
 • Prerequisite(s): Students need equivalent knowledge of GER 3050
 For those who plan to pursue careers in international business or related fields, learn the business language for German, understand 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—HISTORY

HIST 1100** **SS**
History of Civilization I
3:3:0 **F, Sp**
 HIST 1100, in conjunction with HIST 1110, serves as an introduction to World Civilization. Covers the development of world civilizations from 3500 B.C.E. to 1500 C.E. Concentrates on philosophies and religions as historical forces in the development of civilizations. Includes discussions based in a strong social, economic and political background. Students will analyze primary materials, through writing and discussion, in order to understand the course of history and its relevance to us more clearly.

HIST 110H **SS**
History of Civilization I
3:3:0 **F**
 HIST 110H, in conjunction with HIST 111H, serves as an introduction to World Civilization. Covers the development of world civilizations from 3500 B.C. to A.D.

GEOG

GER

HIST

Course Descriptions

1500. Concentrates on philosophies and religions as historical forces in the development of civilizations. Includes discussions based in a strong social, economic, and political background. Students will analyze primary materials, through writing and discussion, in order to understand the course of history and its relevance to us more clearly.

HIST 1110** **SS**
History of Civilization II
3:3:0 **F, Sp**

HIST 1110, in conjunction with HIST 1100, serves as an introduction to World Civilization. Focuses mainly on the Renaissance to the present. Treats science and technologies as historical forces in the development of the modern world. Analyzes how scientific knowledge has transformed our perspectives on the natural world and revolutionized modern life through the development of powerful technologies. Uses written essays and participation in seminar-style discussions to help students actively explore fundamental issues in the history of science.

HIST 111H **SS**
History of Civilization II
3:3:0 **Sp**

HIST 111H, in conjunction with HIST 110H, serves as an introduction to World Civilization. Focuses mainly on the Renaissance to the present. Treats science and technologies as historical forces in the development of the modern world. Analyzes how scientific knowledge has transformed our perspectives on the natural world and revolutionized modern life through the development of powerful technologies. Uses written essays and participation in seminar-style discussions to help students actively explore fundamental issues in the history of science.

HIST 1700** **AS**
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 **AS**
American Civilization
3:3:0 **On Sufficient Demand**

Stresses movements and developing institutions that are important for an appreciation of American History from the Pre-Colombian period to the present. Discussions include analysis of developing

political, economic and social institutions and their interrelationships with and impact upon the geographical features of the land. The honors section extends the course's historical inquiry with additional written and reading requirements which will allow the student a fuller participation in historical debate and the process of "doing" history.

HIST 1740 **SS**
US Economic History
3:3:0 **F, Sp**

Studies economic development in America, with emphasis on resources, commerce, agriculture, capital, manufacturing, government, and labor organizations.

HIST 1800 (Cross-listed with: ANTH 1800) **SS**
Introduction to American Indian Studies
3:3:0 **F, Sp**

Provides an overview of modern and historical American Indian communities in the United States. Explores political and historical issues of major tribes and Indian communities by region. Provides students with information and perspectives on key social and cultural issues: spirituality, relations with the Federal government, notable individuals, art, literature, dance, media, health, education and activism.

HIST 2700** **AS**
US History to 1877
3:3:0 **F, Sp**

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 **AS**
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** **AS**
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 **AS**
US History since 1877
3:3:0 **On Sufficient Demand**

Examines the second half of the American experience, beginning with the collapse of Post-Civil War Reconstruction and concluding with contemporary American issues. Surveys social, political, cultural, and diplomatic developments during this period. The honors section extends the course's historical inquiry with in-depth discussions and additional written and reading requirements, all of which allow the student a fuller participation in historical debates and the process of "doing" history.

HIST 290H
Independent Study
1:1:0 **On Sufficient Demand**

• Prerequisite(s): Honors Director Approval
Provides independent study for Honors students unable to secure a desired class within regular semester curriculum offering. Involves designing and completing readings and other projects at the lower-division level in cooperation with the Honors director. Maximum of 3 credits may be applied toward Honors graduation.

HIST 290R
Independent Study
1 to 4:1 to 4:0 **On Sufficient Demand**

• Prerequisite(s): Dean and/or Department Chair approval
Provides independent study for students unable to secure a desired class within regular semester curriculum offering. With approval of dean and/or department chair, student and instructor design and complete readings and other projects at the lower-division level. Maximum of 6 credits may be applied toward graduation.

HIST 3010
The Nature of History
3:3:0 **Sp, F**

• 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, journals, museum exhibitions, and many types of preservation and conservation techniques. Teaches skills such as analyzing, interpreting, and communicating historical data. In addition, discusses the professional and ethical dimensions of public history.

HIST 3030

Introduction to African History

3:3:0 Sp

• Prerequisite(s): (ENGL 2010 or ENGL 2020) or consent of instructor

Surveys African history since the sixteenth century: traditional societies, the slave trade, European colonialism, the struggle for independence, underdevelopment, and the challenge of globalization.

HIST 3040

Colonial Latin America

3:3:0 F

Introduces the history of Latin America from the earliest New World inhabitants through the nineteenth-century Latin American wars for independence. Analyzes the social, political, economic, and cultural developments of Latin America. Explores the complex dynamics that shaped pre-Columbian and colonial societies which culminated in early nineteenth-century independence movements. Includes campus and community resources, multi-media, and guest lecturers.

HIST 3050

Modern Latin America

3:3:0 Sp

Introduces the history of Latin America from 1820 to the present. Focuses on the key issues and themes of the last 180 years including social revolution, dependency and foreign intervention, gender and race. Includes case studies from specific countries. Uses campus and community resources, multi-media, and guest lecturers.

HIST 3110

Greek History

3:3:0 F

• Prerequisite(s): ENGL 2010 or ENGL 2020 or permission of instructor

Explores historical and geographical context of Greece from 1600 B.C.E. to the Roman conquest in 30 B.C.E. spanning Minoan, Mycenaean, Hellenic, and Hellenistic ages. Examines the development of social/cultural, political, and economic institutions emphasizing their

influence on Western civilization and our own cultural context.

HIST 3130

Roman Republic

3:3:0 F

• Prerequisite(s): ENGL 2010 or ENGL 2020 or permission of instructor

Covers the development of Rome and Italy from prehistory through the end of the Republic in first century B.C. Surveys social, cultural, political, economic and military aspects of Republican Rome. Examines the influence of Rome on Western Civilization. Part of a two semester sequence on Roman history. Each semester may be taken independently.

HIST 3140

Roman Empire

3:3:0 Sp

• Prerequisite(s): ENGL 2010 or ENGL 2020 or permission of instructor

Covers Roman history from the first century B.C. to the fourth century A.D. Surveys social, cultural, political, economic and military aspects of the Roman Empire. Examines the influence of Imperial Rome on Western Civilization. Part of a two semester sequence on Roman history. Each semester may be taken independently.

HIST 3150

Medieval Europe

3:3:0 F

• Prerequisite(s): HIST 1100 or permission of instructor

Introduces the history of Europe from the collapse of Greco-Roman civilization to the fifteenth century. Covers the rise of Western Christendom, the challenge of Islam, the twelfth-century renaissance, the flowering of medieval art, education and literature, feudalism and rural economies, the commercial revolution, human and ecological calamities. Considers the medieval foundations of modern European culture, politics, and society.

HIST 3160

Renaissance and Reformation--Europe 1350 to 1600

3:3:0 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 Sp

• Prerequisite(s): (ENGL 2010 or ENGL 2020) or consent of instructor

Explores the major political, social and intellectual developments in European history from the Age of Absolutism to the French Revolution.

HIST 3180

Nineteenth Century Europe

3:3:0 F

• Prerequisite(s): (ENGL 2010 or ENGL 2020) or consent of instructor

Analyzes transformations in political, economic, and social ideologies of Europe in the 19th century. Studies primary documents on a variety of ideologies. Includes active class participation and discussion, and much writing in areas agreed upon between instructor and student.

HIST 3190

Twentieth Century Europe

3:3:0 Sp

• Prerequisite(s): (ENGL 2010 or ENGL 2020) or consent of instructor

Surveys major forces, events and experiences that have shaped Europe and defined its place in the contemporary world. Examines industrialization, nationalism, colonial empires, world wars, Cold War polarization, and European Union.

HIST 3200

Women in American History to 1870

3:3:0 Not 07-08

• Prerequisite(s): Junior standing or consent of instructor

Surveys women's experiences in American culture from the beginnings of European colonization to 1870. Emphasizes ways in which race, ethnicity, and class shaped females' experiences.

HIST 3210

Women in American History since 1870

3:3:0 Not 07-08

• Prerequisite(s): Junior standing, or consent of instructor.

Surveys 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

Course Descriptions

culture, and religion. Can be used for teacher education and recertification requirements.

HIST 3320

Modern Britain

3:3:0

Not 07-08

• Prerequisite(s): (ENGL 2010 or ENGL 2020) or consent of instructor

Surveys major themes in British history from the Glorious Revolution to the end of the 20th century.

HIST 3430

Middle East History--1914-Present

3:3:0

Not 07-08

Surveys the political and socioeconomic history of the Middle East since the First World War. Introduces and discusses various ethnic and religious groups in the region, colonial domination of the region, the rise of nationalist movements for independence, the development of modern states, and economic features of the Arab countries, Israel, Turkey, and Iran.

HIST 3450

The History of World War II

3:3:0

F

Deals with background and cases, course, conduct, and consequences of World War II in Europe and Asia, with special attention to strategy, tactics, diplomacy, and politics.

HIST 3460

US Military History

3:3:0

F, Sp

• Prerequisite(s): ENGL 2010 or ENGL 2020 or permission of instructor

Examines major themes in U.S. Military History from the colonial period to the present. Studies the evolution of weapon systems, strategies, battlefield and naval tactics, military supply, and communication. Includes lecture / discussion, media presentations, guest speakers, research papers and book reviews.

HIST 3520

The United States and Vietnam--1945 to Present

3:3:0

Not 07-08

Surveys American involvement in Vietnam from the close of World War II to the present. Explores cultural military, diplomatic, historiographical, and social influences of that war on this country. Examines the war's legacy on American politics, culture, and foreign relations. Includes lecture, class discussion, audiovisual materials, and guest speakers.

HIST 3530

History of Vietnam

3:3:0

Not 07-08

Provides a comprehensive look at the history of this important Southeast Asian nation. Covers early migrations that formed the Viet people. Includes Chinese domination, independence, French colonialism, the First and Second Indochina wars, and post-1975 developments.

Examines cultural, literary, ethnic, military, nationalist, political, and economic issues.

HIST 3540

History of South Africa

3:3:0

Not 07-08

Explores the history of South Africa from first peoples to the present, with special attention to twentieth-century developments. Topics include Khoisan and Bantu societies, Dutch settlement at the Cape of Good Hope, British colonization, the Zulu kingdom, the Great Trek, British-Boer conflict, the mining economy, Union, segregation and Apartheid, and the struggle for non-racial democracy. For history and integrated studies majors, and other students interested in world history.

HIST 3550 (Cross-listed with: ANTH 3550)

Memory and History

3:3:0

On Sufficient Demand

• 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 ethnohistory and how anthropologists and historians have dealt with these issues.

HIST 3610

The Modern History of East Asia

3:3:0

F

Analyzes the modern history of China, Japan and Korea, covering the last two centuries. Explores the traditional norms of the East Asian peoples up to the beginning of the nineteenth century. Demonstrates the impact of the modern West and its newly developed technology on East Asia. Presents the responses of those countries to external pressures.

HIST 3660

The History of Modern Russia--1864 to Present

3:3:0

Not 07-08

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

F

• 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

Sp

• 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

Su

• Prerequisite(s): (HIST 2700 and HIST 2710) or Instructor approval

Surveys United States' political, cultural, economic, and social movements from Progressivism through WWII. Examines various topics including the Progressive Reforms, WWI, 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 (Cross-listed with: GEOG 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 3810

American Indians to 1815

3:3:0

Not 07-08

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 3830

The Contest for Territory--American Indians and the US 1815-1891

3:3:0

Not 07-08

Emphasizes American Indian resistance to territorial, political, and cultural dispossession by the United States from the end of the War of 1812 to the aftermath of the Wounded Knee Massacre.

Course Descriptions

HIST 3850
The Struggle for Self-determination--American Indians 1891-present
3:3:0 F
 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 Not 07-08
 Explores, in a critical and historical framework, US Constitutional History to Plessy (1896). Examines the origins and general principles of Constitutional thought (Coke, Montesquieu, Sidney, etc.), and the Colonial, Confederate, and Constitutional periods of early US history (including the Marshall Court's advancement of the doctrine's of judicial review and national supremacy.) Concludes by examining the various Constitutional issues relating to slavery, secession, civil war, and laissez-faire governmental policies.

HIST 3880
Constitutional History since Plessy 1896
3:3:0 Not 07-08
 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 Sp
 • 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 Not 07-08
 • Prerequisite(s): ENGL 2010 or ENGL 2020
 Explores and analyzes the major genocides of the twentieth century: the Armenian Massacre, the Holocaust, the Killing Fields of Cambodia, the Balkan genocides, and the Rwandan genocide. Promotes a greater understanding of why and how genocides occurred in the twentieth century. Teaches and improves critical thinking, writing, and comprehension skills and develops additional skills in using comparative history, historiography, and primary and secondary sources.

HIST 420R
Issues and Topics in Global History
3:3:0 Su
 Surveys a specific topic in Global History. Topic varies each semester. A maximum of 6 credits may be applied toward graduation.

HIST 4250
Teaching History in the Secondary Curriculum
3:3:0 F
 • Prerequisite(s): Admission to Professional Education Program, and EDSC 4550 or consent of instructor.
 For students majoring in secondary education. Examines teaching methodology as related to teaching history and learning teaching strategies to prepare students for secondary education certification. Utilizes various group projects, classroom exercises, and an actual teaching project at the end of the semester. Evaluated by participation, teacher evaluation, written evaluation, exams, personal journal, and a final teaching project.

HIST 4300
Violence and Social Conflict in Latin America
3:3:0 Not 07-08
 • Prerequisite(s): Junior standing or consent of instructor
 Examines impact of violence and social conflict in Latin American society. Covers from Ancient Native American cultures to the present.

HIST 4320
History of Scientific Thought
3:3:0 F
 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 Not 07-08
 • Prerequisite(s): ENGL 2010 or ENGL 2020
 Surveys the development of modern technology with special reference to the Industrial Revolution of the nineteenth century and the Information Revolution of the twentieth. Weekly case studies focus on major innovations which have helped shape the modern world. Completing students should better appreciate the interaction technology change as a historical phenomenon.

HIST 435R
Issues and Topics in the History of Science
3:3:0 F, Sp
 • Prerequisite(s): (ENGL 2010 or ENGL 2020) or consent of instructor
 Surveys a specific topic in the History of Science. Topic varies each semester. May be repeated once for credit as long as course topic is substantially different than previous class.

HIST 4430
History of Iran--1900 to Present
3:3:0 Not 07-08
 Covers the Constitutional Revolution of 1905-1911, the rise of Reza Shah Pahlavi in 1921-1941, the democratic movement under the leadership of Dr. Mossadegh (1949-1953), the CIA coup in August 1953 and the restoration of autocratic rule (1953-1979), the Iranian Revolution of 1979, the rise and consolidation of fundamentalist rule under the leadership of Ayatollah Khomeini, and finally the resistance to fundamentalist rule.

HIST 4600
Contemporary American Indian Political and Social Issues
3:3:0 Not 07-08
 Surveys current research and perspectives on historical and contemporary American Indian issues. Utilizes a seminar approach in which each student will prepare summaries of books and articles to be distributed to the other class members. Includes identity, political activism, historiography, health, political and cultural issues.

HIST 4620
History of the American West
3:3:0 Sp
 • Prerequisite(s): Junior standing or consent of instructor
 Surveys American Western History from

HIST

Course Descriptions

early European colonization to the present. Emphasizes the diverse experiences of peoples in the West and the changing boundaries of the West.

HIST 471R

Special Issues and Topics in American History

3:3:0 On Sufficient Demand

• Prerequisite(s): Junior standing or consent of instructor

Surveys a specific topic in American History. Topic varies each semester. May be repeated once for credit as long as course topic is substantially different than previous class.

HIST 4740

American Revolution

3:3:0 Not 07-08

• Prerequisite(s): (HIST 2700 and HIST 2710) or Instructor approval

Examines origins, progress, and consequences of the American Revolution. Focuses on social effects of the War for Independence, creation of republican governments, the U.S. Constitution. Addresses the search for stability at home and security abroad, and the development of a national identity.

HIST 4750

Civil War/Reconstruction

3:3:0 Su

• Prerequisite(s): (HIST 2700 and HIST 2710) or Instructor approval.

Describes forces at work in the antebellum period that led to sectionalism and eventually to civil war. Examines military, political, social, economic, and racial issues before, during, and after the war. Analyzes the painful period of Reconstruction and its historiography.

HIST 482R

Public History Internship

2 to 9:1:4 to 32 On Sufficient Demand

• Prerequisite(s): HIST 3020

Provides opportunities for internship experience in public history organizations, including, but not limited to, museums, archives, manuscript collections, federal, state, local, and private historical sites, and governmental and non-governmental history organizations. May be repeated for a maximum of 9 credits toward graduation.

HIST 490R

Independent Study

1 to 4:1 to 4:0 On Sufficient Demand

• Prerequisite(s): Dean and/or Department Chair approval

Provides independent study for students unable to secure a desired class within regular semester curriculum offering. With approval of dean and/or department chair, student and instructor design and complete readings and other projects at the upper-division level. A maximum of six credits may be applied toward graduation.

HIST 4990

Senior Research Thesis-Writing Component

3:3:0 F, Sp

• Prerequisite(s): HIST 3010; and Senior Standing in History

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 Su, F, Sp; DE

Examines the basic health "wellness" concept of good health through healthy living. Develops a greater appreciation for bodies and understanding of requirements to maintain or achieve good physical, mental, emotional, social, and spiritual health. Includes lecture, discussion groups, guest lecturers, media, and role-playing.

HLTH 1200

First Aid

2:2:0 Su, F, Sp

For allied health professions such as nursing, community health, gerontology, radiology, physical therapy, sports medicine, and for other students and community members. Provides emergency first aid care training. Structured to meet National Safety Council First Aid requirements. Successful completers will be certified in First Aid and CPR. Includes lectures, lab with hands-on experience with mannequins, audiovisuals, discussions, and field trips.

HLTH 1300

Medical Terminology I

2:2:0 Su, 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 Sp

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 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 Sp

• Prerequisite(s): HLTH 1300

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 2600

Drugs Behavior and Society

3:3:0 Su, F, Sp

For students interested in drug abuse prevention. Studies substance misuse and abuse. Discusses addictive behaviors, dependence, and treatment modalities. Examines common substances of abuse and dependence and effects upon individuals and society. Investigates the use of psychotherapeutic drugs in the treatment of mental illness. Promotes awareness of personal and social decisions concerning drugs, behaviors, and habits.

HLTH 2800 (Cross-listed with: PSY 2800)

Human Sexuality

3:3:0 Su, F, Sp

Interdisciplinary course in human sexuality, exploring topics in biology, health, psychology, and sociology. Introduces basic concepts of human sexuality,

including anatomy, reproduction, and sexual response across the life-cycle. Studies gender roles, sexual orientation, dysfunction, and sexually transmitted disease. Examines sexual behavior from the perspective of ethics, religion, the law, and education. Students assess their sexual attitudes and should be able to make responsible sexuality decisions.

HLTH 281R

Cooperative Work Experience

2 to 9:1:5 to 40

F, Sp

- 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 3000

SS

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

Su, 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)

SS

Culture Ecology and Health

3:3:0

F

- Prerequisite(s): ENGL 1010 and (ANTH 1010 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, 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

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

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[†]

2:2:0

F

- 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

BB

Human Diseases

3:3:0

Su, F, Sp

- Prerequisite(s): ZOOL 1090 or Instructor Permission and MICR 2060 Recommended

For students interested in a Community Health option within the Integrated Studies Degree. Also for students interested or working in health care fields such as nursing, dental hygiene, etc. Introduces the study of human disease including general principles of disease and major diseases of body systems and organs. Applies genetic, behavioral and environmental issues to the study of human diseases.

HLTH 3800

Epidemiology

3:3:0

F

- 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

- 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

Course Descriptions

HLTH 4100
Health Education Curriculum for Secondary Teachers
3:3:0 **Su, F, Sp**
 • Prerequisite(s): Sophomore Standing or Instructor Approval
 For secondary education majors. Emphasizes the role of the teacher as a health educator and team member in providing a healthy school environment. Examines comprehensive school health education and studies the basic Utah health core curriculum for secondary education. Develops learning activities applicable to the health needs of secondary education students.

HLTH 4150
Community Health Program Development and Evaluation[†]
3:3:0 **Sp**
 • Prerequisite(s): HLTH 3200 or instructor permission, HLTH 4050 recommended
 For students interested in a community health career. Covers the methodology necessary to successfully plan, develop, and deliver effective health education programs. Focuses on the skills necessary to carry out program development assessing need, planning, implementing, evaluating, and revising in community health settings.

HLTH 4200
Health Education Teaching Methods
3:3:0 **Sp**
 • Prerequisite(s): HLTH 4100
 For secondary education school health majors. Examines teaching methods, materials and techniques. Studies secondary education health curriculum, program planning, development, implementation, and evaluation. Students will develop lesson plans and present them in secondary education settings.

HLTH 4250
Health Services Organization and Policy
3:3:0 **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 **F**
 • 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 4500
Public Health Administration
3:3:0 **Su, F, 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 **Sp**
 • Prerequisite(s): Statistics required or instructor permission
 For students interested in a Community Health option within the Integrated Studies Degree. Also for students interested or working in health care fields such as nursing, dental hygiene, etc. Introduces research techniques, methodology, and designs. Examines the planning, organizing, and conducting of research studies for solving problems unique to community health. Includes literature review and research article critiques.

HLTH 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 490R
Special Topics in Community Health
1 to 3:1 to 3:0 **On Sufficient Demand**
 • Prerequisite(s): HLTH 3200 or Instructor Permission
 Explores and examines special topics related to community health issues and problems. May include community health topics such as AIDS/HIV, West Nile Virus, special drug and sexuality issues, obesity, suicide, teenage pregnancy and terrorism. May be repeated for a maximum of six credits toward graduation.

HM—HOSPITALITY MANAGEMENT

HM 1010
Introduction to Hospitality Industry
3:3:0 **F, Sp; 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. Explains the techniques and procedures of quality and quantity food production. Studies the selection and preparation of major food products. Provides an extensive set of basic and complex recipes for practice. Includes lectures, lab, visits of guest chefs, and field trips. Completers should be prepared to enter the working field as a prep cook.

HM 1130
Hotel Operations I
3:3:0 **F, Sp**

Designed for hospitality management majors and as elective credit for other business majors. Presents a systematic approach to front office procedures by detailing the flow of business through a hotel beginning with the reservation process and ending with check-out settlement. Examines various elements of effective front office management, paying particular attention to planning and evaluating front office operation and to personnel management. Front office procedures and management are placed within the context of the overall operation of a hotel. Includes role play and computer simulations. Completers should be competent to be a beginning front desk clerk.

HM 1180
Food and Beverage Management
3:3:0 **F, Sp**

Designed for hospitality management majors and as elective credit for other business majors. Studies management principles of menu planning, purchasing, storage, food and beverage production, service, and sanitation. Includes lecture, case studies, guest speakers, field trip and project. Completers should understand the basic structure of a hospitality unit and how management principles relate to a restaurant.

HM 281R
Cooperative Work Experience
2 to 9:1:5 to 40 **Su, F, Sp**

• Prerequisite(s): Approval of School of Business Career and Corporate Manager
 Provides opportunities to apply classroom theory on the job. Students work as paid employees in a job that relates to their careers while enrolled at the College. Credit is determined by the number of hours a student works during the semester. Completers meet individually set goals. A total of six credits may be applied toward graduation with a diploma or AAS degree and three credits toward Certificate programs.

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
 Designed for hospitality management majors and as elective credit for other business majors. Covers the principles and procedures involved in an effective food and beverage control system, including standards determination, the operating budget, income and cost control, menu pricing, and computer applications. Methods include lecture and computer simulation. Completers should have a basic understanding of control functions within a hospitality unit and be familiar with computer control systems.

HM 3050
Country Club Management
3:3:0 **On Sufficient Demand**

Provides a basic understanding of country club management with golf operations. Analyzes management's functions and responsibilities in such areas as administration, organization, communications, accounting, marketing, and human relations. Examines industry opportunities and future trends. Includes lectures, field trips, guest speakers, films, and tapes. Completers should have knowledge of career opportunities and basic hospitality management principles.

HM 3150
Hospitality Finance
3:3:0 **Sp**

• Prerequisite(s): HM 3020
 Presents the general conceptual framework for understanding and applying techniques of value creation for a hospitality firm. Includes risk and value, timing and value of cash flows, valuation and required rates of return, capital expenditure analysis, project valuation criteria, capital structure management, and financial markets. Introduces financial topics and practices application techniques. Includes lecture, demonstration, case studies, and guest speakers.

HM 3200 (Cross-listed with: MGMT 3200)
Global Tourism
3:3:0 **F**

• Prerequisite(s): MGMT 2200 or ENGL 2010 or ENGL 2020
 Studies the history and future of tourism, the impacts (environment, culture, economy) of tourism, and tourist behavior. Includes lectures, case studies, field trips, and guest speakers. Completers should

be sophisticated travelers and understand the nature of the world's largest industry and its impacts on society and national economies.

HM 3210 (Cross-listed with: MGMT 3210)
Convention and Events Management
3:3:0 **F**

• Prerequisite(s): ENGL 2010 or ENGL 2020
 Analyzes the meeting, convention, and events industry. Covers the various disciplines of planning including site selection, organizing, budgeting, catering, entertainment, and promotion. Introduces career opportunities through guest speakers who are industry professionals.

HM 3390
Hotel Operations II
3:3:0 **F**

• Prerequisite(s): HM 1130
 Overviews fundamentals of housekeeping management. Describes the management functions, tools, and practices required in today's lodging and institutional housekeeping departments. Provides students with information they need to successfully manage a physical plant and work effectively with engineering and maintenance. Includes lecture, role play, site visits, film, and tapes. Completers should have a basic understanding of housekeeping and facility management.

HM 3640
Food and Beverage Controls
3:3:0 **F, Sp**

• Prerequisite(s): ACC 2010
 Designed for hospitality management majors and as elective credit for other business majors. Covers the principles and procedures involved in an effective food and beverage control system, including standards determination, the operating budget, income and cost control, menu pricing, and computer applications. Includes lecture and computer simulation. Completers should have a basic understanding of control functions within a hospitality unit and be familiar with computer control systems.

HM 3710
Marketing of Hospitality Services
3:3:0 **Sp**

• Prerequisite(s): MGMT 2200
 For hospitality management majors and as elective credit for other business majors. Provides basic knowledge and practical experience which will enable students to develop strategic marketing plans for hotel/motel properties. Focuses on practical sales techniques, proven approaches to selling to targeted markets, and advertising's role in sales. Includes lecture, role play, case studies, simulations and projects. Completers should be able to develop a marketing study of hospitality unit and understand marketing and sales techniques.

HM

Course Descriptions

HM 4550

Hospitality Industry Management

3:3:0

Sp

• Prerequisite(s): HM 3710 and Matriculation into Business Management Bachelor's Degree Program or Hospitality Management Bachelor's Degree Program

Examines delivery of the organization's product or service. Includes investigative and production planning, scheduling of operations, allocation of resources, manpower and equipment decisions, inventory control, production planning, and quality.

HM 4750

Etiquette for Golf and Business

1:1:1

On Sufficient Demand

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.

HM 481R

Cooperative Work Experience

2 to 8:0:10 to 40

Su, F, Sp

• Prerequisite(s): Approval of 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 College. Credit is determined by the number of hours a student works during the semester. Completers meet individually set goals. Three credits may be applied toward a Bachelor of Science degree in Business Management; six credits may be applied to the Hospitality Management degree. Course will be graded credit or no-credit.

HM 482R

Internship

2 to 8:0:10 to 40

Su, F, Sp

• Prerequisite(s): Approval of School of Business Career and Corporate Manager

For students working towards a Bachelor of Science Degree in Hospitality Management and the Business Management degree with the Hospitality emphasis. Provides a transition from school to work where learned theory is applied to actual practice through a meaningful on-the-job, non-paid experience commensurate with upper-division classroom instruction. Six hours of Internship work experience will be required toward graduation in the Hospitality Management emphasis.

HM 496R

Hospitality Management Seminar

1 to 3:1 to 3:0

On Sufficient Demand

• Prerequisite(s): Instructor/Department Chair Approval

Provides short courses, workshops, and special programs in hospitality

management. Repeatable for up to three credits.

HM 497R

Independent Study

1 to 3:1 to 3:0

On Sufficient Demand

• Prerequisite(s): Department Chair Approval

For bachelor's degree students and other interested persons. Offers independent study as directed in reading, in individual projects, etc., in the area of hospitality management at the discretion and approval of the department chair.

HONR—HONORS

HONR 100A

Fall Honors Colloquium

0.5 to 3:0.5 to 3:1

F

• Prerequisite(s): Current enrollment in Honors program

For Honors students. Includes cohort-building events and projects that introduce students to honors education and increase their commitment to Honors, UVSC, and their communities. Activities may include guest speakers, community and campus service and leadership projects, field trips, films, and discussions.

HONR 100B

Spring Honors Colloquium

0.5 to 3:0.5 to 3:1

Sp

• Prerequisite(s): Current enrollment in Honors program

For Honors students. Includes cohort-building events and projects that introduce students to honors education and increase their commitment to Honors, UVSC, and their communities. Activities may include guest speakers, community and campus service and leadership projects, field trips, films, and discussions.

HONR 2000

Ancient Legacies

3:3:0

Su, F, Sp

• Prerequisite(s): current enrollment in Utah Valley State College Honors program or permission of the instructor

Provides honors students with the opportunity to study an extensive period of human history from an interdisciplinary perspective. Examines Ancient, Medieval, and early Renaissance thought and culture through selected works written between 1000 B.C.E. and 1500 C.E. Focus of the class determined by instructor but must include at least one text composed during each of the three periods, and at least one non-Western text. Draws from disciplines including, but not limited to, literature, science, history, philosophy, and religion. Emphasizes close study of primary texts. 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 honors students with the opportunity to study an extensive period of human history from an interdisciplinary perspective. Examines Modern and Contemporary thought and culture through selected works written between 1500 C.E. and the present. Focus of the class determined by instructor, but will include at least one text that adds diversity (for instance, in ethnicity, class, or gender) to the cultural texts of the course. Draws from disciplines including but not limited to literature, science, history, philosophy, and religion. Emphasizes close study of primary texts. Develops strong critical thinking, writing and rhetorical skills.

HONR 300R

Honors Interdisciplinary Seminar

1 to 4:1 to 4:0 to 3

Su, F, Sp

• Prerequisite(s): ENGL 101H and current enrollment in UVSC 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, technology and computing, education, fine and performing arts, physical and biological sciences, health science, humanities, and social sciences. May be repeated for a maximum of 9 credits toward graduation; however, only 3 credits may be applied to honors program requirements.

HUM—HUMANITIES

HUM 1010**

HH

Humanities 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

HH

Humanities Through the Arts

3:3:0

F, Sp

Studies the mediums, elements, organization of the various art forms:

Course Descriptions

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 HH
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 HH
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 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
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
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 GH
Independent Study
1 to 3:0 to 3:0 to 12 Su, F, Sp

Provides independent study as directed in reading and individual projects. Request must be submitted for approval by the department. Students may do independent study for one, two or three credits with a limit of three credits applying toward graduation with an AA/AS degree.

HUM 295R GH
Directed Readings
1 to 3:0 to 3:0 to 12 F, Sp

Provides an opportunity for second year students to do in-depth research within the Humanities. Study is limited to advanced work beyond that which can be completed in existing, available classes. A proposal must be submitted and approved by the department prior to enrollment.

HUM 320R
Topics in Humanities
1 to 3:1 to 3:0 F, Sp

• Prerequisite(s): ENGL 1010
 Studies themes, genre, forms, and movements in humanities. Explores individual persons, subjects or genres with relevance to the Humanities. May include: The Beat Generation, Film, Jazz, The Trojan War, John Cage, Depictions of Death. Topics vary. Repeatable up to 6 hours toward graduation.

HUM 3800 (Cross-listed with: PHIL 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 IB
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.

HONR
 HUM
 HVAC

Course Descriptions

HVAC 1200

HVAC 1A

5:5:0

For heating, ventilation, and air conditioning apprentices. Teaches gas properties, gas piping, combustion air and principles of heating. Covers safety and codes, venting, sheet metal tools and safety, basic metals and fittings.

F

HVAC 1220

HVAC 2A

5:5:0

• Prerequisite(s): Departmental written approval
For heating, ventilation, and air conditioning apprentices. Teaches concepts of heat, heat loss, heat load calculation, cooling load calculation, ducted warm air systems and room air distribution. Covers duct sizing and layout, air conditioners, electrical safety and fundamentals of magnetism. Teaches power supplies, direct current, resistors and resistance, inductors and inductance.

F

HVAC 2200

HVAC 3A

5:5:0

• Prerequisite(s): Departmental written approval
For heating, ventilation, and air conditioning apprentices. Teaches electrical safety, fundamental concepts of magnetism, power supplies, fundamentals of direct current. Covers resistors and resistance, inductors and inductance, capacitors and capacitance. Teaches transformers, voltage=EMF=potential difference, relays, circuit protection devices and supply regulation and filtration.

F

HVAC 2220

HVAC 4A

5:5:0

• Prerequisite(s): Departmental written approval
For heating, ventilation, and air conditioning apprentices. Teaches principles of heat flow, air filtration, humidification, moisture, psychometrics. Covers air conditioning systems, duct heaters and furnaces, modulating control, valves, dampers and troubleshooting.

F

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

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. Also provides hands-on experience with a variety of desktop, multimedia, and Internet tools.

INFO 1120

Information Systems and Technology Fundamentals

3:3:0

F, Sp

• Prerequisite(s): (INFO 1100 with a grade of C- or better) or (Computer Literacy Exam with a score of 70% or higher)

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

• Prerequisite(s): Computer Literacy or INFO 1100

For Information Systems and Technology students. Provides opportunities for students with basic computer literacy to enhance their personal productivity and problem-solving skills. Teaches students to apply information technologies to problem situations and to design and use small information systems for individuals and groups.

INFO 2200

Computer Programming II for IS/IT

3:3:0

F, Sp

• Prerequisite(s): INFO 1200, 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

Su, F, 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

On Sufficient Demand

• Prerequisite(s): INFO 2030 or CS 2600

Introduces configuration and management of Cisco routers. Includes networking basics, Ethernet switching, router hardware basics, IP routing theory, router commands, VLANs, access lists, security and WAN link configuration.

INFO 2650

Voice and Data Cabling Fundamentals

3:3:0

F, DE

• 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

Su, 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

I to 8:0:5 to 40

Su, F, Sp

• Prerequisite(s): Department Approval

Provides opportunities to apply classroom theory on the job. Requires work as paid employees in a job that relates to their careers while enrolled at the College. Students meet at least monthly with the Departmental Internship Coordinator. Completers meet individually set goals. Six credits may be applied toward graduation with an AAS degree and three credits toward certificate programs.

INFO 297R

Independent Study

I 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

I:1:0

On Sufficient Demand

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

Su, 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 2010)

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 3400)

Project Management

3:3:0

• 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, INFO 2050, INFO 2200

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

• 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

INFO

Course Descriptions

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

Su, F, Sp

• Prerequisite(s): INFO 3410

Presents concepts and methods of defining, creating, and managing database systems using Oracle database technology. Includes information and transaction processing, security and integrity issues, and performance analysis. Incorporates design and implementation of complex databases supporting data driven applications. Also includes the study of distributed databases and the application of data warehousing/data mining tools in performing data analysis for decision making. Includes coverage of PL/SQL, Oracle Forms and Oracle Reports.

INFO 3510

Advanced System Administration--Linux/UNIX

3:3:0

F, Sp

• Prerequisite(s): INFO 2030 or (INFO 1510 and CS 2600)

Explores enterprise systems administration using the UNIX/Linux operating system. Students learn advanced administrative tasks including server installation, network configuration and user management, file management, network services deployment, server security, back up and recovery, Shell scripting, source compilation, performance monitoring and tuning, troubleshooting, and managing hardware and component changes. Requires a community project and portfolio based on advanced server management skills.

INFO 3620

System Administration--Windows

3:3:0

• 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

Su, F, 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 4030

Enterprise Network Architectures and Administration

3:3:0

Su, F, Sp

• Prerequisite(s): INFO 3030 and (INFO 3510 or INFO 3630)

Addresses the problems associated with providing a secure, stable, reliable enterprise network infrastructure. Covers principles of IT enterprise infrastructure management, including platform choices, functionality, cost, security, deployment, controls, flexibility, and adaptability. Topics include Directory Services, QoS, Security, Network Management, Voice over IP (VOIP) and IP Telephony, Content and Storage Networking, Wireless Networking, and fine-tuning of Routing Protocols, Switching Structures, and IP Multicast.

INFO 4050 (Cross-listed with: TECH 4050)

Global Ethical and Professional Issues in Technology

3:3:0

F, Sp

• Prerequisite(s): TECH 3000 or INFO 3430 or CS 2420 or DGM 3220

Examines professional and ethical issues that arise within technological organizations with a global perspective. Studies the impact of conflicting loyalties, as well as the roles of multi-culturalism and globalization. Includes review of current ethical theories and existing Professional Codes of Conduct. Include lecture, readings, case studies, and other media.

INFO 4410

Database Administration

3:3:0

• Prerequisite(s): INFO 3440

Presents the concepts and methods used to manage and maintain relational databases. Covers topics such as the effects on performance of application and database design, performance monitoring and management, approaches to tuning, storage management, backup and recovery and disaster planning. Discusses methods to accomplish administrative and maintenance tasks for organizations requiring uninterrupted operation. Utilizes a vendor neutral perspective; however, hands-on assignments provide students with opportunities to apply the knowledge gained in the course to one or more popular commercial database management systems.

INFO 4420

Web Systems Development II

3:3:0

Sp

• Prerequisite(s): INFO 3420

Utilizes advanced enabling technologies for the design and development of enterprise-wide, Internet-based systems. Topics include Web Services, XML, and Service-Oriented Architectures (SOA).

INFO 4440

Software Acquisition Implementation and Integration

3:3:0

Su, F, Sp

• Prerequisite(s): (INFO 3430 or MGMT 3450) and [(ACC 2010 and ACC 2020) or ACC 3000]

Builds on the concepts presented in Systems Analysis Design and Integration and/or Operations Management. Evaluates the build vs. buy decision. Focuses on package acquisition through vendor identification, writing a request for proposal (RFP), evaluating proposals, and package evaluation and benchmarking. Studies the package implementation process including configuration and customization. Covers various integration approaches including Enterprise Resource Planning (ERP) systems and the use of enterprise application integration (EAI) methods and tools.

Course Descriptions

INFO 4460

Enterprise Database Architecture

3:3:0 **Su, F, Sp**

• Prerequisite(s): INFO 3440, INFO 3510 or INFO 3630

Examines the benefits and challenges of installing and administering large, distributed, heterogeneous database systems supporting enterprise level applications such as data warehousing, data mining, SCM, CRM and ERP. Considers these applications from a theoretical perspective, an administrative and managerial perspective and from a practical, user-oriented perspective. Studies the infrastructure requirements to support such applications. Features installation and running of at least one enterprise level application during the class to give students direct experience with these systems. Requires preparation of a research paper on some aspect of large scale database applications and presenting the findings from their research to the class.

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 4660

Computer Forensics

3:3:0 **Su, F, Sp**

• Prerequisite(s): (INFO 2660 or INFO 3660) and (INFO 3510 or INFO 3630). 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 481R

Internship

I 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 Departmental Internship Coordinator. Credit is determined by the number of hours a student works during the semester and completion of individually set goals. A maximum of three credits may be applied toward graduation without prior written IS and T Department approval. Graded credit or no-credit.

INFO 497R

Independent Study

I 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.

INST—INTERDISCIPLINARY STUDIES

INST 4900

Interdisciplinary Studies Capstone

3:3:0 **F**

• Prerequisite(s): Senior status

For students nearing completion of an Interdisciplinary Studies minor. Provides an opportunity for students to synthesize their interdisciplinary 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.

IS—INTEGRATED STUDIES

IS 3000

Introductory Topics in Integrated Studies

3:3:0 **Su, F, Sp**

• Prerequisite(s): PHIL 2050

A first course in interdisciplinary approaches and research methods. Introduces a variety of topics crossing disciplines in science, religion, philosophy, history, literature, business, technology and the arts. Topics vary from semester to semester, but course remains modular in structure. Research and writing intensive. Requires final research paper. Involves writing across the curriculum.

IS 3500

Topics in Integrated Studies

3:3:0 **Su, F, Sp**

• Prerequisite(s): IS 3000

Advanced course in interdisciplinary approaches and research methods. Each term, the course examines a particular interdisciplinary topic. Topics vary from semester to semester. Professors, either singly or as team-teachers, present topics that cross one or more fields of academic specialty from the arts and sciences, leading classes through lecture, reading, discussion and research. Research and writing intensive. Requires final research paper. Involves writing across curriculum.

IS 495R

Interdisciplinary Lecture Series

0.5:0.5:0 **F, Sp**

Explores connections between various academic disciplines. Provides a broadly based look at a range of disciplines. May be repeated once for a total of one hour of credit.

IS 4980

Integrated Studies Capstone I

3:3:0 **Su, F, Sp**

• Prerequisite(s): IS 3000, ENGL 3030

First semester in the two-semester capstone sequence. Focuses on a major research paper integrating the student's two emphases. Addresses theoretical and practical problems associated with research and writing that combine disciplines. Includes work with a committee throughout the semester.

IS 499R

Integrated Studies Capstone II

3:3:0 **Su, F, Sp**

• Prerequisite(s): IS 3500 and IS 4980

For students completing the baccalaureate IS experience. Focuses on a major research paper integrating the student's two emphases. Addresses theoretical and practical problems associated with research and writing that combine disciplines. Includes work with a committee throughout the semester, which must approve the written thesis. Requires the student to orally present the thesis in a formal defense. May be repeated for 6 credits toward graduation.

JPNS—JAPANESE

JPNS 1010

Beginning Japanese I

5:5:1 **F**

Covers basic pronunciation and grammar, simple conversation and Hiragana and Katakana reading and writing.

JPNS 1020

Beginning Japanese II

5:5:1 **Sp**

• Prerequisite(s): Students need equivalent knowledge of JPNS 1010

Studies second-semester conversation.

INST

IS

JPNS

Course Descriptions

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 **LH F**

• 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** 3:3:1 **HH Sp**

• Prerequisite(s): Students need equivalent knowledge of JPNS 2010

Gives perspective on Japanese literature. Students expand reading and writing skills in the area. Emphasizes Kanji.

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 **On Sufficient Demand**

• 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 **Su, F, 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 Tests sponsored by the Japan External Trade Organization (JETRO). Explores how students can effectively and respectfully pursue business activities with Japanese companies within the framework of Japanese culture. Taught predominantly in Japanese.

JPNS 3520 **Society and Business in Japan** 3:3:0 **Su, F, Sp**

• Prerequisite(s): JPNS 3050

Builds upon the knowledge acquired in JPNS 3200, explores a multitude of aspects that contribute to Japanese national identity, focuses on Japan's complex vertical society, considers the intricacies of Japanese expressions and meanings relative to business and social applications, and studies the Japanese values and priority system. Also references Japan's national and global economic involvement and ways students can interface with it.

LANG—LANGUAGES

LANG 1000 **English Literacy for Deaf Students** 5:5:0 **LH 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 **Su, F, Sp**

• 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 3:0 to 12 **Su, F, Sp**

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 **LH On Sufficient Demand**

• Prerequisite(s): ENGL 1010 and (ANTH 1010 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.

LANG 4200 **Methods of Teaching a Foreign Language** 3:3:0 **Su, F, Sp**

• Prerequisite(s): Matriculation into any secondary education bachelor degree program or departmental approval

For those who plan to certify to teach a foreign language. Addresses learning approaches, methods, evaluation procedures, text analysis, and other techniques for teaching and evaluating language learning. Includes discussion about professional organizations and other resources in the field. Taught entirely in English.

LANG 481R **Language Internship** 1 to 8:0:5 to 40

• Prerequisite(s): Departmental Approval

Provides students real-world, closely-supervised work experiences in positions directly related to their language studies. Includes a theoretical component such as, but not limited to, papers, projects, completion of reading assignments, tests, journaling, field studies, etc. Students desiring to do language internships must get department approval and must meet with a faculty sponsor to determine individual credit hours and requirements. May be repeated for a maximum of 9 credits toward graduation.

LEGL—LEGAL STUDIES

LEGL 1000 **Law and the Paralegal** 3:3:0 **F, Sp**

• Corequisite(s): DGM 2010

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

Course Descriptions

the Utah State Courts, civil procedural and evidentiary rules, and stages of civil litigation. Emphasizes the paralegal's role in investigation, preparation, and resolution of lawsuits.

LEGL 1220

Legal Research 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

I to 8:0:5 to 40

Su, F, Sp

- Prerequisite(s): Approval from School of Business Career and Corporate Manager

Designed for paralegal majors to provide on-the-job work experience on a paid basis that will utilize the student's skills and abilities in the fields of law, law office, or other approved law related situations. Requires a portfolio of acquired work experience and enhanced skills. Includes student, employer, and coordinator evaluations; on site coordinator visits; written assignments; and oral presentations. Provides experience in formulating and completing individualized work experience objectives.

LEGL 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 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

Course Descriptions

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

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 knowledgeably on a basic level in the processes of mediation and negotiation. Improves conceptual knowledge of both processes and improves practical skills and effectiveness as a mediator and negotiator. Uses an interactive-workshop format that blends theory with simulated class role-play.

LEGL 3530 (Cross-listed with: MGMT 3530)

Employment and Labor Law

3:3:0

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 3800)

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 3890

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

Course Descriptions

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

Probates 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 4160

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 481R

Internship

I to 8:0:5 to 40

F, Sp, Su

• Prerequisite(s): Approval from School of Business Career and Corporate Manager

Provides actual, on-the-job work experience in a non-paying (volunteer)

basis in a law office or other approved law-related situation. Emphasizes successful work experience, especially identifying and solving problems. Completers should be qualified to work in the Paralegal profession. May be repeated for a maximum of 8 credits.

LINE—LINEMAN TECHNOLOGY

LINE 1000

Survey of Lineman Technology

2:2:0

Not 07-08

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 Kirchhoff's Law. Uses Ohm's Law with electrical resistance, amperage, and voltage. Emphasis will be placed on classroom lectures. Stresses proper sizes of conductors and understanding basic wire properties.

LINE 1140

Basic Skill Development and Safety

4:0:12

F

For students in Lineman Technology as well as apprentice linemen working in the trade. Covers basic instruction in care and proper use of climbing equipment. Introduces the use of equipment used in line construction, and safe working procedures. Includes demonstrations and hands-on lab projects.

LINE 1210

AC Theory and Transformer Applications

4:1:9

Sp

• Prerequisite(s): LINE 1110 or departmental approval

For Lineman Technology majors as well as apprentice linemen or journeymen wanting to update their skills. Covers basic construction and theory of inductance, capacitors, and resistance in dealing with AC circuits used in the electrical field. Emphasizes hands-on lab experience. Studies theory of transformers and transformer connection in single transformers and in three-phase bank of transformers.

Course Descriptions

LINE 1220

Commercial Wiring

2:2:0

Sp

- Prerequisite(s): LINE 1120 or departmental approval

For Lineman Technology majors and apprentice lineman currently working in the trade. Studies commercial building plans, specifications, and the applicable codes (national, state, and local) that apply. Addresses correct wiring procedures and identification of materials needed.

LINE 1230

Lineman Applied AC Math

3:3:0

Sp

- Prerequisite(s): LINE 1130 or departmental approval

For Lineman Technology majors and apprentice linemen presently working in the trade. Course covers alternating current circuitry, components, devices, and how they relate to the electrical industry. Studies basic alternating current, single and three-phase circuits and their components, and the right angle trigonometry used to solve related problems.

LINE 1240

Single/Three-Phase Lines and Safety

4:0:12

Sp

- Prerequisite(s): LINE 1140 or departmental approval

For Lineman Technology majors, as well as apprentice linemen working in the trade, and journeyman lineman wanting to update their skills. Covers the construction of three-phase distribution and transmission lines, connection of single-phase transformer; three-phase transformer banks; installation of cutout 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, chipper and stump grinder safety, operations and maintenance. Includes ISA certification,

flagging and traffic control certification and CDL training.

LINE 1500

Lineman Substation Apprentice 1A

6:6:0

On Sufficient Demand

- Prerequisite(s): Departmental written approval
- Teaches basic electricity, electrical safety, tool use, Ohm's law, and series circuits. Covers parallel, combination, and DC fundamentals.

LINE 1510

Lineman Substation Apprentice 1B

6:6:0

On Sufficient Demand

- Prerequisite(s): Departmental written approval
- Teaches reading electrical symbol diagram 1, substations and switchyards, transmission and distribution, safety in transmission and distribution maintenance. Covers trigonometry for AC electricity, induction and transformers. Introduces T and D systems, and AC electricity fundamentals.

LINE 1520

Lineman Substation Apprentice 2A

6:6:0

On Sufficient Demand

- Prerequisite(s): Departmental written approval
- Teaches safety in substations and switchyards, electromagnetic induction, high voltage AC power 1 and 2, transformers 1, and reading electrical system diagram 2. Covers use of electrical test equipment and line test equipment, care and testing of tools and equipment, bucket truck 1, and system protection and monitoring.

LINE 1530

Lineman Substation Apprentice 2B

6:6:0

On Sufficient Demand

- Prerequisite(s): Departmental written approval
- Teaches distribution line safety, material handling bucket truck, power transformer insulation resistor testing, power transformer turns ration testing, power transformer oil test and power transformer pressure relay testing. Covers new power transformer inspection and tests, power transformer vacuum dry out and vacuum filling, temperature indicating and testing, and oil reconditioning.

LINE 1600

Meter Apprentice 1A

6:6:0

On Sufficient Demand

- Prerequisite(s): Departmental written approval
- For meter apprentices. Teaches basic electrical principles, principles of magnetism AC concepts. Covers atomic structure, electrical qualities, Ohm's law, resistors, and parallel circuits. Teaches trigonometry and alternating current.

LINE 1610

Meter Apprentice 1B

6:6:0

On Sufficient Demand

- Prerequisite(s): Departmental written approval
- For meter apprentices. Teaches math for metering, safety, watt hour meter principles and wire tables.

LINE 1620

Meter Apprentice 2A

6:6:0

On Sufficient Demand

- Prerequisite(s): Departmental written approval
- For meter apprentices. Teaches meter watt hour constants, register ratios and formulas. Covers principles of accuracy testing, meter testing and calibration.

LINE 1630

Meter Apprentice 2B

6:6:0

On Sufficient Demand

- Prerequisite(s): LINE 1620 or departmental written approval

For meter apprentices. Teaches single phase meter application and installation, polyphase power systems, polyphase meter application, meter testing and calibration. Covers instrument transformers, testing single phase transformer rated meters and Blondel's theorem.

LINE 2010

Lineman Apprentice 3A

6:6:0

F, Sp

- Prerequisite(s): Departmental written approval
- For lineman training technology apprentices. Introduces compressors, transformer connections, underground conduit and street lighting systems. Teaches distribution repair with gloves and hot sticks, and cable installation.

LINE 2020

Lineman Apprentice 3B

6:6:0

F, Sp

- Prerequisite(s): Departmental written approval
- For lineman training technology apprentices. Introduces troubleshooting overhead and transformers, safety and power quality. Teaches high-voltage AC power, switchgear and URD transformers.

LINE 2030

Lineman Apprentice 4A

6:6:0

F, Sp

- Prerequisite(s): Departmental written approval
- For lineman training technology apprentices. Introduces reading electrical diagrams, transformers, splicing and meters. Teaches cable termination, troubleshooting, safety and fault location.

LINE 2040

Lineman Apprentice 4B

6:6:0

F, Sp

- Prerequisite(s): Departmental written approval
- For lineman training technology apprentices. Introduces voltage regulators, customer relations, cable fault locations, and transformers. Teaches troubleshooting, circuit breakers, capacitors and reactors.

LINE 2310

Powerline Technician and Safety Code I

4:2:6

F

- Prerequisite(s): LINE 1210 or departmental approval

For Lineman Technology majors to give the trainee a basic knowledge of first aid, basic electricity, power line installation, and work methods. Includes lectures and lab

projects. Completers should be able to function on a line crew.

LINE 2320 Industrial Wiring

2:1:3

- Prerequisite(s): LINE 1120 and LINE 1220 or departmental approval

For Lineman Technology majors and apprentice linemen currently working in the trade. Studies industrial building sites, electrical materials, tools, equipment, and manpower needed to complete electrical installations. Uses lectures, demonstrations, lab projects, and field trips. Teaches how to read site plans, select proper materials for service equipment, list the substation components, identify various types of busways, determine the number and kind of electrical panels, describe signaling system component parts; be familiar with the machine layout in the industrial building. Completers should be able to assist qualified electrical workers install industrial wiring.

LINE 2330 Single and Polyphase Metering

2:1:3

- Prerequisite(s): LINE 1110, LINE 1130, LINE 1210, and LINE 1230 or departmental approval

For the Lineman Technology majors and apprentice linemen currently working in the trade. Studies single and three phase residential, commercial, and industrial building metering needs. Includes metering history, construction, principles, and parts of a meter. Teaches meter applications and installations, meter testing and inspection. Uses lecture, demonstration, and lab study. Stresses selection and installation of proper single and three-phase meters to meet customer needs.

LINE 2340 Three-Phase Lines and Safety

5:0:15

- Prerequisite(s): LINE 1240 or departmental approval

For Lineman Technology majors or apprentice linemen who are currently working in the trade. The skill development and safety phase will contain all facets of outside line work from digging holes, setting poles, stringing conductors, replacing old poles, and general line work. Develops skills through hands-on work, demonstrations, and application of methods learned in classroom experiences. Completers should have a good working knowledge of how to construct and maintain a power line, knowledge of transformers and their applications, and be able to effectively and safely work 4 KV circuits with rubber gloves.

LINE 2410 Powerline Technician and Safety Code II

4:1:9

- Prerequisite(s): LINE 1210 and LINE 2310 or departmental approval

For Lineman Technology majors and apprentice linemen currently working in the lineman trade. Includes basic knowledge of first aid, basic electricity, power line installation, and basic work methods. Studies the National Electrical Safety Code. Emphasizes field work, lectures, and demonstrations. Completers should be able to function as an apprentice on a line crew.

LINE 2430 Substation Equipment

4:2:6

- Prerequisite(s): LINE 1110, LINE 1210, and LINE 2310 or departmental approval

For Lineman Technology majors or apprentice linemen working in the lineman trade. Studies substation site selection, sizing according to existing load requirements, the equipment uses and purposes, and the different types of substation construction. Uses lecture and field trips to established substation sites, video tapes, and hands-on work at the outdoor lab.

LINE 2440 High Voltage Substation and Safety

4:0:12

- Prerequisite(s): LINE 1240 and LINE 2340 or departmental approval

For Lineman Technology majors or apprentice linemen working in the trade. Includes all kinds of dead work and applications of energized work with rubber gloves and hot sticks. Teaches almost exclusively by hands-on work methods. Completers should be able to work safely and effectively on all types of energized work with rubber gloves and a variety of energized work with hot sticks.

LINE 2500 Lineman Substation Apprentice 3A

6:6:0

- Prerequisite(s): Departmental written approval
- Teaches safety in substations and switchyards continued, circuit breakers 1 and 2, contact resistance testing, new circuit breakers inspections and tests, circuit breaker time travel testing and analysis. Covers Hydraulic derricks and digging equipment rigging 1 and 2 and advanced rigging.

LINE 2510 Lineman Substation Apprentice 3B

6:6:0

- Prerequisite(s): Departmental written approval
- Teaches bucket truck safety, capacitors and reactors, voltage regulators, relays 1 and 2, control equipment, and high voltage terminations. Covers substation battery, battery chargers, testing, cell and charger replacement.

LINE 2520

Lineman Substation Apprentice 4A

6:6:0

- 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

- Prerequisite(s): Departmental written approval
- Teaches safety in transmission and distribution maintenance, safety in substation and switchyards continued, transformers 1, use of electrical test equipment, distribution line safety, power transformer turns ratio testing, power transformer temperature indicating testing, oil reconditions. Covers relays 1 and 2 continued, capacitors and reactors continued, new circuit breakers inspections and tests continued.

LINE 2600

Meter Apprentice 3A

6:6:0

- 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

- 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

- 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

- 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.

Course Descriptions

LINE 281R

Cooperative Work Experience

1 to 8:0:5 to 40

Su, F, Sp

• Corequisite(s): LINE 285R

Provides paid, on-the-job work experience in the student's major. Work experience, the related class, and enrollment are coordinated by the Cooperative Coordinator. Includes student, employer and coordinator evaluations, on-site work visits, written assignments, and oral presentations. Provides experience in writing and completing individualized work objectives that improve present work performance.

LINE 285R

Cooperative Correlated Class

1:1:0

Su, F, Sp

• Corequisite(s): LINE 281R

Identifies on-the-job problems and provides remediation of those problems through in-class discussion and study. Includes the study of identifying and maximizing service opportunities. Students register for this class with the approval of the Cooperative Coordinator. Includes lecture, guest speakers, video tapes, role playing, case analysis, oral presentations and written assignments. Completers should be better able to perform in their field of work or study.

MAT—MATHEMATICS - DEVELOPMENTAL

MAT 0800

Math Fundamentals

3:3:0

Su, F, Sp

• 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

Su, F, Sp; DE

• 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

Recommended for students planning to enroll in NURS 1030. 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

Su, F, Sp; DE

• 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

Su, F, Sp; DE

• 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

Su, F, Sp; DE

• Prerequisite(s): One of the following: MAT 0950 with a grade of B or better and taken within the last two years or MAT 0980 with a C- or

better and taken within the last two years ; or appropriate math placement test scores that are no more than two (2) years old

Teaches Beginning and Intermediate Algebra in one semester. Includes linear, quadratic, and rational expressions, equations, and functions; systems of equations; logarithms; exponents; graphing; and problem solving. Prepares students for MATH 1030, 1040, and 1050.

MAT 1010

Intermediate Algebra

4:4:0

Su, F, Sp; DE

• 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. Emphasizes problem solving and critical thinking.

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

Course Descriptions

MAT

MATH

determinants, arithmetic and geometric sequences, mathematical induction, the Binomial Theorem, permutations and combinations, and an introduction to probability.

MATH 1060 **GM** **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 **QL** **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 **QL** **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** **QL** **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 **QL** **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** **QL** **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 **QL** **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, parameterization of curves, polar coordinates, vectors in 3-space, quadric surfaces, and cylindrical and spherical coordinates. Prerequisite for calculus-based sciences.

MATH 2010 **Mathematics for Elementary Teachers I**

3:3:0 **Su, F, Sp**

• Prerequisite(s): MATH 1050 with a grade of C or better within the past two years or 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 2010 with a grade of C or better

Includes the basic concepts of statistics, geometry, and measurement.

MATH 2040 **QL** **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** **QL** **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 221H **QL** **Calculus III**

3:3:0 **Su, F, Sp**

• Prerequisite(s): MATH 1220 with a grade of C or better

Includes partial derivatives, gradient vectors, Lagrange multipliers, multiple integrals, line integrals, Green's Theorem, surface integrals, the Divergence Theorem, and Stokes' Theorem.

MATH 2270 **QL** **Linear Algebra**

3:3:0 **On Sufficient Demand**

• Prerequisite(s): MATH 1220 with a grade of C or better

Includes matrices and systems of equations, determinants, vector spaces, linear transformations, orthogonality, and eigenvalues and eigenvectors.

MATH 2280 **QL** **Ordinary Differential Equations**

3:3:0 **On Sufficient Demand**

• Prerequisite(s): MATH 2210 with a grade of C or better

Includes separable equations, linear differential equations, differential operators and annihilators, variation of parameters, power series solutions of differential equations, Laplace transforms, systems of linear differential equations, and numerical methods.

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 **On Sufficient Demand**

• Prerequisite(s): MATH 2210 with a grade of C or better

Provides a survey of the history of mathematics.

Course Descriptions

MATH 3010

Methods of Secondary School Mathematics Teaching

3:3:0 On Sufficient Demand
 • 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 On Sufficient Demand
 • Prerequisite(s): MATH 2210 and MATH 2270, each with a grade of C or better; MATH 2280 with a grade of C or better is recommended

For Mathematics Education majors. Presents one or more popular mathematical computer software packages. Includes mathematical problem solving and presentations of mathematical concepts using a computer as an aid. Introduces an appropriate programming language.

MATH 3100

Foundations of Geometry

3:3:0 On Sufficient Demand
 • 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 On Sufficient Demand
 • Prerequisite(s): MATH 2210, MATH 2270, and MATH 2280, each with a grade of C or better
 Introduces the construction of rigorous proofs of mathematical claims in the context of beginning analysis.

MATH 3210

Complex Variables

3:3:0 On Sufficient Demand
 • Prerequisite(s): MATH 2210 with a grade of C or better

Includes the algebra of complex numbers, analytic functions, mapping properties of elementary functions, the Cauchy integral formula, residues, and conformal mapping.

MATH 3300

Foundations of Abstract Algebra

3:3:0 On Sufficient Demand
 • 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 On Sufficient Demand
 • 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.

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 student's preferred manufacturing field. May include guest speakers, field trips, and labs.

MET 1300

Drafting/Blueprint Reading/Geometric Dimensioning and Tolerancing

2:1:3 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, materials condition symbols, form and profile, orientation and run-out and location. Includes lab.

MET 1350

Related Machine Shop Practice

2:1:3

F, Sp

For students of majors other than Machine Tool Technology. Covers basic machine tool operation principally on the engine lathe. Includes turning, boring, drill sharpening, tool bit grinding, taper cutting, facing, hole formation, threading both internal and external, and simple tool design.

MET 1400

Industrial Maintenance 3A

5:5:0

On Sufficient Demand

• Prerequisite(s): Departmental written approval
A drafting, blueprint reading, geometric dimensioning and tolerancing course for Industrial Maintenance apprentices. Studies mechanical and structural blueprint reading as it applies to the manufacturing environment. Teaches dimensioning and tolerancing, including the symbols and terms, datums, material condition symbols, form and profile, orientation and runout, and location.

MET 1500

Hydraulics and Pneumatics

3:2:3

Sp

Teaches fundamentals of hydraulic and pneumatic components and systems used in industrial applications. Studies pumps, motors, directional and flow control valves, cylinders, transmission and fluids. Emphasizes maintenance, safety and environmental problems, troubleshooting techniques and blue-print reading. Successful completers should be able to work with hydraulic and pneumatic systems in correlation with related industrial electrical applications. Includes lecture, demonstrations and lab work.

MET 1800

Engineering Materials

4:2:6

F

• Prerequisite(s): PHYS 2010
Teaches properties and principles of material cycle, solid materials, metallic materials, polymeric materials, plastics, elastomers, adhesives, ceramics, composites and electronic materials. Studies principles of tensile, compression, flexure, shear, hardness, impact, fatigue and non-destructive testing. Includes proper selection of materials through analysis, testing and pricing. Includes lab.

MET 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

5:2:9

F

Teaches principles of production equipment and concurrent processes. Includes machining, metal casting, powder metallurgy, joining of metals, sheet metal, plastics, machine shop practices and principles and cutting. Involves cost estimating, design for assembly, CAM, lean manufacturing, automation and environmentally-conscious manufacturing. Includes the technological limitations. Includes lab.

MET 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. Includes the components, systems, dimensioning, process planning, tooling and tool changing, programming and interpolation, use of computer capabilities and advanced CNC features, and EIA/ASCII codes. Studies automation principles including the environment necessary for automation and the automated work cell. Includes lab.

MET 281R

Cooperative Work Experience

I to 8:0:5 to 40

Sp

• Prerequisite(s): EGD 2600, ENGL 1010, ENGL 2020, MET 1300, MET 2400
• Corequisite(s): MET 285R
Provides paid, on-the-job work experience in the student's major. Work experience, the related class and enrollment are coordinated by the Cooperative Coordinator. Includes student, employer and coordinator evaluations, on-site work visits, written assignments and oral presentations. Provides experience in writing and completing individualized work objectives that improve present work performance.

MET 285R

Cooperative Correlated Class

I:1:0

F, Sp

• Prerequisite(s): EGD 2600, ENGL 1010, ENGL 2020, MET 1300, MET 2400
• Corequisite(s): MET 281R
Identifies on-the-job problems and provides remediation of those problems through

in-class discussion and study. Includes the study of identifying and maximizing service opportunities. Students register for this class with approval of the Cooperative Coordinator. Includes lecture, guest speakers, video tapes, role playing, case analysis, oral presentations and written assignments. Completers should be better able to perform in their field of work or study.

MET 295R

Current Topics in Manufacturing Engineering Technology

I to 4:1 to 4:0 to 6

F, Sp

• Prerequisite(s): MET 2400, MET 2500, EGD 2600, EGD 2610

Presents various topics relating to technology manufacturing advances. Examines global manufacturing techniques, processes and equipment. Includes oral and written reports. May include lab, field trips, trade shows, professional organization meetings and guest speakers. Repeatable for a total of 3 credits towards the degree.

METO—METEOROLOGY

METO 1010

PP

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.

METO 1020

Introduction to Meteorology Laboratory

I:0:2

F

Provides hands-on experience for students investigating various meteorologic phenomena discussed in METO 1010. Students desiring credit for a science major should take METO 1010 and METO 1020.

METO 3100

Earth Systems

3:3:0

Sp

• 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.

Course Descriptions

MGMT—BUSINESS MANAGEMENT

MGMT 1010 SS
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 UVSC 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 UVSC 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 congruency and ethical behavior. Emphasizes character building modules culminating in a service project.

MGMT 2110 (Cross-listed with: COMM 2110) SS
Interpersonal Communication
3:3:0 F, Sp; DE

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** GC
Business Communications
3:3:0 Su, F, Sp; DE

•Prerequisite(s): Recommended: 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 220A
Business Communications
1:1:0 On Sufficient Demand

•Prerequisite(s): ENGL 1010 with a grade of "C-" or higher

Teaches business reports using direct and indirect approaches. Emphasizes basic language utilization. Includes application of communication principles to business writing situations. Requires completion of a formal research document.

MGMT 220B
Business Communications
2:2:0 On Sufficient Demand
 • Prerequisite(s): ENGL 1010 with a grade of "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 School of Business Majors.

MGMT 220H **GC**
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 School of Business majors. Studies quantitative tools, which aid in decision making. Teaches use of algebra, mathematical programming, probabilities, and calculus to solve typical business problems. Uses lectures and problem sets to explain concepts.

MGMT 2250
Job Application and Advancement Skills
1:1:0 OSD; 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 201B or business

computer proficiency or Instructor Approval
 For students and others interested in developing effective business presentations skills. Teaches students to plan, develop, deliver, and evaluate business presentations using informative and persuasive formats in diverse settings using a variety of media. Provides additional presentation software training.

MGMT 2450
Principles of Personal Excellence
3:3:0 F, Sp
 Introduce students to a holistic framework for the development of personal effectiveness and peak performance. Reviews principles, processes, and practices used by peak performers in many life disciplines. Offers students a chance to apply many practices and techniques, which they can apply within the many performances arenas of their life.

MGMT 258R
Current Topics in International Business
1 to 3:1 to 3:0 On Sufficient Demand
 • Prerequisite(s): Department Chair Approval
 Provides exposure to emerging topics of current interest in international business. Topics vary each semester. May apply a maximum of three hours toward graduation.

MGMT 259R
Current Topics in Marketing
1 to 3:1 to 3:0 On Sufficient Demand
 • Prerequisite(s): Department Chair Approval
 Provides exposure to emerging topics of current interest in marketing. Topics vary each semester. May apply a maximum of three hours toward graduation.

MGMT 2700
Business and Service in Action
2:1:3 On Sufficient Demand
 Explores previous business course content with hands-on experience. Provides leadership and service opportunities. Includes lecture, homework, and out-of-class lab time consisting of service-related experiential learning. Completers should have a greater understanding of the business major with practical service experience.

MGMT 281R
Cooperative Work Experience
2 to 8:0:10 to 40 Su, F, Sp
 • Prerequisite(s): Approval from School of Business Career and Corporate Manager
 Provides opportunities to apply classroom theory on the job. Students work as paid employees in a job that relates to their careers while enrolled at the college. Credit is determined by the number of hours a student works during the semester. Completers meet individually set goals. Six credits may be applied toward graduation.

MGMT 290R
Independent Study
1 to 3:1 to 3:0 On Sufficient Demand
 Provides independent study as directed in reading and individual projects. Requests must be submitted for approval by the department. Approval for this program will be coordinated with the instructor. May be repeated for up to three credits.

MGMT 292R
Seminar
1 to 3:1 to 3:0 On Sufficient Demand
 Designed to give the student added insight into management principles essential for successful management of a business. Includes guest experts from the field of business. May be repeated for a total of three credits.

MGMT 294R
Current Issues in Utah Business
1:1:0 On Sufficient Demand
 Focuses on current issues in Utah business. Covers a single issue in each weekly television broadcast; uses supporting internet materials to expose students to timely issues facing the Utah business community. May be repeated for a maximum of three credits toward graduation.

MGMT 295R
Executive Lecture Series
0.5:0.5:0 F, Sp
 Consists of lectures presented by guest speakers on current business topics concerning the student, community, nation, business world, etc. May be required; see program listings for details. Can be taken as many times as desired for interest.

MGMT 297H
Honors Seminar in Leadership Development
3:3:0 On Sufficient Demand
 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 **GS**
Organizational Behavior
3:3:0 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.

Course Descriptions

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. 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

F

• 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

F, Sp

• 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

F, Sp

• 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 3200 (Cross-listed with: HM 3200)

Global Tourism

3:3:0

F

• Prerequisite(s): MGMT 2200 or ENGL 2010 or ENGL 2020

Studies the history and future of tourism, the impacts (environment, culture, economy) of tourism, and tourist behavior. Includes lectures, case studies, field trips, and guest speakers. Completers should be sophisticated travelers and understand the nature of the world's largest industry and its impacts on society and national economics.

MGMT 3210 (Cross-listed with: HM 3210)

Convention and Events Management

3:3:0

F

• Prerequisite(s): ENGL 2010 or ENGL 2020

Analyzes the meeting, convention, and events industry. Covers the various disciplines of planning including site selection, organizing, budgeting, catering, entertainment, and promotion. Introduces career opportunities through guest speakers who are industry professionals.

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 3300

Survey of International Business

3:3:0

Su, F, Sp; DE

• 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 3320 (Cross-listed with: COMM 3320)

Cross-Cultural Communications for International Business

3:3:0

F, Sp

• Prerequisite(s): ENGL 2010 or ENGL 2020

Required for international business majors and as an elective for all business majors. Discusses today's business environment which requires work in a multi-ethnic setting. Overviews critical elements that arise from the various cultural backgrounds, which can impact both domestic and international organizations. Proceeds from a management point of view with lessons easily derived for the mid-level manager as well as for line personnel. Concentrates on managerial communications, negotiations, cultural change, and management functions.

MGMT 3350

International Marketing

3:3:0

F

• Prerequisite(s): MGMT 3600 and MGMT 3300

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 2200 and MGMT 2390 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 F

• Prerequisite(s): MGMT 2340, MGMT 3100 and Matriculation into the Business Management Bachelor's Degree Program

Overviews the field of investments. Introduces stocks, bonds, put and call options, commodity and financial futures. Emphasizes both theory and practical aspects of investment management. Includes security valuation, market hypothesis, capital asset pricing, strategies of portfolio construction, performance measures, and risk/return relationships.

MGMT 3430
Human Resource Management
3:3:0 Su, F, Sp; DE

• Prerequisite(s): ENGL 2010 or ENGL 2020

Covers labor and management relations, legal issues, job analysis and design, recruiting and selecting, job placement and orientation, training, career planning, EEO, performance appraisal, and employee benefits. Presents tools for the implementation of a human resource management program. Includes class discussions, case studies, videos, oral presentations, written assignments, group projects, and guest speakers.

MGMT 3440
Managing Organizations
3:3:0 On Sufficient Demand

• Prerequisite(s): MGMT 3000

Studies management theory and emphasizes the managerial view of the elements and variables that influence the organization. Examines organizational design and change emphasizing the management tools used in planning, organizing, directing, controlling, and leading, and the coordinating of these factors within organizations. Uses current events as they relate to managing and developing the organization. Includes case analyses, team building exercises, videos, class discussions, group presentations, written assignments, and guest speakers.

MGMT 3450
Operations Management
3:3:0 Su, F, Sp; DE

• Prerequisite(s): MGMT 2340 and Matriculation into Business Management Bachelor's Degree Program

Focuses on the management of resources for products or services within an organization. Covers facility location and layout, planning, and operational processes. Emphasizes product/service development, forecasting, inventory control, quality assurance, and research techniques.

MGMT 3470
Lean Management Systems
3:3:0 On Sufficient Demand

• Prerequisite(s): MGMT 3450

Teaches advanced operations management processes beyond introductory course. Studies process and value stream management. Teaches importance of continuous improvement and other techniques critical to operations management in modern organizations. Integrates hands-on experience in lean thinking processes.

MGMT 3500
Leadership Process
3:3:0 Sp; DE

• Prerequisite(s): MGMT 1250

Required course for Integrated Studies Degree students with an emphasis in Leadership. Examines leadership theory by practice and application. Includes cases and group activities.

MGMT 3530 (Cross-listed with: LEGL 3530)
Employment and Labor Law
3:3:0 F

• Prerequisite(s): ENGL 2010 or ENGL 2020

Covers employment and labor law, cases, and policy. Includes employment discrimination along with labor relations statutes exploring the link between employment discrimination and traditional labor relations law. Presents tools necessary to formulate and write policy for profit and non-profit organizations. Includes lecture, class discussions, case studies, a service learning project, and guest speakers.

MGMT 3550
Organization Development[†]
3:3:0 On Sufficient Demand

• Prerequisite(s): ENGL 1010

Studies the process of ensuring skills, knowledge, abilities, and performance of the workforce meet current and future individual, team, and organizational needs. Includes the development, implementation, evaluation activities, interventions, and programs that focus on customized organization development (change), performance management, training and development, career development, and other unique employee or employee group needs.

MGMT 3600
Principles of Marketing[†]
3:3:0 Su, F, Sp

• Prerequisite(s): ENGL 1010

Required for most School of Business Bachelor of Science Degree students and is elective credit for other majors. Studies consumers, markets, and environments from the perspective of the marketing manager. Covers consumer behavior, marketing research, product management, and channels of distribution. Explores pricing, advertising, and personal selling. Includes case analysis, lectures, class discussions, videos, oral presentations, written assignments, and guest speakers.

MGMT 3620
Consumer Behavior
3:3:0 F

• Prerequisite(s): MGMT 3600, MGMT 2340, and Matriculation into the Business Management Bachelor's Degree Program

For bachelor's degree business management majors; elective credit for other School of Business majors. Includes an analysis of consumer spending and saving habits, product preferences, shopping behavior, leisure time patterns, and social change. Explores the influence of advertising, selling and fashion trends. Includes lectures, class discussions, videos, projects, case analyses, oral presentations, written assignments, and guest speakers.

MGMT 3630
Services Marketing
3:3:0 Sp

• Prerequisite(s): MGMT 3600

Presents skills and attitudes necessary to market services and to provide good customer service. Emphasizes the marketing skills involved in marketing services and basic marketing concepts, including positive customer relations, effectively handling customer complaints, and sound customer service procedures. Completers should develop successful service marketing strategies that can be applied in a business organizational setting. Includes lectures, guest speakers, video tapes, role plays, case analysis, oral presentations, and written assignments.

MGMT 3650
Selling and Sales Management
3:3:0 F, Sp

• Prerequisite(s): Matriculation into the Business Management Bachelor's Degree Program

For the bachelor's degree business management majors; elective credit for other School of Business majors. Emphasizes theoretical skills in the personal selling process and the management of a sales force. Studies the recruiting, training and supervising of salespersons, organization of territories, compensation schemes, and forecasting. Includes lectures, guest speakers, video tapes, role playing, case analysis, oral presentations, and written assignments.

Course Descriptions

MGMT 3660

Internet Marketing

3:3:0

F, Sp

• Prerequisite(s): MGMT 3600

Provides an introduction to the many business uses of the Internet to create competitive advantage. Features discussions of e-business strategic components and practice with Web page exercises. Uses guided exercises to explore the Net, both in and out of class. Includes projects, research, and Net use in a particular industry. Emphasizes the sharing of concepts discussed in lectures, class activities, the assigned readings, and group projects.

MGMT 3670

Advertising and Promotion

3:3:0

Sp

• Prerequisite(s): MGMT 3600 and Matriculation into the Business Management Bachelor's Degree Program

For Bachelor's Degree Business Management majors; elective credit for other School of Business majors. Provides an understanding of advertising, its purposes, and production. Includes sequence of activities in preparing productive, persuasive marketing and advertising campaign plans. Covers the social, legal, and economic considerations involved in the campaign planning process. Includes lectures, class discussions, guest speakers, videos, and student presentations.

MGMT 3730

Opportunities in Direct Sales

3:3:0

On Sufficient Demand

Discusses direct sales and the impact on our society. Covers basic terminology of the direct sales industry. Introduces distinctions between legal and illegal activity in the industry. Teaches the history of direct sales, compensation plans, and industry ethics. Analyzes communication skills in the direct sales industry. Explores the unique nature of the relationship between the company and the independent representative. Uses discussion, lecture, presentations and group activities to increase understanding and ability to analyze business under the umbrella of direct sales.

MGMT 3740

Relationship Marketing

3:3:0

On Sufficient Demand

• Prerequisite(s): MGMT 3730

For students interested in understanding relationship marketing as it applies to the direct selling industry. Focuses on the relationship between companies and their independent sales forces. Covers business ethics, compensation, structures, company conventions, distributor services, and online community building. Uses lectures, discussions, guest speakers, analyses in the field, and presentation of analysis in both oral and written format.

MGMT 3890

Career Preparation

2:2:0

Su, F, Sp

• Prerequisite(s): MGMT 2200

Emphasizes the development of effective techniques for successfully locating, applying for, securing employment, and advancing in a career. Provides opportunities to do a self-analysis, research industry and job opportunities, and internalize appropriate etiquette in a variety of business and social settings. Includes demonstration, role play, and application exercises.

MGMT 4000

Compensation and Benefits[†]

3:3:0

On Sufficient Demand

• Prerequisite(s): MGMT 3430; MGMT 3530 recommended

Studies the creation and administration of compensation systems and benefit packages for organizations. Draws heavily on material from MGMT 3430 and research on compensation and benefits systems currently in use in organizations. Covers benefits bidding and contracting based on employer limitations and employee needs. Involves both verbal and quantitative skills.

MGMT 4100

Management of Financial Institutions

3:3:0

Sp

• Prerequisite(s): MGMT 2340, MGMT 3100 and Matriculation into the Business Management Bachelor's Degree Program

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 4180

International Finance Management

3:3:0

Sp

• Prerequisite(s): MGMT 3100 and MGMT 3300 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 4200

Opportunity Identification in Entrepreneurship

3:3:0

F

• Prerequisite(s): Matriculation into the Business Management Bachelor's Degree

An advanced entrepreneurship course;

deals with successful management and/or ownership of a business. Discusses a firm's legal structure, business valuation, loans, and venture capital. Analyzes franchising, self-evaluation techniques, daily cash controls, and the international arena. Evaluates family business issues and government regulations.

MGMT 4210

Entrepreneurship Personal Development

3:3:0

Sp

• Corequisite(s): MGMT 4200

Deals with the personal and interpersonal development of entrepreneurs and other business professionals. Addresses issues and provides specific guidance in such areas as business and personal financial strategies, business and family interpersonal relationships, networking and human resource management strategies, and professional business and self image.

MGMT 4220

Management Communication

3:3:0

Sp

• Prerequisite(s): MGMT 2200 and Matriculation into the Bachelor's Degree Program

Studies elements of communication in management. Concentrates on written and oral communication in business settings and includes communicating electronically, managing conflict, and dealing with change.

MGMT 4290

Individual Action and Corporate Social Responsibility

3:3:1

On Sufficient Demand

• Prerequisite(s): MGMT 3010, Matriculation into the BS Business Management Program, and senior status

Explores the individual decision-making and leadership that underlies, drives, and shapes corporate social responsibility (CSR). Uses cases grouped around the main three areas of leadership, decision-making, and CSR. Uses primarily film to explore these cases, along with documentaries, trial summaries, congressional and government reports, and newspaper and magazine articles. Covers the basic theory and models of corporate social responsibility, decision making, and leadership; and explores the relationship and dynamics between individual decision making and leadership and corporate or collective social responsibility. Utilizes academic and practitioner articles that explore various aspects of leadership, decision making, and corporate social responsibility. Includes case analysis and reflection; an autobiographical exploration of leadership, decision making, and corporate social responsibility models; and a team project.

MGMT 4300

Entrepreneurship Business Planning

3:3:0

Sp

• Prerequisite(s): MGMT 4200 and Matriculation into the Business Management Bachelor's Degree

Course Descriptions

MGMT

Program
Covers marketing research, accounts receivable management, insurance analysis, and business taxation. Deals with local issues, regulations, statistics, patents, and estate planning. Students write a comprehensive business plan and should be able to competently manage a small business or start their own with a minimum risk of failure.

MGMT 4400

New Venture Financing

3:3:0 On Sufficient Demand

• Prerequisite(s): 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 458R

Advanced Topics in International Business

I to 3:I 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

I to 3:I 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, and maintaining a quality workforce. Includes identifying critical specifications for filling positions, recruiting a pool of talent, developing selection methods, and creating desirable person/job matches.

MGMT 4650

Strategic Marketing

3:3:0 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 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

I to 8:0:5 to 40 Su, F, Sp

• Prerequisite(s): Approval from School of Business Career and Corporate Manager

For upper-division students working toward a Bachelor of Science Degree in Business Management. Provides a transition from school to work where learned theory is applied to actual practice through meaningful on-the-job experience. No more than six credit hours of internship work experience will apply toward graduation in any Business Management Specialization.

MGMT 4830

Strategic Management Capstone Simulation

I:I: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 3300, 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 distinctive strengths and weaknesses; and theories. Contrasts the models and strategic frameworks relating these strategies and forces/trends. Includes group project (written and oral presentations) on a multinational corporation developing or maturing its network in a selected market.

MGMT 490R

Independent Study

I to 3:I to 3:0 On Sufficient Demand

• Prerequisite(s): Department Chair Approval
For bachelor's degree students and other interested persons. Offers independent study as directed in reading, in individual projects, etc., in the area of marketing and/or international business at the discretion and approval of the department chairperson. May apply a maximum of six hours toward graduation.

MGMT 492R

Human Resource Seminar

I:I:0 On Sufficient Demand

• Prerequisite(s): Instructor approval
Presents guest speakers on emerging human resource (HR) research and issues: strategy, international, culture, legal issues, planning and job analysis, recruitment and selection, performance management, compensation and benefits, and career development. May be repeated for two credits toward graduation.

MGMT 493R

Entrepreneurship Lecture Series[†]

I:I:0 F, Sp

Presents lectures by guest speakers on current entrepreneurship issues and topics. Speakers and topics vary each semester. May apply a maximum of three credits toward graduation.

MGMT 494R

Seminar

0.5 to 3:0.5 to 3:0 On Sufficient Demand

Provides short courses, workshops, and special programs in business management, leadership, or current business topics. Repeatable for up to three credits toward graduation.

MGMT 495R

Executive Lecture Series

I:I:0 F, Sp

Consists of lectures presented by guest speakers on current business topics concerning the student, community, nation, business world, etc. May be required in

Course Descriptions

business programs; see specific program listings for details. May apply a maximum of three credits toward graduation.

MGMT 497H

Business Honors Seminar

1 to 3:1 to 3:0 On Sufficient Demand

- Prerequisite(s): Permission required; 3.4 GPA or higher; senior status

Provides in-depth exposure to an issue of current interest in business by a local expert in a seminar setting. Includes group interaction and discussion, critical analysis of readings, and critique of student writings. Topics vary each semester.

MGMT 4980

Business Research Seminar

3:3:0 On Sufficient Demand

- Prerequisite(s): Instructor Approval

Studies the process of researching and writing for scholarly publication. Includes understanding the concepts of scholarly conversation, managing scholarship, choosing a topic, identifying appropriate journals, using exemplars, creating a title and abstract, making an outline, developing an introduction and conclusion, writing the body of the paper, and then revising, submitting, and finally publishing in a scholarly journal.

MICR—MICROBIOLOGY

MICR 2060

BB

Microbiology for Health Professionals†

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

- 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 pathogens. Discusses identification, control, and treatments. Includes weekly laboratory.

MICR 4500

Virology

3:3:0 F

- Prerequisite(s): BIOL 3400 and BIOL 3600
- Examines the fundamentals of virology. Covers viral structure, biochemistry, genomics, viral multiplication cycles in prokaryotic and eukaryotic cells, and techniques used in viral studies. Also discusses viral diseases, transmission, therapy, evolution, and epidemiology.

MILS—MILITARY SCIENCE

MILS 1200

Introduction to Leadership Excellence I

2:2:0 F

- 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 Sp

- Prerequisite(s): MILS 1200 or Department Approval
- Corequisite(s): MILS 145R

Compares and analyzes leadership styles found in the U.S. Army, as well as business,

academic, and government organizations. Studies Army organization, active and reserve forces; winter survival, advanced fire-team and aggressor tactics. Lab required.

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 UVSC 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 UVSC 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 F

- 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 Sp

- 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

F

- Prerequisite(s): MILS 2210
- Corequisite(s): MILS 345R

Prerequisite to attendance at National Advanced Leadership Camp. Prepares for successful completion of camp. Studies land navigation, squad and platoon tactics, combat operations, physical fitness, and physical leadership. Lab required.

MILS 3210

Small Unit Leadership II

3:3:0

Sp

- Prerequisite(s): MILS 3200
- Corequisite(s): MILS 345R

Prerequisite to attendance at National Advanced Leadership Camp. Prepares for successful completion of camp. Studies land navigation, squad and platoon tactics, combat operations, physical fitness, and physical leadership. Lab required.

MILS 345R

Advanced Leadership Dynamics and Techniques

1:0:3

F, Sp

- Prerequisite(s): Departmental Approval

Leadership lab for UVSC 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 UVSC Military Science 3000- and 4000-level classes. Students not enrolled in Army ROTC may take this class four times for credit with department approval.

MILS 4200

The Profession of Arms I

3:3:0

F

- Prerequisite(s): Departmental Approval
- Corequisite(s): MILS 445R

Prepares the prospective officer for initial training and subsequent assignment into the U.S. Army. Includes overview of U.S. Army training management, military writing, administration, logistics, professionalism, and ethics. Lab required.

MILS 4210

The Profession of Arms II

3:3:0

Sp

- Prerequisite(s): MILS 4200 or Departmental Approval
- Corequisite(s): MILS 445R

Prepares the prospective officer for successful completion of Army assignments. Includes advanced U.S. Army leadership

training, training management, military justice and law, pre-commissioning orientation, military briefing skills, and junior officer leadership.

MILS 445R

Transition to Officership

1:0:3

F, Sp

- Prerequisite(s): Departmental Approval

Leadership Lab for UVSC 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 UVSC Military Science 4000-level classes. ROTC students may take this course up to 4 credits with departmental approval.

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

4:4:0

On Sufficient Demand

- Prerequisite(s): Department Approval based upon assessment math score

For first semester students. Reviews fractions, decimals, percentages, ratio and proportion, transposing formulas, and areas and volumes. Covers right angle trigonometry, plane geometry, and oblique trigonometry.

MTT 1210

Machine Tool II

5:5:0

F

- Prerequisite(s): MTT 1110, MTT 1120, MTT 1150; EGD 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 1120, and MTT 1150

Teaches advanced operation of vertical milling machines. Introduces operation of horizontal milling machines, grinders, shapers, and turret lathes. Includes the combining of machine operations for the manufacturing of products. Teaches on-call response to customer job demand. Includes "hands-on" experience and demonstrations. Also offered over two semesters as MTT 122A and MTT 122B. See advisor for details.

MTT 2310

Precision Manufacturing

2:0:6

F, Sp

- Prerequisite(s): First-year MTT program or equivalent

For second year students who have finished the courses covering basic machining operations. Improves skills through production of marketable items. Studies cost effectiveness through time and cost figure exercises.

MTT 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 fixturing and basic machine setups. Also offered over two semesters as MTT 112A and MTT 112B. See advisor for details.

Course Descriptions

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 **FF**
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 1100 **XF**
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 **GF**
Basic Music Theory I
3:3:0 **F, Sp**
• Prerequisite(s): MUSC 1100 or passing score or 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 **GF**
Basic Music Theory II
3:3:0 **Su, Sp**
• Prerequisite(s): MUSC 1110
A continuation of MUSC 1110, Music Theory I.

MUSC 1130 **GF**
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 **GF**
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 **GF**
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 **GF**
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 **GF**
A Cappella Choir
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 **GF**
UVSC 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 **GF**
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 repeated. Four credits may apply toward the AAS degree and eight credits toward the AA/AS degrees.

MUSC 130R **GF**
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. Functions as the Wolverine Pep Band at athletic activities. 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 **GF**
Introduction to Music Technology
2:2:0 **F, Sp**
Covers the fundamentals of MIDI (musical recording technology, analog and digital synthesis, and digital sampling). Surveys available music software and hardware with hands-on experience in the College's electronic music studio.

MUSC 150R **GF**
Individual Piano Instruction
1:1:0 **Su, F, Sp**
Private instruction on piano. Designed to meet the individual needs of the student in developing skills and techniques. Requires five hours of practice each week. May be repeated. Two credits may apply toward the AAS degree and four credits toward the AA/AS degrees.

MUSC 151R **GF**
Individual Voice Instruction
1:1:0 **Su, F, Sp**
Private instruction in developing the 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. Two credits may apply toward the AAS degree and four credits toward the AA/AS degree.

MUSC 152R **GF**
Individual Woodwind Instruction
1:1:0 **Su, F, Sp**
Private instruction on woodwind instruments. Designed to meet the individual needs of the student in developing skills and techniques. Requires five hours of practice each week. May be repeated. Two credits may apply toward the AAS degree and four credits toward AA/AS degrees.

MUSC 153R **GF**
Individual Brass Instruction
1:1:0 **Su, F, Sp**
Private instruction on brass instruments. Designed to meet the individual needs of the student in developing skills and techniques. Requires five hours of practice each week. May be repeated. Two credits may apply toward the AAS degree and four credits toward AA/AS degrees.

Course Descriptions

MUSC

MUSC 154R Individual String Instruction 1:1:0	GF Su, F, Sp
Private instruction on string instruments. Designed to meet the individual needs of the student in developing skills and techniques. Requires five hours of practice each week. May be repeated. Two credits may apply toward the AAS degree and four credits toward AA/AS degrees.	
MUSC 155R Individual Percussion Instruction 1:1:0	GF Su, F, Sp
Private instruction on percussion instruments. Designed to meet the individual needs of the student in developing skills and techniques. Requires five hours of practice each week. May be repeated. Two credits may apply toward the AAS degree and four credits toward AA/AS degrees.	
MUSC 156R Individual Guitar Instruction 1:1:0	GF Su, F, Sp
Private instruction on guitar. Designed to meet the individual needs of the student in developing skills and techniques. Requires five hours of practice each week. May be repeated. Two credits apply toward the AAS degree and four credits toward the AA/AS degrees.	
MUSC 1640 Group Voice 1:1:1	GF 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	GF F, Sp
Teaches students basic performing and teaching skills on the violin, viola, cello and bass.	
MUSC 1660 Group Clarinet 1:1:1	GF 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	GF 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	GF 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

GF
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

GF
Sp

• Prerequisite(s): MUSC 2110
A continuation of MUSC 2110. For music majors, interested students and community members.

MUSC 220R
Small Ensembles
1:1:0

GF
F, Sp

For the musician desiring experience in small ensemble performance. Provides opportunity for performing in small groups of select musicians. Studies music of various styles and periods. Some public performances may be required. May be repeated. Two credits may apply toward the AAS degree and four credits toward the AA/AS degrees.

MUSC 2350
Fundamentals of Conducting
2:2:0

GF
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

GF
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 281R
Internship in Music I
1 to 8:0:5 to 40

GF

• 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 UVSC 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 290A
Independent Study
1:0 to 1:0 to 3

GF
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 290B
Independent Study
2:0 to 2:0 to 6

GF
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 290C
Independent Study
3:0 to 3:0 to 9

GF
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

GF
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.

Course Descriptions

MUSC 3020 Music History and Literature II 3:3:0 • 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.	FF Sp	MUSC 332R Jazz Ensemble 1:3:0 • Prerequisite(s): Audition Provides the advanced instrumentalist the opportunity to perform jazz music as a member of the jazz ensemble. Studies all styles of jazz, rock and popular music. Improvisational and sight-reading skills are emphasized. Requires attendance at all performances. May be repeated for maximum of 8 credits toward graduation.	GF F, Sp	week. May be repeated for a maximum of 8 credits toward graduation.
MUSC 3120 Form and Analysis 3:3:0 • 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.	F	MUSC 3400 Music in the Elementary School 2:2:0 Su, F, Sp For Elementary Education students and other interested students and community members. Introduces concepts and techniques of music education applicable to the elementary school classroom. Teaches concepts and skills through a combination of readings and lectures. Applies vocal and instrumental basics and class projects. Addresses the Utah State Core Curriculum for music for the elementary school. Completion of a second course is required to satisfy the fine arts requirement (see Graduation section of catalog).	XF	MUSC 354R Advanced Individual String Instruction 1:1:0 Su, F, Sp • Prerequisite(s): Passing juried examination Develops individual string performance skills. Requires five hours of practice each week. May be repeated for a maximum of 8 credits toward graduation. MUSC 355R Advanced Individual Percussion Instruction 1:1:0 Su, F, Sp • Prerequisite(s): Passing juried examination Develops percussion performance skills. Requires five hours of practice each week. May be repeated for a maximum of 8 credits toward graduation. MUSC 356R Advanced Individual Guitar Instruction 1:1:0 Su, F, Sp • Prerequisite(s): Passing juried examination Develops performance skills on guitar. Requires five hours of practice each week. May be repeated for a maximum of 8 credits toward graduation.
MUSC 3150 Advanced Instrumental Conducting 2:2:0 • Prerequisite(s): MUSC 2350, MUSC 2120, MUSC 2010, MUSC 2020 or instructor's permission Teaches advanced baton techniques, score preparation and basic rehearsal procedures for instrumental ensembles.	Sp	MUSC 3410 Elementary Music Methods 2:2:0 • Prerequisite(s): MUSC 2110 This course is an elementary music methods class for music majors.		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 320R Advanced A Cappella Choir 1:0:4 • 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 credits toward graduation.	F, Sp	MUSC 350R Advanced Individual Piano Instruction 1:1:0 Su, F, Sp • Prerequisite(s): Passing juried examination. May be repeated for a maximum of 8 credits toward graduation. Develops student performance skills and techniques. Requires five hours of practice each week. May be repeated for a maximum of 8 credits toward graduation.		MUSC 372R Chamber Orchestra 1:2:0 On Sufficient Demand • Prerequisite(s): Audition For students desiring public chamber orchestra performance experience. Provides the opportunity to improve music performance skills. Studies and performs serious concert literature from all periods of music history. Attendance is expected at all concerts, rehearsals, and tours. Entrance requires audition. May be repeated for maximum of 8 credits toward graduation.
MUSC 322R Chamber Choir 1:3:0 • Prerequisite(s): Audition For the advanced singer desiring experience in choral performance. Provides the opportunity of performing in a small group of select singers. Studies music of various styles and periods. Requires participation in concerts, programs, and tours. May be repeated for maximum of 8 credits toward graduation.	GF F, Sp	MUSC 351R Advanced Individual Voice Instruction 1:1:0 Su, F, Sp • Prerequisite(s): Passing juried examination Develops the student's singing voice. Requires five hours of practice each week. May be repeated for a maximum of 8 credits toward graduation.		
MUSC 330R Advanced Symphony Band 1:0:4 • Prerequisite(s): Instructor approval; prior playing experience Improves musical performance skills by participation in the band. Studies and performs serious concert literature. Requires attendance at all concerts, performances, tours and acquisition of performance attire. May be repeated for maximum of 8 credits toward graduation.	F, Sp	MUSC 352R Advanced Individual Woodwind Instruction 1:1:0 Su, F, Sp • Prerequisite(s): Passing juried examination Develops individual woodwind performance skills. Requires five hours of practice each week. May be repeated for a maximum of 8 credits toward graduation.		MUSC 4120 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 353R Advanced Individual Brass Instruction 1:1:0 • Prerequisite(s): Passing juried examination Develops individual brass performance skills. Requires five hours of practice each	Su, F, Sp			

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 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-V7-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 8:0:5 to 40
 • 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 UVSC 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.

NURS—NURSING

NURS 1030
Concepts of Nursing I
9:5:12 **F, Sp**
 • Prerequisite(s): Admission to AS program
 Introduces concepts and roles fundamental to nursing practice and physiological and psychological functions and activities that maintain or alter health and wellness. Develops basic psychomotor skills needed to complete independent and collaborative nursing care. Provides opportunities to practice and apply concepts through group discussion, class presentations, and case studies in lecture and lab settings.

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 of nursing. Develops skills to identify patient care needs and assist in planning appropriate interventions in a variety of settings. Emphasizes related patient symptoms and medical diagnosis; comprehension and verbalization of nursing care interventions; utilization and nursing considerations of drug classifications. Includes readings, discussions, demonstrations, multimedia use and case studies during which each student will participate in both lecture and laboratory settings.

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 IVⁱ
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
 • 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
 • 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
 • 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
 • 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.

Course Descriptions

NURS 2410

Nursing Care of Adults with Common Disorders

4:2:6

• Prerequisite(s): NURS 2300, NURS 2310

• Corequisite(s): NURS 2400, NURS 2420

Focuses on implementation of nursing process with adults experiencing common physiological problems. Integrates concepts of health assessment, health promotion, pharmacology, and clinical reasoning in providing a holistic, collaborative approach to client care in a variety of clinical settings, including laboratory simulation, inpatient medical-surgical and peri-operative units.

NURS 2420

Nursing Care of Older Adults

2:2:0

• 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

• 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 6:0:5 to 30

• Prerequisite(s): Department Chair approval.

Provides supervised, practical experience for students preparing for careers in Nursing. May be repeated for a total of 6 credits toward graduation.

NURS 285R

Cooperative Related Instruction

1:1:0

F, Sp

• Prerequisite(s): Approval of Cooperative Coordinator and concurrent enrollment in NURS 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.

NURS 290R

Professional Issues in Nursing

1:1:0

On Sufficient Demand

For Nursing majors only. Explores professional issues such as job opportunities, health care trends and issues, and professional organizations and their activities. Emphasizes the roles of continuing education and professional organizational activity. Offers membership in the Utah Student Nurses Association. Includes field trips, guest lecturers and service projects. A total of two credits may apply towards graduation.

NURS 295R

Independent Study in Nursing

1 to 4:1 to 4:0

On Sufficient Demand

• Prerequisite(s): Department approval

Provides individualized, independent study in nursing under the direction of a faculty mentor. May include literature reviews, participation in ongoing nursing projects, or other student identified projects/activities. Projects and/or learning activities are limited to work beyond that which is available in existing nursing courses. Proposals for independent study in nursing must be submitted for approval by the department. May be repeated for up to six credits toward graduation.

NURS 3000

Nursing Concepts V

4:4:0

Sp

• Prerequisite(s): Acceptance into BS Nursing program

For students in the baccalaureate degree nursing program. Builds on a basic knowledge of psychosocial nursing. Incorporates the nursing process in the management of health care recipients with mental illness. Prepares the student to develop, manage, and evaluate nursing care for those with a mental illness. Requires students to demonstrate clinical skills in hypothetical care situations.

NURS 3010

Nursing Concepts VI

2:2:0

Sp

• Prerequisite(s): Acceptance into BS Nursing program

For students in the baccalaureate degree nursing program. Presents the complex issues related to the childbearing experience. Presents uncomplicated and complicated pregnancies, delivery, and postpartum care for the childbearing family. Presents outcomes for the neonate. Requires students to demonstrate clinical skills in hypothetical care situations.

NURS 3020

Nursing Concepts VII

2:2:0

Sp

• Prerequisite(s): Acceptance into BS Nursing program

For students in the baccalaureate degree nursing program. Covers nursing concepts as they apply to the pediatric health care recipient from infancy through

adolescence. Teaches the nursing student to apply facts and principles consistent with the nursing process in providing care to health care recipients within the pediatric population.

NURS 3030

Nursing Concepts VIII

4:4:0

Sp

• Prerequisite(s): Acceptance into BS Nursing program

Covers nursing concepts related to the care of the adult patient. Applying facts and principles, for students in the BSN Degree Program based on pathophysiology, treatment modalities, drugs, nutrition, and nursing interventions to adult health care recipients. Requires students to demonstrate clinical skills in hypothetical care situations.

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 sociocultural context of the family. Safely applies the nursing process to meet

common health problems of children from infancy through adolescence in clinical settings ranging from the laboratory to intensive care.

NURS 3330

Nursing Care of Persons with Complex Disorders

4:2:6

• Prerequisite(s): NURS 2400

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

3:1:6

• 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

Explores ethical, legal and professional guidelines for practice as a registered nurse. Examines professional responsibilities and accountabilities as identified in the Utah Nurse Practice Act, American Nurses Association "Code of Ethics for Nurses" and "Nursing: Scope and Standards of Practice".

NURS 4300

Nursing Theory

3:3:0

• Prerequisite(s): NURS 3300

Examines various nursing models and theories which influence current nursing practice. Explores essential and interdependent relationships among knowledge, theory, research, and nursing practice. Assists students to conduct a basic assessment of a theory and gain insight into the development of their individual philosophies of nursing practice.

NURS 4310

Nursing Research

3:3:0

• Prerequisite(s): NURS 3400

• Pre- or Corequisite(s): MATH 2040

Introduces fundamental research concepts, designs, methodology and techniques. Examines the scientific approach, preliminary steps in research, designs for nursing research, measurement and data collection, and analysis of research data, critiquing process, and application of nursing research in practice.

NURS 4320

Nursing in the Community[†]

4:2:6

• 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

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 6:0:5 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 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.

Course Descriptions

NUTR—NUTRITION

NUTR 1020 GE
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.

NUTR 2020 BB
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—PHYSICAL EDUCATION

PES 1010 GE
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 GE
Aerobics II
1:0.5:1.5 Su, 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 GE
Powertone
1:0.5:1.5 Su, F, Sp

For students interested in strength and weight training in a group exercise setting. Utilizes bar/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

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 GE
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 GE
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 GE
Weight Training II
1:0.5:1.5 Su, F, Sp

An individualized intermediate course for students who wish to continue their weight training program. Students will write their own program and set standards of goals that are attainable throughout the training period.

PES 1087 GE
Weight Training III
1:0.5:1.5 Not 07-08

• Prerequisite(s): PES 1086 or instructor approval

An advanced course for students and varsity athletes who wish to maintain their individualized weight training program. Students will write their own program and set standards or goals that are attainable throughout the training period.

PES 1097 FE
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 GE
Tennis I
1:0.5:1.5 Su, F, Sp

Covers the basic concepts of the game. Teaches general tennis skills including scoring, forehand, backhand, overhead, volley and net game, and service. Teaches basic tennis rules and strategy techniques. Includes labs, lectures, audio-visual, practice and inter-class participation. Taught on block only.

PES 1101 GE
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 GE
Badminton
1:0.5:1.5 Sp

Covers basic concepts of badminton. Includes scoring, forehand, backhand, overhead, net game, and service. Studies strategy techniques for both singles and doubles. Uses labs, lectures, audio-visual, practice and inter-class participation. Emphasizes skills, fundamentals, conditioning, and rules of the sport.

PES 1110 GE
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 GE
Racquetball II
1:0.5:1.5 F, Sp

Includes advanced skills, rules and strategies in singles, doubles and cut-throat matches. Uses demonstration and labs, practice and inter-class participation. Successful completers should have developed a minimum of Level C skills.

PES 1130 GE
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.

Course Descriptions

<p>PES 1131 GE Golf II I:0.5:I.5 Su, F, Sp Designed to teach students advanced golf skills, rules, and strategies to be used in inter-class tournaments. Evaluates individual golf game strengths and weaknesses. Emphasizes playing according to USGA rules. Taught on block only.</p>	<p>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.</p>	<p>PES 1231 Soccer II I:0.5:I.5 Su, F, Sp Expands upon and further develops the fundamental skills, techniques, tactics and rules from the Soccer I course. Covers the following topics: defensive soccer tactics, offensive soccer tactics, soccer systems 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 (Federation Internationale de Football Association) and (United States Soccer Federation) USSF.</p>
<p>PES 1135 GE Archery I I:0.5:I.5 F, Sp For beginners. Covers basic concepts of archery, both for target shooting and field hunting. Includes use of re-curve and compound bows. Studies the language of archery. Includes laboratory sessions (both indoors and outdoors when weather permits), video instruction, demonstration, and shooting practice. Taught on block only.</p>	<p>PES 1201 GE Basketball II I:0.5:I.5 F, Sp Teaches advanced skills of shooting, passing, ball handling, rebounding, etc. Stresses fun and competition. Provides regular scrimmage time. Includes an exciting class tournament during the course.</p>	<p>PES 1234 GE Soccer Club Team I:0.5:I.5 Su, F, Sp • Prerequisite(s): Instructor approval For men's and women's soccer team members. Designed for participation in competitive practice and team play. Advanced fundamentals and skills will be drilled. May be repeated once for credit toward graduation.</p>
<p>PES 1136 GE Archery II I:0.5:I.5 F, Sp Builds upon the basic concepts learned in PES 1135. Covers skills, fundamentals, conditioning, history, and rules of the sport. Includes lecture, labs, demonstration and practice (outdoors when weather permits), and video presentations. Taught on block only.</p>	<p>PES 1210 GE Volleyball I I:0.5:I.5 F, Sp Covers basic concepts of volleyball. Teaches fundamentals and rules of the sport. Introduces new skills such as sprawl and roll. Includes labs, lectures, audio-visual, practice and inter-class participation.</p>	<p>PES 1254 GE Lacrosse Club Team I:0.5:I.5 Su, F, Sp For men's lacrosse club team. Presents an overview of the history of lacrosse. Includes practice and competitive team play. Requires demonstrated advanced skills through tryouts. May be repeated once for credit.</p>
<p>PES 1145 GE Bowling I I:0.5:I.5 F, Sp Teaches bowling skills and rules to beginning bowlers. Improves skills of advanced bowlers. Covers scoring procedures. Follows National Bowling Council techniques and rules of American Bowling Congress and Women International Bowling Congress. Includes lecture and participation.</p>	<p>PES 1211 GE Volleyball II I:0.5:I.5 F, Sp Teaches advanced volleyball skills and team concepts for intermediate volleyball players. Reviews fundamentals and rules. Covers 6-person, 3-person, and 2-person volleyball, Includes labs, lectures, audio-visual, practice and scrimmages.</p>	<p>PES 1260 Ice Hockey I:0.5:I.5 Su, F, Sp Teaches basic ice hockey skills including: skating (forwards, backwards, crossovers, spins, starts and stops), Stick handling, Passing, Shooting. Students will also learn and practice offensive and defensive positioning, culminating in participating in several hockey games.</p>
<p>PES 1146 GE Bowling II I:0.5:I.5 F, Sp For those with intermediate bowling skills. Teaches techniques of advanced bowling. Studies rules and strategies. Enhances enjoyment, commitment, and performance of the sport of bowling.</p>	<p>PES 1212 GE Volleyball III I:0.5:I.5 F, Sp Teaches volleyball skills and team concepts for advanced players. Briefly reviews fundamentals and rules. Teaches variable-size team competition. Includes labs, lectures, audio-visuals, practice, and scrimmages.</p>	<p>PES 1300 GE Swimming I I:0.5:I.5 F, Sp For non-swimmers and others interested in improving and maintaining their swimming ability. Students progress at their own pace. Covers breathing techniques, self rescue, floating, back floating, back stroke, breast stroke and front crawl. Students who pass off all of the required skills early will be put on an individualized swimming workout schedule. Individual attention will be given to students as needed.</p>
<p>PES 1155 GE Beginning Fencing I:0.5:I.5 F, Sp Teaches fencing strategy, analysis, focus form and precision. Provides aerobic exercise and analyzes fencing style. Completers should be familiar with competition rules, competition officiating and will participate in class tournament at the novice level.</p>	<p>PES 1214 GE Volleyball Club Team I:0:2 Su, F, Sp • Prerequisite(s): Instructor approval For men's volleyball club team. Includes practice and competitive team play. Requires demonstrated advanced skills through try-outs. May be repeated once for credit.</p>	<p>PES 1301 GE Swimming II I:0.5:I.5 F, Sp For swimmers who have a working knowledge of the basic strokes and are interested in improving their level</p>
<p>PES 1200 GE Basketball I I:0.5:I.5 F, Sp An introductory course designed to teach the basic skills of shooting, passing, ball</p>	<p>PES 1230 GE Soccer I I:0.5:I.5 F, Sp Covers the basic concepts of soccer including ball control, heading, trapping, passing or dribbling and shooting. Teaches the rules of the game and the strategy of both defense and offense. Includes lecture, media, demonstration and actual game situations. Stresses coordination, balance, agility, speed, endurance, team effort and team play.</p>	

NUTR
PES

Course Descriptions

of swimming. Provides an individually designed workout schedule for each student. Emphasizes stroke technique work on an individual basis.

PES 1315 **Water Aerobics** **GE**
1:0.5:1.5 **F**

For students interested in an alternative aerobics class. Introduces aerobic conditioning principles designed to develop the cardiovascular - respiratory systems, strength, and coordination.

PES 1405 **Women's Safety Awareness and Self-Defense** **GE**
1:0.5:1.5 **Su, F, Sp**

A beginning course in women's self-awareness, self-empowerment, and self-defense. Emphasizes environmental awareness and strategies in avoiding dangerous situations. Teaches self-defense techniques that can be used in a crisis situation.

PES 1410 **Introduction to Tai Chi** **GE**
1:0.5:1.5 **F, Sp**

Introduces to students an ancient martial exercise developed in China. Studies an effortless, low-impact, rhythmical ballet-like exercise that is a superior activity for all age levels. Stresses slow respiration and balanced, relaxed, slow postures. Promotes increased blood circulation, joint and bone strength. Focuses on the Yang style short form solo exercise which may be an effective means of self-defense.

PES 1415 **Survey of Martial Arts** **GE**
1:0.5:1.5 **Su, F, Sp**

Introduces and surveys many of the popular styles of martial arts. Includes brief background of history, learning fundamental kicks, strikes, blocks, holds and other moves/techniques of the following martial arts: Kenpo Karate, Jiu Jitsu, Muay Thai (kick boxing), Tai Chi, and self-defense strategies.

PES 1425 **Jiu Jitsu I** **GE**
1:0.5:1.5 **F, Sp**

A beginning class in the martial art of Jiu Jitsu with an emphasis on Russian Sambo Jiu Jitsu also known as Combat Jiu Jitsu. Learn the basics of Jiu Jitsu including: grappling, take downs, escapes, arm locks, etc.

PES 1426 **Jiu Jitsu II** **GE**
1:0.5:1.5 **Su, F, Sp**

• Prerequisite(s): PES 1425

An intermediate class in the marital art of Jiu Jitsu. Practices and improves on the basics of Jiu Jitsu including: grappling, take downs, escapes, and arm locks.

PES 1435 **Kenpo Karate I** **GE**
1:0.5:1.5 **Su, F, Sp**

A beginning course in the martial art of Kenpo Karate. Introduces basic blocks, punches, strikes, and kicks. Emphasizes self defense techniques.

PES 1436 **Kenpo Karate II** **GE**
1:0.5:1.5 **Su, F, Sp**

• Prerequisite(s): PES 1435 or Yellow Belt rank in Kenpo Karate

An intermediate course in Kenpo Karate for the student with the rank of yellow belt and above. Students work at their own pace and progress toward the next rank in the Kenpo system.

PES 1440 **Aikido** **GE**
1:0.5:1.5 **Su, F, Sp**

Covers beginning techniques to the art of self-defense. Teaches different holds and locks, using various forms of nonresistance in order to defend and prevent injury from an opponent.

PES 1460 **Kickboxing I** **GE**
1:0.5:1.5 **F, Sp**

A beginning course in the martial art of kickboxing (Muay Thai). Discusses the history of Muay Thai, ring strategy, and the rules of the ring. Includes leg strengthening, shadow boxing, stretching, punches, elbows, kicks, and knees while contact is made to bags and kicking shields. Teaches self-defense, ring strategy and the requirements to advance to the second level of kickboxing (Muay Thai). Includes intense aerobic workout.

PES 1670 **Ice Skating** **GE**
1:0.5:1.5 **F, Sp**

Teaches basic ice skating skills including stroking, turns, crossovers, spins, and jumps. Each student will learn a simple choreographed free style program set to music.

PES 200R **Intercollegiate Athletics** **GE**
1:0.5:1.5 **F, Sp**

• Prerequisite(s): Coach approval

May be repeated once for credit towards graduation.

PES 201R **Elite Precision Team** **GE**
1:0.5:1.5 **Su, F, Sp**

• Prerequisite(s): Audition required

For students selected to be members of the Elite Precision Team. Includes performances at home basketball games, competition, and the year end showcase. Studies dance styles such as jazz, funk, hip hop, and lyrical. May be repeated once for credit towards graduation.

PES 2050 **Aerobic Instructor Training** **GE**
2:2:0 **F, Sp**

For students interested in becoming Certified Aerobic Instructors. Teaches basic concepts of anatomy, physiology, components of fitness, nutrition, and exercise injuries. Emphasizes the use of music, cueing and choreography. Prepares students for the AFAA Certification test.

PES 2200 **Officiating Baseball and Softball** **GE**
2:2:0 **F**

For students wishing to officiate in interscholastic, intramural, and community games. Teaches rules, techniques, problems and procedures in officiating. Gives National Federation or OSA examinations. Introduces softball/baseball National Federation publications such as Rule Book, Case Book, Umpires Manual and Rules (Simplified and Illustrated). Utilizes lecture, media, guest lecturers, practical game situations, etc.

PES 2210 **Officiating Basketball** **GE**
2:2:0 **F, Sp**

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 **Officiating Volleyball** **GE**
2:2:0 **F**

Provides students with the necessary skills to officiate the game of volleyball. Teaches both collegiate and high school rules and protocol. Provides students with a working understanding of officiating volleyball, as well as the opportunities for employment, through match observations and practical experience. Prepares students for certification as high school entry level official.

PES 2300 **Introduction to Fundamentals of Athletic Coaching** **GE**
2:2:0 **F, Sp**

For coaches of youth and other interested community members. Overviews methods, teaching techniques, coaching philosophies and practical experiences in both team and individual sports. Includes lecture and demonstration, media presentations, game scouting, and field project and class journals. Stresses motivation, selection, discipline, management, and the technical aspects of coaching.

PES 2500
Sports Medicine
3:3:0 **F, Sp**
 Teaches recognition, cause, prevention and treatment of sports-related injuries. Provides practical experience in taping, injury evaluation, and rehabilitation.

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 and Recreation
3:3:0 **Su, F, Sp**
 Introduces the study of physical education. Studies the history and philosophy of the field of Physical Education. Analyzes problems in areas covered under the umbrella of physical education. Explores the physical education/sport sub-disciplines and related career and employment opportunities in this area.

PES 281R
Cooperative Work Experience
2 to 9:1:5 to 40 **Su, F, Sp**
 • Prerequisite(s): Approval of Cooperative Coordinator
 Designed for Physical Education and Recreation majors. Provides paid on-the-job experiences in the student's major. Includes student, employer, and coordinator evaluations, on-site work visits, written assignments, and oral presentations. Provides experience in writing and completing individualized work objectives that improve present work performance. Credit is determined by the number of hours a student works during the semester. May be repeated for a maximum of 16 credits.

PES 3220
Teaching and Coaching Basketball
2:2:0 **Sp**
 Designed for those planning to coach basketball. Overviews methods, teaching techniques, coaching philosophies and practical experiences in both team and individual sports. Includes lecture and demonstration, media presentations, game scouting and field project, and class journals.

PES 3230
Teaching and Coaching Football
2:2:0 **F**
 Prepares students for coaching football. Covers basic offensive and defensive philosophy and techniques. Covers organization, equipment, conditioning, and safety.

PES 3240
Teaching and Coaching Volleyball
2:2:0 **F**
 For any coach, volleyball player or fan interested in learning more about one of the fastest growing sports in America. Teaches how to coach volleyball. Presents principles that coaches or players can use as a foundation to create their own game. Develops a greater appreciation for volleyball. Stresses the skills, fundamentals, rules, teaching techniques, and coaching strategies behind the sport. Includes labs, videos, and guest lecturers.

PES 3250
Teaching and Coaching Aerobics and Cheerleading
2:2:0 **F, Sp**
 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.

PES 3270
Methods of Teaching Fitness
3:3:0 **F, Sp**
 • Prerequisite(s): PES 1097
 Teaches key concepts related to exercise testing and program design for healthy populations and populations with controlled disease. Explores concepts in team, group, and individualized assessment and programming. Emphasizes principles in anatomy, exercise physiology, behavior modification, motivation, health promotion, fitness assessment and prescription. Encourages students to sit for the ACE, IDEA, ACSM HFY, NSCA CPT, or similar certification exams upon course completion.

PES 3300
Sports Injuries
2:2:0 **Sp**
 • Prerequisite(s): ZOOL 1090
 Instructs students in the prevention and treatment of fitness, sport and physical education/performance injuries. Includes basic treatment, taping, First Aid/CPR training and certification.

PES 3500
Kinesiology
3:3:0 **F, Sp**
 • Prerequisite(s): ZOOL 1090 or ZOOL 2320
 Studies human movement. Includes

the structure of the human body and fundamental mechanics. Emphasizes kinesiological and mechanical analysis.

PES 3550
Motor Learning and Development
3:2:2 **F, Sp**
 • Prerequisite(s): Permission of instructor
 Examines motor and cognitive characteristics of individuals involved in learning or performing motor skills. Examines conditions that influence learning. Analyzes how humans learn complex movement skills and control voluntary, coordinated movement. Analyses the basic psychological processes involved in learning and control of movement and their effect on instruction and practice conditions for the learner. Studies motor development and its effect on skill acquisition.

PES 3700 (Cross-listed with: ZOOL 3700)
Exercise Physiology
4:3:3 **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 **Su, 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 **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 and Recreation
3:3:0 **Su, F, Sp**
 • Prerequisite(s): PES 2700
 Surveys applied concepts of ethical codes and legal liability. Explores systems used by community and adventure education programs for aspects protective of participants, staff, and institutions.

Course Descriptions

PES 4000

Exercise Testing and Prescription

3:2:3 **Su, 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 **Su, F, Sp**
 • Prerequisite(s): ZOOL 1090, PES 3270

Addresses key issues relative to fitness across the lifespan; including, fitness in youth, adult fitness, aging, physical activity program design and implementation, attrition, behavior modification, and the role of exercise in disease prevention and/or management.

PES 4300

Research Methods in Physical Education and Recreation

3:3:0 **Su, 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 **Su, 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 **Su, F, Sp**
 • Corequisite(s): PES 4400

Provides complementary field experiences for students taking PES 4400 (Promoting Physical Activity in the Community).

PES 482R

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 4900

Exercise Science Senior Practicum

3:3:0 **Su, F, Sp**
 • Prerequisite(s): PES 3700, PES 4000, and PES 4100

Emphasizes application of physical activity promotion in a variety of settings. Options include service learning activities, assessing athletes, working in clinical settings that address assessment and exercise prescription in the elderly, cardiac and pulmonary rehabilitation, and outpatient physical therapy.

PES 4950

Senior Seminar

2:2:0 **Su, 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.

PESM—PUBLIC AND EMERGENCY SERVICES MANAGEMENT

PESM 3000

Introduction to Homeland Security--Theory and Practice

3:3:0 **Su, F, Sp**
 • Prerequisite(s): FSF 1000 or departmental approval

• Corequisite(s): None
 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.

PESM 3300

Public Program Administration

3:3:0 **F; DE**
 • Prerequisite(s): FSF 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.

PESM 3500

Analytical Research Approaches to Public Emergency Services

3:3:0 **Sp; DE**
 • Prerequisite(s): FSF 1000 or departmental approval

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.

PESM 3600

Customer and Public Relations for the Emergency Services

3:3:0 **Su, F, Sp**
 • Prerequisite(s): FSF 1000 or department approval

• Corequisite(s): None

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.

PESM 3700

Master Planning for Public Emergency Services

3:3:0 **Sp; DE**
 • Prerequisite(s): FSF 1000 or departmental approval

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.

PESM 3800

Public Administration and Emergency Management

3:3:0 **F; DE**
 • Prerequisite(s): FSF 1000 or departmental approval

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.

PESM 4100

Health and Safety Program Management

3:3:0 **Su; DE**
 • Prerequisite(s): PESM 3300

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.

Course Descriptions

PESM 4200

Principles of Disaster and Emergency Management

3:3:0 Su, F, Sp

- Prerequisite(s): FSF 1000 or departmental approval
- Corequisite(s): None

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.

PESM 4500

Managing Emergency Medical Services

3:3:0 F; DE

- Prerequisite(s): PESM 3300

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.

PESM 4900

Advanced Seminar in Public Emergency Services Leadership

3:3:0 Sp

- Prerequisite(s): PESM 3300

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.

PETE—PHYSICAL EDUCATION TEACHER EDUCATION

PETE 2100

Skill Analysis I

3:2:2 F

Analyzes fundamental motor skills, movement concepts, and selected fundamental sport skills. Trains students to give effective feedback to individuals learning fundamental motor skills, movement concepts, and selected fundamental sport skills. Teaches methods for developing individualized learning through the use of developmentally appropriate progressions to move students from the pre-control level, through the control, utilization, and proficiency levels for each skill.

PETE 2200

Skill Analysis II

3:2:3 Sp

- Prerequisite(s): PETE 2100

Builds on concepts covered in PETE 2100. Analyzes a variety of individual and dual sport skills, rules, and strategies. Prepares pre-service physical educators to effectively teach current, as well as yet to be developed, individual and dual sports through analysis of concepts common to individual and dual games and sports. Analyzes and develops developmentally appropriate teaching progressions for individual and dual sport skills. Examines rules and strategies for a variety of individual and dual games and sports.

PETE 2300

Skill Analysis III

3:2:3 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 3100

Physical Education Pedagogy

3:2:3 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 of a variety of possible adaptations for individuals with physical, sensory, emotional, and/or intellectual impairments.

PETE 4200

Methods of Teaching Elementary Physical Education

3:2:3 Su, F, Sp

- Prerequisite(s): PETE 3100
- Corequisite(s): PETE 4210

Promotes the analysis and development of elementary physical education curricula. Applies curricular concepts through reading, lecture/discussion, movement, self-appraisal, and teaching children. Applies educational principles and techniques necessary for effective teaching in the elementary school. Emphasizes appropriate selection of curriculum content and transition to teaching/learning models. Offers unit and lesson planning and evaluation.

PETE 4210

Elementary Physical Education Field Experience

1:0:3 Su, F, Sp

- Prerequisite(s): PETE 3100
- Corequisite(s): PETE 4200

Analyzes elementary physical education curricula through guided observations and controlled teaching experience. Applies curricular concepts through a guided observation, self-appraisal, lesson/unit planning, and teaching children.

PETE 4250

Methods of Teaching Secondary Physical Education

3:2:3 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 3410 and PES 3420, or permission of instructor
- Corequisite(s): PES 4200

Analysis of secondary physical education

PESM

PETE

Course Descriptions

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
3:2:3 **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 482R
Physical Education Teacher Education Internship
I 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 4900
Student Teaching Seminar for Physical Education
2:2:0 **Su, F, Sp**
 • Prerequisite(s): Admission to Professional Education Program. Successful completion of all professional education and content courses.
 • Corequisite(s): EDSC 4850

Examines each student's teaching experiences. Encourages students to integrate learning from each all professional education and content courses. Discusses concerns related to current teaching experiences as well as future experiences. Investigates job seeking criteria and opportunities. Supports pre-service teachers during their student teaching experience.

PHIL—PHILOSOPHY

PHIL 1000** **HH**
Introduction to Philosophy
3:3:0 **Su, F, Sp**

Designed to investigate major philosophical ideas from the Pre-Socratic era to the present. Students should develop philosophical skills through supervised analysis of readings in epistemology (knowledge), metaphysics (reality), ethics (values), and social philosophy. Emphasizes the articulation, assessment, and discussion of fundamental

religious, social, political issues through class discussions, lectures, media, and writing projects.

PHIL 100H **HH**
Introduction to Philosophy
3:3:0 **Su, F, Sp**
 • Prerequisite(s): ENGL 1010

Designed to investigate major philosophical ideas from the Pre-Socratic era to the present. Students should develop philosophical skills through supervised analysis of readings in epistemology (knowledge), metaphysics (reality), ethics (values), and social philosophy. Emphasizes the articulation, assessment, and discussion of fundamental religious, social, political issues through class discussions, lectures, media, and writing projects.

PHIL 120R
Philosophy Forum
1:1:0 **F, Sp**

Introduces students to the interchange of traditional and contemporary philosophical issues in various venues. Provides enriched learning situations in which students may interact with noted guest scholars. Includes lectures, symposia, field trips, outreach projects, and activities oriented to engage students in philosophical discourse. Meets in conjunction with the Philosophy Club. Grading is on a credit/no credit basis. May be repeated for a total of four credits toward the AA/AS, BA/BS degree.

PHIL 1250 **HH**
Logical Thinking and Philosophical Writing
3:3:0 **F, Sp**

Introduces fundamental elements of logical thinking and applies these to philosophical writing. Practices written applications of subjects and concepts such as (but not limited to) definition, argument, fallacy, deduction, validity, soundness, categorical syllogism, induction, causal argumentation, hypothesis, confirmation, and probability.

PHIL 130R
Ethics Forum
1:0:3 **Su, F, Sp**

Introduces students to a wide variety of public policy and ethical issues. Provides enriched learning situations in which students are exposed to noted guest scholars and other lecturers. Includes attendance and participation at specified events by engaging in discussion of relevant issues. May be repeated for a maximum of 3 credits toward graduation.

PHIL 1610 **HH**
Introduction to Western Religions
3:3:0 **F, Sp**

For students majoring in humanities related disciplines and other students interested in the academic study of religion. Presents the comparative study of the history, ritual, "theology," and ethical beliefs of the major western religions including Judaism, Christianity, Islam, Zoroastrianism, Baha'i,

and nontraditional religious belief in the western world. Explores similarities and differences between them by examining the primary sources and sacred texts along with the unique beliefs and practices of each tradition.

PHIL 1620 **HH**
Introduction to Eastern Religions
3:3:0 **F, Sp**

For students majoring in humanities-related disciplines and other students interested in the academic study of religion. Presents the comparative study of the history, ritual, "theology," and ethical beliefs of the major eastern religious traditions including Hinduism, Jainism, Buddhism, Sikhism, Taoism, Confucianism, and Shintoism. Explores similarities and differences between them by examining the primary sources and sacred texts along with the unique beliefs and practices of each tradition.

PHIL 2050** **IH**
Ethics and Values†
3:3:0 **Su, F, Sp; DE**

• Prerequisite(s): ENGL 1010
 A demanding transfer course, designed to challenge students to (1) explore and clarify their values; (2) critically read works of philosophy, literature, religion, and history toward understanding the basis of their ethical views; and (3) read, study, research, discuss, and write about difficult ethical issues. Focuses on issues of good vs. evil, justice vs. injustice, equality vs. inequality, and the necessity of defining and examining happiness and values. This confrontation with major philosophical concepts and systems is intended to engage students in serious reflection on issues of ethics and values as they relate to the students' own lives.

PHIL 205H **IH**
Ethics and Values†
3:3:0 **F, Sp**

• Prerequisite(s): ENGL 1010
 Systematically explores the core issues in the realm of ethics and values, especially as they relate to life in the contemporary world. Focuses on good versus evil, justice versus injustice, and the necessity of ideals and equality. Emphasizes reading and writing skills at a more challenging level.

PHIL 2110 **HH**
Ancient Philosophy
3:3:0 **F**

• Prerequisite(s): PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H or permission of the instructor
 Provides students with an overview of the history and evolution of philosophical thought from its origins in pre-Socratic philosophers through Aristotle. Reviews the influence of pre-Socratic ideas upon the work of Plato and Aristotle and the impact of Greek philosophy on the evolution of Western philosophy, science, and culture.

Course Descriptions

PHIL

PHIL 2130 **Medieval Philosophy** **HH**
3:3:0 **Sp**
 • Prerequisite(s): PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H or permission of the instructor
 Provides an overview of the development of philosophical thought from the Hellenistic period through Thomas Aquinas. Covers the influence of Ancient Greek philosophy and the impact of Christianity upon the evolution of Western philosophical thought. Carefully considers the conceptions of God, nature, the human being, and morality advanced during this period; along with the profound impact Medieval philosophy had on the European Enlightenment and modern philosophy.

PHIL 2150 **Early Modern Philosophy** **HH**
3:3:0 **Sp**
 • Prerequisite(s): PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H or permission of the instructor
 Provides an overview of the history and evolution of ideas in Western culture during the modern period of philosophy from Descartes through Kant. Focuses on the dialogue between rationalism and empiricism, and examines Kant's attempt to bridge the gap between these two approaches.

PHIL 281R **Internship**
1 to 6:0:5 to 3:0
 • Prerequisite(s): By permission from departmental chair
 Allows philosophy students to receive credit for service as an intern in a governmental, not for profit, or private agency apart from their regular employment. Provides practical and research development in selected areas of service related to students' academic and/or professional interests or goals. Internship must be supervised by agency representative. Must be approved by philosophy internship advisor and department chair and written contracts must be completed and signed. Repeatable for a maximum of six credit hours toward graduation.

PHIL 290R **Independent Study** **GH**
1 to 3:0 to 3:0 to 12 **Su, F, Sp**
 Provides independent study as directed in reading and individual projects. Request must be submitted for approval by the department. Students may do independent study for one, two or three credits with a limit of three credits applying toward graduation with an AA/AS degree.

PHIL 295R **Directed Readings** **GH**
1 to 3:0 to 3:0 to 12 **Su, F, Sp**
 Provides an opportunity for second year students to do in-depth research within the discipline of Philosophy. Study is limited to advanced work beyond that which can be completed in existing, available classes. A proposal must be submitted and approved

by the department prior to enrollment.

PHIL 3000 **Formal Deductive Logic** **Sp**
3:3:0
 • Prerequisite(s): PHIL 1000 or PHIL 2050 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** **F**
3:3:0
 Introduces students to various themes in feminist philosophy. Focuses on the concepts of sex and gender, including such issues as the nature, explanatory import and normative implications of biological sex differences, the sex/gender distinction, the idea of gender as a social construct, the structure and impact of gender oppression and the nature and value of the norms of femininity and masculinity.

PHIL 3160 **Gender Values Knowledge and Reality** **Su, F, Sp**
3:3:0
 • Prerequisite(s): PHIL 2050
 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** **F**
3:3:0
 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** **Not 07-08**
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** **HH**
3:3:0 **Sp**
 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** **Not 07-08**
3:3:0
 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** **F**
3:3:0
 • Prerequisite(s): ENGL1010 or PHIL 2050
 Introduces students to various philosophical themes and figures unique to classical American Philosophy and American Pragmatism. Focuses on assorted thematic topics characteristic of American Pragmatism, as well as the work of the American transcendental school and various philosophical writings from American women, such as Jane Addams, and African-American philosophers, such as Alain Locke.

PHIL 3510 **Business and Professional Ethics[†]** **F**
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** **Not 07-08**
3:3:0
 • Prerequisite(s): PHIL 2050
 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.

Course Descriptions

PHIL 3530 **HH**
Environmental Ethics
3:3:0 **Sp**
 • Prerequisite(s): PHIL 2050 or PHIL 205H
 Presents a comprehensive, balanced introduction to the field of environmental ethics. Examines a variety of national and international environmental issues. Challenges students to think and write critically about classic and contemporary works on ethics and the environment. Analyzes ethical, scientific, aesthetic, political, economical and religious perspectives pertaining to the environment.

PHIL 3540 (Cross-listed with: RLST 3540)
Christian Ethics
3:3:0 **Not 07-08**
 • 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 **F**
 • Prerequisite(s): PHIL 1000 or PHIL 2050 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 (Cross-listed with: RLST 3610)
Introduction to Christian Theology
3:3:0 **Not 07-08**
 • Prerequisite(s): PHIL 1610
 Examines key developments and conceptions in Christian theology through historical and conceptual methodologies.

PHIL 3650 (Cross-listed with: RLST 3650)
Approaches to Religious Studies
3:3:0 **Sp**
 • Prerequisite(s): PHIL 2050
 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
 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.

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 2050
 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 **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.

PHIL 3810
Existentialism and Phenomenology
3:3:0 **F**
 • Prerequisite(s): PHIL 2050
 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 2050, or PHIL 1000, or permission of the 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 thematics and skills in philosophy.

PHIL 386R
Topics in Ancient Philosophy
3:3:0 **Su, F, Sp**
 • Prerequisite(s): PHIL 2050 or PHIL 1000 or permission of the 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 **F, Sp**
 • Prerequisite(s): PHIL 1000 or PHIL 2050 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 **Su**
 • Prerequisite(s): ENGL 1010, PHIL 1000, or PHIL 2050
 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 **Sp**
 • Prerequisite(s): PHIL 1000, or PHIL 2110, or PHIL 2150, or permission from 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. Bolzano, Gottlob Frege, Ludwig Wittgenstein, Rudolph Carnap, G.E. Moore, J.L. Austin, Gilbert Ryle, W.V.O. Quine, and Fredrich Waismann. Studies methods of movements such as Logical Empiricism, and Ordinary Language Philosophy. Explores views such as Logicism, Logical Atomism, Holism, Verificationism, Logical Behaviorism, Psychologism, Nominalism, and Realism.

PHIL 4150

History of Continental Philosophy

3:3:0

Not 07-08

- 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

Not 07-08

- 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 07-08

- Prerequisite(s): PHIL 1000 or PHIL 2050 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 07-08

- Prerequisite(s): PHIL 1000 or PHIL 2050 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, meaning, reference and descriptions, names and demonstratives, speech acts, metaphor and private language. Includes the study of such philosophers as W.V.O. Quine, A Tarski, D. Davidson, J. Searle, J. Derrida, C. Levi-Strauss, F. Saussure, L. Wittgenstein, K. Donnellan, S. Kripke, D. Kaplan, H.P. Grice, B. Russell, and P.F. Strawson.

PHIL 450R

Interdisciplinary Senior Ethics Seminar

3:3:0

F, Sp

- Prerequisite(s): Instructor consent

For integrated studies majors and other interested students. Addresses ethical issues dealing with discipline specific subject matter, i.e., nursing, behavioral, physical, social sciences, etc. Subject matter will vary each semester. Taught by Philosophy faculty in cooperation with faculty of appropriate departments. Repeatable three times for credit with different subjects. See Philosophy Department office for specific topics.

PHIL 451R

Ethical Theory Seminar

3:3:0

F

- Prerequisite(s): PHIL 2050

Offers detailed investigation of selected ethical theories central to the Western philosophical tradition. Repeatable up to 12 credit hours with different topics.

PHIL 481R

Internship

1 to 6:0:5 to 30

- Prerequisite(s): By permission from departmental chair

Allows philosophy students to receive credit for service as an intern in a governmental, not for profit, or private agency apart from their regular employment. Provides practical and research development in selected areas of service related to students' academic and/or professional interests or goals. Internship must be supervised by agency representative. Must be approved by philosophy internship advisor and department chair and written contracts must be completed and signed. Repeatable for a maximum of six credit hours toward graduation.

PHIL 490R

Independent Study

1 to 3:0 to 3:0 to 12

Su, F, Sp

- Prerequisite(s): Departmental Approval

Provides independent study as directed in reading and individual projects. May be repeated for up to 6 total credits toward graduation.

PHIL 4910

Philosophy Research Capstone

3:3:0

F, Sp

- Prerequisite(s): PHIL 1250, 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

Sp

- Prerequisite(s): PHIL 1000, PHIL 2050, or instructor's approval

Examines advanced topics philosophy. Examples include ancient theories of political constitution, continental rationalism, empiricism, personal identity, free will, theories of truth and modal logic. May be repeated for a maximum of 9 credits toward graduation.

PHSC

PHSC—PHYSICAL SCIENCE

PHSC 1000

Survey of Physical Science

3:3:0

Su, F, Sp; DE

Surveys the exciting world of science and explains the basic scientific laws and models by which the physical universe may be understood. Stresses historical aspects and the impact of physical science on modern society. Draws topics from the fields of physics, chemistry, geology, meteorology and astronomy. Uses lectures, dramatizations, audio-visual presentations, and demonstrations.

PHSC 281R

Cooperative Work Experience

2 to 9:1:5 to 40

Su, F, Sp

- Prerequisite(s): Approval of Cooperative Coordinator

Designed for Physical Science majors. Provides paid work experiences in the student's major. Course content is individualized, with students setting objectives in consultation with their faculty coordinator and their on-the-job supervisor. Credit is determined by the number of hours a student works during the semester.

Course Descriptions

PHYS—Physics

PHYS 1010 **PP**
Elementary Physics
3:3:0 **Su, F, Sp**

• Prerequisite(s): MAT 1010
 For students interested in a one-semester survey physics course and students in Allied health programs. Covers the fundamentals of classical and modern physics. Includes mechanics, fluids, heat, waves and sound, electricity and magnetism, light, optical, relativity, atomic and nuclear physics. Includes lectures, classroom interaction, demonstration, and problem solving.

PHYS 1040 (Cross-listed with: ASTR 1040) **PP**
Elementary Astronomy
3:3:0 **Su, F, Sp; DE**

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** **PP**
Cultural Astronomy in Our Lives
3:3:0 **F, Sp**

For those interested in learning about the astronomical realm around us and those having a special interest in anthropology. Explores the visible sky as seen with the naked eye. Presents examples of cultural interpretations of the sun, moon, planets and stars, methods of keeping calendars, and changes that occur through the seasons. Studies the motions

of the planets, including the earth, and changes in the sky from different latitudes. Investigates how astronomy has impacted the lives of people throughout the ages and around the world. Includes extensive use of the UVSC planetarium, nighttime observation, illustrated lectures, and class demonstrations.

PHYS 1075
Honors Cultural Astronomy in Our Lives Laboratory
1:0:3 **On Sufficient Demand**

• Prerequisite(s): Instructor permission required
 • Corequisite(s): PHYS 107H
 Studies ancient southwestern native astronomy in correlation with modern astronomy. Includes a four day trip to Hovenweep, Chaco Canyon, and Mesa Verde Anasazi sites.

PHYS 107H **PP**
Cultural Astronomy in Our Lives
3:3:0 **On Sufficient Demand**

• Corequisite(s): PHYS 1075
 For those interested in learning about the astronomical realm around us and those having a special interest in anthropology. Explores the visible sky as seen with the naked eye. Presents examples of cultural interpretations of the sun, moon, planets and stars, methods of keeping calendars, and changes that occur through the seasons. Studies the motions of the planets, including the earth, and changes in the sky from different latitudes. Investigates how astronomy has impacted the lives of people throughout the ages and around the world. Includes extensive use of the UVSC planetarium, nighttime observation, illustrated lectures, and class discussion.

PHYS 1080 **PP**
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 **F**

• Prerequisite(s): MAT 1010
 Introduces the science of sound, music and speech and the physical principles and technology used to manipulate, store and broadcast it.

PHYS 2010 **PP**
College Physics I
4:4:0 **Su, F, Sp**

• 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 **Su, F, Sp**

Designed to accompany PHYS 2010. Provides firsthand experience with the laws of mechanics, fluids, heat, thermodynamics, and data analysis.

PHYS 2020 **PP**
College Physics II
4:4:0 **Su, F, Sp**

• Prerequisite(s): PHYS 2010
 • Corequisite(s): PHYS 2025
 A continuation of PHYS 2010. Covers electricity, magnetism, waves, sound, optics, and nuclear physics.

PHYS 2025
College Physics II Lab
1:0:2 **Su, F, Sp**

Designed to accompany PHYS 2020. Provides firsthand experience with the laws of electricity, waves, optics, nuclear physics, and data analysis.

PHYS 2210 **PP**
Physics for Scientists and Engineers I
4:4:1 **Su, F, Sp**

• Prerequisite(s): MATH 1210
 • Corequisite(s): PHYS 2215
 A calculus-based treatment of introductory physics for scientists and engineers. Topics include mechanics, fluid physics, thermodynamics, vibrations, and waves. Includes 1 hour of recitation per week.

PHYS 2215
Physics for Scientists and Engineers I Lab
1:0:2 **Su, F, Sp**

Designed to accompany PHYS 2210. Provides firsthand experience with the laws of mechanics, thermal physics, vibrations, and waves. Introduces methods of scientific data analysis.

PHYS 2220 **PP**
Physics for Scientists and Engineers II
4:4:1 **Su, F, Sp**

• Prerequisite(s): PHYS 2210, MATH 1220
 • Corequisite(s): PHYS 2225
 A continuation of PHYS 2210. Covers electricity and magnetism, inclusive of Maxwell's equations. Develops theory of electromagnetic waves and optics. Presents introductory electronics and modern physics topics. Includes one hour of recitation.

PHYS 2225
Physics for Scientists and Engineers II Lab
1:0:2 **Su, F, Sp**

Designed to accompany PHYS 2220. Verifies through laboratory experience the laws of electricity and magnetism, electric circuits, and optics. Principles of data collection and analysis are emphasized.

PHYS 295R
Introduction to Independent Research
I 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
I:0:3 Sp
 • Prerequisite(s): PHYS 2210, MATH 1050, MATH 1210, PHYS 2220, MATH 1060

For secondary education students. Emphasizes physics or chemistry. Addresses pedagogical methods for student physics laboratory exercises and demonstrations. Studies currently available commercial laboratory equipment for teaching physics in a lab setting. Includes ideas and methods for building inexpensive demonstrations and lab exercises. Provides training in safe and effective use of lab equipment.

PHYS 3040
Modern Physics for Secondary Education
3:3:0 Not 07-08
 • 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 (Cross-listed with: ASTR 3050)
Astrophysics
3:3:0 Sp
 • 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:I:3 F
 • 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:I:3 Sp
 • 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 F
 • 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 F
 • 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 Sp
 • 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.

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 4100
Biophysics
3:3:I On Sufficient Demand
 • Prerequisite(s): PHYS 3740, BIOL 1610, or instructor approval

Covers the thermodynamics and statistical mechanics of biological systems, the mechanics of biologically important molecules, and the laws of fluid mechanics as applied in biological systems. Uses calculus-based mathematical models to treat specific reactions, particularly those treating biological systems as molecular machines.

PHYS 4210
Advanced Experimental Techniques
3:I: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 425R
Physics for Teachers
I to 5:I 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

Course Descriptions

approach to problem solving.

PHYS 4410

Electrostatics and Magnetism

3:3:0

• 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.

F

PHYS 4420

Electrodynamics

3:3:0

• 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.

Sp

PHYS 4510

Quantum Mechanics I

3:3:0

• Prerequisite(s): PHYS 3740, PHYS 3300

Covers postulates of quantum mechanics, state functions of quantum systems, Hermitian Operators, the Schrodinger Equation, eigenfunctions of harmonic oscillators, and particles in potential wells.

F

PHYS 4520

Quantum Mechanics II

3:3:0

• 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.

Sp

PHYS 4600

Optics

3:3:0

• 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.

Sp

PHYS 4700

Acoustics

3:3:0

• 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.

F

PHYS 4800

Solid State Physics

3:3:0

• Prerequisite(s): PHYS 3740, PHYS 4510

Explores topics relevant to the structure, behavior, and properties of crystalline materials. Includes a study of lattice

Sp

vibrations, free electrons, semiconductors, superconductivity, dielectric and ferroelectric materials and magnetism.

PHYS 490R

Seminar

0.5:0.5:0

F, Sp

Exposes students to current research topics in physics and related fields. Provides an opportunity for students to attend bi-weekly lectures presented by department faculty and invited speakers. Lectures are usually a summary of the speaker's recent research results presented at a level appropriate for junior and senior physics majors.

PHYS 492R

Topics in Physics

3:3:0

On Sufficient Demand

• Prerequisite(s): Departmental approval

Studies a chosen topic in physics. Topics vary depending upon student demand. Possible topic may be the mathematics for quantum mechanics. May be taken for a maximum of 6 credits toward graduation, but is limited to 3 credits for the BS in Physics.

PHYS 495R

Independent Research

I to 3:0:3 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 no more than nine hours of elective credit.

PHYS 499A

Senior Project

2:0:6

Su, F, Sp

• Prerequisite(s): Instructor and Departmental approval

Provides an opportunity for senior physics majors to participate in a current research project supervised by a department faculty member. Includes independent study and/or laboratory work as necessary. Culminates in the preparation of a written paper and oral presentation describing the results of the research project as required for PHYS 499B. May be taken concurrently with PHYS 499B.

PHYS 499B

Senior Thesis

I:0:3

Su, F, Sp

• Prerequisite(s): Instructor and Departmental approval

Continues PHYS 499A. Provides an opportunity for senior physics majors to present the results of a current research project supervised by a department faculty member. Includes independent study as necessary. Culminates in the preparation of a written paper and oral presentation describing the results of the research

project.

PJST—PEACE AND JUSTICE STUDIES

PJST 3000

Introduction to Peace and Justice Studies

3:3:0

Su, F, Sp

• Prerequisite(s): PHIL 2050

Introduces the student to the important literature, questions, and research programs of peace and justice studies. Explores personal, domestic, national, and international issues. Considers alternative conceptions of violence, war, terrorism, justice/injustice, and peace. Enables the student to become aware of various intellectual and professional disciplines that bear relationships to peace and justice, e.g., history, political theory, international relations, political economy, international law, environmental law, military science, mediation and negotiation.

PJST 3020

The Ethics of War and Peace

3:3:0

Su, F, Sp

• Prerequisite(s): PHIL 2050

Introduces literature concerning the ethics of conflict, war, terrorism, and peace. Considers alternative conceptions of these phenomena, as will be alternative approaches and ethical theories in respect to how conflict of various kinds might most effectively and morally be preempted or diminished. Addresses various defense theories and religious traditions' teachings about conflict, violence, and peace.

POLS—POLITICAL SCIENCE

POLS 1000

SS

American Heritage

3:3:0

F, Sp

Studies the founding of American constitutional government. Considers the cultural, economic, legal, political, and social ramifications of the Constitution of the United States.

POLS 1010

SS

Introduction to Political Science

3:3:0

F, Sp; DE

Explores the nature of politics and power. Compares constitutional systems of government with closed totalitarian systems such as the Communist Bloc nations. Examines public opinion, political communications, interest groups, party politics, ideologies, governmental institutions, bureaucracies, and government legal systems. Studies the role of violence and revolution. Emphasizes the influence of these political elements on the average citizens.

Course Descriptions

POLS 1020 Political Ideologies 3:3:0	F
Surveys the major historical and current political ideologies including liberalism, Marxism, fascism and Islamism.	
POLS 1100 American National Government 3:3:0	AS F, Sp; DE
Studies history and structure of American National Government, rights and responsibilities of citizens, political institutions, political processes, and governmental policies.	
POLS 1440 Introduction to Middle East Politics 3:3:0	Not 07-08
Studies social, historical, political and religious influences affecting the Middle East. Explores forces that motivate policy and decision-making. Examines current issues such as the Arab-Israeli conflict, political Islam, petroleum power and U.S. foreign policy. Presents profiles of selected modern Middle East states and the balance of power in the region.	
POLS 1800 Our Global Community 3:3:0	GS Sp
Examines geography, climate and topography of Western Europe, Asia, Latin America, Pacific Rim, sub-Saharan Africa and Middle/East Islamic regions. Studies the unique social, cultural, economic and political differences and resulting tensions and conflicts. Explores how historical experience affect the expectations and perceptions of selected populations.	
POLS 2100 Introduction to International Relations 3:3:0	SS F, Sp
Discusses logic of power in international relations. Studies idealistic and realistic theories of international relations. Examines reasons why nations go to war. Compares geopolitical thrust and response.	
POLS 2120 Political Parties 3:3:0	On Sufficient Demand
• Prerequisite(s): POLS 1100 or consent of instructor Examines the American political party system with special attention given to the history, campaign strategies, and ideologies of American political parties.	
POLS 2200 Introduction to Comparative Politics 3:3:0	SS F, Sp
Studies comparative politics and looks at attitudes and causes of political problems. Examines methods and means employed by selected countries to solve political problems, and studies successes and failures of different approaches. Examines the means which different nations employ to deal with political problems. Explores	

the politics, institutions, and governments of seven selected nations.	
POLS 2350 Introduction to Political Theory 3:3:0	F, Sp
Surveys the history of Western political theory from the Greeks to the 21st Century.	
POLS 3000 Political Analysis 3:3:0	F
• Prerequisite(s): (MATH 1040 or MATH 1050) and POLS 1100 Covers the analytical and quantitative methodologies used in political science and public policy research. Includes statistical analysis, database research, and writing exercises.	
POLS 3030 State and Local Government 3:3:0	F
Examines the operation and structure of American State and Local Government with special attention to the Utah experience. Explores the local political process, administrative practices, and intergovernmental relations.	
POLS 3100 Survey of International Terrorism 3:3:0	Sp
A survey course of political violence and terrorism in the modern world. Studies terrorism and other forms of political violence and how they relate to fundamentalism, such as the Shiite Islamic, and Christian identity movements in the United States and Western Europe. Examines the concept of religious and political terrorism, as well as the ideologies, tactics, and organizations common to most terrorist groups.	
POLS 3150 Executive Branch 3:3:0	F
• Prerequisite(s): POLS 1100 Studies the executive branch of American national government. Examines the basic functions, tenants, and institutions of the executive branch. Special attention given to the powers, roles, and structure of the presidency. Also analyzes the various complexities of executive politics and policies.	
POLS 3180 Public Opinion and Political Behavior 3:3:0	On Sufficient Demand
Explores the formation and role of public opinion in politics and its impact on political behavior. Topics covered are: how, and to what extent, individuals form their attitudes about politics; how researchers go about attempting to measure public opinion; the distribution and determinants of public opinion regarding a broad range of political issues; and how political attitudes affect political participation.	

POLS 3200 Legislative Process 3:3:0	F
• Prerequisite(s): POLS 1100 or POLS 1010 Examines the legislative branch of American national government. Explores concepts of legislative theory, examining basic structure, functions, powers and roles of Congress. Gives special attention to the legislative process, constitutional structure, and modern development of federal legislature.	
POLS 3250 (Cross-listed with: LEGL 3250) Introduction to Law and Politics 3:3:0	F
• Prerequisite(s): POLS 1010 or POLS 1100 Examines the relationship between law and politics. Addresses the impact politics have on the judiciary and the strengths and weaknesses of law as a means of social order. Focuses on general issues of legal and political theory and the social and political function of law.	
POLS 3300 Introduction to Public Administration 3:3:0	F
Introduces basic concepts and principles in the implementation of public policy, as opposed to the formation of public policy. Includes concepts such as chain of command, hierarchy, and span of control.	
POLS 3400 American Foreign Policy 3:3:0	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	

PJST
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Course Descriptions

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 9:1:5 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 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.

PORT—PORTUGUESE

PORT 1010 **Beginning Portuguese I** **5:5:1 F, Sp**

For those with no prior Portuguese. Emphasizes listening, speaking, and writing skills along with basic grammar, vocabulary and verb conjugations all within the cultural context of modern Brazil and Portugal. Use eclectic methodology requiring conversational exchanges.

PORT 1020 **Beginning Portuguese II** **5:5:1 F, Sp**

• Prerequisite(s): Students need equivalent knowledge of PORT 1010
Continuation of PORT 1010. Includes remaining first-year grammar and language concepts plus introduction to literature and cultural readings. Uses eclectic method of instruction, emphasizing conversational exchanges.

PORT 1050 **Intensive Portuguese for Spanish Speaker** **5:5:1 On Sufficient Demand**

• Prerequisite(s): SPAN 3050, native speaker, or permission of instructor
Intensive overview of basic Portuguese for Spanish speakers. Practices listening, speaking, reading, and writing skills as well as discusses cultural aspects of Portuguese-speaking societies. Uses an eclectic method of instruction, emphasizing conversational exchange.

PORT 2010 **Intermediate Portuguese I** **5:5:1 F**

• Prerequisite(s): Students need equivalent knowledge of PORT 1020
Reviews and builds grammar, reading, and conversation skills learned in the first year courses. Introduces readings and discussions on the history, culture, and literature of Brazil, maintaining a focus on oral proficiency.

PORT 2020 **Intermediate Portuguese II** **3:3:0 Sp**

• Prerequisite(s): Students need equivalent knowledge of PORT 2010
Continuation of PORT 2010. Includes remaining grammar and language concepts, literature and cultural readings. Emphasizes literary readings, conversational exchanges as well as creative writing.

PORT 3050 **Advanced Portuguese[†]** **3:3:0 F, Sp**

• Prerequisite(s): One year residency in Portuguese speaking country or placement test
For non-native Portuguese speakers with a fairly good mastery of basic Portuguese. Overviews basic Portuguese grammar with special emphasis on major concepts. Overviews Luso-Brazilian literatures and cultures.

PORT 3200 **Business Portuguese** **3:3:0 On Sufficient Demand**

• Prerequisite(s): Students need equivalent knowledge of PORT 3050
For those who plan to pursue a career in international business or related field, learn the business language for Portuguese, or understand Portuguese speaking cultures. Teaches Portuguese business terminology. Presents the role of Portuguese-speaking countries in a global economy. Explores how students can effectively do business with Brazilian and Portuguese companies within the framework of Lusophone cultures. Includes current materials dealing with today's issues. Taught entirely in the Portuguese language.

PORT 3520 **Brazilian Culture and Civilization** **3:3:0 On Sufficient Demand**

• Prerequisite(s): Students need equivalent knowledge of PORT 3050
Explores a multitude of aspects that construct Brazilian national identity. Completers should acquire an understanding of contemporary issues, and ethnic and economic development of Brazil, as well as historical interdependence with other nations. Presentations and class instructions conducted entirely in Portuguese.

PSY—PSYCHOLOGY

PSY 1010 SS General Psychology[†] 3:3:0 Su, F, Sp; DE

An introductory course in modern scientific psychology. Covers major domains of scientific psychology including biological foundations, sensations, perception, learning, motivation, human development and abnormal psychology. Examines major psychological and professional applications.

PSY 101H SS General Psychology 3:3:0 F

Covers major domains of scientific psychology including biological foundations, sensation and perception, learning, motivation, human development, and abnormal psychology. Examines major psychological and professional applications. Students will be expected to write at least two papers and work collaboratively.

PSY 1100 SS Human Development Life Span 3:3:0 Su, F, Sp; DE

An integrated approach to human development from conception and birth to old age and death. Causes students to examine their own growth and developmental patterns and learn to understand the characteristics of various developmental stages. Studies the major physical, cognitive and psychosocial themes and issues of human development. Includes genetics, prenatal development, birth, early/middle/late childhood, adolescence, early/middle/late adulthood, and death.

PSY 1150 (Cross-listed with: SOC 1150) Marriage/Relationship Skills 3:3:0 Sp, F

For students interested in building a lasting relationship. Examines marital research and the factors and issues that help determine whom and when to marry. Utilizes research based practices to resolve specific relationship challenges. Stresses increased understanding of desirable relationship outcomes and how to achieve them.

PSY 2250 Psychology of Interpersonal Relationships 3:3:0 Su, F, Sp

• Prerequisite(s): ENGL 1010 and PSY 1010
For Behavioral Science majors only. Integrates cognitive psychological theory in an experiential setting to build personal communication skills. Helps students better understand their interactions with others. Teaches practical skills used in personal, professional, and social relationships. Studies problem-solving models and

conflict resolution methods.

PSY 2400 Psychology of Personal Effectiveness 3:3:0 F, Sp

• Prerequisite(s): PSY 1010 and ENGL 1010
Assists students in exploring psychological theories as they apply to individual growth and adjustment.

PSY 275R Survey of Current Topics 3:3:0 On Sufficient Demand

• Prerequisite(s): (ANTH 1010 or PSY 1010 or SOC 1010) and ENGL 1010
Presents selected topic in Psychology and will vary each semester. Approaches subjects from cross-disciplinary perspective. Requires a project demonstrating competency in the specific topic. May be repeated for nine credits toward graduation.

PSY 2800 (Cross-listed with: HLTH 2800) Human Sexuality 3:3:0 Su, F, Sp

• Prerequisite(s): ENGL 1010
• Corequisite(s): ENGL 1010
Interdisciplinary course in human sexuality, exploring topics in biology, health, psychology, and sociology. Introduces basic concepts of human sexuality including anatomy, reproduction, and sexual response across the life-cycle. Studies gender roles, sexual orientation, dysfunction, and sexually transmitted disease. Examines sexual behavior from the perspective of ethics, religion, the law and education. Students assess their sexual attitudes and should be able to make responsible sexuality decisions. An elective psychology course for students pursuing a degree in Behavioral Science. Note: Due to Utah State Laws regarding sexuality education, students registering for PSY 2800 must be 18 years of age or a high school graduate.

PSY 3010 (Cross-listed with: 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.

PSY 3020 (Cross-listed with: 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.

PSY 3100 Psychology of Gender 3:3:0 F

• Prerequisite(s): PSY 1010 and (ENGL 2010 or ENGL 2020)
For Behavioral Science majors and others interested in gender issues from a psychological perspective. Examines the topic of gender behaviors and attitudes that relate to (but are not entirely congruent with) biological sex. Discusses biological influences on gender, gender differences, gender development, and the influence of gender on various dimensions of daily life.

PSY 3150 (Cross-listed with: SW 3150, LEGL 3150) Survey of Dispute Resolution 3:3:0 Sp, F

• Prerequisite(s): (PSY 1010 or SOC 1010 or SW 1010) or LEGL 1000
Offers an introduction to the most commonly practiced dispute resolution processes, including negotiation, mediation, arbitration, and litigation. Studies conflict resolution theory and explores contemporary dispute resolution policy issues. Involves participation in simulations of various dispute resolution processes, including interviewing and counseling, negotiation, mediation and arbitration.

PSY 3200 Infancy and Childhood Development 3:3:0 F, Sp

• Prerequisite(s): PSY 1010 and (ENGL 2010 or ENGL 2020)
Teaches major theories of infant and child development. Identifies the sequence of development including physical, mental, and emotional conditions. Studies special needs and exceptional children. Examines parenting styles. Emphasizes development of the 'whole child'.

PSY 3210 Adolescent Development 3:3:0 F, Sp

• Prerequisite(s): PSY 1010 and (ENGL 2010 or ENGL 2020)
Focuses on physical, social, mental and emotional development of adolescents. Examines current research regarding optimal conditions for healthy maturation and separation/individuation from parents. Addresses adjustment problems, prevention, and remedies.

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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 **Sp, F**

• Prerequisite(s): (PSY 1010 or SOC 1010) and (ENGL 2010 or ENGL 2020) and (PSY 1150 or SOC 1150)

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.

PSY 3250 (Cross-listed with: SOC 3250)

Applied Parenting

3:3:0 **Sp, F, 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.

PSY 3400

Abnormal Psychology

3:3:0 **Su, F, Sp**

• Prerequisite(s): PSY 1010 and (ENGL 2010 or ENGL 2020)

Foundation course for psychology majors. Examines the psychology of abnormal behavior, historical explanations and current biological and psychological theories of abnormal behavior. Emphasizes the description of mental disorders according to the American Psychiatric Association Diagnostic and Statistical Manual (DSM IV-R).

PSY 3410 (Cross-listed with: SW 3410, COMM 3410, LEGL 3410)

Fundamentals of Mediation and Negotiation

3:3:0 **Sp, F**

• Prerequisite(s): (PSY 1010 or SOC 1010 or SW 1010) or COMM 1050 or LEGL 1000

Prepares students to understand and participate knowledgeably on a basic level in the processes of mediation and negotiation. Improves conceptual knowledge of both processes and improves practical skills and effectiveness as a mediator and negotiator. Uses an interactive-workshop format that blends theory with simulated class role-play.

PSY 3420

Learning Memory and Cognition

3:3:0 **Su, Sp**

• Prerequisite(s): PSY 1010 and (ENGL 2010 or ENGL 2020)

Introduces students to the core concepts of learning, memory, and cognition. Includes classical and operant conditioning, modal model of memory, and higher cognitive processes. Explores animal as well as human research.

PSY 3430

Psychopharmacology

3:3:0 **Sp**

• Prerequisite(s): PSY 1010 and (ENGL 2010 or ENGL 2020)

Addresses basic principles of nervous system function with emphasis on communication between nerve cells. Focuses on therapeutic drugs as well as drugs of abuse to include mechanisms of action and behavioral effects.

PSY 3450

Physiological Psychology

3:3:0 **F**

• Prerequisite(s): PSY 1010 and (ENGL 2010 or ENGL 2020). Recommended ZOOL 1090 or higher.

Identifies major interactions between physiology and behavior. Covers physiological analysis, structures, and functions of the nervous system. Investigates topics including sensory and motor function, states of consciousness, sexual behavior, psychopathology, learning and memory.

PSY 3460

Personality Theory

3:3:0 **Su, F, Sp**

• Prerequisite(s): PSY 1010 and (ENGL 2010 or 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 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 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 1010) 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 1010 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 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
4:3:3 **Sp, F**
 • Prerequisite(s): SW 1010 and PSY 3400
 Develops knowledge of and skill in clinical interviewing. Familiarizes students with a broad range of clinical interviewing skills. Uses class discussions, video clips of master clinicians, instructor modeling, in-class practice, videotaped role plays, and class and instructor evaluations of role plays.

PSY 4010
Experimental Psychology
3:3:0 **Sp, Su, F**
 • Prerequisite(s): (ENGL 2010 or ENGL 2020) and (ANTH 1010 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 4020)
Survey Research Design
3:3:0 **Sp, Su, F**
 • Prerequisite(s): (ENGL 2010 or ENGL 2020) and (ANTH 1010 or PSY 1010 or SOC 1010) and (PSY 3010 or SOC 3010) and (PSY 3020 or SOC 3020)
 Teaches methods of conducting survey research. Includes how to construct, validate, and administer surveys; how to conduct interviews; how to report data, and how to interpret findings.

PSY 4030 (Cross-listed with: SOC 4030, 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)
 Introductory course providing practical guidance for conducting of an evaluation study from its inception, through the planning stage, to research design, data collection, data analysis and the reporting, dissemination and application of conclusions.

PSY 4040
Applied Psychology
3:3:0 **Sp, F**
 • 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
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
3:3:0 **Sp, F**
 • 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.

PSY 4150
Tests and Measurements
3:3:0 **On Sufficient Demand**
 • Prerequisite(s): (ENGL 2010 or ENGL 2020) and (ANTH 1010 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
3:3:0 **Sp, F**
 • Prerequisite(s): LEGL 3410 or PSY 3410 or SW 3410 or instructor approval
 Prepares students to understand and participate knowledgeably and effectively in the process of domestic mediation. Improves conceptual knowledge about and understanding of the domestic mediation process as well as improving practical negotiation and mediation skills. Utilizes a highly interactive workshop format that blends theory with practice in simulated class role plays.

PSY 4300 (Cross-listed with: 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.

PSY 4400 (Cross-listed with: SW 4400)
Introduction to Group Psychotherapy
3:3:0 **Su, F, Sp**
 • Prerequisite(s): (PSY 1010 or SW 1010) and PSY 3400 and (ENGL 2010 or ENGL 2020)
 Discusses group therapy theory, research applied to client assessment and outcomes, legal and ethical issues. Includes screening, assessment, treatment, evaluation, and termination of group members.

PSY 4500
History and Systems of Psychology
3:3:0 **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
3:3:0 **Sp, F**
 • Prerequisite(s): PSY 3400 and (ENGL 2010 or ENGL 2020)
 Provides an overview of the Diagnostic and Statistical Manual of mental disorders (DSM) based on clinical diagnosis. Teaches DSM based clinical diagnosis. Teaches DSM diagnoses including diagnostic criteria, prevalence rates, gender and cultural differences in prevalence and symptomatology, disease course, and differential diagnosis. Uses class discussions, videotapes of individuals with different DSM diagnoses, and case scenarios.

PSY 4660 (Cross-listed with: SOC 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

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pressure, goal definition, and debt accumulation.

PSY 4670 (Cross-listed with: SOC 4670)
Family Dynamics and Systems
3:3:0 **F**
 • Prerequisite(s): (PSY 1010 or SOC 1010) and (ENGL 2010 or ENGL 2020). SOC 1200 strongly recommended.
 Introduces students to the fundamentals of family dynamics and systems as they relate to family structure and function. Focuses on historical development, theoretical underpinnings, and applied utility of dynamics and systems. Includes boundary management, infraction, and renewal in contemporary family systems.

PSY 475R
Current Topics in Psychology
3:3:0 **On Sufficient Demand**
 • Prerequisite(s): PSY 1010 and (ENGL 2010 or ENGL 2020)
 Presents selected topic in Psychology and will vary each semester. Requires a project demonstrating competency in the specific topic. May be repeated with different topics for nine credits toward graduation.

PSY 4800 (Cross-listed with: SW 4800)
Practicum
3:3:0 **Su, Su, F**
 • Prerequisite(s): Senior standing in the Behavioral Science Department. Must have completed or be enrolled in (PSY 4300 or SW 4300) or (PSY 4400 or SW 4400). Must have instructor's consent.
 Provides an integrative classroom experience for students with a clinical interest currently working in related jobs or volunteer experiences in human service agencies or work sites. Requires minimum six hours work per week in an approved setting, and in-class study three hours per week.

PSY 481R
Senior Internship
I 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 8 credits toward graduation.

PSY 490R
Independent Studies
I to 3:I to 3:0 **On Sufficient Demand**
 • Prerequisite(s): For Behavioral Science Bachelor Degree students only. Must have the approval of the instructor and the department chair.
 For qualified students who wish to undertake a well-defined project or directed study related to an area of special interest. Requires individual initiative and

responsibility. Includes limited formal instruction and faculty supervision. Projects may include writing a publishable paper, passing a competency exam, producing an annotated bibliography, oral presentation, or other options as approved by instructor. May be repeated for a maximum of six credits.

PSY 4950 (Cross-listed with: SOC 4950)
Senior Seminar
3:3:0 **On Sufficient Demand**
 • Prerequisite(s): Senior standing in the Behavioral Science Department and (PSY 3020 or SOC 3020) and (ENGL 2010 or ENGL 2020)
 Considers contemporary issues in Behavioral Sciences from an ethical and professional perspective. Focuses on synthesis and integration of course work and other learning experiences. Requires a senior project.

REC—RECREATION

REC 1350 **GE**
Scuba Diving I
2:2:0 **Su, F, Sp**
 Teaches basic scuba diving techniques, scuba safety and use of scuba equipment in an indoor swimming pool. To certify in scuba, the student must certify independently of the course. Open Water Certification is offered as an option. Uses the Professional Association for Diving Instructions manual. Taught on block only.

REC 1351 **GE**
Scuba Diving II
2:2:0 **Su, F, Sp**
 • Prerequisite(s): REC 1350 or instructor approval
 Provides advanced knowledge of scuba techniques. Teaches skills beyond that of the Open Water Course. Teaches natural navigating, compass navigating, light salvage, deep diving, and night diving. Reviews physics laws pertaining to diving and safety procedures. Uses advanced equipment such as compasses and air lift bags. Stresses safety. Uses materials provided by PADI. Taught on block only.

REC 1500 **GE**
Canoeing I
1:0.5:1.5 **Su, F, Sp**
 Teaches basic canoeing techniques including safety, technical information, equipment, paddling skills, canoe maneuvering and help students prepare for ACA (American Canoe Association) certification.

REC 1501
Canoeing II
2:2:0 **Su, F, Sp**
 • Prerequisite(s): REC 1500 or Instructor Permission
 Prepares students to qualify to become instructors who will teach on water up to and including Class I on the International Scale of River Difficulty. Prepares students to teach the American Canoe Association's

Intro to Canoe course on flat water, and the Basic River Canoe course in a river environment and to teach students fundamental river paddling skills including boat handling, paddling technique, identifying hazards, river reading and self-rescues in moving water.

REC 1505 **GE**
Whitewater Kayaking I
2:2:0 **Su, Sp**
 • Prerequisite(s): Instructor Approval
 Teaches basic kayaking skills to the beginning kayaker. Includes roll techniques, paddle strokes, eddy turns, ferrying, dangers on the river, and rescue techniques.

REC 1506
Whitewater Kayaking II
2:2:0 **Su, F, Sp**
 • Prerequisite(s): REC 1505
 Builds on whitewater skills initially taught in Whitewater Kayaking I. Develops the skills and knowledge to assist in instruction and river rescue. Prepares students to help others learn to kayak, preparing them for ACA whitewater certification.

REC 1512 **GE**
Fly Tying I
1:0.5:1.5 **Su, F, Sp**
 For students interested in learning or perfecting fly tying skills. Discusses and demonstrates necessary fly tying tools, materials, and knots. Introduces aquatic entomology. Studies various fly types including wet fly, dry fly, nymph, and streamer. Includes hands-on experience.

REC 1513 **GE**
Fly Casting I
1:0.5:1.5 **Su, F, Sp**
 For students interested in learning or perfecting fly casting skills. Studies types and classification of fly rods and reels. Teaches the physics of casting and casting techniques. Includes hands-on experience.

REC 1517 **GE**
Board Sailing
1:0.5:1.5 **Not 07-08**
 • Prerequisite(s): Minimum swimming ability
 Covers wind theory, sailing terms, nomenclature, safety rules, site selection, and protection from the elements. Introduces sailing skills. Moves to the water to learn self-rescue techniques. Taught on block only.

REC 1521
Indoor Rock Climbing I
2:2:0 **Su, F, Sp**
 Teaches basic rock climbing skills to the beginning indoor rock climber. Includes knot tying, belaying, rappelling, fixed anchors, beginning indoor climbing, and rescue techniques. Prepares student for enjoyment of indoor climbing facilities, and introduces concepts related to sport climbing.

Course Descriptions

REC

<p>REC 1522 Indoor Rock Climbing II 2:2:0 Su, F, Sp • Prerequisite(s): REC 1521 Builds on skills and experiences gained in Indoor Rock Climbing I. Focuses on lead climbing in the indoor sport context with emphasis on higher skill development, onsite and red point techniques.</p> <p>REC 1525 GE Mountaineering 2:2:0 Su, F, Sp Covers mountaineering subjects including hiking, rock climbing, mountain camping, and mountain survival. Requires good health and fair physical condition in order to enjoy the class. Provides technical climbing and safety equipment. Students provide camping equipment (this may be rented at a low cost at the Outpost on campus), boots or shoes, clothing and leather gloves suitable for hiking and climbing. Taught on block only.</p> <p>REC 1527 GE Rock Climbing I 2:2:0 Su, F, Sp Teaches basic rock climbing skills to the beginning rock climber. Includes knot tying, belaying, rappelling, top-rope anchors and site management, beginning lead climbing, and rescue techniques.</p> <p>REC 1528 GE Rock Climbing II 2:2:0 Su, F, Sp • Prerequisite(s): Instructor Approval Teaches intermediate rock climbing skills. Includes placing passive and active anchors on simulated lead climbs, multi-pitch belaying and rappelling. Teaches self- and partner-rescuing, ascending, route finding, crack and face climbing techniques, rock shoe resoling, and an introduction to aid climbing.</p> <p>REC 1529 GE Rock Climbing III 2:2:0 Not 07-08 • 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.</p> <p>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</p>	<p>values of outdoor recreation.</p> <p>REC 1542 Wilderness First Responder 2:2:0 F, Sp Teaches advanced emergency care specific to situations encountered in a wilderness context. Prepares students for certification exam in Wilderness First Responder (WFR) or Wilderness Emergency Medical Technician Module (WEMT).</p> <p>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. Stresses the enjoyment and lifetime benefits of off-road bicycle riding. Taught on block only.</p> <p>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 UVSC and Sundance instructors. Students are required to have own equipment and purchase a half-day pass each ski day.</p> <p>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 UVSC and Sundance instructors. Students are required to have own equipment and purchase a half-day pass each ski day.</p> <p>REC 1607 GE Skiing III 1:0.5:1.5 Sp For the advanced skier. Covers skiing on all types of terrain and conditions. Includes racing, powder, moguls, trick skiing and touring. Uses demonstration and participation. Grading is based on attendance. Lessons are at the Sundance Ski Resort. (Transportation is not provided.) Uses UVSC and Sundance instructors. Students are required to have own equipment and purchase a half-day pass each ski day.</p>	<p>REC 1615 GE Snowboarding 1:0.5:1.5 Sp Provides a fun challenge to snow boarders of every ability level, starting with the beginning novice to the advanced boarder. Gives instruction in straight runs, stops, turns (falling leaf, heel edge, toe edge), and carving. Includes skill demonstration and student participation. Grading is based on attendance, participation, demonstrating skills, and tests. Lessons are at the Sundance Ski Resort. (Transportation is not provided.) Uses UVSC and Sundance instructors. Requires students to have their own equipment and purchase a half-day pass each ski day.</p> <p>REC 1621 GE Ski Instructor Training 1:0.5:1.5 Sp For advanced skiers who are interested in becoming ski instructors. Discusses the potential in the skiing industry and professionalism as a ski instructor. Introduces American Teaching System. Presents the methodology of ski instruction to intermediate and beginning skiers. Includes lecture and actual ski time on the hill (transportation is not provided). Students are required to have their own equipment and purchase a half-day pass each ski day at a reduced rate.</p> <p>REC 1625 GE Cross Country Skiing 1:0.5:1.5 Sp Presents basic ski touring techniques. Studies selection and utilization of winter touring equipment and clothing in relation to varying climatic and terrain conditions. Includes trail etiquette, avalanche avoidance, and other important factors for a successful winter tour. Includes classroom instruction and ski touring. Taught on block only.</p> <p>REC 2005 Ropes Course Facilitation 2:1:3 F 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).</p> <p>REC 2010 GE 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.</p>
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Course Descriptions

REC 2400

Principles of Experiential Education in Recreation

3:3:0

Su, F, Sp

Introduces the principles and concepts of experiential education in the general context of recreation programming and prepares students for further study and skill development in context specific experiential education programming. Teaches history, theory, and ethics in the domain. Offers experience in the use of learning cycles, facilitation, feedback, processing, and effective communication techniques, risk management from both physical and emotional perspectives. Uses pedagogical lecture methods and experiential learning. Requires participation in experiential education programming and observation and participation in programs outside of class time.

REC 2450

Rock Climbing Site Management and Facilitation

3:3:0

Su, F, Sp

• Prerequisite(s): REC 1527, REC 2400

Teaches top-rope site management and facilitation for instructing student rock climbers. Includes lecture methods and experiential learning, industry standard presentations and critiques of knot tying, belaying, rappelling, top-rope anchors, beginning lead climbing, and rescue techniques, presentations and critiques of placing passive and active anchors on simulated lead climbs and multi-pitch belaying. Teaches self and partner rescuing, ascending, route finding, crack and face climbing techniques, aid climbing, and soft skills to facilitate a positive and safe student experience. Features a trip to a regional climbing location and indoor climbing assignments outside of class. Prepares students to seek professional certification.

REC 2500

Introduction to Adventure Recreation

2:2:0

Not 07-08

Explores the philosophy, meaning and value of outdoor adventure recreation. Studies planning, organizing and leading outdoor excursions. Includes hiking, canoeing, camping, scuba diving, cross-country skiing, snowshoeing, compass navigation, outdoor cooking, archery, golfing, etc.

REC 2600

Principles of Outdoor and Adventure Education

3:3:0

Su, F, Sp

• Prerequisite(s): REC 2400

Teaches leadership of outdoor and adventure education topics necessary for instructing the beginning student. Uses pedagogical lecture methods and experiential learning. Includes industry standard presentations and critiques of orienteering, map reading, packing,

backcountry cooking, campsite set-up, food rationing, river crossing, proper clothing, water purification, hygiene, weather forecasting, backcountry travel, Leave NO Trace ethics, and personal risk management. Requires hiking or orienteering assignments outside of class. Prepares students to qualify for certification as Wilderness Stewards through the Wilderness Education Association. Addresses risk management from both physical and emotional perspectives. Uses pedagogical lecture methods and experiential learning. Requires observation and participation in programs outside of class time.

REC 2650

Principles of Challenge Education

3:3:0

Su, F, Sp

• Prerequisite(s): REC 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

Su, F, Sp

• Prerequisite(s): REC 2400, Swim equivalency test

Develops the principles and concepts of experiential education in the water-based context and prepares students for further study and skill development in context specific experiential education programming. Teaches history, theory, and ethics in the domain; as well as, develops experience in the use of learning cycles, facilitation, feedback, processing and effective communication techniques. Includes industry standard presentations and critiques of water safety, hydrology, paddling and stroke technique, self and group rescue techniques, decision-making and judgment, program planning, weather, leave no trace, personal risk management, and equipment care and maintenance. Addresses risk management from both physical and emotional perspectives.

Utilizes pedagogical lecture methods and experiential learning, and participation in experiential education programming. Requires observation and participation in programs outside of class time. Prepares students to seek professional certification.

REC 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

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

Recreation Administration and Risk Management

3:3:0

F

• Prerequisite(s): PES 2700

Studies outdoor recreation risk management. Focuses on applying models of risk management, negligence, torts, risk management planning, and outdoor recreation safety.

REC 3500

Recreation Administration

3:3:0

Su, F, Sp

• Prerequisite(s): 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

Sp

Investigates theories, principles, and techniques of interpreting park, cultural, and natural resources to the public.

REC 4000

Outdoor Leadership

4:3:2

Sp

• Prerequisite(s): At least two skills courses chosen from the following: REC 1527, REC 1525, REC 1550, REC 1350, REC 1505, or others with instructor approval

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

• Prerequisite(s): Permission of department
Teaches experiential learning and leadership in a 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.

Su

REC 4200

Outdoor Leadership and Management Practicum

2 to 4:0 to 4:0 to 20

Provides students with practical work experience (volunteer or paid) either through a program offered by the college or in an existing outdoor or experientially based agency. Participation in a 150 hour department approved supervised outdoor recreation service. Topics vary by practicum experience.

Su, F, Sp

REC 4400

Park and Protected Area Management 3:3:0

• 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.

Su, F, Sp

REC 4500

Visitor Behavior

3:3:0

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.

Su, F, Sp

REC 482R

Senior Internship

1 to 4:0:5 to 20

• Prerequisite(s): Approval of the instructor
Provides supervised, hands-on field experience for excellent students preparing to take entry-level positions in recreation. May be repeated for a maximum of eight credits toward graduation.

Su, F, Sp

REC 490R

Topics in Recreation

3:3:0

• Prerequisite(s): PES 2700
Focuses student reading, research, and discussion on specific areas of

Su, F, Sp

concentration within the field of outdoor recreation management. (Specific areas of focus will change as the instructor and his or her focus or expertise changes.) Analyzes how outdoor recreation affects and is affected by culture, ideology, socio-economic factors, history, etc. Focuses may include: Recreation and Popular Culture, Recreation and Diversity, and History and Philosophic Issues in Recreation, among others. May be repeated for up to 6 credits toward graduation.

REC 4950

Senior Seminar

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.

Su, F, Sp

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.

Not 07-08

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.

Not 07-08

RLST 3650 (Cross-listed with: PHIL 3650)

Approaches to Religious Studies

3:3:0

• Prerequisite(s): PHIL 2050
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.

Sp

RLST 366R (Cross-listed with: PHIL 366R)

Issues in Religious Studies

3:3:0

• Prerequisite(s): PHIL 2050
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.

F

RUS—RUSSIAN

RUS 1010

Beginning Russian I

5:5:1

Studies conversational Russian that is used in daily settings. Includes culture study, speaking, listening, reading, and writing. Emphasizes conversation in real life situations. Uses the Natural and Total Physical Response teaching methods.

LH

F

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.

F, Sp

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.

LH

F

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.

HH

Sp

RLST

RUS

Course Descriptions

RUS 3050 Advanced Russian 3:3:0	LH F, Sp
<ul style="list-style-type: none"> • Prerequisite(s): Students need equivalent knowledge of RUS 2020 <p>Designed for non-native Russian speakers, who, as a result of foreign residency or similar exposure to the language, have attained a fairly good mastery of basic Russian. Targets major grammatical concepts with a focus on oral proficiency development. Overviews Russian culture and gives an introduction to Russian literature.</p>	
SOC—Sociology	
SOC 1010** Introduction to Sociology 3:3:0	SS Su, F, Sp; DE
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	SS Sp
Studies and compares social groups and institutions and their interrelationships. Includes culture, socialization, deviance, stratification, race, ethnicity, social change, and collective behavior.	
SOC 1020 Modern Social Problems 3:3:0	SS Su, F, Sp
Studies and analyzes modern social problems such as crime, delinquency, family dysfunctions and inequality and exploitation of people in contemporary society. Class requires volunteer experience in community agencies.	
SOC 1150 (Cross-listed with: PSY 1150) Marriage/Relationship Skills 3:3:0	Sp, F
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	SS Su, F, Sp
Studies the family from a sociological perspective. Covers historical and developmental patterns of courtship and marriage, dual careers, sexual adjustment, parenting, divorce, step families, and bereavement. Stresses personal values and the application of theories to individual situations.	

SOC 2370 Gender Roles 3:3:0	On Sufficient Demand
<ul style="list-style-type: none"> • Prerequisite(s): ENGL 1010 <p>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.</p>	
SOC 275R Survey of Current Topics 3:3:0	On Sufficient Demand
<ul style="list-style-type: none"> • Prerequisite(s): (ANTH 1010 or PSY 1010 or SOC 1010) and ENGL 1010 <p>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.</p>	
SOC 3000 Contemporary Social Theory 3:3:0	F, Sp
<ul style="list-style-type: none"> • Prerequisite(s): SOC 1010 and (ENGL 2010 or ENGL 2020) <p>Surveys major sociological theories, which provide the basis for sociological research and the interpretation of social processes.</p>	
SOC 3010 (Cross-listed with: PSY 3010) Statistics for the Behavioral Sciences 4:4:0	Su, F, Sp
<ul style="list-style-type: none"> • Prerequisite(s): MAT 1000 or MAT 1010 or HIGHER and (PSY 1010 or SOC 1010) <p>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.</p>	
SOC 3020 (Cross-listed with: PSY 3020) Research Methods for the Behavioral Sciences 3:3:0	Su, F, Sp
<ul style="list-style-type: none"> • Prerequisite(s): (ENGL 2010 or ENGL 2020) and (PSY 1010 or SOC 1010) and (PSY 3010 or SOC 3010) <p>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</p>	

Style.	
SOC 3100 Population Society and Demography 3:3:0	On Sufficient Demand
<ul style="list-style-type: none"> • Prerequisite(s): SOC 1010 and (ENGL 2010 or ENGL 2020) <p>Introduces basic concepts of population studies. Explores population growth and change from a world perspective. Utilizes computer software and other data sources to study census data to track population change, examine possible causes, and projected consequences for the future.</p>	
SOC 3200 Race and Minority Relations 3:3:0	Su, F, Sp
<ul style="list-style-type: none"> • Prerequisite(s): ENGL 2010 or ENGL 2020 <p>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.</p>	
SOC 3240 (Cross-listed with: PSY 3240) Applied Marriage 3:3:0	Sp, F
<ul style="list-style-type: none"> • Prerequisite(s): (PSY 1010 or SOC 1010) and (ENGL 2010 or ENGL 2020) and PSY/SOC 1150 <p>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.</p>	
SOC 3250 (Cross-listed with: PSY 3250) Applied Parenting 3:3:0	Sp, F; DE
<ul style="list-style-type: none"> • Prerequisite(s): (PSY 1010 or SOC 1010) and (ENGL 2010 or ENGL 2020) <p>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.</p>	
SOC 3400 Sociology of Religion 3:3:0	On Sufficient Demand
<ul style="list-style-type: none"> • Prerequisite(s): SOC 1010 and (ENGL 2010 or ENGL 2020) <p>Examines religion from a sociological perspective. Analyzes religion as a social phenomenon. Discusses religious organizations, religion and politics, and religion and social class.</p>	

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 (Cross-listed with: PSY 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 3560
Sociology of Deviance
3:3:0 **F**
 • Prerequisite(s): SOC 1010 and (ENGL 2010 or ENGL 2020)
 Examines the strengths and weaknesses of several different definitions of deviance. Explains deviant behavior from a variety of theoretical perspectives and summarizes the existing data on several different forms of deviance, i.e., individual violations of social mores, street level crime, corporate

crime, and crimes committed by nation states.

SOC 3620 (Cross-listed with: PSY 3620, ANTH 3620)
Intercultural Relations
3:3:0 **Sp**
 • Prerequisite(s): (PSY 1010 or SOC 1010 or ANTH 1010) 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 3650
Sociology of Aging
3:3:0 **On Sufficient Demand**
 • Prerequisite(s): ENGL 2010 or ENGL 2020
 For behavioral science students and those interested in health or medical professions. Studies aging societies with emphasis in: biological/ health, psychology/personality, social/family, occupational/leisure, and cross cultural issues. Presents current issues of aging in both the United States and other countries. Explores cultural and individual issues and remedies for ageism.

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 (Cross-listed with: PSY 4020)
Survey Research Design
3:3:0 **Sp, Su, F**
 • Prerequisite(s): (ENGL 2010 or ENGL 2020) and (ANTH 1010 or PSY 1010 or SOC 1010) and (PSY 3010 or SOC 3010) and (PSY 3020 or SOC 3020)
 Teaches methods of conducting survey research. Includes how to construct, validate, and administer surveys; how to conduct interviews; how to report data, and how to interpret findings.

SOC 4030 (Cross-listed with: PSY 4030, SW 4030)
Introduction to Practice Evaluation and Grant Writing
3:3:0 **F**
 • Prerequisite(s): (ENGL 2010 or ENGL 2020) 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 **F**
 • Prerequisite(s): (PSY 1010 or SOC 1010) and (ENGL 2010 or ENGL 2020). SOC 1200 strongly recommended.
 Introduces students to the fundamentals of family dynamics and systems as they relate to family structure and function. Focuses on historical development, theoretical underpinnings, and applied utility of dynamics and systems. Includes boundary management, infraction, and renewal in contemporary family systems.

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 demonstration competency in the specific topic. May be repeated three times with different topics.

Course Descriptions

SOC 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 to receive sociology credits for interning in a governmental, corporate, or private agency apart from their regular employment. Provides students with practical and research experience over the course of the 15-week semester. Work must be supervised by agency representative. Internships, approved by faculty and written contracts, must be signed. May be repeated for a maximum of 8 credits toward graduation.

SOC 490R

Independent Studies

1 to 3:1 to 3:0

On Sufficient Demand

• Prerequisite(s): For Behavioral Science Bachelor Degree students only. Must have the approval of the instructor and the department chair.

For qualified students who wish to undertake a well-defined project or directed study related to an area of special interest. Requires individual initiative and responsibility. Includes limited formal instruction and faculty supervision. Projects may include writing a publishable paper, passing a competency exam, producing an annotated bibliography, oral presentation, or other options as approved by instructor. May be repeated for a maximum of six credits.

SOC 4950 (Cross-listed with: PSY 4950)

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

GS

Sp

Sponsored and promoted by Phi Theta Kappa, national organization. Designed for an intellectual pursuit of National Honors Study topic. Discussion topic changes annually. Deals with current international issues that impact society and the quality of life. Students research and discuss the topic from several different perspectives and develop a knowledge base from which to formulate their own ideas.

SPAN—SPANISH

SPAN 1010

Beginning Spanish I

5:5:1

Su, F, Sp; DE

LH

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; DE

LH

• 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

LH

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

LH

• 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

HH

• 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

On Sufficient Demand

• 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 language production, both oral and written.

SPAN 255R

Oral Communication

3:3:1

Su, F, Sp

• Prerequisite(s): Students need equivalent knowledge of SPAN 2010

Pursues skill development according to American Council of Teachers of Foreign Language oral proficiency guidelines, covers structural and linguistic paradigms essential to correct usage, considers proper application of tense and tense sequence, provides ample opportunity for students to interact, converse, present, and engage progressively in the language in multiple and varied formats. May be repeated for a maximum of 9 credits toward graduation.

SPAN 3040

Introduction to Literary Genres in Spanish

3:3:0

On Sufficient Demand

• 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

LH

• 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.)

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).

<p>SPAN 3200 Business Spanish 3:3:0 LH F, Sp</p> <ul style="list-style-type: none"> • Prerequisite(s): SPAN 3050 <p>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.</p> <p>SPAN 3220 Pronunciation Phonetics and Phonology 3:3:0 On Sufficient Demand</p> <ul style="list-style-type: none"> • Prerequisite(s): SPAN 3050 <p>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.</p> <p>SPAN 3510 Culture and Civilization--Spain 3:3:0 On Sufficient Demand</p> <ul style="list-style-type: none"> • Prerequisite(s): SPAN 3050 or equivalent <p>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.</p> <p>SPAN 3520 Culture and Civilization--Spanish America 3:3:0 On Sufficient Demand</p> <ul style="list-style-type: none"> • Prerequisite(s): SPAN 3050 <p>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.</p> <p>SPAN 3610 Spanish Peninsular Literature to 1800 3:3:0 On Sufficient Demand</p> <ul style="list-style-type: none"> • Prerequisite(s): SPAN 3050 or equivalent <p>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</p>	<p>Spanish.</p> <p>SPAN 3620 Spanish Peninsular Literature from 1800 3:3:0 On Sufficient Demand</p> <ul style="list-style-type: none"> • Prerequisite(s): SPAN 3050 or equivalent <p>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.</p> <p>SPAN 3630 Spanish American Literature to 1880 3:3:0 On Sufficient Demand</p> <ul style="list-style-type: none"> • Prerequisite(s): SPAN 3050 <p>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.</p> <p>SPAN 3640 Spanish American Literature from 1880 3:3:0 On Sufficient Demand</p> <ul style="list-style-type: none"> • Prerequisite(s): SPAN 3050 <p>Introduces chronologically from 1800 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.</p> <p>SPAN 4050 Special Topics in Grammar Usage and Style 3:3:1 On Sufficient Demand</p> <ul style="list-style-type: none"> • Prerequisite(s): SPAN 3050 <p>Reviews Spanish grammar focusing on problem areas. Explores grammar as deployed in different genres. Emphasizes writing in different styles. Completers should be able to identify styles in readings and compose according to certain styles.</p> <p>SPAN 4110 Translation and Interpretation 3:3:0</p> <ul style="list-style-type: none"> • Prerequisite(s): SPAN 4050 <p>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.</p>	<p>SPAN 4200 Advanced Business Spanish 3:3:0 Sp</p> <ul style="list-style-type: none"> • Prerequisite(s): SPAN 3200 <p>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.</p> <p>SPAN 460R Topics in Hispanic Literature 3:3:0</p> <ul style="list-style-type: none"> • Prerequisite(s): SPAN 3610 or SPAN 3620 or SPAN 3630 or SPAN 3640 <p>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.</p> <p>SPAN 4610 Golden Age Spanish Literature 3:3:0</p> <ul style="list-style-type: none"> • Prerequisite(s): SPAN 3610 or SPAN 3620 or SPAN 3630 or SPAN 3640 <p>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.</p> <p>SPAN 4630 Contemporary Peninsular Literature 3:3:0</p> <ul style="list-style-type: none"> • Prerequisite(s): SPAN 3610 or SPAN 3620 or SPAN 3630 or SPAN 3640 <p>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.</p> <p>SPAN 4660 Contemporary Spanish American Literature 3:3:0</p> <ul style="list-style-type: none"> • Prerequisite(s): SPAN 3610 or SPAN 3620 or SPAN 3630 or SPAN 3640 <p>Introduces the major works of Spanish American writers in the latter part of the 20th and early 21st centuries. Involves close reading and textual analysis through class discussion, written projects, examinations, and oral presentations. Conducted entirely in Spanish.</p>
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SOSC

SPAN

Course Descriptions

SPAN 4900

Capstone Seminar

3:3:0 **On Sufficient Demand**

- Prerequisite(s): Four upper division courses; Department chair 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 1010 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 (Cross-listed with: PSY 3150, LEGL 3150)

Survey of Dispute Resolution

3:3:0 **Sp, F**

- Prerequisite(s): (SW 1010 or PSY 1010 or SOC 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.

SW 3410 (Cross-listed with: PSY 3410, COMM 3410, LEGL 3410)

Fundamentals of Mediation and Negotiation

3:3:0 **Sp, F**

- Prerequisite(s): (SW 1010 or PSY 1010 or SOC 1010) or COMM 1050 or LEGL 1000

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 (Cross-listed with: PSY 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 illness, suicide, and end-of-life issues. Reviews grief and loss themes. Familiarizes students with vocabulary and explores related human service occupations such as bereavement counseling and hospice care.

SW 3750 (Cross-listed with: PSY 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 (Cross-listed with: PSY 3800)

Clinical Interviewing Skills

4:3:3 **Sp, F**

- Prerequisite(s): SW 1010 and PSY 3400

Develops knowledge of and skill in clinical interviewing. Familiarizes students with a broad range of clinical interviewing skills. Uses class discussions, video clips of master clinicians, instructor modeling, in-class practice, videotaped role plays, and class and instructor evaluations of role plays.

SW 4030 (Cross-listed with: PSY 4030, SOC 4030)

Introduction to Practice Evaluation and Grant Writing

3:3:0 **F**

- Prerequisite(s): (ENGL 2010 or ENGL 2020) and (PSY 3020 or SOC 3020)

Provides practical guidance for conducting of an evaluation study from its inception, through the planning stage, to research design, data collection, data analysis and the reporting, dissemination and application of conclusions.

SW 4050 (Cross-listed with: PSY 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 (Cross-listed with: PSY 4100, COMM 4100, LEGL 4100)

Advanced Mediation and Negotiation

3:3:0 **Sp, F**

- Prerequisite(s): PSY 3410 or SW 3410 or COMM 3410 or LEGL 3410

Prepares students to 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 (Cross-listed with: PSY 4200, LEGL 4200)

Domestic Mediation

3:3:0 **Sp, F**

- Prerequisite(s): LEGL 3410 or PSY 3410 or SW 3410 or instructor approval

Prepares students to understand and participate knowledgeably and effectively in the process of domestic mediation. Improves conceptual knowledge about and understanding of the domestic mediation process as well as improving practical negotiation and mediation skills. Utilizes a highly interactive workshop format that blends theory with practice in simulated class role plays.

SW 4300 (Cross-listed with: PSY 4300)

Introduction to Counseling and Psychotherapy

3:3:0 **Su, F, Sp**

- Prerequisite(s): (PSY 1010 or SW 1010) and PSY 3400 and (ENGL 2010 or ENGL 2020)

Surveys concepts and practices of major therapeutic systems. Introduces students to the major psychotherapeutic models.

Addresses basic counseling issues including ethics and professionalism. Develops skills in relationship development, interviewing, initial assessment and intake procedures.

SW 4400 (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 **Sp, F**

- Prerequisite(s): PSY 3400 and (ENGL 2010 or ENGL 2020)

Provides an overview of the Diagnostic and Statistical Manual of mental disorders (DSM) based on clinical diagnosis. Teaches DSM based clinical diagnosis. Teaches DSM diagnoses including diagnostic criteria, prevalence rates, gender and cultural differences in prevalence and symptomatology, disease course, and differential diagnosis. Uses class discussions, videotapes of individuals with different DSM diagnoses, and case scenarios.

SW 4700

Case Management in Social Work Practice
3:3:0 **Sp, F**

- Prerequisite(s): SW 1010 and PSY 3400 and senior in Behavioral Science program

Provides the conceptual foundation for providing case management services and crisis intervention to individuals in various population groups.

SW 475R

Current Topics in Social Work
3:3:0 **On Sufficient Demand**

- Prerequisite(s): SW 1010 and (ENGL 2010 or ENGL 2020)

Presents selected topic in Social Work and will vary each semester. Requires a project demonstrating competency in the specific topic. May be repeated with different topics for nine credits toward graduation.

SW 4800 (Cross-listed with: PSY 4800)

Practicum
3:3:0 **Sp, Su, F**

- Prerequisite(s): Senior standing in the Behavioral Science Department. Must have completed or be enrolled in (PSY 4300 or SW 4300) or (PSY 4400 or SW 4400). Must have instructor's consent.

Provides an integrative classroom experience for students with a clinical interest currently working in related jobs or volunteer experiences in human service agencies or work sites. Requires minimum six hours work per week in an approved setting, and in-class study three hours per week.

SW 490R

Independent Studies
I to 3:I to 3:0 **On Sufficient Demand**

- Prerequisite(s): For Behavioral Science Bachelor Degree students only. Must have the approval of the instructor and the department chair.

For qualified students who wish to undertake a well-defined project or directed study related to an area of special interest. Requires individual initiative and responsibility. Includes limited formal instruction and faculty supervision. Projects may include writing a publishable paper, passing a competency exam, producing an annotated bibliography, oral presentation, or other options as approved by the instructor. May be repeated for a maximum of six credits.

**TCT—TELECOMMUNICATIONS
TECHNOLOGY**

TCT 1110

Introduction to Telecommunications Technology
3:3:0 **On Sufficient Demand**

Studies basic communications concepts including information theory, modulation techniques, multiplexing, sampling, and spectral analysis. Teaches the differences between digital and analog transmission. Builds an understanding of the differences between packet switching and circuit switching networks. Reviews the historical development of telecommunications and introduces voice and data communications networks.

TCT 1120

Electronic Systems Test and Measurement
2:2:0 **On Sufficient Demand**

- Corequisite(s): TCT 112L

Introduces the fundamentals of electricity. Studies basic techniques of test and measurement of electrical and electronic systems. Teaches the operation of common test instruments. Studies resistance, heat, power, voltage, current inductance, capacitance, transformers, semiconductors, operational amplifiers, and logic gates. Examines schematic symbols, diagrams, and signal flow diagrams.

TCT 112L

Electronic Systems Test and Measurement Laboratory
2:0:6 **On Sufficient Demand**

- Corequisite(s): TCT 1120

Covers operation of digital multimeter, oscilloscope, logic probe, logic analyzer and spectrum analyzer to perform various measurements in a lab setting. Teaches voltage, current, resistance, inductance, capacitance, and power measurements. Studies diode and transistor junction measurements and basic soldering of electronic components.

TCT 1130

Introduction to Digital Circuits and Systems
4:2:6 **On Sufficient Demand**

Studies the binary number system. Presents boolean algebra to understand the design of digital circuits. Studies basic electronic devices that implement boolean logic including AND, OR, NAND, NOR, XOR 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

Presents methods of building, testing, monitoring, and troubleshooting digital data networks. Studies cable construction and testing, test equipment operation, Ethernet data link layer testing and monitoring in a hands-on laboratory environment.

TCT 1220

Telephony Systems Theory
4:4:0 **On Sufficient Demand**

- Prerequisite(s): TCT 1110
- Corequisite(s): TCT 122L

Studies fundamentals of the world wide public switch telephone network. Includes history of the public telephone system, human voice characteristics, twisted pair characteristics, in-band signaling, DTMF signaling, central office switching, trunk circuits, multiplexing and private branch exchange. Covers digital telephony, call switching, echo suppression, modems, T1 trunks, SS7 call control protocol, integrated services digital networks (ISDN), digital subscriber lines (DSL) and voice over packet switched networks.

TCT 122L

Telephony Systems Laboratory
2:0:6 **On Sufficient Demand**

- Corequisite(s): TCT 1220

Studies methods of construction, testing, and monitoring of telephone infrastructure. Includes telephone cabling, termination, tracing, T1 testing and monitoring, PBX operation, T1 switching hardware, and call routing.

SW

TCT

Course Descriptions

TCT 2120

Fiber Optics Transmission Theory

3:3:0 On Sufficient Demand

• Prerequisite(s): TCT 1210

• Corequisite(s): TCT 212L

Introduces fiber optic transmission systems. Includes transmission line principles, fiber optic materials, cabling specification and practice, and amplification of optical signals. Teaches synchronous optical networks, optical carrier multiplex standards, SONET, and wavelength division multiplexing.

TCT 212L

Fiber Optics Transmission Laboratory

1:0:3 On Sufficient Demand

• Corequisite(s): TCT 2120

Studies methods and practice of fiber optic 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 1210, CS 2600

• Corequisite(s): TCT 221L

Presents wireless communication theory and practice. Includes electromagnetic radiation, transmission lines, forward and reflected power, transmitter fundamentals, modulation, noise and receiver fundamentals. Covers broadcast systems, point-to-point microwave systems, digital transmission fundamentals, radio repeaters, duplex wireless communications, and cellular telephone systems.

TCT 221L

Wireless RF Communications Laboratory

4:0:12 On Sufficient Demand

• Corequisite(s): TCT 2210

Presents testing, measuring, and monitoring of wireless communication systems using various test equipment. Uses test instruments to make various RF measurements including power, voltage, frequency, distortion, signal to noise ratio, sensitivity and dynamic range.

TCT 2220

Audio and Video Protocols and Systems

3:3:0 On Sufficient Demand

Studies the fundamentals of audio and video systems. Includes fundamentals of broadband communications systems, cable television, cable Internet modems, DSS satellite systems, video systems, video compression fundamentals, audio systems and audio compression.

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 2000

Technology and Human Life

3:3:0 F, Sp

Designed to acquaint students with the main technologies affecting their culture and the global community. Places special emphasis on the moral, social, economic, legal, and political consequences. Introduces students to the major biotechnologies, information technologies, robotics and manufacturing, space, and military technologies of their generation. Explores the central writings and personalities leading the analysis of technology in the 21st century.

TECH 3000

Introduction to Technology Management

3:3:0

• 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 6 Sigma practices, continuous process/product improvement, best practices, statistical methods, performance measurements, management of supplier partnerships, cost of poor quality, leadership and employee involvement, quality function deployment and global quality initiatives. Assists in preparing students for the relevant professional certifications for career enhancement.

TECH 4000

Reliability Engineering and Safety

3:3:0 F, Sp

• Prerequisite(s): TECH 3000

Studies interrelated aspects of reliability, safety, 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 OSHA, the EPA, and various governmental agencies.

TECH 4050 (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.

Course Descriptions

TECH 4200
Technology Marketing and Distribution
3:3:0 **F, Sp**
 • Prerequisite(s): TECH 3000
 Teaches management of marketing, forecasting, and distribution within technical fields. Focuses on market-based profit and customer satisfaction. Applies concepts to technology planning and innovation. Prepares for national distribution certifications.

TECH 4300
Advanced Technical Experience
3:3:0 **Not 07-08**
 • Prerequisite(s): Senior standing, BSTM advisor approval, and department approval
 A capstone course for Bachelor's Degree Technology Management majors. Broadens technical skills through group participation, individual investigation, problem solving, and the application of applied research in technology development. Includes the preparation of development plans in a student's chosen discipline.

TECH 4400
Advanced Project Management
3:3:0 **F, Sp**
 • Prerequisite(s): TECH 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
I 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 School of Technology and Computing coordinator. Credit is determined by the number of hours a student works during the semester and completion of individually set goals. Three credits may be applied toward a Bachelor of Science Degree in Technology Management. Graded credit or no-credit.

TECH 4820
Current Topics in Technology Management
2:2:0 **F, Sp**
 • Prerequisite(s): Senior Status or Instructor Approval
 Guest lecture series format designed to provide a review of how various industry and trade professions will be affected by new and developing technologies in the short- and mid-term future. Acquaints students with the newest technological developments in their fields. Prepares students, through research, for the changes that various technologies will bring their professions.

TECH 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
I 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 **FF**
Introduction to Theatre
3:3:0 **Su, F, Sp; 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 **FF**
Introduction to Film
3:2:3 **Su, F, Sp; 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 manipulation of time, space, and sound. Combines lecture, screening, and demonstration with critical discussions of assigned readings and films.

THEA 1033 **GF**
Fundamentals of Acting I
3:3:0 **Su, 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 **GF**
Voice and Diction
3:3:0 **F**
 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 **GF**
Makeup for Stage and Screen I
3:3:0 **F**
 • Prerequisite(s): THEA 1513
 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 **GF**
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 1713
Script and Text Analysis
3:3:0 **F, Sp**
 Introduces students to the analysis of story-based text across a range of media.

TECH
THEA

Course Descriptions

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 opportunities in production. Applies learned skills in actual production performance. Criteria for project completion will be negotiated with the instructor on an individual basis. May be repeated for a maximum of 3 credits toward AS degree.

THEA 2203 **Costume Construction for Stage and Screen I** **3:3:0** **F**

A beginning overview of the vocabulary and basic sewing methods of theatrical costuming. Familiarizes students with sewing machine and serger operation, basic sewing techniques, fabrics, simple patterning, and skills of costume construction.

THEA 2313 **Film History I** **3:2:3** **F**

• Prerequisite(s): THEA 1023
Explores the development of the feature film, both in America and abroad from 1895 to 1945. Covers the evolution of 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 2323 **Film History II** **3:2:2** **Sp**

• Prerequisite(s): THEA 1023
Survey of cinema history focused upon social, aesthetic, business, and technical dimensions of film and media from 1945 to the present. Emphasizes the parallel emergence and interrelationship of Hollywood and international cinema. Some films screened may be considered controversial and carry an "R" rating.

THEA 2333 **Race Class and Gender in Film** **3:2:2** **Sp**

Raises cultural awareness through aesthetic, critical, and interdisciplinary examination of the evolution of ethnic and minority film in America. Focuses on how both Hollywood and independent minority filmmakers have "created" various ethnic and minority groups for the mass audience (i.e. "Representation"). Some films screened may be considered controversial and carry an "R" rating.

THEA 234R **Special Topics in Film Studies** **3:2:2** **F**

• Prerequisite(s): THEA 1023
Focuses upon a particular genre, director, or film movement for the benefit of theater students seeking a film emphasis and MCT and English students seeking added depth in their fields of study. Topic varies by semester. May be repeated for 3 credits toward graduation, more for interest.

THEA 249R **Musical Theatre Practicum** **2:0:6** **F, Sp**

• Prerequisite(s): Instructor approval by audition
Prepares the student to perform in musical theatre through development of acting, singing, and dance techniques in performance showcase forum. Offers performance opportunities. May be repeated for a maximum of 6 credits toward graduation.

THEA 2503 **Stagecraft II** **3:3:0** **Sp**

• Prerequisite(s): THEA 1513 and THEA 2513
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 UVSC theatrical productions.

THEA 2513 **Introduction to Design for Stage and Screen** **3:3:0** **F, Sp**

• Prerequisite(s): THEA 1513
Studies the design process associated with costumes, scenery, and lighting. Uses research, conceptual renderings, models,

and drafting. Introduces perspective drawing, figure drawing, three-dimensional model building, and standard drafting practices.

THEA 259R **Production Practicum for Stage and Screen** **1:0:3** **F, Sp**

Provides opportunity for earning college credit for supervised projects in any area of production, excluding performance. Involves the development of a contract between student and the assigned instructor. May be repeated for a maximum of 4 credits toward graduation.

THEA 2713 **Introduction to Writing for the Stage and Screen** **3:3:0** **F, Sp**

Introduces dramatic writing in plays and screenwriting. Covers script formatting, dramatic structure, theatre and film conventions, use of dialogue, character, and plot development. Requires writing monologues, scene treatments, a short one-act play, and a short screenplay.

THEA 281R **Theatre Internship** **I 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 6 credits toward graduation.

THEA 290R **Independent Study** **I to 5:I to 5:0** **F, Sp**

For students with advanced 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 5 credits toward graduation.

THEA 3113 **Acting for Film** **3:3:0** **Sp**

• Prerequisite(s): THEA 2033 or DGM 1110
Introduces the specialized techniques of performance, audition, and agent/actor relationships as they apply to the film and television industries.

THEA 3123 **Stage Dialects** **3:3:0** **F**

• Prerequisite(s): THEA 1113
Teaches the creation of believable characters from various linguistic backgrounds. Emphasizes lilt, stress, resonance, and pronunciation of dialects as a stage tool. Utilizes the IPA - International Phonetic Alphabet. Includes multiple dialects from three broad

Course Descriptions

geographical categories: American, British Isles, and Western Continental Europe.

THEA 3133

Stage Combat

3:3:0

Sp

• Prerequisite(s): THEA 2123

Teaches basic principles of stage combat/choreography and safety practices.

THEA 3203

GF

Costume Construction II

3:3:0

Sp

• Prerequisite(s): THEA 2203

Provides more experience with sewing machine operations and advanced sewing techniques. Includes textile selection and construction skills. Focuses on specialized pattern drafting and draping.

THEA 3223

GF

Makeup II

3:3:0

Sp

• Prerequisite(s): THEA 1223

Teaches advanced techniques in makeup design and application, character analysis, and three-dimensional masks. Includes hair applications, prosthetic appliances, airbrush techniques, and variety characterizations.

THEA 331R

Special Topics in Film History

3:2:3

F

• 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.

THEA 3413

Acting for Musical Theatre I

3:3:0

F

• Prerequisite(s): THEA 2033

Introduces the acting student to the techniques of acting, singing, and dancing for the musical, as well as looking at the history and trends of the musical. Also incorporates the art of transitioning between dialogue and song.

THEA 3423

Acting for Musical Theatre II

3:3:0

Sp

• Prerequisite(s): THEA 3413 or private audition

Further develops and refines the performer's abilities as a singer, dancer, and actor. Links trends in musical theater with past and present artistic choices. Explores design aspects of musical theater and thematic integration of acting, singing, and dancing. Includes lecture, discussion, film, rehearsal, and performance.

THEA 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 UVSC productions.

THEA 3533

GF

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 UVSC 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 3563

Art Direction for Film

3:3:0

Not 07-08

• Prerequisite(s): THEA 2553, THEA 3503, and THEA 3523

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 1713 and THEA 1033) or DGM 2110

Introduces basic directing techniques utilized in casting and rehearsing actors for stage and screen performance. Places emphasis on achieving honest and believable performances in the intimate style of camera acting, as well as the highly physical acting style of the stage. Includes studies in script structure, visualization, movement, pace and rhythm, gesture, casting techniques, and rehearsal techniques.

THEA 3623

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

XF

Childrens Theatre in the Elementary School 2:2:1

F, Sp

For students majoring in elementary education and/or theatre, speech, or communications. Emphasizes child drama and speech activities in the elementary school. 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 3723

Theatre History and Literature I

3:3:0

F

• Prerequisite(s): THEA 1013, THEA 1713, ENGL 2010 or ENGL 2020

Examines the history of the theatre from its earliest origins through the Renaissance. Emphasizes theatre practice in its social, political and economic contexts. Introduces the theory and skills necessary for writing analytically about the theatre.

THEA 3733

Theatre History and Literature II

3:3:0

Sp

• Prerequisite(s): THEA 3723

Examines the history of the theatre and its associated literature and artists from the Restoration to the present time. Focuses on historical theatre practice in its social, political and economic contexts. Introduces the theory and skills necessary for writing performance reviews and extended research papers in theatre.

THEA 374R

New Script Workshop

3:2:3

Not 07-08

• Prerequisite(s): THEA 1713 and (THEA 2713 or THEA 1033 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 nine credits toward graduation.

THEA 3753

Script Writing II

3:3:0

Sp

• Prerequisite(s): THEA 1713, THEA 2713

• Corequisite(s): THEA 374R recommended

Builds and enlarges on the specific writing

THEA

Course Descriptions

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 and (senior status in BA/BS Theatre degree or department approval)
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 **Not 07-08**
• 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 4213 Costume Design I

3:3:0 **GF Sp**
• 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 07-08**
• 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 UVSC 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 UVSC 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 07-08**
• Prerequisite(s): THEA 3223, THEA 4233, THEA 4513, and THEA 4533
Involves work on approved projects requiring sophisticated skills in scenic, lighting, costume, makeup design. May include UVSC productions or community and regional performing groups. Requires approval by appropriate theatre faculty. May be repeated for a maximum of 3 credits toward graduation.

THEA 459R Production Practicum for Stage and Screen

1:0:5 **F, Sp**
• Prerequisite(s): THEA 259R, Junior or Senior Status, Declared Theatre Major
Provides opportunity to earn college credit for managing projects in production area including lighting, sound, costumes, props, scenery, design, stage management, running crews, house management or publicity. Excludes performance. 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 4633 Theatre Management II

3:3:0
• Prerequisite(s): THEA 3633 and Senior standing
Introduces advanced concepts in theatre management. Includes an overview of the theatre industry and discussions of theatre organization structures, relevant personnel, and governance for commercial New York theatre, stock and resident theatre, and college theatre and community theatre. Teaches how to locate and secure rights to production and how to work with theatre unions. Includes concepts in audience development techniques. Also includes career discussion of career opportunities in theatre management/ entrepreneurship. Utilizes lecture, discussion, and real-world simulation experiences.

THEA 4713 Script Writing III

3:2:3 **Not 07-08**
• Prerequisite(s): THEA 3753
Extends student dramatic writing skills by creating, rewriting, and polishing a full-length film or play. Focuses on choice of material for specific audiences as well as the specific issues of adaptation of material from an already published source. Emphasizes the processes of selection, securing legal rights, adaptation management imperative to the success of a venture. Includes active class discussions, readings, written and oral presentations, research and final readings of students completed projects.

THEA 475R Special Projects in Dramatic Writing

2 to 9:1:4 to 12 **Not 07-08**
• Prerequisite(s): THEA 4713
Offers upper-division directed study with professional/academic supervision to motivated students for writing projects such as commissioned or speculative scripted and/or dramatic works, i.e. musicals, one-man shows, guerilla theatre, mimes, short or full-length films, documentaries, television shows, sit-coms, movies-of-the-week and other forms not covered by current classes. Allows for a semesters of writing/re-writing and/or critique/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 6 credits toward graduation.

THEA 497R Professional Topics

1 to 3:1 to 3:0 **Not 07-08**
• Prerequisite(s): Senior 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 three credits toward graduation.

THEA 498I Portfolio

1:1:0 **F**
• Prerequisite(s): THEA 3733 and Senior Status
Features development of student portfolio for the areas of performance, design, management, directing and writing. Includes interview skills and website development. Emphasis on placement in the theatrical job market or graduate

school placement.

THEA 4993

Senior Project

3:3:0

F, Sp

• Prerequisite(s): THEA 3733 and Senior Status
Provides credit for independent projects and research of advanced nature in the area of Theatre Arts under faculty supervision. Requires an area of study to be designated.

WELD—WELDING TECHNOLOGY

WELD 1010

Related Oxyacetylene Welding

2:1:3

Not 07-08

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 07-08

A specialty course designed for various trades and community members. For beginning students interested in learning basic arc welding techniques, theory, and practices including types of machines, electrodes and their application. Studies types of joints, expansion and contraction of metals, inspection and testing of welds, care and use of tools and equipment, as well as safe practices in welding.

WELD 1030

Related Oxyacetylene and Arc Welding

3:1:7

F, Sp

A specialty course designed for refrigeration, diesel mechanics, other trade areas, and interested community members. For beginning students. Covers theory and practice of oxyacetylene and arc welding of mild steel. Includes identification of basic and filler metals and melting temperatures of various metals. Emphasis is placed on root penetration and fusion of welded materials. Completers should be able to weld in their professional area.

WELD 1040

Fundamentals of Welding and Sculpture

3:1:7

Not 07-08

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 07-08

For Welding Technology majors and interested community members. Beginning

course in entry-level skills basic to industry in principles and techniques of oxyacetylene welding and cutting and arc welding. Includes use of mild steel stick electrodes for beading, fillet and groove welds in flat positions. Emphasizes safety, proper care and use of equipment.

WELD 1200

Intermediate Arc Welding

6:2:13

Not 07-08

• 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

Sp

• Prerequisite(s): EGDT 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 07-08

• 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 07-08

• 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, scaring and heating.

WELD 1310

Industrial Maintenance 4B

5:5:0

Not 07-08

• Prerequisite(s): Departmental written approval
An advanced welding course for Industrial Maintenance apprentices. Teaches processes and procedures in arc-welding (SMAW), weld defects and testing, fundamentals of metallurgy, expansion-contractions, fabrication and layout. Introduces MIG welding and TIG welding.

WELD 1320

Industrial Maintenance 4C

5:5:0

Not 07-08

• 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 07-08

• 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 AWSE7018.

WELD 1340

Industrial Mechanics Orientation and Fundamentals

5:5:0

Not 07-08

For Mechanical Repair Apprentices. Covers applied math, physics, measuring and blue print reading.

WELD 1350

Industrial Maintenance 3D

5:5:0

Not 07-08

• 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 07-08

• Prerequisite(s): WELD 1100, WELD 1200
Studies theories and principles of internal combustion gasoline and diesel engines pertaining to portable welding power plants. Includes basic electrical principles, preventative maintenance, and troubleshooting. Emphasizes vertical and overhead positions welding. Includes lab. Successful completers must have passed welding qualification tests in all four welding positions with AWSE7018.

WELD 2310

Welding Inspection

2:2:0

Not 07-08

For Welding Technology majors. Presents skills and techniques to assist welders and welding inspectors to better perform their duties. Procedure and qualification testing welds and welders are studied. Studies inspection procedures. Includes destructive and non-destructive testing for the various welding defects. Emphasizes heat treatment operations.

WELD 2320

Metallurgy

4:4:0

Not 07-08

For Welding Technology majors. Emphasizes welding carbon and alloy steels used with metals such as cast irons,

WELD

Course Descriptions

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 07-08

• Prerequisite(s): WELD 1100, WELD 1200, WELD 2300

For Welding Technology majors. Covers common current industrial welding processes, namely tungsten-arc, gas metal-arc, resistance, and other special manual and semi-automatic welding processes. Includes carbon arc cutting, welding of aluminum, stainless steel, and alloy steels. Emphasizes qualification testing on open-root tig. Stresses pipe welding techniques, cost estimation and industrial rigging terminology. Includes lab.

WELD 2410

Advanced Blueprint and Design

3:2:3

Not 07-08

• Prerequisite(s): EGD 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 8:0:5 to 40

Not 07-08

• Corequisite(s): WELD 285R

Designed for Welding Technology majors. Provides paid, on-the-job work experience in the student's major. Work experience and the correlated class are coordinated and approved by the Cooperative Coordinator. Includes student, employer, and coordinator evaluations, on-site work visits, written assignments, and oral presentations. Gives experience in writing and completing individualized work objectives that improve present work performance.

WELD 285R

Cooperative Correlated Class

1:1:0

Not 07-08

• Prerequisite(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 07-08

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.

ZOOL—ZOOLOGY

ZOOL 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.

ZOOL 2320**

Human Anatomy

4:3:3

Su, 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.

Studies, in-depth, the anatomy of the human body. Covers the structure and some functions at the cellular, tissue, organ, and system levels. Emphasizes the names, locations, and functions of body components. Involves problem solving and analytical thinking. Includes weekly laboratory study of human cadavers, models, and specimens.

ZOOL 232H

Human Anatomy

4:3:3

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 bio-medical sciences; especially pre-nursing, pre-med, pre-dent, and pre-vet students. Emphasizes the role and value of anatomical knowledge in health and disease. Covers the same general material as ZOOL 2320, but emphasizes clinical applications of the information. Students will choose and complete a course project that may involve short written reports, a term paper, or a poster presentation.

Includes weekly laboratory study of human cadavers, models, and specimens.

ZOOL 2400

Animal Kingdom

4:3:2

BB

F

• Prerequisite(s): BIOL 1010 or BIOL 1610 or instructor's permission

Covers the animal kingdom and surveys its world-wide diversity, emphasizing the major animal phyla from the invertebrates through the vertebrates. Emphasizes structure, reproduction, behavior, ecology, conservation, systematics and evolution. Includes a weekly laboratory.

ZOOL 2420**

Human Physiology

4:3:3

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

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

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

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

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

3:2:2

Su, F, Sp

Prerequisite(s): BIOL 1610 and BIOL 1620

Covers the evolution, ecology, and diversity of reptiles and amphibians. Includes active class discussions, oral presentations. Emphasizes native Utah herpetofauna. Includes weekly laboratory and required field trips.

ZOOL 3430

Entomology

3:3:0

Su, F, Sp

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

1:0:2

Su, F, Sp

• Corequisite(s): ZOOL 3430

Laboratory to accompany ZOOL 3430. Will examine collection, preservation, and identification of insects. An individual reference collection is required of each student.

ZOOL 3500

Mammalogy

4:3:2

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 (Cross-listed with: PES 3700)

Exercise Physiology

4:3:3

F

• Prerequisite(s): ZOOL 1090 or (ZOOL 2320 and ZOOL 2420), MATH 1050

For Physical Education or Education majors with an emphasis in physical education, specializing in coaching, or athletic training. Studies physiological response to exercise. Addresses clinical applications. Includes weekly laboratory.

ZOOL 4000

Animal Behavior

3:3:0

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

3:0:8

Sp

• Prerequisite(s): ZOOL 3080 and Departmental Approval

Offers clinical experience credit for students who plan to apply for admission to dental schools (arranged by student with local dentist and through Departmental Advisor). Includes weekly chair-side observation with a local dentist and performance of laboratory procedures as approved by the dentist. Requires a daily journal and paper summarizing the experience. Will not count toward the departmental upper-division elective requirement.

ZOOL 4100

Parasitology

4:3:2

On Sufficient Demand

• Prerequisite(s): BIOL 1620, (ZOOL 3200 recommended)

Introduces the study of parasites. Emphasizes the biology of principal groups of parasites affecting humans and livestock, including their medical and economic significance. Laboratory experience will involve identification of parasites. Includes weekly laboratory.

ZOOL 4300

Histology

4:3:2

F (Alternate years)

• Prerequisite(s): (ZOOL 2320 or 232H) or written permission of the instructor

For pre-professional students pursuing biomedical careers and Biology majors with a particular interest in vertebrate structure and function. Studies the microscopic structure of the body at the cellular, tissue, and organ levels. Emphasizes physical and functional relationships of various tissues in the organs of the body. Includes weekly laboratory.

ZOOL 4400

Pathophysiology

4:4:0

Su, F, Sp

• Prerequisite(s): ZOOL 2320, ZOOL 2420, and MICR 2060

For Biology majors with an emphasis in human physiology, pre-professional majors, and nursing students. Studies pathophysiological etiology and mechanisms that cause disease and altered

physiological control and function of organs and organ systems. Emphasizes the gross histopathological and physiological alterations that occur in various disease states.

ZOOL 4500

Comparative Vertebrate Zoology

4:3:3

F (Alternate years)

• Prerequisite(s): (BIOL 1010 or BIOL 1610) or (ZOOL 1090 or ZOOL 2320); and (ENGL 1010 with a grade of C- or better)

Studies the structure and function of vertebrates at the cellular, tissue, organ and systems levels. Emphasizes developmental and evolutionary comparative aspects of mammalian, avian, reptilian, amphibian, and piscine organs and systems. Includes weekly laboratory.

ZOOL 4600

Ornithology

4:3:2

On Sufficient Demand

• Prerequisite(s): BIOL 1620, ZOOL 3100 highly recommended

Provides an in-depth study of avian evolution, systematics, developmental anatomy (wings, beaks, feathers), physiology, and social and reproductive behavior. Emphasizes an evolutionary and adaptive theme to the study of birds. Includes lectures, laboratories and field trips.

ZOOL 4700

Advanced Anatomy

3:2:3

F, Sp

• Prerequisite(s): ZOOL 2320 and Student Teaching Assistant (STA) status 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, and palpation of the body. Requires problem solving and analytical thinking. Includes the theory and basic principles of various forms of diagnostic imaging, light and electron microscopy, skeletal preparation, and injection/maceration techniques. Includes weekly laboratory.

ZOOL 4750

Human Physiology A Cell Biology Approach

4:3:3

Not 07-08

• Prerequisite(s): BIOL 3400

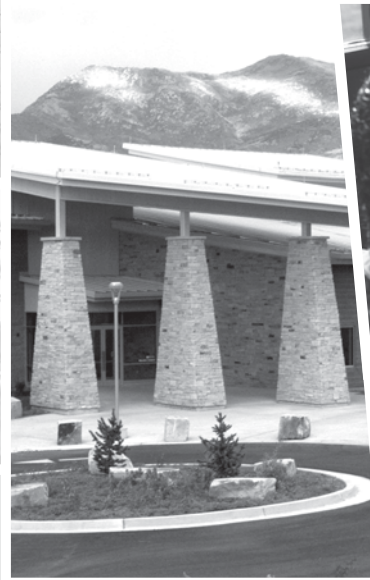
Addresses physiological principles and functions of the human body systems at the molecular level. Emphasizes cell signal transduction involved in the body maintaining homeostasis. Gives special attention to nervous, muscular, cardiovascular, urinary and respiratory systems. Students will be required to use problem solving and analytical thinking skills to be successful in the class. Includes weekly laboratory.

Course Descriptions

ZOOL 4780
Neuroscience
4:4:0 **On Sufficient Demand**
• Prerequisite(s): ZOOL 2420
Focuses on neurobiology and neuroscience, covering aspects of molecular and cell biology, physiology, pharmacology, anatomy and the interplay of these and other disciplines in our understanding of the structure and function of the nervous system. Topics to be covered include neuroanatomy and developmental neurobiology, electrophysiology and membrane specializations related to signal propagation and signal transmission, neurotransmitter function and neuropharmacology, structure and function of simple neuronal circuits and complex neural networks and the plasticity of the nervous system, among others. Incorporates discussion of journal articles related to the latest advances in neuroscience. Requires students write a paper on a neuroscience topic of interest to them.

Wasatch Campus

Catalog 2007-2008



The UVSC-Wasatch Campus is located in Heber City Utah and serves the higher education needs in the Wasatch mountain communities. Classes are small, instructors are excellent, and students receive individual attention. You can earn your Associate of Arts or Associate of Science degree and transfer to colleges in the state of Utah or to another state. You may also earn your Bachelors degree in Elementary Education. You can do all this while enjoying the beauty of living and going to school in the Wasatch mountains. For more information about the Wasatch Campus see www.uvsc.edu/wasatch.

Success.

Wasatch Campus

**3111 North College Way
Highway 40
Heber City, Utah 84032**

Assistant Vice President for Wasatch Campus, Shad E. Sorenson

Office: WC 209d
801-863-7072
435-654-6482

Mgr., Financial Operations: and Administrative Office Barbara McReynolds

Office: WC 209
801-863-6641
435-654-6482

Director, High School Relations: Doug Gardner

Office: WC 209a
801-863-6608
435-654-6482

Student Services

Academic and Career Advisor/Testing:
Adrienne Sumsion
Office: WC 210
801-863-6615
435-654-6482

Student Life /Academic Advisor: Katie
Young
Office: WC 207
801-863-6618
435-654-6482

One Stop Advisor: Caryl Miles
Office: WC 131
801-863-6607
435-654-6482

Librarian/Bookstore: Colette
Rasmussen
Office: WC 202
801-863-6629
435-654-6482

Utah Valley State College offers a campus located in Heber City, approximately 30 miles from the Orem campus. The Wasatch Campus is proud to provide classes that are small and personable taught by highly qualified instructors.

General Education classes, essential to meeting the general education

requirements for an Associate in Arts or Science degree, are offered each semester. Both day and evening classes are available.

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.uvsc.edu/acadsched.

DEGREE PROGRAMS

The Wasatch Campus offers two-year degrees in both Associate in Arts and Associate in Science. Pre-requisite classes for entrance into other programs are also



offered.

Completion of the Utah Valley State College general education requirements will fulfill the general education requirements at all colleges and universities within the Utah System of Higher Education.

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. The Wasatch Campus and School of Education offers a bachelor degree in Elementary Education. Pre-professional courses for admission into the Elementary Education Program are offered at the Wasatch Campus. Students interested in the degree should be taking preparatory classes for admission into future cohorts, the next cohort will begin Fall 2007.

The Wasatch Campus, Intermountain Health Care and the School of Science and Health will begin Nursing Program Cohorts Fall 2007 and Spring 2008. The program will include some travel to complete clinical/course assignments. Course delivery modes include live instruction and distance education mediums. Admission



requirements and deadlines for the Wasatch Campus Nursing Program are equivalent to those on the Orem Campus.

STUDENT SERVICES

The following student services are available:

- Academic and financial aid advisement
- Admissions, registration and cashiering services
- Testing and assessment services
- Complete full-service computer labs equipped with internet access
- Bookstore
- Library



Reference

Catalog 2007-2008



Considered an affordable option in higher education, Utah Valley State does not cut corners on quality. This is evidenced by the number of graduates gaining meaningful employment or acceptance into top-ranked graduate schools. With small class sized, knowledgeable faculty and instruction incorporating the latest technologies, Utah Valley students experience a relevant and applicable academic experience.

Success.

Administration



Utah Valley State College began with the mission of meeting the education needs of this region sixty-five years ago. Even though the name of the institution has changed over the years, the central mission has not and will not change. Providing a quality educational experience for our students remains the central mission of this great institution and is the core motivator in moving it forward.

Success.

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 Marcus Jorgensen
 Director, Compliance & Policy Administration Nancy Bartlett
 Coordinator, Constituent Relations Jared Sumsion
 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
 Director of Budgets Linda L. Makin
 Internal Auditor Brent R. Turner

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 Ross Ford
 Dean, School of Business Stanley Earl Jenne
 Associate Dean, School of Business Janice Gygi
 Dean, School of Education Briant J. Farnsworth
 Dean, School of General Academics Bonnie Henrie
 Associate Dean, School of General Academics K.D. Taylor
 Dean, School of Humanities, Arts and Social
 Sciences William W. Cobb, Jr.
 Associate Dean, School of Humanities, Arts and Social
 Sciences Kathie Debenham
 Dean, School of Science and Health Samuel Rushforth
 Associate Dean, School of Science and Health Bill Evenson
 Associate Dean, School of Science and Health Lori Barber

Administration

Interim Dean, School of Technology and
Computing Ernest Carey
Associate Dean, School of Technology and
Computing Ernest Carey
Associate Dean, School of Technology and
Computing Diane Hartman
Associate Dean, School of Technology and
Computing Larry Marsing
Associate Dean, School of Technology and
Computing Gordon Stokes
Dean, Continuing Education Pamela Gardner
Director, Faculty Center for
Teaching Excellence Jerry Christopherson

ADMINISTRATION AND EXTERNAL AFFAIRS

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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
Interim Director, Public Safety Chris Rockwood
Director, Physical Plant Robert Clark
Director, Space Management Frank Young
Director, Accounting Michael Jones
Director, Auxiliary Services Kenneth Matthews
Director, Business Affairs Bernell Hofheins
Director, Small Business Development Center Steve Clark
Executive Director, Human Resources Patricia Forbes
Director, Printing Services David Scott
Director, Purchasing Ryan Lindstrom
Director, 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
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

BUDGET OFFICE

Director of Budgets Linda Makin
Senior Budget Analyst Ellen Y. Sweat

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 Pianezzola
Director, Data Management Bart Jacobs
Director, Event Mike Maughan
Director, Planned Giving Glenn Simmons
Director, Publication and Creative Services Melynda Burt
Director, Stewardship and Donor Relations Nancy Smith
Director, Studios and Engineering Will McKinnon
Director, Web Resource Anne Arendt

STUDENT AFFAIRS

Vice President Cory L. Duckworth
Associate Vice President, Student Services/
Dean of Enrollment Management Michelle Lundell
Director, Prospective Student Services Jill Smith
Director, Enrollment Marketing Michael Snapp

Administration

Senior Director, One Stop Shop Liz Childs

Director, Financial Aid Joanna McCormick

Registrar LuAnn Smith

Director, Graduation/Transfer Services Margaret Bellon

Assistant VP, Career and Academic Advisement . Wayne Mangelson

Senior Director, Career and Academic Counseling Paula Tibbitts

Director, Multicultural Center Gwen Anderson

Director, Accessibility Services Sherine Miller

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 TBD

Director, Internship Services Cary Boone Jones

Director, Disability Career Services Sue Stephenson

Assistant Vice President, Student Life,
Dean of Students Bob Rasmussen

Director, Sorensen Student Center/
Auxiliary Services Ken Mathews

Director, Student Health Services Bill Erb

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, School, College and University Partnerships Liz Andrus

Director, Statewide GEAR UP Anne Sherry

Associate VP/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 Chris Brown

Director, Center for the Advancement of Leadership..Bruce Jackson

Faculty



Success.
A Utah Valley State of mind.

Success.

FACULTY

Tenured and tenure-track faculty members are listed in alphabetical order. Date in parentheses indicates first year of full-time employment at UVSC.

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.

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); Assistant Professor, Business Management; B.S., Math-Science, Brigham Young University; MBA, Westminster College; Ph.D., (ABD) Organizational Leadership, University of Phoenix.

AESCHBACHER, Max (2005); Instructor, 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.

AMOS, Milo (2001); Lecturer, English/Literature; B.A., English, Brigham Young University - Hawaii; M.A., English; M.A., History, Brigham Young University.

ANDERSON, Douglas D. (1978); Department Chair/Professor, Art and Visual Communications; B.A., Fine Arts; M.S., Industrial Education, Brigham Young University.

ANDERSON, Genan (2001); Associate Professor, Early Childhood 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, 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, Multimedia Communication Technology; 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, Business

Faculty

Management; 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.

B

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Prefixes

PREFIX	ACADEMIC SUBJECT
ACC.....	Accounting
ACRT	Air Conditioning and Refrigeration Technology
AERO.....	Aerospace Science
AMST.....	American Studies
ANTH.....	Anthropology
APPR.....	Apprentice
ARCH.....	Archaeology
ART.....	Art
ARTH	Art History
ASL	American Sign Language
ASTR.....	Astronomy
AUT	Automotive Technology
AVSC	Aviation Science
BCCM.....	Building Construction and Construction Management
BESC	Behavioral Science
BIOL.....	Biology
BIT.....	Building Inspection Technology
BMED	Business/Marketing Education
BOT.....	Botany
CA.....	Culinary Arts
CAW.....	Cabinetry and Architectural Woodwork
CHEM.....	Chemistry
CHIN.....	Chinese
CJ.....	Criminal Justice
CLSS.....	College Success Studies
CS	Computer Science
COMM.....	Communications
CRT	Collision Repair Technology
DANC.....	Dance
DENT.....	Dental Hygiene
DGM.....	Digital Media
DMT	Diesel Mechanics Technology
EART.....	Electrical Automation and Robotics Technology
ECFS.....	Education, Child and Family Studies
ECON.....	Economics
ECT	Electronic and Computer Technology
EDEC.....	Early Childhood Education
EDEL.....	Elementary Education
EDSC.....	Secondary Education
EDSP.....	Special Education
EENG	Electrical Engineering
EGDT.....	Engineering Graphics and Design Technology
ENGH.....	English - Basic Composition
ENGL.....	English and Literature
ENGR.....	Engineering Science
ENST.....	Environmental Studies
ENVT	Environmental Management
ESL.....	English As A Second Language
FAC	Facilities Management
FAMT	Fine Arts, Music, and Theater
FREN	French
FS	Fire Science
FSD.....	Fire Science - Driver/Operator
FSE	Fire Science - Emergency Medicine
FSF.....	Fire Science - Firefighter
FSH.....	Fire Science - Hazardous Material

PREFIX	ACADEMIC SUBJECT
FSO	Fire Science - Officer
FSP	Fire Science - Inspector
FSR.....	Fire Science - Rescue
FSW.....	Fire Science Wildland
GEO.....	Geology
GEOG.....	Geography
GER.....	German
HIST.....	History
HLTH.....	Community Health
HM	Hospitality Management
HONR.....	Honors
HUM.....	Humanities
HVAC.....	Heating, Ventilation, Air Conditioning
INFO	Information Systems & Technology
INST	Interdisciplinary Studies
IS.....	Integrated Studies
JPNS.....	Japanese
LANG	Languages
LEGL.....	Legal Studies
LINE.....	Lineman Technology
MAT.....	Mathematics - Developmental
MATH	Mathematics
MET.....	Manufacturing Engineering Technology
METO.....	Meteorology
MGMT.....	Business Management
MICR.....	Microbiology
MILS.....	Military Science
MTT.....	Machine Tool Technology
MUSC.....	Music
NURS.....	Nursing
NUTR.....	Nutrition
PES	Physical Education
PESM.....	Public & Emergency Services Management
PETE	Physical Education Teacher Education
PHIL.....	Philosophy
PHSC.....	Physical Science
PHYS.....	Physics
PJST.....	Peace & Justice Studies
POLS	Political Science
PORT.....	Portuguese
PSY.....	Psychology
REC	Recreation
RLST.....	Religious Studies
RUS	Russian
SOC	Sociology
SOSC.....	Social Science
SW.....	Social Work
SPAN	Spanish
TCT.....	Telecommunications Technology
TECH.....	Technology Management
THEA.....	Theatrical Arts for Stage & Screen
WELD.....	Welding Technology
ZOOL.....	Zoology

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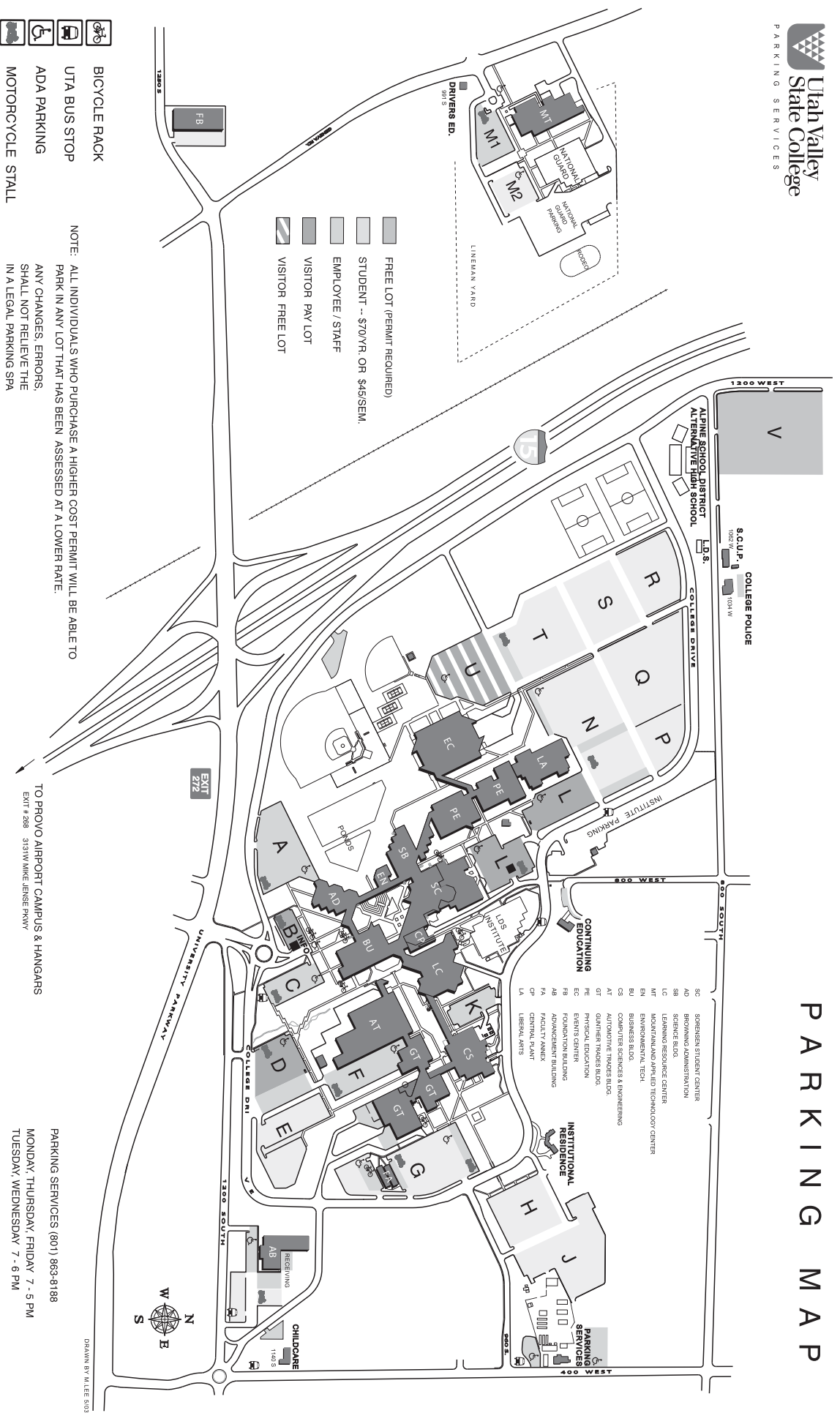
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PARKING MAP



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