

## **2002-2003 Course Catalog Course Credit Addendum**

### **Accounting:**

Acc 432 Tax Planning and Research (3-0) 3  
Acc 434 Advanced Accounting (4-0) 4  
Acc 435 Survey of Accounting Theory Trends (4-0) 4  
Acc 436W Auditing-Theory and Practice (4-0) 4  
Acc 470 Governmental/Not-For-Profit Accounting (4-0) 4  
BA 499 Independent Study 1-6

### **Agriculture:**

Agriculture Ag 101Tx Introductory Animal Science (3-3) 4  
Ag 102 Principles of Crop Production (3-3) 4  
Ag 150 Farm Records and Accounts (3-0) 3  
Ag 180 Sustainable Agriculture (3-0) 3

### **Anthropology:**

Anth 299 Individualized Study 1-6  
Anth 300 Proseminar in Anthropology (2-0) 2  
Anth 302 Research Issues in Evolutionary Anthropology (2-0) 2  
Anth 303W Anthropological Debates (4-0) 4  
Anth 306 Plains Archaeology (4-0) 4  
Anth 309 Archaeology of Britain (4-0) 4  
Anth 310 Geoarchaeology (4-0) 4  
Anth 455 Advanced Research in the Anthropology of Gender (2-0) 2  
Anth 496 Senior Capstone Seminar in Anthropology (2-0) 2  
Anth 499 Independent Study 1-6

### **Art:**

Art Art 101 Drawing (1-6) 4  
Art 109 Basic Design (1-6) 4  
Art 154 Indian Arts and Crafts I (0-6) 3  
Art 162R Art in the Humanities (3-0) 3  
Art 201 Figure Drawing (0-6) 3  
Art 365 Mesoamerican Art History (3-0) 3  
Art 366 Women, Art and Visual Culture (4-0) 4  
Art 367 American Art History: The Colonial Era to the 1930s (3-0) 3  
Art 385W Contemporary Art Process, Theory, and Criticism: Reading, Writing, and Making (4-0) 4  
Art 401 Interpretive Drawing (0-6) 3  
Art 413 Advanced Sculpture II (0-6) 3  
Art 424 Advanced Painting II (0-6) 3

Accounting:

- Art 425 Advanced Painting, Portrait, and Figure (0-6) 3
- Art 431 Advanced Printmaking II (0-6) 3
- Art 443 Photographic Design (0-6) 3
- Art 450 Advanced Ceramics II (0-6) 3

**Biology:**

- Bio 321 General Physiology (3-3) 4
- Bio 324 Mammology (3-3) 4
- Bio 331 Microbiology (3-3) 4
- Bio 332 Immunology (3-3) 4
- Bio 334 Ornithology (3-3) 4
- Bio 341 Vertebrate Comparative Anatomy (3-3) 4
- Bio 342 Embryology & Developmental Biology of the Vertebrates (3-3) 4
- Bio 350 Mycology (3-3) 4
- Bio 360 Bryophytes and Lichens (3-3) 4

**Business Administration:**

- BA 308 Office Management (3-0) 3
- BA 311 Business Law I (3-0) 3
- BA 312 Business Law II (3-0) 3
- BA 313 Ethical Issues in Business (3-0) 3
- BA 315 International Business Law (3-0) 3
- BA 316 Tourism and Recreation Law (3-0) 3
- BA 317 Technical Analysis-Securities (3-0) 3
- BA 325 Competitive Intelligence (4-0) 4
- BA 439 Marketing and Management of Services (4-0) 4
- BA 445W Marketing Strategy and Policy (4-0) 4
- BA 446 Marketing Research (3-2) 4
- BA 481W Cases in Financial Management (4-0) 4
- BA 485 Investments and Portfolio Management (4-0) 4
- BA 496 Senior Seminar in Strategic Management (4-0) 4
- BA 499 Independent Study 1-6

**Chemistry:**

- Chem 431 Advanced Organic Chemistry (3-0) 3
- Chem 454 Advanced Topics in Chemistry 1-4
- Chem 460 Synthesis Techniques (1-6) 3
- Chem 464 Advanced Inorganic Chemistry (3-0) 3
- Chem 465 Instrumental Analytical Chemistry (3-3) 4
- Chem 496 Senior Seminar (1-0) 1
- Chem 497 Senior Seminar (1-0) 1
- Chem 499 Independent Study 1-6

## **Computer Science Information Systems:**

- CSIS 332 Java Programming for the Internet (2-4) 4
- CSIS 340 Comparative Programming Languages (4-0) 4
- CSIS 350 Database Management Systems (4-0) 4
- CSIS 360 Software Engineering I: Systems Analysis (4-0) 4
- CSIS 361W Computers And Human Issues (4-0) 4

## **Economics:**

- Econ 364W Macroeconomics Theory (4-0) 4
- Econ 369 Public Finance (4-0) 4
- Econ 370 Topics In International Economics 1-6
- Econ 371 International Economics (4-0) 4
- Econ 381 Economics Of The Health Care Industry (4-0) 4
- Econ 382 Financial Institutions (4-0) 4
- Econ 410 Economics, A Radical Perspective (4-0) 4
- BA 499 Independent Study 1-6

## **Education:**

- Ed 426 Mathematics And Social Studies Methods For Elementary School (3-2) 4
- Ed 451 Preschool Teaching Practicum And Multicultural Seminar (2-2) 3
- Ed 452 Nutrition For Young Children (3-0) 3
- Ed 453 Cognitive Skills For The Young Child (3-3) 4
- Ed 456 Early Childhood Administration/Parent, Community Relations (2-3) 3
- Ed 457 Secondary Education Core Of Satellites 5

## **Engineering:**

- Engr 305 Surveying II (2-4) 4
- Engr 317 Mechanics Of Materials (3-0) 3
- Engr 321 Fluid Mechanics (3-0) 3
- Engr 499 Independent Study 1-6

## **English:**

- Engl 116T Introduction To Mass Communications (4-0) 4
- Engl 126 The Bible As Literature (The Hebrew Bible) (2-0) 2
- Engl 127 The Bible As Literature (The Christian Testament) (2-0) 2
- Engl 173R 20th Century Asian And African Literature (4-0) 4
- Engl 174R African-American Literature (4-0) 4
- Engl 175R Women's Literature (4-0) 4
- Engl 180N Literature of the Environment (4-0) 4
- Engl 378 Young Adult Literature (4-0) 4
- Engl 380 Native American Literature: Topics (4-0) 4

Accounting:

- Engl 404 Advanced Video Production (4-0) 4
- Engl 416 Media Theory And Criticism (4-0) 4
- Engl 417 Media Theory: Topics (4-0) 4
- Engl 420 World Literary Traditions: Topics (4-0) 4
- Engl 423 Genres: Topics (4-0) 4
- Engl 430 Medieval Literature And Chaucer: Topics (4-0) 4
- Engl 432 Shakespeare (4-0) 4
- Engl 450 Internship In Newspaper 1-6

**Exercise Science:**

- ES 235 Officiating Basketball (1-0) 1
- ES 237 Officiating Softball (1-0) 1
- ES 238 Officiating Soccer (1-0) 1
- ES 240 Clinical In Manual Muscle Testing (0-2) 1
- ES 243S Personal Health (3-0) 3
- ES 250 Teaching Competencies In Tumbling, Aquatics And Fundamental Skills (0-2) 1
- ES 251 Teaching Competencies In Dance, Recreational Games And Non-Traditional Sports (0-2) 1
- ES 252 Teaching Competencies In Basketball, Soccer, Softball And Volleyball (0-2) 1
- ES 253 Teaching Competencies In Fitness, Golf And Racquet Sports (0-2) 1
- ES 260 Lifeguard Training (American Red Cross) (1-2) 2
- ES 261 Water Safety Instructor (1-2) 2
- ES 424 Advanced Athletic Training (3-0) 3
- ES 425 Clinical In Medical Science (0-2) 1
- ES 450 Internship For The Exercise Specialist (3-0) 3
- ES 455 Internship In Sport Administration 8-12
- ES 480 Administration Of Programs In Exercise Science (3-0) 3
- ES 495 Research Design and Development (1-0) 1
- ES 496 Senior Seminar And Research In Exercise Science (2-0) 2
- ES 499 Independent Study 1-6

**Geology:**

- Geol 208 Optical Mineralogy (2-6) 4
- Geol 210 Petrology (2-3) 3
- Geol 323 Geomorphology (3-3) 4
- Geol 325 Introduction To Remote Sensing (3-3) 4
- Geol 332 Plate Tectonics (3-0) 3
- Geol 333 Introductory Paleontology (2-3) 3
- Geol 337 Structural Geology (3-3) 4
- Geol 361 Stratigraphy And Sedimentation (3-3) 4
- Geol 363 Sedimentary Petrology (3-2) 4
- Geol 364 Igneous And Metamorphic Petrology (3-3) 4
- Geol 380W Technical Writing In Geology (3-0) 3

**History:**

- Hist 306 Ancient Women's Religions (4-0) 4

Accounting:

- Hist 308 Rise Of Christianity (4-0) 4
- Hist 311 Colonial And Revolutionary America: 1492-1789 (4-0) 4
- Hist 314 Inventing America, 1789-1850 (4-0) 4
- Hist 315 Irish, Catholic, American (4-0) 4
- Hist 316 Civil War America (4-0) 4
- Hist 318 Emergence Of Modern America, 1893-1939 (4-0) 4
- Hist 320 Western/Southwest American History (3-0) 3
- Hist 322 Western American Mining (4-0) 4
- Hist 371 History Of Central America (4-0) 4
- Hist 372 United States-Latin American Relations (4-0) 4
- Hist 373 History Of Mexico (4-0) 4
- Hist 382 Reformation Europe And The Wars Of Religion (4-0) 4
- Hist 396W Philosophy And Methods (4-0) 4
- Hist 440 Advanced Studies In African History (3-0) 3
- Hist 446 Ancient Israel And Judah (3-0) 3
- Hist 450 Advanced Studies In East Asian History (3-0) 3

**Mathematics:**

- Math 215Q Mathematics For The Elementary School Teacher (2-2) 3
- Math 221Q Calculus I (4-0) 4
- Math 222Q Calculus II (4-0) 4
- Math 223Q Calculus III (4-0) 4
- Math 300W Writing In Mathematics (3-0) 3
- Math 301Q Foundations For Advanced Mathematics (4-0) 4
- Math 305Q Discrete Mathematical Structures (3-2) 4
- Math 310Q Methods Of Teaching Mathematics In The Secondary School (3-0) 3

**Modern Language:**

- ML 130 Mexican Readings (4-0) 4
- ML 135 Introductory Japanese I (4-0) 4
- ML 136 Introductory Japanese II (4-0) 4
- ML 147 Elementary French I (4-0) 4
- ML 148 Elementary French II (4-0) 4
- ML 215 Intermediate Spanish I (4-0) 4
- ML 216R Intermediate Spanish II (4-0) 4
- ML 219 Intermediate Spanish Conversation (4-0) 4
- ML 223 Intermediate German I (3-0) 3
- ML 224R Intermediate German II (3-0) 3
- ML 235 Intermediate Japanese I (4-0) 4
- ML 236 Intermediate Japanese II (4-0) 4
- ML 247 Intermediate French I (3-0) 3
- ML 248 Intermediate French II (3-0) 3

**Music:**

Accounting:

- Mu 104 Piano Class Instruction II (0-2) 1
- Mu 105 Concert Choir (0-3) 1
- Mu 106 Chamber Choir (0-2) 1
- Mu 107 Special Choirs (0-2) 1
- Mu 108 Introduction to Guitar (1-3) 2
- Mu 109, 209, 309, 409 Applied Music (Piano, Voice, Brass, Woodwinds, Percussion, Strings) 1 or 2
- Mu 110 Band (0-4) 1
- Mu 111 Brass Ensemble (0-3) 1
- Mu 318 Percussion Ensemble (0-3) 1
- Mu 319 Jazz Ensemble (0-3) 1
- Mu 320 Mallet Ensemble (0-3) 1
- Mu 331 Music History I (3-0) 3
- Mu 332 Music History II (3-0) 3
- Mu 349 Conducting I (2-0) 2
- Mu 350 Conducting II (2-0) 2
- Mu 415W Literature And Conversation: Writing About Music (3-0) 3
- Mu 423 Orchestration (1-0) 1

**Philosophy:**

- Phil 379 Modern Philosophy: 17th and 18th Centuries (4-0) 4
- Phil 380 Nineteenth Century Philosophy (4-0) 4
- Phil 381 Metaphysics (4-0) 4
- Phil 382 Philosophies Of The Southwest (3-0) 3
- Phil 384 Philosophy of Mind and Language (4-0) 4
- Phil 451 Studies In Great Philosophers (4-0) 4
- Phil 480W Contemporary Political Thought (4-0) 4
- Phil 496 Senior Seminar (4-0) 4
- Phil 499 Independent Study 1-6

**Political Science:**

- PS 101S Introduction To Political Science (4-0) 4
- PS 110S U.S. National Government (4-0) 4
- PS 120S State And Local Government (4-0) 4
- PS 140 Introduction To Law And Legal Systems (4-0) 4
- PS 205N Environmental Politics (3-0) 3
- PS 241 Introduction To Criminal Justice Systems (4-0) 4
- PS 250W Introduction To Political Analysis (4-0) 4
- PS 251W Advanced Research Methods (4-0) 4
- PS 264 Social and Political Philosophy (4-0) 4
- PS 280S Introduction To Comparative Politics (4-0) 4

- PS 495 Proseminar in Political Science (2-0)
- PS 496 Senior Seminar (2-0) 2

PS 499 Independent Study 1-6

**Psychology:**

- Psychology Psyc 110S Human Relations (3-0) 3
- Psyc 157 Introduction To Psychology (3-0) 3
- Psyc 218 Psychological Foundations Of Education (2-0) 2
- Psyc 233 Personality (4-0) 4
- Psyc 241Q Basic Statistics For Psychologists (4-0) 4
- Psyc 392 Foundations Of Clinical Psychology (4-0) 4
- Psyc 393 Health Psychology (4-0) 4
- Psyc 394 Field School In Clinical Psychology 6
- Psyc 395 Seminar + Practicum In Clinical Psychology (4-0) 4
- Psyc 406 Case Studies In Neuropsychology (4-0) 4
- Psyc 420 Counseling Skills (4-0) 4
- Psyc 425 Social Psychology (4-0) 4
- Psyc 426 Sensation And Perception (4-0) 4

**Sociology:**

- Soc 210W Social Inquiry And Research Methods (4-0) 4
- Soc 250R Social Issues In Contemporary Native Societies (4-0) 4
- Soc 275S Families, Marriages, And Other Sex-Role Systems (4-0) 4
- Soc 279R Ethnicity, Gender, And Class In The Southwest (4-0) 4
- Soc 280S Popular Culture And Mass Communication (4-0) 4
- Soc 300W Theories Of Social And Personal Life (4-0) 4
- Soc 301 Comparative Societies (4-0) 4
- Soc 310 Ecology And Society (4-0) 4
- Soc 311 Ecology And Society Field School 8

**Southwest Studies:**

- SW 256 Introduction To Museums (3-0) 3
- SW 265 Art History Of The Southwest (3-0) 3
- SW 280 Native American In The Modern World (3-0) 3
- SW 282 The Hispano Culture Of The Southwest (3-0) 3
- SW 301W Writing In The Southwest Studies Discipline (3-0) 3
- SW 315 Native American Newswriting (3-0) 3
- SW 317 History Of American Indians In Film (3-0) 3
- SW 320 Western/Southwest American History (3-0) 3
- SW 322 American Indian Philosophies (3-0) 3
- SW 323 Southwest Indian History (3-0) 3
- SW 326 West And Southwest In Film And Fiction (3-0) 3

**Theatre:**

- Thea 230 Stage Technology (3-2) 4

Accounting:

Thea 231 Make-Up For Stage (2-0) 2  
Thea 233 Audition Techniques (2-0) 2  
Thea 236 Styles In Acting (3-2) 4  
Thea 240 Ancient And Classical Theatre (4-0) 4  
Thea 280 Interdisciplinary Studies: (Title) (4-0) 4  
Thea 300 Theatre Ensemble 1-4  
Thea 310 Design For The Theatre (4-0) 4

**Thematic Studies 2:**

TS2R 408 Genius, Knowledge and Representation (4-0) 4  
TS2S 400 Deconstructing Systems and the Pursuit of Anarchy (4-0) 4  
TS2S 401 Systems Perspective on Literacy (3-0) 3  
TS2S 402 Movements of Resistance (4-0) 4  
TS2S 403 Game Theory: Rationality and the Social Sciences (4-0) 4  
TS2S 404 Gender and the Sciences (4-0) 4  
TS2T 400 Computers, Solar Energy, Ethics and You! (4-0) 4

**Women's Studies:**

WS 365 Women And Development (3-0) 3  
WS 495 Capstone Colloquium In Women's Studies (2-0) 2  
WS 499 Independent Study in Women's Studies 1-6



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## FORT LEWIS COLLEGE 2002-03 ACADEMIC CALENDAR

**Fall 2002 - Winter 2003**

**1st Summer Session 2003 - 2nd Summer Session 2003 - 3rd Summer Session 2003**

### FALL TRIMESTER 2002

\*Classes begin

**Monday, September 2**

Deadline for adding classes and dropping without record (Census Date)

**Tuesday, September 17**

Mid-term grades due

**Friday, October 18**

*Winter Trimester Registration:*

Advising

**Monday-Friday, November 4-8**

Registration

**Monday-Friday, November 11-22**

Thanksgiving Break

**Monday-Friday, November 25-29**

Last Day of Classes

**Friday, December 13**

Final Exams

**Monday-Friday, December 16-20**

Commencement

**Saturday, December 21**

Final Grades Due  
**Saturday, December 21**

**WINTER TRIMESTER 2003**

Student Orientation  
**Thursday-Friday, January 9-10**

\*Classes begin  
**Monday, January 13**

Deadline for adding classes and dropping without record (Census Date)  
**Tuesday, January 28**

Mid-term grades due  
**Friday, February 28**

Spring Break  
**Monday-Friday, March 10-14**

*Fall Trimester & Summer Registration:*  
Advising  
**Monday-Friday, March 24-28**

Registration  
**Monday-Friday, March 31-April 11**

Last day of classes  
**Friday, April 25**

Final exams  
**Monday-Friday, April 28-May 2**

Commencement  
**Saturday, May 3**

Final grades due  
**Monday, May 5**

**1ST 5-WEEK SESSION 2003**

\*Classes begin

**Monday, May 5**

Deadline for adding classes and dropping without record (Census Date)

**Friday, May 9**

Term ends

**Friday, June 6**

Commencement

**Saturday, June 7**

Final grades due

**Monday, June 9**

**2ND 5-WEEK SESSION 2003**

\*Classes begin

**Monday, June 9**

Deadline for adding classes and dropping without record (Census Date)

**Friday, June 13**

Term ends

**Friday, July 11**

Final grades due

**Monday, July 14**

**3RD 5-WEEK SESSION 2003**

\*Classes begin

**Monday, July 14**

Deadline for adding classes and dropping without record (Census Date)

**Friday, July 18**

Term ends

**Friday, August 15**

Final grades due

**Monday, August 18**



*\*This date is also the deadline for consideration for any changes in tuition classification for the term indicated.*

**THIS IS A PLANNING CALENDAR ONLY, SUBJECT TO ANNUAL REVISION AND APPROPRIATE CHANGES**



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## ACADEMIC PROGRAMS

The academic programs at Fort Lewis College are offered through the Schools of Arts and Sciences, Business Administration, and Education.

**Degrees Offered**

**School of Arts and Sciences**

**School of Business Administration**

**School of Education**

**Student Constructed Major**

## Degrees Offered

Fort Lewis College offers a number of programs leading to the bachelor's degree. The Bachelor of Science degree is offered in biology, chemistry, geology, and physics; the Bachelor of Arts degree is granted in all other four-year programs. In addition, the College offers a program leading to the Associate of Arts degree in agricultural science.

The Fort Lewis College teacher education programs have been approved by the Colorado Department of Education. Licensing programs are offered for the following: early childhood (pre-school, K-2), middle childhood (elementary), young adult (secondary), and K-12 (art, music, PE) education.

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### **School of Arts and Sciences**

Courses in agriculture, anthropology, art, biology, chemistry, communications, computer science, engineering, English, environmental policy, forestry, French, geology, general science, German, health careers, history, Japanese, Latin, mathematics, music, Navajo, philosophy, physics, political science, sociology, Spanish, statistics, and theatre, as well as interdisciplinary work in a number of areas (such as international studies, religious studies, southwest studies, and women's studies) are offered in the School of Arts and Sciences.

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### **School of Business Administration**

The School of Business Administration is an AACSB International Accredited professional school offering instruction in accounting, agricultural business, business administration, engineering management, finance, information management, international business, management, marketing, tourism and resort management, and economics.

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### **School of Education**

The School of Education prepares students for licensure at the early childhood (pre-school, K-2), middle childhood (elementary), young adult (secondary), and K-12 (art, music, PE) levels. Major certification programs of study in English education, exercise science (PE), and music education are also available. Students can add on endorsements in bilingual, English as a second language, early childhood (pre-school, K-2), and early adolescent (middle school) education to various licenses.

The School of Education is also home to the departments of Exercise Science and Psychology.

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### **Student-Constructed Major**

The College has established the student-constructed major to meet particular needs and purposes. Such a major is usually interdisciplinary, always designed to meet the special needs and talents of individual students, and generally differs substantially from course combinations and emphases that are available through majors, minors, and electives in the established curriculum.

Among recent student-constructed majors are majors in criminal justice, French, German, international studies, commercial art, and southwestern peoples. Student-constructed major contract forms and requirements are available in the Academic Advising Center.

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## **REQUIREMENTS FOR GRADUATION**

### **General Requirements**

#### **Majors**

#### **Minors**

#### **Free Electives**

#### **Second Bachelor's Degree**

#### **Petitioning to Graduate**

#### **Commencement and Graduation**

### **General Requirements**

Each candidate for graduation must complete a minimum of 120 credits, with at least a minimum cumulative grade point average of 2.0 and a minimum grade point average of 2.0 for those courses accepted to meet the requirements for the major and minor course of study. It is the responsibility of the student to know and complete all graduation requirements.

Candidates for bachelor's degrees must complete three elements in their academic programs: general education requirements, major requirements, and free electives. Each candidate must complete a minimum of 35 credits in the general education program to be chosen as outlined below and a minimum of 30 credits in a field of specialization, called the major. The balance of the 120 credits required for graduation is made up of courses called free electives. The student has wide latitude in selecting these, although some of them may be specified in certain programs as auxiliary to the major or for teacher licensing. Many students choose to use electives to complete the requirements for a minor.

A student must complete his or her final 30 credits in residence. Exceptions to this requirement include the

Engineering Transfer Program (3-2 program) or the Senior Year Transfer Credit Policy. The Senior Year Transfer Credit Policy: Of the last 40 semester credits earned immediately preceding graduation, 2 courses not to exceed 10 credits may be completed at another regionally accredited college or university. It is recommended that the student receive confirmation of course transferability prior to registration at the other institution. The Vice President for Academic Affairs may make other exceptions in unusual circumstances on recommendation of the appropriate school dean.

Among the 120 credits required for the degree, 45 credits must be upper-division courses. No more than 28 credits will be accepted for work completed by correspondence, extension, or educational television.

A course offered in substitution for a required course or the request that a requirement be waived must be initiated through an appointment with a Records Office representative who, with the student, will initiate the "Exception to Graduation Requirements" process. The appropriate Department Chair and/or Dean of the School will determine approval.

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## **Majors**

Each student seeking a baccalaureate degree must select a major area of study for specialization. The College now offers majors in accounting, anthropology, art, biology, business administration, chemistry, computer science information systems, economics, English, exercise science, geology, history, humanities, mathematics, music, philosophy, physics, political science, psychology, sociology/human services, southwest studies, Spanish, and theatre. In addition to these regular majors, the College has established a procedure whereby a student with a special purpose may construct his/her own major. Ordinarily, this major should be of an interdisciplinary character and be submitted for approval no later than the end of the first term of the junior year. The advisor, the appropriate school dean, and the Vice President for Academic Affairs must approve the student-constructed major contract.

Students may elect to complete concurrently the requirements for two majors. The "Petition for Candidacy for a Degree," which is sent to the student once 80 credit hours have been earned, must be completed with both majors listed and submitted to the Records Office. Any major or minor additions or changes after submission of the original "Petition for Candidacy for a Degree" must be made on the "Request to Change Graduation Information" form in the Records Office. Courses meeting auxiliary requirements may count in meeting curriculum requirements for the second major. Both majors must be completed prior to a degree being awarded.

The Associate of Arts degree is offered in Agricultural Science.

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## **Minors**

Most departments, even though not required for graduation, offer minors. Requirements for a minor are described under the program of study for each department or can be obtained from the department. No more than one course from your major department will count toward any minor. For additional information regarding a minor, consult the department chair.

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## **Free Electives**

The third part of a student's program of study consists of additional courses called "free electives," selected in accordance with his or her ability, interest, and purpose. The courses permit students to become acquainted with other areas of knowledge to broaden their education, to supplement their major areas of concentration, to meet specific requirements of a graduate school, to take professional teacher certification courses, or to add a second teaching field.

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## **Second Bachelor's Degree**

Students pursuing a second bachelor's degree at Fort Lewis College after earning the first bachelor's degree at another institution must complete a minimum of 30 credit hours at Fort Lewis College. To be recognized, the first degree must be from a regionally accredited institution. If the first bachelor's degree was either a bachelor of arts or a bachelor of sciences degree, the student will be exempt from general education requirements, needing to complete only the requirements for the major, including auxiliary requirements. Students whose first degree was a degree other than a bachelor of arts or bachelor of science (e.g., BFA) will be required to fulfill general education requirements as well as major requirements, either by transfer of equivalent courses or by taking appropriate courses at Fort Lewis College.

Students pursuing a second degree after previously, or while concurrently, earning their first bachelor's degree at Fort Lewis College, will be required to complete a minimum of 30 additional semester credit hours in residence. The student will be exempt from general education requirements for the second degree, needing to complete only the requirements for the major, including auxiliary requirements. The two degrees may be granted simultaneously, providing all requirements have been completed for both degrees.

No honors are awarded upon the receipt of a non-concurrent second bachelor's degree.

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## **Petitioning to Graduate**

Once a degree-seeking student reaches 80 earned credit hours, the Records Office will automatically send the student a "Petition for Candidacy for a Degree." The petition will request verification of academic information such as degree type, major, minor, major concentrations, and anticipated date of graduation. Students have twenty-one days to submit the petition to the Records Office to verify that it is correct or make corrections. Upon receipt of the Petition from the student, an initial graduation checklist will be sent to the student prior to academic advising and early registration.

NOTE: This form must be submitted to the Records Office to initiate graduation checklist. At the same time, the student's account will be automatically assessed the graduation fee. The student will receive an updated graduation checklist the term prior to their term of anticipated graduation.

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## **Commencement and Graduation**

There are three commencement ceremonies each year: in December, following the fall term; in April or early May, following the winter term; and in June, following the first summer session. A student may walk in only one commencement ceremony. Each student is assigned to walk in the commencement ceremony that occurs at the end of the term in which the student is completing ALL degree requirements. Any student who will complete his or her graduation requirements in any of the three summer sessions will be assigned to the June commencement ceremony. A student may request to walk in a ceremony other than the assigned ceremony by submitting a request in writing to the Registrar. This request should be submitted at least four weeks in advance of the ceremony in which the student wishes to participate.

Students who have petitioned to graduate will be awarded the appropriate degree and honors upon satisfactory completion of all graduation requirements. Participation in a commencement ceremony does not imply satisfactory completion of requirements.

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## **THE CURRICULUM**

The figures after each course [e.g., (3-2) 4] have the following meanings: The first figure in the parentheses refers to hours spent in lecture or seminar sessions, and the second number refers to hours in laboratory or studio each week.

The figure outside the parentheses refers to semester credits.

The course numbering system is described in the following table:

<b>Course Number:</b>	<b>Intended for:</b>	<b>Open to:</b>	<b>Instructor Permission Required for:</b>
<b>Below 100</b>		(Open only to students with demonstrated need)	
<b>100-199</b>	Fr	So	Jr, Sr
<b>200-299</b>	So	Fr, Jr	Sr
<b>300-399</b>	Jr	So, Sr	Fr
<b>400-499</b>	Sr	Jr	Fr, So

Entry to all courses is limited to students who have completed published prerequisites or to those with instructor permission. Courses numbered below 100 do not count toward graduation. Courses numbered below 300 are called lower-division courses; courses number 300 or above are upper-division courses.

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## **GENERAL EDUCATION**

As a liberal arts institution, Fort Lewis College requires that students be broadly prepared to reason, evaluate, and communicate once they leave college to participate in society as productive citizens. While the majors provide the specialized knowledge necessary for pursuing a more focused path, the General Education component of the bachelor's degree serves to enhance, enlarge, and further develop students' skills and critical thinking abilities. Because some of the General Education requirements also count toward the major, students will have added opportunity to experience the goals and philosophy of a liberal arts education throughout their entire college career.

There are five components to the General Education portion of the bachelor's degree:

### **I. Composition**

### **II. Information Literacy**

### **III. Physical Activity and Wellness**

### **IV. Thematic Studies 1 & 2**

### **V. Quantitative Reasoning**

## **I. Composition**

### *First Year Academic Writing Requirement*

Students will complete the first part of the academic writing requirement by taking one course, Comp 150, Reading and Writing in College, or two courses, Comp 125/126, Reading in College (Intensive) and Writing in College (Intensive). Exemptions to this requirement are granted to students who earn a score of 650 or above on the SAT II Writing Test, a score of 4 or 5 on the Advanced Placement Test for English Composition/Literature, or who score a 4 or above on the English Exam of the International Baccalaureate Program.

### *Major Field Writing Requirement*

After completing Comp 150 (or Comp 125/126) and Lib 150 (see below), students must take the writing intensive course required by their major. These courses are designated with a "W" suffix. Writing intensive "W" courses may also be counted toward both major requirements and General Education requirements.

*Prerequisite:* Comp 150 (or Comp 125/126), Lib 150, and specific departmental requirements that appear in the catalog for the courses.

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## **II. Information Literacy (Lib 150)**

Library 150 examines the role information plays in daily life, how information is generated, and how it is organized. Emphasis will be placed on accessing and critically evaluating information, especially within the context of conducting research in an academic library.

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## **III. Physical Activity and Wellness**

Three courses of 1 credit each are required:

ES 100, 1 skills course, and 1 fitness course.

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## **IV. Thematic Studies**

Thematic Studies is a large and key component of General Education at Fort Lewis College. The Thematic Studies program addresses the goals of a liberal arts education - broad preparation so that students will be able to reason, evaluate, and communicate as productive citizens - by focusing on interdisciplinary learning centered around four theme-based knowledge areas. The themes are:

### *Culture, Identity, and Expression (R)*

Understanding cultural phenomena is critical to every student's college education because of the centrality of cultural experience in the organization of social life, including arrangements of power, access to resources, and the construction of identity. A focus on Culture, Identity, and Expression is especially important at Fort Lewis College because diversity education is central to the college mission. Courses offered in this theme area approach cultural understanding through comparative and historical perspectives. These courses also include discussion of contemporary issues, human agency, and a variety of linguistic and expressive phenomena important in the construction and transmission of cultural meaning and identity.

### *Systems and Institutions (S)*

Understanding how individuals, organizations, and institutions function within broader political, economic, and sociocultural systems helps students understand and navigate the complex world of which they are a part. The overall goal in this theme is that students develop a systemic approach to examining institutions, systems, and interactions among multiple systems, in addition to an understanding of the historical and contemporary components of systems. Courses in this theme area include consideration of how systems influence our ideas and actions and the individual's role in maintaining and transforming systems and institutions.

### *Technology (T/Tx)*

Courses in the Technology theme area examine the scientific underpinnings of various technologies such as communications and information systems, biological technology, and physical and electro/mechanical technologies. Students develop a basis for assessing technologies and an understanding of both the limitations and opportunities associated with technologies. In addition, the historical relationship between technological development and social change plus important ethical questions associated with technologies are examined.

### *Natural Environment (N/Nx)*

Natural Environment courses emphasize the importance of sustaining a balance between natural resources and human needs. These courses address interconnectedness as the fundamental principle of ecological systems and sustainability as the most important issue of the contemporary environmental debate. Consideration of global and local environmental issues, diverse approaches to analyzing these issues, plus opportunities for experiential learning including collection and analysis of data are aspects of Natural Environment courses.

As part of college-wide General Education requirements, students take one lower-division Thematic Studies course (TS1) from each of the theme areas. One of these courses must have an attached science lab (Tx, Nx). After completing all four TS1 courses, Comp 150 or 126, Lib 150, and achieving junior status, students take one upper-division interdisciplinary Thematic Studies course (TS2) from each of the theme areas. TS1 courses are listed in the catalogue and course schedule under departmental headings and are followed by one of the theme designations (R, S, T/Tx, N/Nx). TS2 courses are listed under Thematic Studies in the catalogue and course schedule.

Thematic Studies requirements look like this:

<b>Thematic Studies 1</b>	<b>Credit Hours</b>	<b>Thematic Studies 2</b>	<b>Credit Hours</b>
		Prerequisites: Comp 150 or 126, all four TS1 courses, Lib 150, plus junior standing	
R - 1 course	3-4	R - 1 course	3-4
S - 1 course	3-4	S - 1 course	3-4
T - 1 course	3-4	T - 1 course	3-4
N - 1 course	3-4	N - 1 course	3-4
x - lab			
<b>Total Thematic Studies Credit Hours: 24 - 32</b>			

TS1 courses may also count toward major requirements.

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## **V. Quantitative Reasoning**

All students are required to take one Quantitative Reasoning course. Quantitative Reasoning courses are identified in the catalogue and course schedule with a Q suffix. Many, but not all, of these courses are in the Math department.

Lower-division Q courses include:

<b>Math 110</b>	College Algebra (4)
<b>Math 121</b>	Pre-Calculus (4)
<b>Math 135</b>	Mathematical Concepts (3)
<b>Math 201</b>	Elementary Statistics (4)
<b>Math 210</b>	Calculus for Business and the Biological Sciences (4)

<b>Math 215</b>	Mathematics for the Elementary School Teacher (3)
<b>Math 221</b>	Calculus I (4)
<b>Math 222</b>	Calculus II (4)
<b>Math 223</b>	Calculus III (4)
<b>Psyc 241</b>	Basic Statistics for Psychologists (4)
<b>BA 253</b>	Business Statistics (4)

Placement into Math department Q courses is based on standardized test scores and high school records. Students without scores or transfer credit should take a placement exam during their initial advising session. This will be administered by the New Student Advising and Registration Office (NSAR). Students who do not plan to major in science, math, business, or psychology are advised to take Math 135 Mathematical Concepts rather than courses from the traditional math sequence (Math 110, 121, 210, or 221). Math 135 is designed to meet the needs of general liberal arts students.

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## REPEATABLE COURSES

Certain courses are repeatable but have limits on the number of credits that can be counted toward graduation. Art courses may be repeated once for a total of 6 credits in the following: Art 201, 227, 301, 313, 314, 324, 326, 331, 343, 350, 401, 413, 424, 425, 431, 443, and 450. The limit on physical activity courses is 6 credits in different physical activities or levels. Theatre 100, 200, 300, 366, and 400 are each repeatable for up to 12 credits.

A maximum of 18 credits are allowable toward graduation in any combination of Engl 250, 251, and 252, repeatable up to 6 credits; Engl 350, 351, and 352, repeatable up to 12 credits. A combined maximum of 12 credits from large ensembles-Mu 105, 110, 117, 305, 310, and 317-is allowable toward graduation. A combined maximum of 12 credits from each small ensemble-Mu 106/306, 111/311, 112/312, 113/313, 118/318, 119/319, and 300-is allowable toward graduation. Each applied music course-Mu 109, 209, 309, and 409-may be repeated once for credit for up to 4 total credits. A maximum of 16 credits in a single applied music area is allowable toward graduation. Mu 107, 207, and 407 are repeatable with limits.

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## COURSES COMMON TO ALL PROGRAMS

## **Comp 125**

### *Reading in College (Intensive) (3-0) 3*

This course introduces students to the purposes and practices of scholarship, with an intensive emphasis on the interplay of reading and writing in academic work. This course is designed for students who need a more closely guided and intensive introduction to academic reading and writing. Comp 125 and Comp 126 are college-level courses; students who need remedial instruction should complete TRS 90 and/or TRS 91, as recommended, before enrolling in Comp 125. Completion of Comp 125 and Comp 126 will fulfill the first year academic writing requirement; a student may not receive credit for Comp 150 if s/he has received credit for Comp 125 and Comp 126.

*Prerequisite: Placement into Comp 125 or completion of recommended remedial coursework in reading and writing.*

## **Comp 126**

### *Writing in College (Intensive) (3-0) 3*

In this course students analyze a variety of academic texts in different research literatures and complete an intensive series of writing assignments to teach them how to interpret arguments, identify constraints and bias, organize and present evidence, and compose their own contributions to intellectual dialogues. This course is designed for students who need a more closely guided and intensive introduction to academic writing. Completion of Comp 125 and Comp 126 will fulfill the first-year writing requirement; a student may not receive credit for Comp 150 if s/he has received credit for Comp 125 and Comp 126.

*Prerequisite: Comp 125*

## **Comp 150**

### *Reading and Writing in College (4-0) 4*

This course emphasizes the interplay of reading and writing in an academic environment. Students will analyze a variety of academic texts and complete a series of writing assignments designed to teach them how to interpret arguments, identify constraints and bias, organize and present evidence, and compose their own contribution to intellectual dialogues.

*Prerequisite: Placement in Comp 150*

## **Lib 150**

### *Information Literacy (1-0) 1*

This course examines the role information plays in daily life, how information is generated, and how it is organized. Emphasis will be on accessing and critically evaluating information, especially within the context of conducting research in an academic library.

## **COOP ED 200**

### *Cooperative Education 1-10*

A first-time cooperative education work experience by underclassmen.

## **COOP ED 300**

### *Cooperative Education 1-10*

A cooperative education work experience by upperclassmen. A maximum number of credits is allowed toward a degree.

## **COOP ED 400**

### *Cooperative Education 1-10*

An advanced cooperative education work experience by upperclassmen who have completed one or more Co-op terms. A maximum number of credits is allowed toward a degree.

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## **GENERAL STUDIES**

General Studies courses are focuses on topics that are from the perspective of more than one discipline. These courses do not fit an academic area represented by a single department or program.

### *General Studies 101 and 102RS*

#### *Human Heritage I and II (4-0) 4*

This two-term course is a study of Western, Chinese, and Native American intellectual traditions. The course is designed to help students understand how our cultural traditions influence our ways of looking at the world and how studying cultures other than our own expands and challenges our frame of reference. The course emphasizes intellectual, artistic, political, scientific, religious, and economic aspects of the three cultures from selected periods in history. Human Heritage II is a continuation of Human Heritage I. Students must complete both courses to fulfill the TS I requirements for Systems and Institutions (S) and Culture, Identity, and Expression (R) Thematic Studies areas.

#### *General Studies 151RN Integrated Learning Program (ILP) (21-3) 17*

This course integrates topics from the natural sciences (geology and ecology), the social sciences (policy analysis and economics), and the humanities (history, anthropology, and ethics) to explore topics of scholarly interests. The particular categories of general education TS 1 courses that this course satisfies are given below although these may differ each year.. Only students whose Reading/Writing placement is equivalent to Comp 150 will be eligible for the ILP program.

#### *Group Tx:*

Technology (with Lab) The ILP awards the equivalent of one course with laboratory worth 4 credits for understanding the scientific method as a way of knowing the world, understanding the scientific underpinnings of technology,

understanding some of the connections among science, technology and society (including unintended consequences), thinking critically about technologies and their effect on community, values, power and the way we think.

*Group N:*

Natural Environment (no Lab) The ILP awards the equivalent of one course worth 4 credits that provides an understanding of the natural environment by pursuing interdisciplinary inquiry of global and local environmental issues, integrating different ways of knowing and diverse voices, including experiential components and by encouraging students to engage in meaningful action.

*Comp 150: Reading and Writing in College*

The ILP awards credit for Comp 150, a course that emphasizes the interplay of reading and writing in an academic environment.

*Lib 150: Information Literacy*

The ILP awards credit for Lib 150, which examines the role information plays in daily life, how information is generated, and how it is organized.

*ES 100: Fitness and Wellness*

The ILP awards one credit for ES 100, which examines the basic physiological principles of exercise and nutrition.

*3 elective credits*

*General Studies 495 Environmental Colloquium (4-0) 4*

This course, which is a capstone course for the Environmental Policy Minor, involves conducting and reporting on an integrative project in weekly meetings involving several faculty members from across the academic disciplines. The project can involve research, assessment, or analysis of ongoing programs, policy, or proposals for action. This student-constructed project provides a Service Learning opportunity for students. *Prerequisites: Junior standing; Psyc 241, Math 201, or BA 253; and consent of instructor.*

*General Studies 496 Interdisciplinary Senior Seminar 2-4*

An interdisciplinary seminar for graduating seniors, this course provides a capstone experience of broad intellectual inquiry, including a focus on critical reading and thinking, problem solving, and the written expression of ideas. *Prerequisite: Senior standing.*

### *Special Topics 190 1-6*

This is not a fixed course but is a designation to take advantage of special opportunities and topics. It can be offered in any area with the consent of the school dean and the Vice President for Academic Affairs. This course may not be used to meet any general education requirement. Credit may vary from one to six credits per topic.

### *Special Topics 191 3-6*

This is not a fixed course but is a designation to take advantage of special opportunities and topics that meet the purpose of one of the thematic studies knowledge areas in the General Education Program. It can be offered in any area with consent of the General Education Council, the Vice President for Academic Affairs, and the Curriculum Committee. Credit may vary from three to six credits per topic.

### *Special Topics 390 1-6*

Same as Special Topics 190 except that this course is taught at the upper-division level. This course may not be used to meet any general studies requirement. Special Topics 391 3-6 Same as special Topics 191 except that this course is taught at the upper-division level.

### *Individualized Study 299 1-6*

Independent study for lower-division or non-major students. Available in most disciplines. Independent Study 499 1-6 All major fields require either independent study or a seminar at the senior level. Independent study may be undertaken in a field other than the student's major. To do so, the student must have the approval of the department chair in whose area the study will be made, and the professor who will supervise the study. Independent study in the field outside the student's major cannot be substituted for the requirement of independent study or seminar in his or her major field.

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## **SPECIAL ACADEMIC PROGRAMS**

**Transitional Studies**

**John F. Reed Honors Program**

**Cooperative Education**

**Extended Studies**

**English as a Second Language**

**Programs in Mexico**

## **School of Business Administration Trimesters Abroad in Europe**

### **TRS - Transitional Studies**

As the title implies, Transitional Studies courses are designed to assist students in their transition from high school to college. The classes do not give students credit toward graduation, but do carry credit that can be applied to financial aid and housing requirements. Students receive letter grades for TRS coursework.

#### *TRS 82 Introduction to Algebra (3-0) 0*

This course provides review and instruction in elementary algebra and offers the opportunity to apply these skills to word problems and critical thinking exercises.

#### *TRS 85 Fundamentals of English Grammar (2-0) 0*

This course reviews the fundamentals of English Grammar, usage, and punctuation.

#### *TRS 90 Reading for Ideas (3-0) 0*

This course introduces students to the active, iterative reading practices necessary to effectively read texts focused on concepts and ideas. Emphasis is on comprehension, meaning making, and generating and developing ideas for writing

#### *TRS 91 Introduction to Academic Writing (3-0) 0*

This course introduces students to the strategies that are fundamental to writing source-based texts. Emphasis is on summary, response, analysis, and synthesis of multiple sources.

#### *TRS 92 Intermediate Algebra (3-0) 0*

Designed to provide review and instruction in college preparatory mathematics for students with deficiencies in or apprehensions about required entrance level mathematics courses. The course will cover such topics as algebraic expressions, manipulation of signed numbers, solving equations and inequalities, algebraic fractions, polynomials, exponents, radical expression, and graphing. Students who wish to enroll in this course should have successfully completed at least the equivalent of Algebra I.

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**John F. Reed Honors Program**

For students of outstanding ability, the College offers the John F. Reed Honors Program, named for John F. Reed, President of Fort Lewis College from 1962 to 1969. Students who complete the John F. Reed Honors Program will receive special recognition at graduation and on their transcripts.

The John F. Reed Honors Program offers an enriched educational opportunity to students who enjoy working in small groups. Each Honors course draws on the scholarship and insights of more than one academic discipline and is conducted in the small-group, participatory setting of a seminar. Students admitted to the program are automatically accepted into any Honors course; students who are not enrolled in the program may take Honors courses with the consent of the instructors.

Students usually apply to enter the program at the end of the first term of their freshman year or at the beginning of the first term of their sophomore year. Admission to the program is based on an assessment of the student's Fort Lewis College academic achievement, faculty recommendations, and demonstrated interest. Application for admission to the program should be made to the Honors Coordinator.

John F. Reed Scholars are expected to maintain a minimum cumulative grade point average of 3.4. The John F. Reed Honors Program consists of the following core courses and additional requirements:

### **I. The Honors Core**

1. Comp 250 Academic Inquiry and Writing. This course guides students through the process of proposing, conducting and presenting an independent research project. Students admitted to the John F. Reed Honors Program who enroll in an honors-designated section of this course will be waived from the Comp 150 requirement of the General Education Program upon successful completion of Comp 250. 4 credits.
2. A minimum of four Honors Forum courses (Hon 220/420), at least two of which are at the 420 level. 4 credits.
3. Formal thinking course: either Logic (Phil 271) or Statistics (Math 201, BA 253, or Psyc 241). 4 credits.
4. Honors Thesis: first term, senior year (Hon 499) . 1 credit. Honors Thesis: second term, senior year (Hon 499). 1-2 credit(s)

### **II. Additional Requirements**

1. Completion of General Distribution requirements.
2. Proficiency in a foreign language through the intermediate level (equivalent to the second term of the second year).

3. Cumulative grade point average of at least 3.4.

### *Honors 220 Honors Forum (1-0) 1*

The purpose of this course is to facilitate critical evaluation and discussion of selected works having broad intellectual importance and accessibility to students of varied academic interests and backgrounds. Grading is on a pass-fail basis. Course is repeatable for credit for freshman- and sophomore-level students. *Prerequisites: Prior acceptance into Honors Program, Comp 150, Lib 150, and consent of the instructor.*

### *Honors 420 Honors Forum (1-0) 1*

This course continues the series of Honors Forums required for John F. Reed Honors students. Grading is on a pass-fail basis. Course is repeatable for credit for junior- and senior-level students. *Prerequisites: Prior acceptance into Honors Program, Comp 150, Lib 150, and consent of the instructor.*

### *Honors 499 Honors Thesis 1-2*

The Honors Thesis is the result of an independent study project undertaken during the senior year. The topic of the thesis must draw significantly on at least two academic disciplines. The student should choose a topic for the thesis in consultation with a faculty advisor, a reader from the second discipline, and the Honors Coordinator. At the end of the first term, the student must submit evidence of substantial work accomplished. During the second term, the student will complete the thesis and make a public presentation of the results.

### Return to Special Academic Programs

## **Cooperative Education Program**

Cooperative Education is an academic unit of the College that grants elective credit. The Cooperative Education Program (Co-op) is designed to assist students in applying valuable classroom knowledge to practical work and internship experiences. It also provides an opportunity for career exploration. Co-op at Fort Lewis College was established in 1970 as the first college-level co-op program in the state of Colorado. More than 200 Fort Lewis students per calendar year participate in the program.

Generally, students are eligible to participate in Co-op after they have completed their freshman year with a minimum 2.5 cumulative grade point average. Plans for enrollment should be initiated with the Co-op director and the student's advisor in the semester prior to the experience. The Co-op work experience normally corresponds to the academic trimester. No adding of Co-op credits will be permitted after the deadline for adding classes (census date).

The first step involves an interview with the Co-op Director, during which a written essay is submitted on the student's

learning objectives for the Co-op experience. The decision to admit a student into Co-op and to award final credit resides with the Director of Cooperative Education.

The Director assists students in defining career goals and locating appropriate placements. Student initiative is also supported and encouraged in designing internships and in contacting prospective employers. Students may work with private or public employers throughout the United States.

Cooperative Education credits are counted as general electives. They can be earned under the headings of Co-op 200, 300, or 400. The level and amount of credit depend on a variety of factors. The nature of the work experience is evaluated in the context of the student's course background and career and personal goals before a final determination is made on an individual basis for both the level and amount of Co-op credit.

The general criteria for a 200-level experience are that the student will be undertaking career exploration or will be beginning an entry-level position that is related to the major. First-time Co-op experiences are typically 200-level, particularly for students with lower-division standing.

A 300-level Co-op experience typically applies to upper-division students who bring a significant degree of appropriate course work into the workplace. Such students may qualify for 300-level credit in their first Co-op placement.

A 400-level experience is for seniors in their second or third placement where they have obtained a promotion to higher responsibilities than in their previous 300-level placement.

The guideline for awarding credit is that one semester hour of Co-op general elective credit may be earned in a trimester for each 50 contact hours on the job. The student's major requirements and limits imposed by the major on general elective credits are taken into account.

Co-op students have represented all majors at Fort Lewis; however, departments and schools vary in the number of elective hours accepted toward graduation. It is possible to apply up to 12 Co-op elective credits toward graduation in some programs. The School of Business Administration allows a maximum of 10 Co-op credits to apply toward graduation. It is the student's responsibility to verify the number of elective credits available in his/her degree program. In addition, the student should have the Co-op plan evaluated by his or her academic advisor.

Cooperative Education students analyze their work experience in the form of a daily work journal and a formal typed paper at the end of the trimester. The Co-op Director evaluates these written materials in cooperation with other faculty members when appropriate. Grading is on a credit (S) or no-credit (NC) basis.

At the beginning of the work experience an on-the-job supervisor is identified for each student. The supervisor submits a written performance evaluation at the end of the trimester to the Co-op Director. This document becomes

part of the overall evaluation process.

The Cooperative Education Program operates through the calendar year and enrolls students for the fall, winter, and summer trimesters. Each student receives a complete program information packet that includes instructions, policies, a listing of due dates, a job description form, a learning objectives statement, guidelines for journals and final papers and a publication from the National Commission for Cooperative Education, of which Fort Lewis College is a member. Students who are based in Durango pay regular tuition and fees. Students who work outside a 20-mile radius of the College pay regular tuition and reduced fees.

The Director of Cooperative Education at Fort Lewis College assists all students without discrimination.

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### **Extended Studies**

The Extended Studies program will develop and support on- and off-campus courses geared to specific audiences and specialized needs. Currently active are off-campus degree-completion and teacher certification programs. Address inquiries to the Director of Extended Studies.

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### **English as a Second Language Programs (ESL)**

Fort Lewis College offers a 10- and 13-week Intensive English Program each summer for international students. The program, which runs mid-May to mid-August, is designed to prepare non-English-speaking students linguistically and academically for college-level work in the U.S. Only advanced-intermediate to advanced students are accepted (minimum of 425 on the Test of English as a Foreign Language, TOEFL).

The ESL program emphasizes academic reading; academic writing, including essays and research papers; college skills, such as using the library for research and using the computer system; daily small discussion groups as well as culturally oriented field trips; and numerous excursions and activities. Successful completion of the Intensive English Program is accepted in place of a 500 TOEFL for admission to Fort Lewis College.

For further information, contact:

Laura Godfrey, Director

e-mail: [godfrey\\_l@fortlewis.edu](mailto:godfrey_l@fortlewis.edu)

phone: (970) 247-7615

write to:

278 Education/Business Hall,

Fort Lewis College  
1000 Rim Drive  
Durango, CO 81301

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### **Programs in Mexico**

Fort Lewis College has encouraged a number of Study Abroad opportunities in Mexico. The main purpose of these programs is to develop fluency in the use of the Spanish language and to acquire an in-depth knowledge of the culture of Spanish-speaking people by immersion and by studying specific courses in the social sciences and arts oriented toward this goal. The normal duration of this experience is one or two trimesters. Most opportunities to study in Mexico require a good background in the language at least equivalent to one year of college-level Spanish. Students are strongly encouraged to live with a Mexican family. Students interested in a Study Abroad experience in Mexico must discuss various opportunities with members of the Modern Language or Sociology Department and the Records Office.

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### **School of Business Administration Trimesters Abroad in Europe**

The School of Business Administration conducts trimester programs at sites in Europe, with the courses taught in English by Fort Lewis College faculty. Because there is no additional tuition for this program, it turns out to be quite inexpensive compared to many Semester Abroad Programs offered by other colleges and universities. While the program of courses is directed primarily at School of Business Administration students in their junior year, it is open to all Fort Lewis College students with junior standing and who have completed the appropriate prerequisite courses.

Students interested in this program should see the more detailed description under the Business Administration section of the Catalog and contact the Assistant Dean of the School of Business Administration.

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## **INTERNATIONAL PROGRAMS**

**Exchanges**  
**Study Abroad**  
**International Dual Degree Program**

## National Student Exchange

### **Exchanges:**

Exchanges are reciprocal agreements with partner institutions in which students pay their home school tuition and fees while receiving home school credit. Students are responsible for their travel expenses to their host school, as well as living expenses while on exchange. Financial aid is available to eligible Fort Lewis College Students. Foreign students must apply through their home institutions for any financial assistance. At the moment Fort Lewis College has exchange agreements in the following countries:

#### *France:*

LaRochelle: (SupDeCo) École Supérieure de Commerce (Business & French Language)

Angers: (ESSCA) École Supérieure des Sciences Commerciales (Business)

Angers: The Université Catholique de l'Ouest (Literature, History, Teaching French as a Foreign Language)

Chambéry: University of Savoie (Tourism, Resort Management, French)

#### *Spain:*

Vitoria-Gasteiz, San Sebastian, Bilbao: University of the Basque Country (Spanish, Education, Business, Humanities)

#### *Germany:*

Regensburg: (FHR) Fachhochschule Regensburg (Business)

*\*Programs in France, Spain, and Germany require second-year language fluency.*

#### *Hungary:*

Budapest: (ESSCA) École Supérieure de Commerce (Business)

#### *The Netherlands:*

Amsterdam: (HES) Amsterdam School of Business (Business)

#### *Norway:*

Oslo: (BI) Norwegian School of Management (Business)

#### *Sweden:*

Örebro: Örebro University (Business, Computer Science, Humanities, Music, Education, Nursing, Natural Sciences)

*Denmark:*

Odense: University of Southern Denmark (Business, Scandinavian Studies)

*England:*

Newcastle: University of Northumbria (Business, British Studies)

*Australia:*

Darwin: Northern Territory University (Indigenous Studies, Education, Art, Tourism, GIS, Environmental Science)

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**Study Abroad:**

Study abroad programs offer alternative locations and curriculum choices to Fort Lewis students when exchange schools do not meet their needs. While participating on approved study abroad programs, students pay their tuition and program fees to the sponsoring institution or agency.

Students interested in schools in countries other than those mentioned should check with the International Programs Office since the College is expanding its exchange partnerships.

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**International Dual Degree Program**

Through a partnership with École Supérieure de Commerce de La Rochelle (France), students can earn business degrees from both that school and Fort Lewis College. Interested students should contact the School of Business Administration for details.

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**National Student Exchange**

The National Student Exchange (NSE) gives Fort Lewis College students the opportunity to enhance their education

by studying for one or two semesters on another campus in the NSE network of nearly 170 colleges and universities in the United States. Fort Lewis College students pay FLC tuition and fees or resident tuition and fees at the host campus. Applications are due during February for the next academic year.

Credits and grades earned on exchange are incorporated into the student's Fort Lewis College record and grade point average. Financial aid normally can be arranged as usual.

Information and applications may be obtained from the International Programs Office. More information regarding the above programs is available at [international.fortlewis.edu](http://international.fortlewis.edu).

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## **SUMMER PROGRAMS**

The summer programs at Fort Lewis College offer a rich variety of courses from the regular curriculum for students who wish to graduate in fewer than four years.

## **Innovative Months**

Each year a selection of "innovative month" courses offers focused and in-depth study. These are typically six-credit courses that include travel, either regional or international, and immersion in other cultures. Travel classes are an increasingly important part of a complete education for the growing interactions of world cultures and markets. Whether a student's interest is business, education, government, or social commitments, these opportunities for travel study may be an important part of a student's total educational program.

Recent courses have included a field study of environmental politics in the Southwest; a field study experience in animal behavior in Kenya; a van tour of Mexico for immersion in Mesoamerica language and culture; and travel to nations as divergent as Ladakh, France, Spain, and Guatemala focusing on political, cultural, and economic change. These courses are announced during the fall term for the coming summer.

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## **2002 - 2003 ACADEMIC POLICIES**

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## Grading

**Incompletes**  
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The quality of a student's work is appraised according to grade point averages. Fort Lewis College uses the four-point system, which assesses grade points as follows:

<b>A</b>	=	4.00 points	<b>C</b>	=	2 points
<b>A-</b>	=	3.75 points	<b>C-</b>	=	1.75 points
<b>B+</b>	=	3.25 points	<b>D+</b>	=	1.25 points
<b>B</b>	=	3.00 points	<b>D</b>	=	1 point
<b>B-</b>	=	2.75 points	<b>D-</b>	=	.75 point
<b>C+</b>	=	2.25 points	<b>F</b>	=	0 points

The grade point average, carried to two decimal places, will be computed by dividing the total number of grade points by the total number of credits attempted. Grades of X, S, P, W, NC, and NG do not affect the grade point average.

The grade of X means the student has passed a course by special examination, CLEP, AP, or credit based on ACT scores or military service.

The grade of P means that the student has passed a course on a Pass-Fail basis. The student must request this option at the time of registration.

The grade of W signifies that the student has withdrawn from the course while passing. After census date, the instructor must assign a W or an F.

The grade of S (Satisfactory) means that the student has successfully completed the course.

The grade of NC (No Credit) means that the student did not complete the course. No credit is given nor is the grade figured in the grade point average. Certain courses are designated by the College to be S- or NC-graded courses.

The grade of NG (No Grade) indicates that the instructor did not report a grade by the deadline for submission of final grades.

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### *Incompletes*

A grade of Incomplete (I) is a student-initiated grade that must have the instructor's approval. It is appropriate only under the following conditions:

1. The major part of the course requirement has been met.
2. The student is unable to complete the requirements in the term in which the course is taken for compelling and unforeseen reasons.
3. In the opinion of the instructor, the requirements can be completed by the student without repeating the course.

If the course requirements are not completed within one year after the end of the appropriate term, the incomplete grade will revert to an F. (See below for the single exception to this change.) The dean of the school in which the course is offered may waive for good reason the one-year deadline upon petition by the student. If the student completes the course requirements within the time allotted, the instructor will initiate the grade change by filing a Special Grade Report form.

When giving an Incomplete, the faculty member must file a Report of an Incomplete form with the dean and the Records Office, specifying in detail: (1) what work must be done in order to remove the Incomplete, and (2) the time deadline for completing the work. The student should sign this form at the time it is prepared. A copy of the form should be given to the student. An Incomplete cannot be removed by registering to repeat the course. When the student cannot complete the course material without repeating the course, he or she should not receive an Incomplete; W or F would be more appropriate.

A course for which a student has a grade of I at the time of graduation cannot be used to satisfy any graduation or major requirement and is not counted in units attempted or GPA. In the event that a student has graduated prior to removing the Incomplete, the I grade will remain permanently on the graduate's transcript.

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### *Grade Replacement Policy*

Equivalent courses with initial grades of C- or lower may be repeated, at Fort Lewis College or another accredited institution, for up to 12 credits of grade replacement. For the first 12 credits of repeated courses in which the initial grade was C- or less, only the last grade earned will be counted in the grade point average. However, all grades for that course will remain on the student's record. When a course for which the initial grade was C or better is repeated, or when a student has already excluded 12 credits of C- or lower grades from his grade point average, there shall be no exclusion of grades from the grade point average. The student should notify the Records Office of what courses to use for these 12 credits.

*NOTE: Upon graduation a student's GPA is frozen, and students are not eligible to repeat courses for grade replacement.*

#### Return to Grading

##### *Satisfactory - No Credit Option*

Courses that primarily utilize field experience may, at the discretion of the sponsoring school, be graded either "satisfactory - no credit" or with the traditional "A through F" letter grade system.

Should the "satisfactory - no credit" option be used, the courses may still be applied to either the major or General Education Requirements.

#### Return to Grading

##### *Pass-Fail Electives*

Students with a cumulative average of at least a C are permitted to take up to four pass-fail electives during their undergraduate career. The pass-fail basis is limited to elective courses only. Pass-fail may not apply to General Education Requirements, Departmental Requirements, or Teacher Education Requirements. Students may take no more than one pass-fail elective in any one trimester and no more than 18 credits may be taken during the term they are carrying the pass-fail elective. Freshmen may not choose a course on this basis before their second term. Students taking a pass-fail elective must fulfill all necessary prerequisites for that course. Changes to or from pass-fail status after the beginning of a term is limited to the normal period for adding courses.

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##### *Audit*

Students may audit courses with the permission of the instructor if they desire to attend classes regularly but do not

wish to receive grades and credit. Upon registration, the students must declare whether they wish to take a course for audit or for credit. Students may not change from audit or credit, or vice versa, after the closing date for adding classes in each trimester. When registering, students may take both audit and credit courses, but the total should not exceed a normal load. Students auditing courses are required to pay fees at the same rate as if enrolled for credit.

Students who wish to audit a course and later wish to obtain credit for it may do so by special examination, which requires an additional fee.

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### **Attendance**

Regular class attendance is expected. Each instructor keeps a record of student absences and determines the extent to which absences affect final grades.

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### **Final Exams**

The instructor determines the number and type of examinations in any particular course. Separate days are set aside for the final examinations at the close of each trimester. It is the student's responsibility to take all examinations or to arrange for exceptions directly with the instructor.

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### **Academic Progress/Probation/Suspension**

An overall grade point average of 2.0 is considered satisfactory progress toward a degree. If, in any single term, a term grade point average of less than 2.0 is earned, the student will be placed on probation or will be academically suspended or dismissed from the college. Academic suspension is normally for one calendar year. Academic dismissal is permanent separation from the college. Suspension and dismissals may be appealed to the Academic Standing Committee. This Committee considers appeals of Fall term standings in early January and appeals of Winter standings in May. Grades from courses completed during summer terms are not used in determining academic standing.

During an academic suspension, the student may choose to complete transferable college credit at an accredited

community college or other accredited college, or the student may choose to take a year off from college work. There is no requirement that coursework from another college or university be completed during the suspension period; however, if collegiate work is taken during the suspension, the transfer college GPA (not cumulative) must be a 2.0 or higher at the time the student applies to return to Fort Lewis College. During the suspension, students may replace a Fort Lewis College course in which they received a grade below C- by retaking an equivalent course at another accredited collegiate institution and passing it with a grade of C- or better. The repeated course must be the exact equivalent of the FLC course it is to replace according to established articulation and equivalency policies. When transferred back to FLC, the credits for the repeated course will replace those for the FLC course and the grade for the FLC course will be removed from the institutional GPA. The grade for the repeated course from the other institution will not be included in the institutional GPA. Course replacement may be for up to a total of 12 credits of course work (FLC course and transfer courses combined). It is recommended that students considering this option verify that the course(s) is(are) transferable to Fort Lewis College. Transferable courses may be verified through the College's website or through [records@fortlewis.edu](mailto:records@fortlewis.edu).

Students who are suspended must submit a Petition to Resume Studies and official transcripts of all work taken at other collegiate institutions. Students returning after suspension should apply for readmission through the Admission and Development Office at least one month before school starts. Readmission is not guaranteed. Students who wish to reapply before the term of their suspension is over must petition for early readmittance through the Academic Standards Committee, not the Admission Office.

The Academic Standards Committee reviews student academic progress at the end of every term. Listed below are the criteria used to determine a student's academic standing. In addition to term GPA standards, at the time of graduation, a minimum cumulative GPA of 2.00 in all coursework and a minimum cumulative GPA of 2.00 in those courses needed to meet the requirements for the major is required.

<b>Term GPA</b>	<b>Academic Standing</b>
2.00 or higher	Good Standing
1.00 to 1.99	Probation the first term this occurs (P1) Probation the second consecutive term this occurs (P2)
0.99 or lower	Suspension the third consecutive term this occurs Suspension

Students who are readmitted from suspension or dismissal must complete their first term back in Good academic standing or they will be academically dismissed. These reinstated students will have a standing of "P1" if this first trimester is completed with a term GPA of 2.00 or higher. Reinstated students will return to "Good" standing if their second consecutive term GPA is 2.00 or higher.

Continuing students whose performance has fallen to the "P2" level will need two consecutive terms of 2.00 or higher GPA to return to "Good" standing. Former Fort Lewis College students who return to the college after an absence of

two or more trimesters will be readmitted with the academic standing they had at the time of departure.

## Return to Academic Policies

### **Academic Renewal**

A transfer or returning Fort Lewis College student who has not attended any college for at least five years (60 consecutive months) may apply for "academic renewal." Academic Renewal is defined as the elimination of the student's entire previous academic record, including credits earned and grade point average.

Normally, a student applies for academic renewal as part of the admissions (new transfer students) or re-admissions (former FLC student) process. Under rare circumstances, an already admitted student may apply for academic renewal during the first year of resumed studies at Fort Lewis College.

The request for academic renewal is made by submitting a "Request for Academic Renewal" petition to the Fort Lewis College Registrar. These petitions are available from the Records Office and from the Admission and Development Office. If the request meets the standard conditions for academic renewal (absolutely no college work completed in the previous 60 months), the Registrar grants academic renewal, notes the renewal on the academic transcript and forwards the approved petition and amended transcript to the Dean of Admissions and Development. The student is then considered for admission/re-admission to Fort Lewis College based on high school admission criteria.

If the request does not meet the standard conditions for academic renewal (e.g., the student took one college-level course as required by an employer, or the request is being filed after the student has been admitted to Fort Lewis College and has resumed course work), then the Registrar forwards the petition to the Chair (or Chair's designee) of the Fort Lewis College Academic Standards Committee (ASC) who convenes the Committee to consider the petition. If the ASC grants academic renewal, the Chair (or Chair's designee) forwards copies of the approved petition to the Dean of Admission and Development and to the Registrar. If the request for academic renewal was approved as part of the admissions process, the student is then considered for admission/re-admission based on high school admission criteria. If the request is not approved, the student is considered for admission/re-admission based on his entire previous college work. If the request for academic renewal was made and approved by the ASC after the student has resumed studies, then the approved petition is forwarded to Records for processing and transcript notation. If the ASC does not approve a post-admissions request for academic renewal, then the student's entire previous academic record is maintained and handled according to established College policies.

If a petition is granted, the student's permanent record will denote "ACADEMIC RENEWAL APPROVED" with the date. Academic Renewal applies only to actions taken by Fort Lewis College. Other colleges may or may not accept the action of the Academic Renewal. Students granted academic renewal must meet all established College standards for satisfactory academic progress.

[Return to Academic Policies](#)**Dean's List/Graduating with Honors**

The Dean's List, published at the end of the Fall and Winter Trimesters, honors students for high scholastic achievement. Students who attain a grade point average of 3.6 or better in not fewer than 15 hours, 14 of which must be graded credit, and who have completed all work for which they are registered by the end of the term will be listed for that term.

To graduate with honors, students must have earned in residence at Fort Lewis College no fewer than 60 semester credit hours. No honors are awarded upon receipt of a second bachelor's degree.

Grade point averages required for honors are as follows:

Summa cum laude	Grade point average of 3.8 to 4.0
Magna cum laude	Grade point average of 3.6 to 3.79
Cum Laude	Grade point average of 3.4 to 3.59

Graduation with "honors" depends wholly on achieving a high grade point average. It should not be confused with participation in the John F. Reed Honors Program.

[Return to Academic Policies](#)**Academic Integrity and Academic Dishonesty**

Academic honesty and integrity are essential to the existence and mission of an academic community. In the absence of an environment of mutual trust and respect, members of the faculty and student body are individually defrauded, and the academic community suffers as a whole. Thus the responsibility for establishing and maintaining appropriate standards of academic honesty and integrity is, of necessity, shared by every member of the Fort Lewis College community.

All faculty members of Fort Lewis College have a duty to support the principles of academic honesty and integrity, both through personal example in their own academic pursuits and through the type of learning environment they create for their students. Faculty members have an obligation to inform their students of the principles of academic trust and respect that provide the foundations for all academic activity at Fort Lewis College. They are expected to encourage, through their instruction, respect for these principles.

As members of the academic community, students share the duty of knowing and upholding its standards. By joining

the Fort Lewis College community, students oblige themselves not to violate the basic community standards of trust and mutual respect, including the College's Academic Integrity Policy, and are expected to take an active role in encouraging others to respect these standards. Every student thus accepts the obligation to assist the faculty in maintaining an academic environment free of academic dishonesty.

### *Procedures for Handling Allegations of Academic Dishonesty*

Faculty must inform students of concerns related to academic dishonesty immediately, and such instances should be thoroughly documented. Students have the right to appeal any charge of dishonesty to the Academic Standards Committee. All information regarding any instance of academic dishonesty is to be placed in a closed file in the Office of the Academic Vice President. The file is confidential, and is accessible only to the Vice President, the Vice-Chair of the ASC or their designees. The material is also accessible to the student, though any reference to other student(s) will be redacted to protect their privacy. The purpose of the file is to allow the Vice-Chair access to evidence in case the student wishes to dispute the allegations (section b, below) and to initiate action in the case of second offenses (section c, below). When information is placed in the file, action will be taken by the Academic Standards Committee only if the student initiates an appeal or if it is determined that the information regarding previous dishonesty is already in the file, or if the alleged incident is unusually serious (e.g., forgery, hiring another student to take the class). When students graduate, material in the file will be sealed and marked "Confidential-Not to be opened except upon request of legal counsel."

### *Penalties*

Penalties for academic dishonesty may range from a reprimand to a failing grade for the particular assignment to an "F" for the course. The faculty member decides the nature of the penalty. The Academic Standards Committee may impose stronger penalties (e.g., suspension, dismissal from the College). Policies and procedure details may be found in the "Student Handbook."

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## **ACADEMIC PROCEDURES**

**Registration**

**Drop-Add Procedures**

**Withdrawal Procedures**

**Fall and Winter Trimester Registration**

**Summer Sessions**

**Classification**

**Special Scheduling**  
**Academic Advising**  
**Course Load**  
**Full-Time Load**  
**Program Changes**  
**Effective Catalog**  
**Transcripts**  
**Family Education Rights and Privacy Act (FERPA)**

## **Registration**

Fort Lewis College faculty and staff believe academic advising is essential to a student's success; therefore, the College requires ALL students to meet with their assigned faculty advisor at least once a term prior to registration for the subsequent term. When advising is completed, the advisor will provide the "alternate PIN" authorization number needed for registration. Students will not be allowed to register until they have met with their advisor and received their alternate PIN.

Course registration is done online through WEBOPUS. Access is limited to approved new and continuing students using their student identification number and a PIN number. Concerns related to registration should be referred to the Records Office, (970) 247-7350.

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## **Drop/Add Procedures**

Once students have registered for classes, they may process schedule modifications through WEBOPUS based on the following guidelines:

### ***Course Drop:***

A course drop may be processed using WEBOPUS through census day of the term. Following Census Day\* all course drops must be submitted using a Course Drop Form, available at the Records Office. The form requires an instructor's signature. The form must be submitted to the Records Office within seven days of the instructor's signature for processing.

*Dropping all courses does not amount to a complete withdrawal from the College.*

### ***Course Adds:***

Students may freely add courses with available seats using WEBOPUS through the first week of the fall trimester or the first day of each summer term. Faculty may enter course permission overrides electronically for the following special conditions: Prerequisite, course/class level or instructor permission. If permission is not granted electronically, students may use a Special Condition Add form available at the Records Office.

Beginning the second week of the term and through Census Day\*, any course additions must be on a Special Condition Add form, available at the Records Office. The form will need the signature of the instructor. In the case of a time conflict a Special Condition Add form is required with the signatures of both instructors involved and an explanation of how the course requirements are to be met. After Census Day, students wishing to enroll in courses beginning at a time other than the normal start of the term may use a Special Condition Add form up until the first week of the course.

*Any course additions for regular scheduled courses will not be allowed after Census Day.*

**\*Census Day:**

**Census Day is the twelfth (12) class day of a term; for summer sessions, it is the fifth (5) class day of the session. This is the official date of enrollment for State Reporting Requirements and for student billing purposes. Courses dropped prior to this date are not counted for tuition purposes. Enrollments in courses on Census Day are reported for state purposes, are reflected on student's transcript, and are counted for tuition purposes.**

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### **Withdrawal Procedures**

#### ***IMPORTANT NOTICE:***

Students who are registered for classes and decide not to attend have the responsibility to cancel their registration with the College by using WEBOPUS and following the appropriate procedures outlined below. ***Non-attendance does not constitute withdrawal.***

◆ Prior to the first day of the term, students must cancel their registration through WEBOPUS. Students should select the "Student Services & Financial Aid" link followed by the "Registration" link. Students should select the "Add/Drop Classes" option from the Registration Menu, select the appropriate term and drop all of their classes prior to midnight on the day before the term begins.

◆ Beginning with the first day of the term, students must officially withdraw from the current term using WEBOPUS. Students should select the "Student Services & Financial Aid" link followed by the "Registration" link. Students should select the "Withdraw from the Current Term" option from the Registration Menu, read all the information provided, then click on the "Submit Withdrawal from Current Term" button to process their official withdrawal. An official

withdrawal completed after the first day of the term (or failure to complete withdrawal) will result in tuition and fee charges according to the Pro-rata Schedule below.

- ◆ Official withdrawals are accepted only through the last day of classes for any given term and will not be permitted during finals week.
- ◆ Students who have applied for housing and/or financial aid have other responsibilities associated with official withdrawal and should contact those offices directly. Students who receive financial aid and then withdraw may be required to pay all or a proportionate amount of aid received. Repayment amounts are determined in accordance with Federal, State, and institutional regulations and policies. Students who live on campus must check out of their housing with their RA or RD within 48 hours of the initiation of the withdrawal from the term. At the time of check out, students must turn in their keys and sign the check out sheet. Policies concerning refund of room and board charges are published in the Tuition and Fee Brochure available at the Cashier Window and the Student Affairs Office in Berndt Hall, and are also available electronically under "Withdraw from Current Term" in the Registration Menu on [WEBOPUS](#) or [here](#). The [Student Housing Office](#) can be reached at 240 Miller Student Center, (970) 247-7503. The [Financial Aid Office](#) can be reached at 101 Miller Student Center, (970) 247-7142.

If a student experiences problems with any of the above process using [WEBOPUS](#), he/she must contact the Records Office immediately at 160 Miller Student Center or call (970) 247-7350.

### Pro-Rata Schedule

FALL AND WINTER TERMS		SUMMER SESSIONS	
Date of Withdrawal	Tuition and Fees Assessment	Date of Withdrawal	Tuition and Fees Assessment
1st Day of Term	0%	1st Day of Term	0%
Weeks 1 - 2	10%	Week 1	10%
Weeks 3 - 4	50%	Week 2	50%
Weeks 5 - 8	75%	Week 3	75%
Weeks 9 forward	100%	Weeks 4 forward	100%

**Official withdrawals must be completed using [WEBOPUS](#) prior to midnight on the Friday of the week indicated in order to qualify for the assessment listed in the Pro-rata Schedule. To qualify for the 0% assessment, the withdrawal must be completed prior to midnight on the first day of the term.**

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## Fall and Winter Trimester Registration

Early Registration for continuing students is held in mid-November for the winter trimester and in late March for the fall trimester. Students register online through [WEBOPUS](#).

New freshmen early-register through the New Student Advising and Registration Office. Advising and registration for Fall begins in April. Advising for Winter begins in November. Contact the New Student Advising and Registration Office at (970) 382-6985 for more information. Freshmen must be advised and registered prior to Freshman Orientation.

Transfer students early-register through the New Student Advising and Registration Office. Advising and registration for Fall begins in April. Advising for Winter begins in November. Contact the New Student Advising and Registration Office at (970) 382-6985 for more information.

Continuing, former, and unclassified students may use WEBOPUS to register for the any trimester following continuing student early registration.

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## Summer Sessions

Registration for students for any of the three five-week summer sessions can be done on [WEBOPUS](#) beginning in early April.

New freshmen and transfer students must be advised and registered by the New Student Advising and Registration Office. Contact the New Student Advising and Registration Office at (970) 382-6985 for more information.

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## Classification

A regular student is one who has been admitted to the College and has declared an intention to pursue the requirements for the baccalaureate or associate degree.

Regular students are classified according to semester credits completed, as follows:

Freshmen	Fewer than 30 semester credits
Sophomore	30-59 semester credits

Junior	60-89 semester credits
Senior	90 or more semester credits

An unclassified student is one who has been permitted to enroll but who does not intend to work toward an Associate or Bachelor degree.

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### **Special Scheduling**

In exceptional cases, a regularly offered course not scheduled during a term may be taken on a non-scheduled basis when approved by the instructor, department chair, and appropriate dean. The Schedule Modification for Non-Scheduled Courses form is available in the Records Office.

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### **Academic Advising**

Upon entering the College, each student is assigned an academic advisor. These faculty advisors are available to answer questions about classes and programs; to review past, current, and proposed course work; to guide educational planning; and to help with academic and related problems.

All degree-seeking students must meet with their academic advisors at least once a term to review their progress toward graduation and to plan course selection for the next term. As career and academic plans evolve, students may change their faculty advisor to someone whose interests and specializations are consistent with the student's goals. Fort Lewis College believes deeply in the importance of academic advising and encourages all students to make liberal use of the opportunity to meet and confer with their academic advisors.

In addition to working with their faculty advisor, students may receive supplementary advising services at the Academic Advising Center in 140 Miller Student Center.

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### **Course Load**

The normal student load in a given trimester is 15 semester credits. A 3-credit course will customarily meet three hours per week; a 5-credit course will meet five hours per week. Students should plan to spend a minimum of two hours of outside preparation per week for every credit carried during the fall and winter trimesters.

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### **Full-time Load**

Full-time load for enrollment certification for Veterans Benefit, athletics, loans, etc., is 12 credits per semester. Various agencies have different regulations for full-time loads during the three summer sessions. Full-time load for enrollment certification will vary depending on the agency concerned.

## Return To Academic Procedures

### **Program Changes**

As of the close of business on Census Day for any trimester or five-week summer session, all courses for which a student has registered will appear on the student's permanent academic record. Up through this date, all courses dropped from a student's registration will not appear on the student's permanent academic record. Census Day is published in the Schedule of Courses for each term.

A student has the right to withdraw from a class. After Census Day, the instructor must assign a grade of W or F.

## Return To Academic Procedures

### **Effective Catalog**

The academic policies and regulations are changed by the College from time to time. The set of regulations (as published in the catalog) that apply to a given student is determined by the following rule: all students intending to graduate from Fort Lewis College must meet the course requirements for graduation set forth in the catalog in effect at the time of their matriculation or the one in effect by the time of their graduation. Students may choose between the catalogs but may not combine them. Regulations other than course requirements will apply according to the catalog in effect at the time of graduation except as new regulations have other effective, specifically fixed dates. However, no catalog more than 10 years old at the time of the student's graduation will be accepted as the source of graduation requirements. A student who matriculated more than 10 years before graduation will meet the requirements of the catalog in effect at the time of graduation, or may petition the Vice President for Academic Affairs to be permitted to graduate under some intervening catalog not more than 10 years old. Any student who is not registered at Fort Lewis College for any continuous period of two calendar years or more forfeits his claim to the catalog under which he entered and comes under the catalog in effect at the time he next returns to Fort Lewis College as a student. Students also have the right of appeal to the Vice President for Academic Affairs for use of an earlier catalog.

*The College reserves the right to cancel a class (for that trimester) if enrollment is not deemed*

*sufficient.*

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## **Transcripts**

Fort Lewis College does not charge a fee for transcripts. However, all accounts with the College must be settled before a transcript may be issued. Transcripts are processed as rapidly as possible and are usually issued within three working days from the date of request. However, at the end of a term, it takes 5-10 working days to issue a transcript. *Transcript requests must be made in writing and signed by the student.* Requests are sent to the Records Office, Fort Lewis College, 1000 Rim Drive, Durango, CO 81301-3999, or may be faxed to the Records Office, (970) 247-7598.

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## **Family Educational Rights and Privacy Act (FERPA)**

The Family Educational Rights and Privacy Act, or FERPA, defines the requirements for access to, and release of, student education records. Student education records are defined as records that are directly related to a student and are maintained by an educational institution. Student education records include enrollment records and billing records. In general, the education records of a student may be disclosed only to the student, parents of dependent students, academic advisor, or to those faculty or staff members who must have access to the records to perform their duties unless the student provides prior written consent to disclose their records to other persons. The following student information is designated as public, or directory, information: name, addresses, telephone numbers, e-mail addresses, dates of attendance, registration status, classification, major field of study, awards, honors, degree(s) conferred, past and present activities in officially recognized sports and activities, and date and place of birth.

Under FERPA, students have the right to review their own records, to seek correction of information contained in those records, and to limit disclosure of information. To review their records, students need to contact the appropriate administrative office and schedule an appointment. Academic records are housed in the Records Office; billing records are available in the Accounts Receivable Office. The administrative office will arrange to make the records available within three (3) working days. To withhold disclosure of directory information, students must submit a completed "Confidentiality" form available at the Records Office. Students may choose to complete a "FERPA Release" form, authorizing the college to release information to a specified third party. This form is also available at the Records Office.

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## ACADEMIC SUPPORT PROGRAMS

**The Library**  
**Office of Computing and Telecommunications**  
**Learning Assistance Center**  
**Native American Center**  
**El Centro Latino Student Center**  
**Program for Academic Advancement**  
**Tutoring and Peer Mentoring**  
**Colorado Alliance for Minority Participation**  
**Center of Service Learning**  
**Office of Community Services**  
**Writing Center**  
**Center of Southwest Studies**

### The Library

The John F. Reed Library and Center for Instructional Technology (CIT) serve as a research center for the campus and the Four Corners Region. The Reed Library is a "teaching library" that promotes learning through research collaboration and appropriated technology supported by knowledgeable, skilled professionals. The Library is a catalyst for the intellectual life of the student. It acts as a gateway to research information in all formats through more than two dozen online database subscriptions and an online Web-based library catalog that accesses many Colorado research library collections. Fort Lewis College students learn to locate, analyze, and use a full array of information technologies, preparing them for success in their courses, careers, graduate studies, or other aspects of their lives.

Faculty, librarians, instructional technology staff, and students work together in the Reed Library dynamic research environment. The library setting encourages intellectual curiosity and is supported by a variety of materials, as well as access to electronic information available through the Internet. The library contains more than 185,000 books, 750 periodical (magazine, journal, and newspaper) subscriptions, online access to the full-text of 2,000 periodical titles and 305,000 microform items, as well as collections of videos and sound recordings.

Librarians and other Fort Lewis College faculty recognize the need for students to become knowledgeable users and producers of information in order to participate actively in academic life. Research has become increasingly rich and diverse with the advent of the Internet and other electronic information and communication media. In order for students to thrive in a changing electronic environment, they need to master concepts and skills in the areas of computer technology, library database searching, evaluation of information sources, Internet searching and more. Library faculty teach a required course, Information Literacy (Lib 150), which allows students to build a foundation of knowledge and skills in these areas.

The Center for Instructional Technology supports creative approaches to instruction and learning. The Center assists students and faculty in producing a variety of materials including color or black and white overhead transparencies, digitized images for use in creating electronic and print materials, videotaped or computerized presentations, and more. The Center also has available for use by students and faculty equipment that includes camcorders, laptop computers, and data projectors for use with presentation software, as well as VCRs and TVs, CD and cassette-tape players, and more.

The Reed Library uses the INNOPAC system as its online library catalog (TALON). This system offers a friendly yet powerful interface for searching the library's holdings as well as collections at other libraries. Through TALON, Fort Lewis College users can search and order books directly from PROSPECTOR (a consortium of 14 Colorado libraries). The library is also a member of OCLC (Online Computer Library Center). Students may search the 30-million-plus holdings of this database via FirstSearch. The interlibrary loan service allows students to borrow from other libraries items not owned by the Reed Library.

A committed and friendly library and CIT staff assists students during hours of operation. The Reed Library is open 89 hours per week during the fall and winter trimesters. Subject area research instruction is available on request for individual classes. Librarians at the reference desk also offer point-of-need research instruction to library users. In 1998-99 over 12,000 reference questions were asked of librarians.

The Reed Library and CIT provide a rich environment that promotes research and production of high quality information products. Students are encouraged to use the facilities and services provided to achieve academic and personal growth.

Return to Academic Support Programs

### **Office of Computing and Telecommunications Resources**

Computing and telecommunication resources include fourteen college-wide computer labs are available to the general student population. College labs are located in each of the main classroom buildings, including Berndt Hall, Noble Hall, Education-Business Hall, Sage Hall, and Reed Library. Windows and Macintosh computers, printers, and a wide variety of software are available. All lab computers have full Internet connections. College computer labs are typically available seven days a week except during holiday periods, and any registered student has access. In addition, there are many smaller clusters of computers in academic and support services departments, including the residence halls, which serve students in particular programs. In all, about 600 computers are available on campus for students.

Every registered student receives a computer account that enables access to the Internet, electronic mail, and campus computer resources. These accounts are available beginning the first day of the term in which a particular

student enrolls.

Access to the campus Ethernet data network, telephone and voice-mail systems, and cable television system is provided in all campus residence halls and apartment rooms. A modem pool provides students with access to College servers and the Internet from off-campus.

Telephones are provided in on-campus housing. Students make long-distance calls using a personal credit card or by reversing the charges. Collect calls are not allowed. Students may not charge long-distance calls to their residence hall phone.

### Return to Academic Support Programs

#### **Learning Assistance Center**

The Learning Assistance Center offers students a variety of ways to improve their academic skills and academic performance. The LAC is located in Noble Hall, Room 280, and is open Monday through Friday from 8:00 a.m. to 5:00 p.m. It is a tutoring place, a review place, and a resource place.

#### *TUTORING PLACE:*

Many students find that they benefit by working with a tutor. The LAC offers free peer tutors to anyone enrolled at Fort Lewis College. Students who wish to receive academic credit while assisting others may apply at the LAC at the beginning of each trimester to become a tutor. A schedule of times that tutors are available can be obtained at the LAC.

#### *REVIEW PLACE:*

In order to achieve career goals, many students are required to take standardized examinations. Most individuals do best on these tests after reviewing the material covered by the exams and after learning test-taking strategies. For example, students seeking teacher certification outside of Colorado may be tutored for the National Teacher Examination (NTE). Those who plan to attend graduate school may receive assistance in preparing for the Graduate Record Examination (GRE), the Law School Admission Test (LSAT), the Graduate Management Admission Test (GMAT), and/or the Miller Analogies Test (MAT).

#### *RESOURCE PLACE:*

The LAC houses a collection of books and other resources materials that students may check out. It also has handouts that deal with such topics as writing a research paper, taking an examination, and maximizing study time. Students having problems with study skills (time management, note taking, reading a textbook, concentration,

studying for tests, taking examinations) can make appointments with the Director of the LAC, who will assist them to improve their skills.

### Return to Academic Support Programs

#### **Native American Center**

The Native American Center's mission is to promote the academic success and personal development of Native American students as well as advance cultural appreciation on the Fort Lewis College campus and within the Four Corners community.

Located in the Miller Student Center, the Native American Center provides a supportive environment to Native American students faced with the challenges of education within a multicultural society. The academic and personal development of Native American students is addressed through individual advising and counseling as well as group workshops.

Faculty members from various college departments hold office hours at the Native American Center to provide academic assistance to students. Computers are available to assist students in research or paper writing. Many Native American student clubs and organizations also convene at the Native American Center to host social, cultural, and academic events as well as their regular meetings. These student organizations serve to promote cultural appreciation within the Fort Lewis College community, as well as provide social support to the students.

The Native American Center is a gathering place where Native American students from all over can explore their own and other Native American cultures.

#### ***AMERICAN INDIAN SCIENCE AND ENGINEERING SOCIETY***

The Fort Lewis College Chapter of the American Indian Science and Engineering Society (AISES) has been active since 1989 (one of the most powerful chapters in the United States). For two years over the last decade, the Chapter received the National AISES Chapter Award Stelvino J. Zanin. FLC AISES Chapter members have received Scholarships, Research Awards, Internships, and Career opportunities as a result of their participation with AISES. The yearly average number of student members is 45.

#### ***Program Goals***

- ◆ Increase the number of Native Americans in science, math and engineering fields by encouraging them to explore these areas.
- ◆ Provide Native American students with contacts and role models nationwide who work in these professional fields.

- ◆ Provide Native American students with information about internships, scholarships and job opportunities that can enhance their professional careers.
- ◆ Preserve Native American cultures and traditions while encouraging students to pursue careers in science, math and engineering. Initiate AISES chapters into area high schools.
- ◆ Advise and mentor middle school and high school students during summer outreach programs in science, math and engineering.
- ◆ Conduct an annual AISES Regional conference to mirror the national AISES Conference to motivate and interest Native American students in the four states of Arizona, Utah, New Mexico and Colorado to pursue a college education and graduate school.
- ◆ To have lots of FUN.

[Return to Academic Support Programs](#)

### **"El Centro" Latino Student Center**

"El Centro" is the home of organizations and activities that serve the needs of Latino students and students who are interested in Spanish and Latin American culture. Information is available on scholarships, academic assistance, and graduate opportunities. Comfortable space to study and socialize, as well as a kitchen, is available. The Center hosts a growing collection of academic and cultural resources. Everyone is welcome. Opportunities are provided to practice Spanish.

The goals of "El Centro" are to provide the support needed to make school life more relevant, to increase enrollment and graduation of all minority students, and to broaden knowledge of Hispano heritage.

[Return to Academic Support Programs](#)

### **Program for Academic Advancement**

The Program for Academic Advancement (a federally funded TRIO program), or PAA, is the place on campus where students can get the guidance and help they need to succeed at Fort Lewis College. PAA offers the following individualized services to program participants:

- ◆ individual or group tutoring in any subject
- ◆ financial aid advice and assistance in completing applications for federal, state, local, and private sources of financial aid
- ◆ guidance in course selection and in developing an individualized academic plan
- ◆ peer mentors who offer personal advising, assistance, and support

- ◆ a private computer lab networked to the College system and software for individual tutorials in biology, math, calculus, English, reading, writing, typing, and GRE preparation (new software is added continually)
- ◆ a lending library
- ◆ academic and college survival workshops in math and writing skills, note-taking, dealing with test anxiety, test-taking, budgeting money, time management, using e-mail and the World Wide Web, and all aspects of graduate school preparation
- ◆ personal and career planning
- ◆ field trips to regional graduate schools twice each year for juniors and seniors
- ◆ monitored study halls, mid-term "study fests," and finals review sessions
- ◆ a fall picnic, a holiday party, and a spring recognition banquet
- ◆ a variety of cultural programs and activities.

### Return to Academic Support Programs

#### **Tutoring and Peer Mentoring**

PAA's tutoring program is nationally certified by the College Reading and Learning Association. All program tutors are upper-division Fort Lewis College students who have excelled in the courses that they are tutoring and who have completed a tutor-training program through PAA.

Peer mentors are PAA participants who have demonstrated leadership and academic success and a commitment to helping other PAA participants succeed at Fort Lewis College. They act as guides and friends to new PAA participants providing support, advice, and assistance with the adjustment to college life.

#### *Eligibility*

To be eligible for PAA, a student must meet one or more of the following requirements as established by the U.S. Department of Education:

- ◆ Be a low-income individual (qualify for Federal student financial aid)
- ◆ Be a first-generation college student (neither parent has completed a four-year college degree before the student is 18 years old)
- ◆ Be a student with a documented disability.
- ◆ Be enrolled or accepted for enrollment as a degree-seeking student at Fort Lewis College
- ◆ Be a U.S. citizen or national or meet the requirements for Federal student financial assistance
- ◆ Have a need for academic support to be able to succeed in college.

### *Application Process*

A simple application process is required to document eligibility and to identify the academic and other needs of the student. After being admitted into PAA, each new participant meets with the program advisor to design an academic plan. Participant academic progress is monitored and help is available if needed at every step of the way.

PAA offers a variety of workshops to help participants improve their study habits and math and writing skills. Workshops that teach participants how to budget money and manage time more effectively are also available. Monitored study halls, mid-term study "fests," and finals review sessions are held so participants can study with others during the year. PAA will assist participants with personal concerns that may be affecting their ability to do their best at Fort Lewis College. All PAA services are free to program participants.

### *Financial Aid*

The PAA staff is trained to answer participant questions and provide assistance with Federal financial aid application forms. They can also help participants locate scholarships, grants, and other forms of financial aid through private sources. A software search program is available for participants to identify all types of assistance for which they may qualify. The PAA lending library is well stocked with current literature on thousands of sources of financial aid.

PAA staff work closely with the Fort Lewis College Financial Aid office to assist participants with any questions or concerns about their financial aid package.

### *Student Responsibilities to PAA*

PAA participants are expected to be dedicated to the goal of academic success at Fort Lewis College. PAA offers extensive, individualized assistance and support to its participants who, in turn, are expected to attend classes as scheduled, to meet regularly with their tutors, to attend program workshops and events, and to meet regularly with the program advisor.

### Return to Academic Support Programs

### **Colorado Alliance for Minority Participation-CO-AMP**

**What is CO-AMP?**

**What does CO-AMP do?**

**CO-AMP Opportunities**

**What does CO-AMP expect from me?**

**How to Enroll**

## What is CO-AMP?

Colorado Alliance for Minority Participation - Since 1996, the CO-AMP consortium, consisting of 13 four-year Colleges/Universities and Community Colleges and four tribal nations in the four corners area, has built a strong alliance, working together to double the numbers of historically underrepresented minorities earning their bachelor degrees in Science, Math, Engineering and Technology (SMET). It is funded by a grant from the National Science Foundation with Colorado State University as its headquarters. As a result of this effort, we have seen the number of ethnic minority students earning bachelor's degrees in these disciplines jump from 183 in 1995 to 319 in the year 2001. The alliance has secured more than one million dollars per year since 1995 to support critical recruitment and retention efforts. CO-AMP has provided extraordinary opportunities for faculty development and student internship.

### Return to CO-AMP

#### What CO-AMP Does:

- ◆ Listens to what you want in the way of careers
- ◆ Provides you with opportunities to experience different career paths
- ◆ Guides you toward the most direct educational path that will lead you to your career goals
- ◆ Provides a bridge for you to make the transitions you desire: from high school to a four-year college; from college to graduate school; from graduate school to a job
- ◆ Supports you with culturally relevant experiences
- ◆ Invites you to meet with astronauts, water engineers, bridge designers, and other professionals who lead successful careers in SMET disciplines
- ◆ Links you to hands-on undergraduate research experiences, internships, and job opportunities
- ◆ Partners with you and schools to make a college education a reality

### Return to CO-AMP

#### CO-AMP Opportunities:

- ◆ Academic Excellence Workshops
- ◆ Internships
- ◆ Scholarships
- ◆ Tutoring Peer and Faculty Mentoring
- ◆ Research Opportunities

◆ Leadership Skills

◆ Plus lots of other fun and educational experiences!

[Return to CO-AMP](#)

### **What CO-AMP Expects from You:**

Your commitment and involvement A willingness to explore the unknown through the many possibilities available to you in the way of education and career choices To become an asset to your community personally and professionally To help raise awareness among others of the opportunities available through CO-AMP

[Return to CO-AMP](#)

### **How to Enroll:**

Pick up an application at 660 Berndt Hall or contact one of the people below for more information.

Dr. Don May, Professor CO-AMP Site Coordinator  
970-247-7545, [may\\_d@fortlewis.edu](mailto:may_d@fortlewis.edu)

Julie Anderson CO-AMP Administrative Assistant  
970-247-7569, [anderson\\_j@fortlewis.edu](mailto:anderson_j@fortlewis.edu)

[Return to CO-AMP](#)

[Return to Academic Support Programs](#)

### **Center for Service Learning**

The Center for Service Learning was established to support faculty and students in their efforts to integrate academic study with responsible service and activism in local and regional communities. Focusing academic resources on pressing social, environmental, economic, and civic issues links campuses to communities in a dynamic partnership that both enhances students' educational experience and assists community-based groups in the vital work.

Service learning is a way for students to learn through hands-on service activities that are coordinated between campus and community. Student service is integrated into the academic curriculum to foster learning about the larger social and policy issues behind the human needs to which they are responding. Academic skills and applied knowledge are acquired within a service context that simultaneously fosters a sense of concern for others, the

acceptance of civic responsibility, and prepares students for involvement in their own communities.

The Center supports Fort Lewis College faculty and students in three basic ways:

1. *Curriculum Integration and Development:*

The Center works with the College's academic departments to integrate relevant service placements and projects with existing courses. Additionally, the Center works to facilitate course development and interdepartmental cooperation around important local and regional issues.

2. *Campus-Based Service Projects:*

The Center works closely with community agencies and groups throughout the Four Corners Region in structuring service opportunities that enhance the student volunteer's educational experience and contribute to the work of the community group. Many projects, such as the Mentoring Project, are ongoing, campus-based projects that provide students and faculty with the opportunity for involvement throughout the academic year. Other projects are developed and expanded as interest and need dictate. Academic credit is often available through these projects.

3. *Volunteer Opportunities:*

Due to its relationship with the community, the Center is able to serve as a campus-based clearinghouse for service opportunities throughout the region. Students interested in short- or long-term volunteer service opportunities may find placement assistance through the Center. The Center also recruits students to assist with occasional and/or urgent needs that arise within the community.

Return to Academic Support Programs

**Office of Community Services**

The Office of Community Services has been established to offer technical assistance to a five-county area surrounding Fort Lewis College (Archuleta, La Plata, San Juan, Montezuma, and Dolores). The Office has three purposes: to increase the opportunities for students and faculty to actively participate in public service projects in this region; to assist local communities with significant policy issues having to do with human service programs, natural resource management, community and economic development; and to ensure an educational partnership between students, faculty, and citizens by establishing a community service learning process supported by Fort Lewis College curriculum resources. The Office of Community Services contributes to the accomplishment of the College's mission in regard to public service by offering students an opportunity to gain valuable experience in direct community involvement.

The Office of Community Services has developed research activities in the areas of community studies, ethnography, and public policy analysis. Projects have been established that offer students and faculty a variety of opportunities to conduct applied research on public interest issues, concerning community and social development.

Each public service project is initiated by a community request; linkages to the community are established through a local task force of appointed leaders. Students and faculty provide assistance to the community task force in setting its goals, collecting needed research data, and identifying alternative policy, planning, and physical design solutions. Each project establishes a problem-oriented learning process for both the students and the community, guided by Office of Community Services staff and Fort Lewis College faculty members.

[Return to Academic Support Programs](#)

### **Writing Center**

The Writing Center's motto is "Building better writers!" Students can go to the Writing Center for help with any kind of writing assignment or project at any stage in the writing process (from generating ideas, to establishing an organizational structure, to polishing a final draft). The Writing Center, located at Sage 105B, is staffed by faculty and trained peer tutors. Its services are available to all Fort Lewis College students.

[Return to Academic Support Programs](#)

### **The Center of Southwest Studies**

The Center of Southwest Studies was established in 1964 with a \$10,000 gift from the Ballantine family. The Center's purpose is to serve as a museum and a research facility, which will host public programs and strengthen an interdisciplinary Southwest curriculum. The new \$7.6 million Center of Southwest Studies building is unique among four-year public colleges in the West because the facility houses the Departments of Southwest Studies and Anthropology and the Office of Community Services, which helps Four Corners communities. The Southwest curriculum draws from courses in Anthropology, Art, Literature, History, Sociology and Southwest Studies. The Colorado Commission on Higher Education recognized the Southwest Studies Center as a Program of Excellence in state-funded higher education with a \$687,000 award in 1989. Recent gifts to the Center include the \$2.5 million Durango Collection, which features over eight hundred years of Southwestern weavings. The goal of the Center is to become the intellectual heart of Durango and the Southwest and to provide a variety of educational and research opportunities for students, residents, scholars and visitors.

The Center's holdings, which focus on the Four Corners region, include over 8,000 artifacts, 20,000 volumes (cataloged in the College's online catalog), numerous periodicals (listed in the Reed Library periodicals holdings printouts), and 500 special collections dating from prehistory to the present. These include nearly two linear miles of manuscripts, unbound printed materials and other collection materials, over 7,000 rolls of microfilm (including about

3,000 rolls of historic Southwest region newspapers), more than 600 oral histories, and more than 35,000 photographs. Strengths in the Center's collections of artifacts (which, with Anthropology Department holdings, amount to more than 4,000 linear shelf feet of objects) include more than 2,000 Ancestral Pueblo ceramic vessels, more than 300 textiles (notably including the Durango Collection®), and 140 items of Southwestern basketry.

Most of the materials in the Center's collections were donated from more than 700 documented sources. The collections are a resource for every member of the community and beyond. The Center of Southwest Studies mission affirms and reflects the College's unique historical identity, identifies, acquires, organizes, preserves and makes available significant historical, archaeological, ethnographic, administrative, legal, fiscal and informational materials pertaining to Fort Lewis College and the Southwest U.S., supports research in its holdings, especially for undergraduate course work, and serves the local and regional community by offering tours and presentations and by sponsoring meetings, speakers, seminars, and conferences related to the Southwest.

### *Center of Southwest Studies Staff*

Andrew Gulliford, Director and Professor of Southwest Studies and History  
970-247-7494

Catherine Conrad, Assistant to the Director  
970-247-7456

Todd Ellison, Certified Archivist and Associate Professor  
970-247-7126

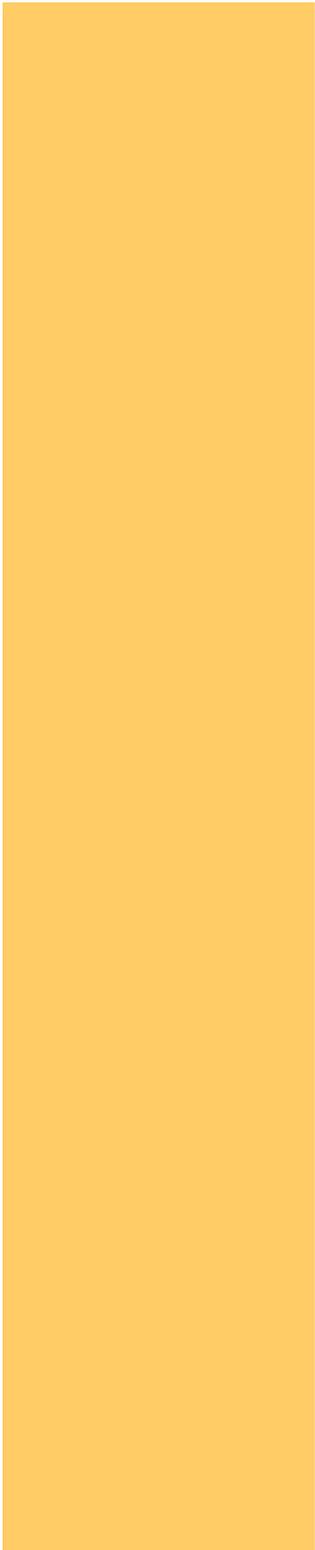
Jeanne Brako, Curator of Collections and Public Programs  
970-382-6980

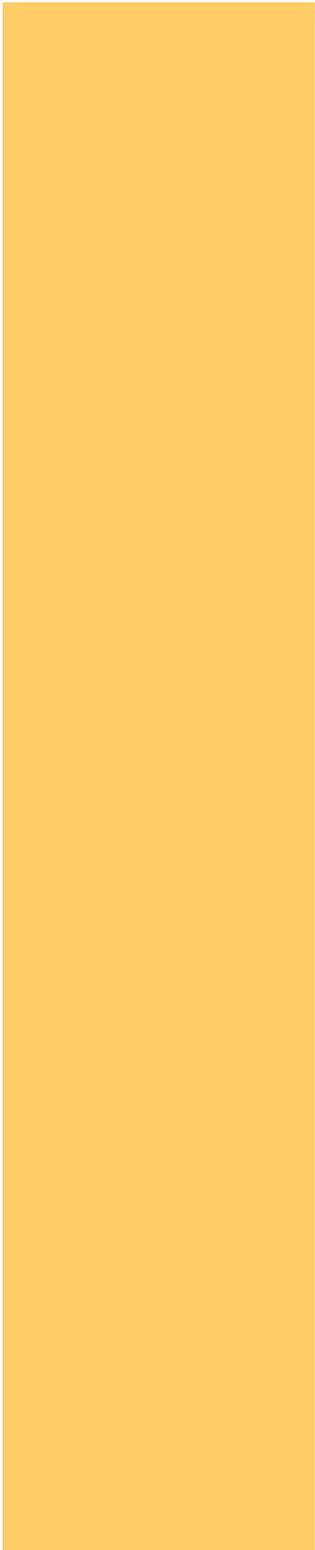
Mike Cyphers, Utility Worker  
970-247-7456

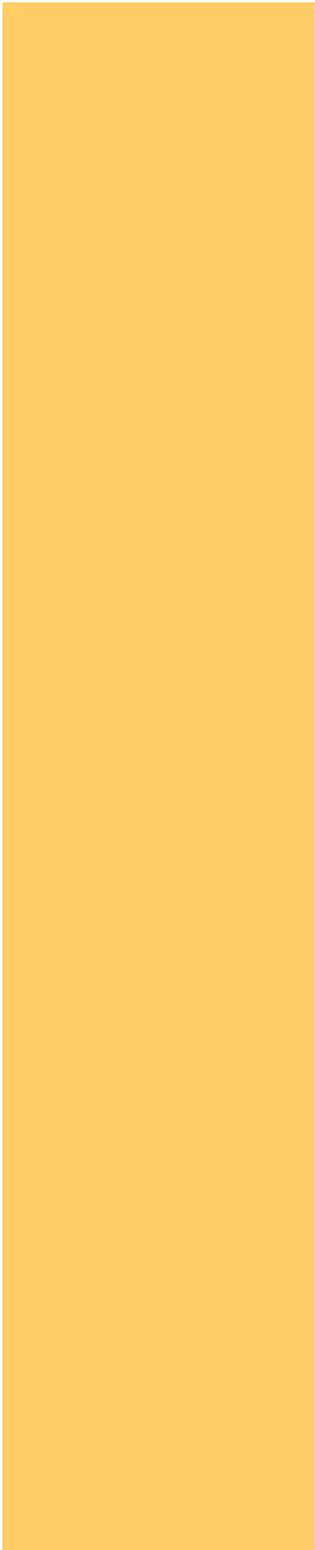
Visit the [Center of Southwest Studies](#) on-line.

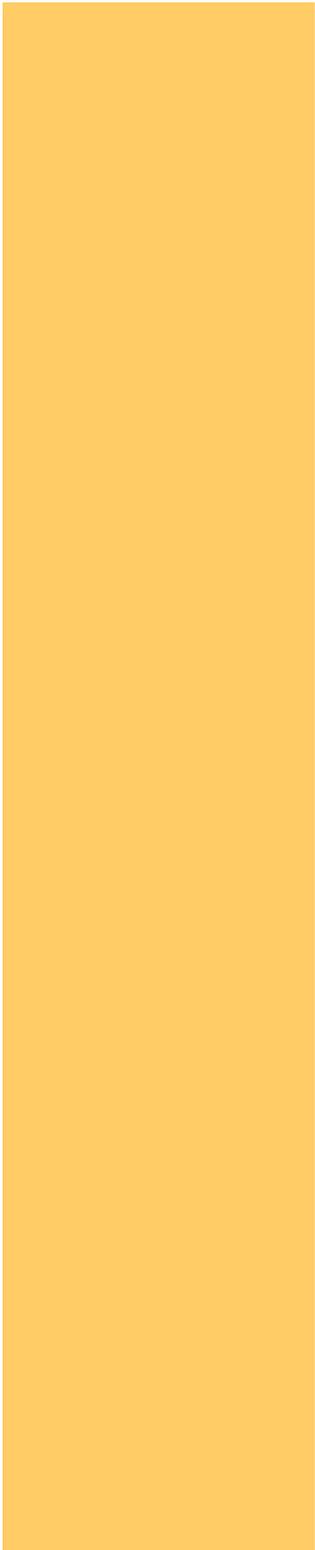
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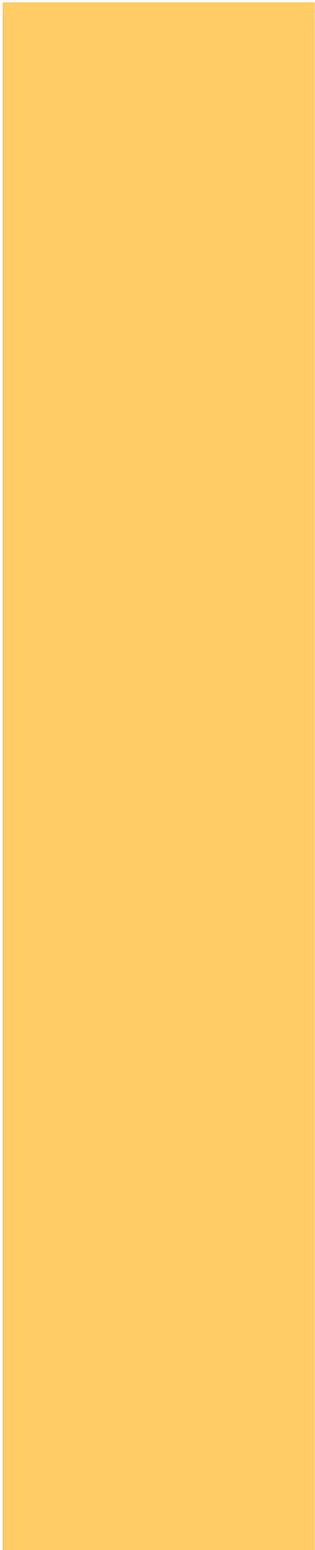
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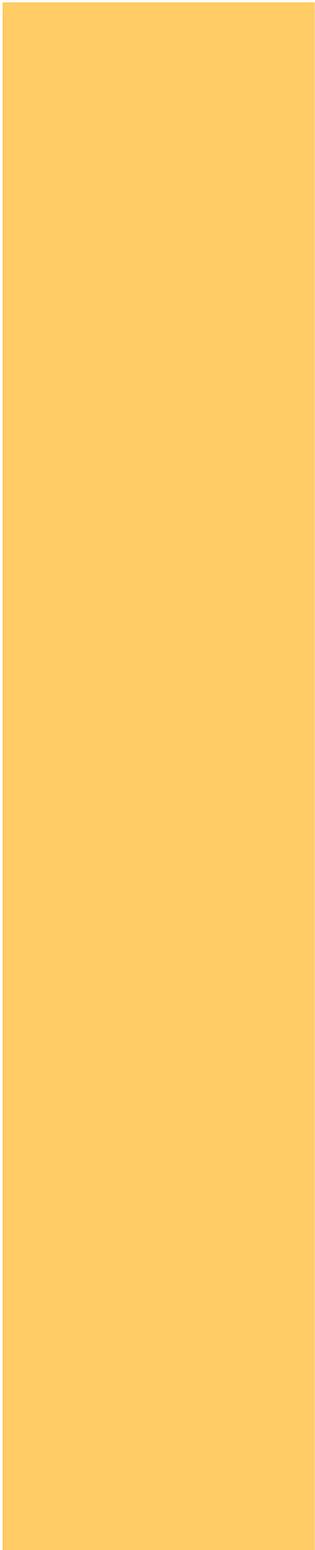


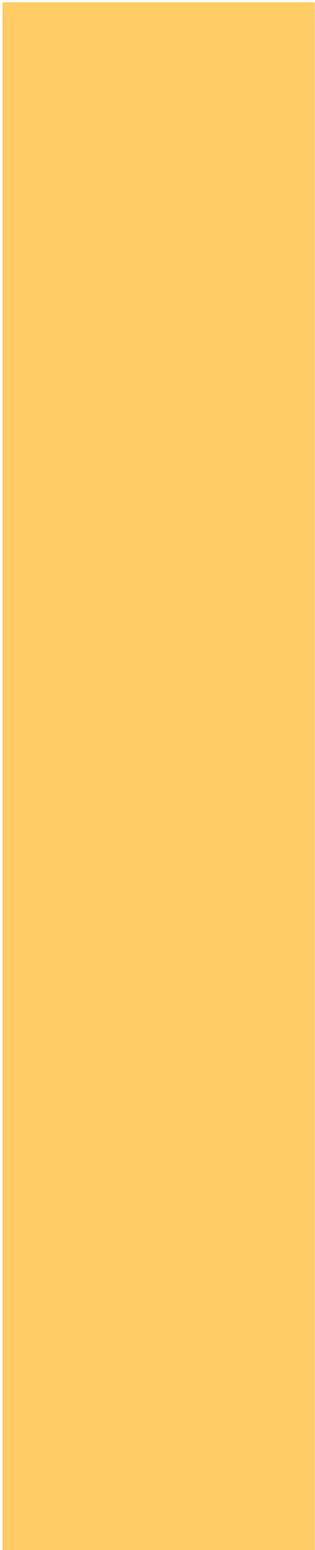


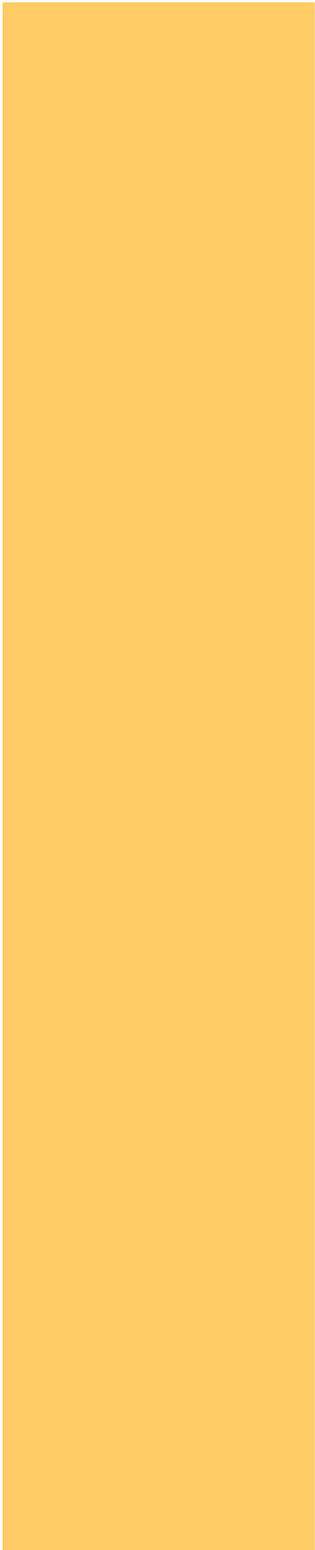


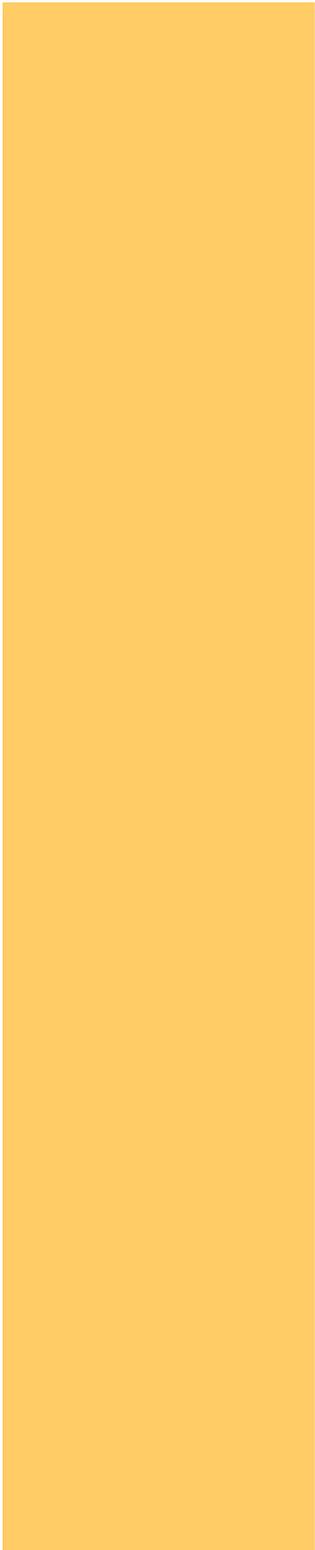
















# School of Business Administration

## Course Listings for Accounting

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### **Acc 225 Introduction to Financial Accounting (4-0) 4**

Concepts related to the preparation of financial statements and reports for parties external to the firm, such as stockholders, creditors and labor unions will be introduced. Understanding the information presented in the financial statements, the balance sheet, the income statement, and the statements of changes in financial position will be the major emphasis of the course.

### **Acc 226 Introduction to Managerial Accounting (4-0) 4**

Concepts related to the preparation of reports useful to management in planning and controlling the operations of a business will be introduced. The primary emphasis in this course will be on using accounting information for management planning, control and decision making. Topics include: behavior of costs, budgeting and planning, cost-volume-profit analyses and analysis of financial statements.

Prerequisites: Acc 225, Comp 150 or concurrent enrollment.

### **Acc 232 Preparation Of Your Income Tax Return (3-0) 3**

A non-technical approach to the fundamental concepts and mechanics of preparation of federal income tax returns. All classes of individual returns and commonly encountered business forms are covered.

### **Acc 319 Managerial Accounting (3-0) 3**

The application of accounting information for the principal purpose of making managerial decisions is stressed. Topics include: the analysis and interpretation of financial statements; budgeting for planning and control; cost behavior (cost-volume-profit relationships); relevant cost analysis for making long- and short-range capital expenditure decisions; and the impact of income taxes on management planning. This course is not available to students who have more than 14 semester credits in accounting.

Prerequisites: Junior standing and Acc 226.

### **Acc 323 Intermediate Accounting I (4-0) 4**

The fundamental process of accounting is analyzed. The proper treatment of business transactions in the recording and analyzing phases is reviewed. Financial accounting theory and problems are studied along with financial statement presentation.

Prerequisites: Junior standing and Acc 226.

### **Acc 324 Intermediate Accounting II (4-0) 4**

Continuation of financial accounting theory and problems. In addition, partnership accounting and an introduction to business combinations are covered.

Prerequisite: Acc 323.

### **Acc 327 Cost/Managerial Accounting (4-0) 4**

Emphasis on standard costs, analyses for decision making, and other special cost and analysis problems.

Prerequisites: Junior standing and Acc 226.

### **Acc 430W Income Tax Accounting (4-0) 4**

A brief history of the income tax, income tax accounting and a study of current federal income tax provisions are presented.

Prerequisites: BA 221 and Acc 323 or consent of instructor.

### **Acc 431 Advanced Income Tax Accounting (3-0) 3**

An introduction to tax research and planning, federal income tax treatment of taxpayers other than individuals (corporations, subchapter S corporations, partnerships, trusts and estates), the treatment of property transfers subject to federal and state gift and death taxes. The student will learn and use methodology of tax research.

Prerequisite: Acc 330.

### **Acc 432 Tax Planning and Research (3-0) 3**

This course covers tax research and planning. Students learn to analyze tax problems and communicate a solution in written and oral format. Computer-based research techniques are used.

Prerequisite: Acc 330.

### **Acc 434 Advanced Accounting (4-0) 4**

This course has two major components. The first component covers auditing topics including transaction cycles, internal control, statistical procedures, and auditing of electronic data systems. The second component develops basic principles relating to business combinations, consolidated statements, partnerships and international accounting.

Prerequisite: Acc 324.

### **Acc 435 Survey of Accounting Theory Trends (4-0) 4**

The origin and development of accounting; a review of the ideas of leading accounting theoreticians; an examination of current accounting theory; a look at accounting theory as it relates to the CPA examination.

Prerequisite: Acc 324.

### **Acc 436W Auditing-Theory and Practice (4-0) 4**

Functions of the independent public accountant are stressed. The course includes audit reports and options, account analysis, audit programs, working paper content and form, professional ethics, applications of accounting and auditing standards, SEC stock exchange regulations, investigations for purchase and financing, and current literature on auditing.

Prerequisites: BA 221, Acc 323, and Acc 327, or consent of instructor.

### **Acc 470 Governmental/Not-For-Profit Accounting (4-0) 4**

This course covers accounting standards and principles applicable to local and state governments and other not-for-profit entities

Prerequisites: Acc 323 or permission of instructor.

### **BA 499 Independent Study 1-6**

Individual research is conducted under the supervision of a faculty member.



Prerequisite: Approval of the Dean of the School of Business Administration



# School of Business Administration

## Accounting

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### Course listings for Accounting

The accounting major prepares students to embark immediately upon a career as a public, industrial or governmental accountant and provides a foundation in accounting and business administration that will enable them to pursue graduate study. Graduates can expect to work in such areas as management advisory services, income tax and auditing, budgeting, cost accounting and general accounting.

A student studying accounting must complete the following requirements:

#### **Courses:**

#### **GENERAL EDUCATION**

**Credits:**

**35-46**

\*\* Courses marked with double asterisks may also be counted toward TS 1 requirements.

#### **MAJOR REQUIREMENTS:**

#### ***Common SOBA Requirements***

**42**

#### ***Quantitative Reasoning Requirements***

**4**

#### ***Auxiliary Requirements***

**4**

#### ***Other Departmental Requirements:***

Acc 323 Intermediate Accounting I

4

Acc 324 Intermediate Accounting II

4

Acc 327 Cost/Managerial Accounting

4

CSIS 425W Accounting Information Systems

4

Plus select at least 2 courses from the following courses, at least one of which must be Acc 430W or Acc 436W:

Acc 430W Income Tax Accounting

4

Acc 431 Advanced Income Tax Accounting

3

Acc 432 Tax Planning and Research

3

Acc 434 Advanced Accounting

4

Acc 435 Survey of Accounting Theory Trends

4

Acc 436W Auditing - Theory and Practice

4

Acc 470 Governmental/Not-For-Profit Accounting

4

BA/CSIS 402 Electronic Commerce

4

CSIS Any 4-credit Upper Division Class

4

BA 481W Cases in Financial Management	4
<b>Total Other Departmental Requirements</b>	<b>23-24</b>
<b>TOTAL MAJOR REQUIREMENTS</b>	<b>73-74</b>

FREE ELECTIVES (variable)

**TOTAL REQUIRED FOR GRADUATION 120**

The credits used to satisfy the accounting major may not be used to satisfy any other major, minor or option within the School of Business Administration.

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

Although not required in Colorado, to become a certified public accountant (CPA), most states have enacted a 150-hour requirement. The Fort Lewis College accounting program allows students to meet that requirement. If one of your goals is to become a CPA with the ability to practice in states other than Colorado, then you may want to choose the Fort Lewis College 150-hour program (which includes a degree in Accounting).

In addition to the courses required for the 120-hour accounting major, you must complete at least 30 additional credits including all of the following classes.

Acc 430W Income Tax Accounting	4
Acc 431 Advanced Income Tax Accounting	3
Acc 434 Advanced Accounting	4
Acc 435 Survey of Accounting theory Trends	4
Acc 436W Auditing - Theory and Practice	4
Acc 470 Governmental/Not-For-Profit Accounting	4
BA 311 Business Law I	3
BA 312 Business Law II	3
BA 481W Cases in Financial Management	4
CSIS Any 4-credit upper-division class	4

#### **REQUIREMENTS FOR A MINOR IN ACCOUNTING:**

##### **Courses:**

##### **Credits:**

A student majoring in any discipline other than Accounting may complete a minor in Accounting upon satisfactorily fulfilling the following requirements:

Acc 225 Introduction to Financial Accounting	4
Acc 226 Introduction to Managerial Accounting	4
Acc 323 Intermediate Accounting I	4
Acc 327 Cost/Managerial Accounting	4
Plus at least one of the following:	
Acc 324 Intermediate Accounting II	4
Acc 430W Income Tax Accounting	4
Acc 470 Governmental/Not-For-Profit Accounting	4
<b>Total</b>	<b>20</b>

**REQUIREMENTS FOR A MINOR IN BUSINESS ADMINISTRATION:**

A student majoring in any discipline other than Accounting, Business Administration, Economics, or Sports Administration, may complete a minor in Business Administration upon satisfactorily fulfilling the following requirements:

**Econ 266S Principles of Economics	4
Acc 225 Introduction to Financial Accounting	4
**BA 260S Legal Environment of Business	3
BA 301 Management and Organizational Behavior	4
BA 340 Marketing	4
Econ 201, CSIS 322, or one (1) upper-division Business Administration Elective totaling not less than four (4) hours	3-4
<b>Total</b>	<b>22-23</b>

Contact the Office of the Dean of the School of Business Administration once the requirements for a minor in Accounting, Business Administration, Marketing or Economics are complete.

**Accounting Majors Suggested Course Sequence**

Freshman Year				Sophomore Year			
Fall		Winter		Fall		Winter	
Econ 266S	4	Comp 150	4	BA 260S			
ES 100	1	Lib 150	1	Acc 225	3	BA 253Q	4
PE Activity	1	PE Activity	1	Non BA Q/R	4	Acc 226	4
TS 1 (R,N, or T)	8	TS 1(R,N, or T)	4	Course	4	BA 221	3
		Elective	4	Elective	3-4	BA 301	4
<b>Total</b>	<b>14</b>	<b>Total</b>	<b>14</b>	<b>Total</b>	<b>14-15</b>	<b>Total</b>	<b>15</b>
Junior Year				Senior Year			
Fall		Winter		Fall		Winter	

Acc 323	4	Acc 324	4	Acc 430W or 436W	4	BA 496	4
CSIS 322	4	BA 340	4	Acc Elective	3-4	Acc Elective	4
ACC 327	4	BA 353	4	TS 2	4	TS 2	4
TS2	3-4	TS2	3-4	<b>Total</b>	4	CSIS 425	4
<b>Total</b>	<b>15-16</b>	<b>Total</b>	<b>15-16</b>		<b>15-16</b>	<b>Total</b>	<b>16</b>

It is critical that students consult an accounting advisor when preparing course schedules.

Students planning to graduate in December need to take CSIS 425 in this term.

For students preparing for professional exams, it is recommended that both ACC 430 & 436 be taken in Fall Senior Year.

Only two ACC electives are required for graduation, but it is recommended that more be taken to increase career skills and preparation for professional exams.

120 credit hours are required for graduation. The sum of these suggested courses ranges from 117-122.



# Administration & Faculty

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<b>GREGORY W. BELL</b>	Assistant Vice President for Academic Affairs
<b>STEVEN SCHWARTZ</b>	Interim Vice President for Business and Finance
<b>STEPHEN A. RODERICK</b>	Vice President for Academic Affairs
<b>GLENNA SEXTON</b>	Vice President for Student Affairs
<b>JOHN NINNEMANN</b>	Dean, School of Arts and Sciences
<b>JOHN E. CAVE</b>	Dean, School of Business Administration
<b>VIRGINIA A. ENGMAN</b>	Dean, School of Education
<b>SHERI R. ROCHFORD</b>	Dean, Admission & Development
<b>BYRON DARE</b>	Chair, Faculty Executive Council
<b>JUDITH JOHNSON</b>	Staff Representative
<b>PEGGY SHARP</b>	Executive Assistant to the President

## ADMINISTRATIVE PERSONNEL

<b>JAMES K. ASH</b>	Director of Cooperative Education
<b>WILLIAM C. BOLDEN</b>	Director of Student Housing and Conference Services
<b>VICKI CASKEY</b>	Director of Human Resources /Equal Opportunity/Institutional Affairs
<b>CONRAD L. CHAVEZ</b>	Administrator of Financial Aid
<b>PHILIP COONEY</b>	Director of Union and Activities Office
<b>GEORGE F. CURTIS</b>	Manager, Administrative Computing
<b>DAVID EPPICH</b>	Assistant to the President for College Relations
<b>KEN FRANCIS</b>	Director, Office of Community Services
<b>GARY GOOLD</b>	Controller
<b>ANDREW GULLIFORD</b>	Director, Center of Southwest Studies
<b>WAYNE HERMES, JR.</b>	Director of Purchasing
<b>DANIEL P. HOFF</b>	Physician's Assistant, Manager of Student Health Center
<b>JEFF FRISBIE</b>	Interim Director of the Library
<b>ROBERT P. LUNDQUIST</b>	Director of Learning Assistance Center
<b>AL MAGES</b>	Director of Physical Plant and College Engineer
<b>PAUL MARES</b>	Bookstore Manager

<b>SUSAN K. MCGINNESS</b>	Director of Counseling and Student Development Center
<b>JOSEPH P. PERINO</b>	Director of Facilities Planning and Contracts and Grants Administrator
<b>DAVID PRESZLER</b>	Athletic Director
<b>SHERI R. ROCHFORD</b>	Dean of Admission & Development
<b>AMY STENSLIEN</b>	Director of Institutional Research
<b>ALLYN TALG</b>	Director of Career Services
<b>ARNOLD TRUJILLO</b>	Director of Public Safety
<b>SHERRI WAGGONER</b>	Registrar
<b>JILL WIEGERT</b>	Assistant Director of Student Housing and Conference Services
<b>HUBERT WILLIAMS</b>	Director of Native American Center
<b>RICHARD C. WILLIS</b>	Director of Financial Aid
<b>CRAIG E. YOUNG</b>	Director of Computing and Telecommunications

Academic Faculty

Faculty Emeriti

### ACADEMIC FACULTY 2002-03

**A B C D E F G H I J K L M N O P R S T V W Y**

\*Date after title denotes when appointment began at Fort Lewis College.

**ADAMS, EVANS JOSEPH**, Professor of Computer Science (1990)\*

B.S., Nicholls State University, 1977

M.S., University of Southwestern Louisiana, 1979

Ph.D., University of Southwestern Louisiana, 1982

**AGUILAR, KATHLEEN (CATALINA)**, Instructor of Modern Language (1998)

B.A., University of New Mexico, 1987

M.A., University of New Mexico, 1988

**ANZIANO, MICHAEL CURRAN**, Associate Professor of Psychology (1993)

B.A., University of Denver, 1971

M.A., University of Colorado/Denver, 1978

Ph.D., University of Colorado/Boulder, 1984

**ASH, JAMES K.**, Director of Cooperative Education and Associate Professor of History and Women's Studies (1970)

A.B., University of California/Berkeley, 1967

A.M., Harvard University, 1970

**BARTLETT, WILLIAM R.**, Professor of Chemistry (1978)

B.A., Luther College, 1965

Ph.D., Stanford University, 1969

**BEDOR, DONNA AGNES**, Librarian and Associate Professor (1990)

B.A., Mt. Angel College, 1961

M.L.S., University of Denver, 1965

**BEELMAN, CLARE ANN**, Assistant Professor of Biology (1999)

B.A., Knox College, 1991

Ph.D., University of Arizona, 1996

**BELL, GREGORY W.**, Professor of Mathematics and Assistant Vice President for Academic Affairs (1978)

B.A., University of Utah, 1969

M.A., University of Michigan, 1972

Ph.D., University of Michigan, 1976

**BENZ, BRADLEY PAUL**, Assistant Professor of English (2001)

B.A., University of Kansas, 1991

M.A., Humboldt State University, 1995

Ph.D., University of Washington, 2001

**BERRETTINI, MARK LOUIS**, Assistant Professor of English (1999)

B.A., University of Notre Dame, 1994

M.A. University of Rochester, 1997

Ph.D., University of Rochester, 2000

**BERRIER, DEBORAH LANE**, Associate Professor of Mathematics (1989)

B.S., New Mexico State University, 1977

M.S., Virginia Polytechnic Institute, 1980

M.S., Clemson University, 1986

Ph.D., Medical University of South Carolina, 1989

**BLANCHARD, KENDALL A.** Professor of Anthropology (1999)

B.A., Olivet Nazarene College, 1964

M.Div., Vanderbilt University, 1968

M.A., Southern Methodist University, 1970

Ph.D., Southern Methodist University, 1971

**BROWN, ALANE SUSAN**, Associate Professor of Psychology and Women's Studies (1990)

B.A., Brandeis University, 1981

M.A., Princeton University, 1988

Ph.D., Princeton University, 1990

**BROWDER, CINDY CAROL**, Assistant Professor of Chemistry (2001)

B.A., Oberlin College, 1993

Ph.D., University of Utah, 2001

**BUNCH, KENYON DALE**, Associate Professor of Political Science (1993)

B.S.E., Central Missouri State University, 1970

M.A., Lincoln University, 1977

Ph.D., University of Missouri, 1985

**BUNTING, ROBERT REED**, Assistant Dean, School of Arts and Sciences and Associate Professor of History (1994)

B.S., Eastern Oregon State College, 1969

M.A., Wichita State University, 1971

Ph.D., University of California/Davis, 1993

**BYRD, JOHN WILLIAM**, Associate Professor of Biology (1997)

B.A., Fort Lewis College, 1977

M.P.P.M., Yale University, 1979

Ph.D., University of Oregon, 1988

**BYRD, SHERELL KUSS**, Associate Professor of Biology (1992)

B.A., Western State College, 1980

M.S., University of Oregon, 1983

Ph.D., University of Oregon, 1987

**CARDONA, NANCY KAY**, Assistant Professor of English (2000)

B.A., St. Mary's University, 1991

Ph.D., Indiana University, 2000

**CARRASCO, LOURDES M.**, Professor of Modern Language (1983)

B.A., University of California/Santa Barbara, 1968

M.A., University of California/Santa Barbara, 1970

Ph.D., Michigan State University, 1979

**CASHMAN, TIMOTHY GEORGE**, Assistant Professor of Teacher Education (2001)

B.A., University of Northern Iowa, 1977

M.A., University of New Mexico, 1994

Ph.D., Washington State University, 1998

**CASON, MAGGIE AGNES**, Assistant Professor of Teacher Education (1999)

B.S., Missouri Western State College, 1978

M.S., University of Wyoming, 1988

Ph.D., University of Wyoming, 1999

**CAVE, JOHN E.**, Dean, School of Business Administration and Professor of Business Administration (1990)

B.S., University of Minnesota, 1966

M.S., University of Minnesota, 1970

Ph.D., University of Minnesota, 1975

**CHARLES, MONA CERISE**, Anthropology Field School Director

B.A., University of Tennessee, 1976

M.A., University of Nebraska, 1981

**CHEESEWRIGHT, GORDON PAUL**, Professor of English (1988)

B.A., Principia College, 1964

M.A., University of California/Los Angeles, 1969  
Ph.D., University of California/Los Angeles, 1972

**CHEW, BEVERLY R.**, Professor of Psychology (1989)

A.B., Bryn Mawr College, 1974  
A.M., Harvard University, 1980  
Ph.D., Harvard University, 1983

**CLARK, KATHERINE ANN**, Visiting Instructor of History

B.A., University of Richmond, 1991  
M.A., Indiana University, 1995

**CLAY, CHERYL DUDTE**, Associate Professor of Teacher Education (1994)

B.A., Kansas State University, 1969  
M.A., Kansas State University, 1974  
Ph.D., University of Denver, 1995

**COLLIER, JAMES D.**, Professor of Geology (1982)

B.A., Carleton College, 1976  
Ph.D., Colorado School of Mines, 1982

**CONDIE, JOHN MacPHERSON**, Associate Professor of Biology (1989)

B.S., Northeast Missouri State University, 1974  
Ph.D., University of Minnesota, 1984

**COOK, ROY ALLEN**, Associate Dean, School of Business Administration and Professor of Business Administration (1989)

B.B.A., Southwest Texas State, 1971  
M.B.A., Sam Houston State University, 1972  
D.B.A., Mississippi State University, 1989

**CORMAN, LAWRENCE S.**, Professor of Business Administration (1982)

B.A., Texas Tech University, 1976  
M.S., Texas Tech University, 1977  
Ph.D., University of North Texas, 1989

**COSTELLO, MOLLY COLLEEN**, Visiting Instructor in the Writing Program

B.A., Saint Bonaventure University, 1990  
M.A., Northern Illinois University, 1992

**CRAWFORD, GERALD**, Professor of Physics (1986)

B.A., Gustavus Adolphus College, 1979  
M.S., University of Oregon, 1980  
Ph.D., University of Oregon, 1983

**CRIDLAND, SEAN ERIC**, Assistant Professor of Political Science/Philosophy (1997)

B.A., Fort Lewis College, 1992  
M.A., University of Hawaii/Manoa, 1993  
Ph.D., University of Hawaii/Manoa, 1997

**CROSS, JAMES S.**, Assistant Professor of Exercise Science (1988)

B.S., Springfield College, 1974  
M.S., Queens College, 1983

**CROWDER, JOHN**, Librarian and Professor (1973)

B.A., University of Colorado, 1969  
M.A., University of Denver, 1973

**DARE, BYRON**, Professor of Political Science (1984)

B.A., University of Southern California, 1973  
M.A., University of Southern California, 1974  
Ph.D., University of Southern California, 1983

**DAVIS, GINNY ANN**, Assistant Professor of Theatre (1999)

B.F.A., University of Texas, Austin, 1986  
M.F.A., University of Houston, 1991  
Ph.D., Texas Tech University, 1996

**DEAR, JENNIE CYRENE**, Associate Professor of English (1996)

B.A., Williams College, 1983  
M.A., University of New Mexico, 1991  
Ph.D., University of New Mexico, 1996

**DODDS, WILLIAM B.**, Professor of Marketing (1992)

B.S., Clarkson University, 1970  
M.S., Clarkson University, 1971  
Ph.D., Virginia Polytechnic Institute, 1985

**DOLPHIN, ROBERT, JR.**, Interim President and Professor of Finance (1984)

B.S., Indiana University, 1960  
M.B.A., Indiana University, 1961  
D.B.A., Michigan State University, 1964

**DORR, BETTY JEAN**, Associate Professor of Psychology (1991)

B.A., Arkansas Tech University, 1984  
M.A., University of Nebraska/Omaha, 1988  
Ph.D., University of Nebraska, 1993

**DUKE, PHILIP G.**, Professor of Anthropology (1980)

B.A., Cambridge, England, 1976  
M.A., University of Calgary, Canada, 1978  
M.A., Cambridge, England, 1982  
Ph.D., University of Calgary, Canada, 1982

**EL-HAKIM, OMNIA I.**, Professor of Engineering (1984)

B.S., Ein Shams University, Egypt, 1966

M.S., Cairo University, 1977

Ph.D., Colorado State University, 1984

**ELKINS, ELEANOR AGNES**, Assistant Professor of Music (2001)

B.A., Barnard College, 1983

M.M., University of Colorado/Boulder, 1987

D.M.A., University of Colorado/Boulder, 1992

**ELLIS, RICHARD N.**, Professor of Southwest Studies (1987)

B.A., University of Colorado, 1961

M.A., University of Colorado, 1963

Ph.D., University of Colorado, 1967

**ELLISON, J. TODD**, Archivist and Associate Professor (1991)

B.A., Middlebury College, 1977

M.A., University of Maryland, 1986

M.L.S., University of Maryland, 1986

**ENGMAN, VIRGINIA A.**, Dean of Education and Professor of Education (1978)

B.A., SUNY, Oswego, 1972

M.S., SUNY, Oswego, 1973

Ph.D., Arizona State University, 1978

**ERICKSON, MARY ANN**, Assistant Professor of Exercise Science (1998)

B.S., Ithaca College, 1978

M.S., Indiana State University, 1980

Ph.D., University of New Mexico, 1998

**ESTLER, RON C.**, Professor of Chemistry (1982)

B.A., Drew University, 1972

M.A., Johns Hopkins University, 1974

Ph.D., John Hopkins University, 1976

**FARRELL, TIMOTHY PETER**, Assistant Professor of Music (1999)

B.M.A., Pacific Lutheran University, 1990

M.M., Northwestern University, 1991

D.M.A., University of Oregon, 2000

**FINE-DARE, KATHLEEN S.**, Professor of Anthropology and Women's Studies (1983)

B.A., DePauw University, 1974

M.A., University of Illinois, 1980

Ph.D., University of Illinois, 1986

**FITZGERALD, JAMES**, Professor of Sociology/Human Services and Modern Language (1971-75, 1988)

B.A., University of Notre Dame, 1961

M.A., University of Wyoming, 1966  
Ph.D., University of Colorado, 1983

**FITZGERALD, JANINE MARIE**, Associate Professor of Sociology/Human Services and Women's Studies (1994)

B.A., University of Colorado, 1987  
M.A., University of New Mexico, 1990  
Ph.D., University of New Mexico, 1996

**FREEMAN, MICHAEL RUSSELL**, Assistant Professor of Art (1998)

B.A., University of Oregon, 1990  
M.A., Indiana University, 1995  
Ph.D., Indiana University, 2000

**FRISBIE, JEFFREY LYNN**, Interim Library Director and Associate Professor (1994)

B.S., Northern Michigan University, 1979  
M.L.S., University of Arizona, 1994

**FRY, MICHAEL FORREST**, Associate Professor of History (1990)

B.A., Westminster College, 1977  
M.A., Tulane University, 1980  
Ph.D., Tulane University, 1988

**FULLMER, SHAWN**, Assistant Professor of English (2001)

B.A., Utah State University, 1993  
M.A., Utah State University, 1996  
Ph.D., University of Nevada-Reno, 2001

**GARCÍA, REYES ROBERTO**, Professor of Philosophy (1988)

B.A., University of Colorado, 1974  
Ph.D., University of Colorado, 1988

**GEHRMAN, JENNIFER ANN**, Associate Professor of English and Women's Studies (1996)

B.A., University of Wisconsin, 1988  
M.A., Indiana University of Pennsylvania, 1991  
Ph.D., Indiana University of Pennsylvania, 1996

**GIANNINY, GARY LEE**, Associate Professor of Geology (1999)

B.A., Colorado College, 1983  
M.S., University of Wisconsin/Madison, 1990  
Ph.D., University of Wisconsin/Madison, 1995

**GONZALES, DAVID ALAN**, Assistant Professor of Geology (1998)

B.S., Fort Lewis College, 1982  
M.S., Northern Arizona University, 1988  
Ph.D., The University of Kansas, 1997

**GORDON, DONALD R.**, Professor of Anthropology (1975)

B.A., California State University/San Francisco, 1964  
M.S., University of Oregon, 1969  
Ph.D., University of Oregon, 1974

**GREENWOOD, ALLEN FREDRICK**, Visiting Instructor of Mathematics

A.S., Rend Lake College, 1994  
B.S., Western Illinois University, 1995  
M.S., Western Illinois University, 1996

**GREENWOOD, TINA EVANS**, Librarian and Associate Professor (1996)

B.A., University of Arizona, 1987  
M.A., Tulane University, 1990  
M.L.S., University of Arizona, 1993

**GRIGG, KALIN LYNN**, Assistant Professor of Sociology/Human Services (1994)

B.A., Fort Lewis College, 1977  
M.A., Conservative Baptist Theological Seminary, 1986

**GULLIFORD, ANDREW JELLIS**, Director, Center of Southwest Studies; Professor of History and Southwest Studies (2000)

B.A., The Colorado College, 1975  
M.A.T., The Colorado College, 1976  
Ph.D., Bowling Green State University, 1986

**HANNULA, KIMBERLY ANN**, Assistant Professor of Geology (2000)

B.A., Carleton College, 1989  
Ph.D., Stanford University, 1993

**HARTNEY, ANN MARY**, Visiting Instructor in the Writing Program

A.B., Hope College, 1982  
M.A., Idaho State University, 1995

**HARTSFIELD, LARRY K.**, Professor of English (1984)

B.A., Abilene Christian University, 1974  
M.A., Southern Illinois University, 1976  
Ph.D., University of Texas, 1982

**HOSSAIN, ZIARAT**, Associate Professor of Psychology (1994)

B.S., Jahangirnagar University, 1981  
M.S., Jahangirnagar University, 1984  
M.A., University of Manitoba, 1989  
Ph.D., Syracuse University, 1992

**HUNT, KENNETH ALLEN**, Professor of Marketing (1999)

B.S., Concord College, 1977  
M.B.A., Virginia Polytechnic Institute and State University, 1978  
Ph.D., Virginia Polytechnic Institute and State University, 1984

**HUNTER, DOREEN**, Professor of History and Women's Studies (1980)

B.A., Stanford University, 1960

M.A., University of California/Berkeley, 1961

Ph.D., University of California/Berkeley, 1969

**IRISH, BRIDGET JANE**, Visiting Instructor in the Writing Program

B.A., University of Albany, 1991

M.A., University of Albany, 1997

**IVERSON, MARTHA SUSAN**, Associate Professor of Physics (1992)

B.A., University of Colorado, 1971

Ph.D., University of Colorado, 1976

**JAMIESON, DAVID W.**, Professor of Biology (1978)

A.B., Humboldt State University, 1966

M.A., Humboldt State University, 1969

Ph.D., University of British Columbia, 1976

**JONES, JANET LEE**, Professor of Psychology (1990)

B.A., Pomona College, 1984

M.A., University of California/Los Angeles, 1985

Ph.D., University of California/Los Angeles, 1989

**JUNG, MARCELYN BETH**, Assistant Professor of Exercise Science (1990)

B.A., Fort Lewis College, 1981

M.S., Illinois Benedictine College, 1990

**KENDALL, DEBORAH MARIE**, Associate Professor of Biology (1987)

B.S., Colorado State University, 1975

M.S., University of Colorado, 1981

Ph.D., Colorado State University, 1987

**KENNY, RAY**, Associate Professor of Geosciences (2001)

B.S., Northeastern Illinois University, 1983

M.S., Arizona State University, 1986

Ph.D., Arizona State University, 1991

**KNIGHT-MALONEY, MELISSA A.**, Assistant Professor of Exercise Science (1997)

B.A., Fort Lewis College, 1989

M.A., University of New Mexico, 1993

Ph.D., University of New Mexico, 1999

**KOZAK, DAVID LEE**, Associate Professor of Anthropology (1994)

B.A., Fort Lewis College, 1986

B.A., Fort Lewis College, 1987

M.A., Arizona State University, 1990  
Ph.D., Arizona State University, 1994

**LANDRUM, MARGARET COZINE**, Librarian and Associate Professor (1994)

B.A., Louisiana State University, 1970  
M.L.S., University of Mississippi, 1975  
M.L.S., Vanderbilt University, 1979

**LAPP, JAMES LOUIS**, Visiting Instructor of Mathematics

B.A., Humboldt State University, 1989  
M.S., Humboldt State University, 1994

**LASHELL, BETH ANNE**, Visiting Instructor of Agriculture

B.S., Ohio State University, 1984  
M.S., Colorado State University, 1986

**LEFTWICH, MARILYN STACEY**, Associate Professor of Psychology (1991)

B.S., University of Alabama, 1964  
M.S., Florida State University, 1970  
Ph.D., Florida State University, 1973

**LEHMAN, DALE E.**, Associate Professor of Economics (1983)

B.A., State University of New York at Stony Brook, 1972  
M.A., University of Rochester, 1975  
Ph.D., University of Rochester, 1981

**LIENERT, CARL FRIEDRICH**, Assistant Professor of Mathematics (2001)

B.S., Massachusetts Institute of Technology, 1990  
Ph.D., University of Colorado, 1998

**LINDSEY, J. PAGE**, Professor of Biology (1978)

B.A., Hendrix College, 1970  
M.S., University of Arizona, 1972  
Ph.D., University of Arizona, 1975

**LOUNGE, JOSEPH PATRICK**, Associate Professor of Teacher Education (1996)

B.A., Colorado State University, 1971  
M.A., Colorado State University, 1979  
Ph.D., University of Northern Colorado, 1986

**LUM, DENNIS W.**, Associate Professor of Sociology/Human Services (1975)

B.A., University of Nevada/Reno, 1966  
M.A., University of Nevada/Reno, 1971  
M.A., University of California/San Diego, 1973

**LYNCH, VERNON E., JR.**, Professor of Economics (1972)

B.A., University of Texas/Austin, 1965

M.A., University of Texas/Austin, 1967  
Ph.D., University of Arizona, 1976  
C.P.A., Colorado, 1988

**LYON, CHRIS ANN SANDER**, Visiting Instructor of Accounting

B.A., Fort Lewis College, 1986  
M.S., University of Colorado, 1990  
C.P.A., Colorado, 1988

**LYON, DOUGLAS WILLIAM**, Assistant Professor of Management (2002)

B.A., Fort Lewis College, 1987  
Ph.D., University of Kentucky, 1997  
C.P.A., Colorado, 1992

**MACK, LINDA S.**, Professor of Music (1982)

B.M.E., Illinois State University, 1975  
M.S., University of Illinois, 1980  
Ed.D., University of Illinois, 1982

**MALACH, MICHELE MARIE**, Assistant Professor of English (1994)

B.A., Auburn University, 1986  
M.A., Auburn University, 1988  
Ph.D., University of Texas, 2000

**MANN, ROCHELLE G.**, Professor of Music (1987)

B.M.E., Indiana University, 1975  
M.S., Indiana University, 1980  
D.M.A., Arizona State University, 1991

**MARTINEZ, SUSAN MARY**, Visiting Instructor of Teacher Education

B.A., University of Southern Colorado, 1969  
M.A., University of Northern Colorado, 1979

**MAY, DONALD R.**, Professor of Engineering (1984)

B.S., Colorado State University, 1978  
M.S., Colorado State University, 1982  
Ph.D., Colorado State University, 1993

**McHUGH, NEIL**, Professor of History (1984)

B.A., University of Kentucky, 1972  
M.A., Indiana University, 1974  
Ph.D., Northwestern University, 1986

**McKENZIE, PATRICK BRUCE**, Visiting Professor of Accounting

B.S., Kansas State University, 1962  
M.S., Kansas State University, 1964  
Ph.D., Michigan State University, 1970

**McKNIGHT, REED**, Professor of Accounting (1981)

B.S., University of Idaho, 1969

M.B.A., Washington State University, 1971

Ph.D., University of Oregon, 1981

C.P.A., Montana, 1974

**McSHAN, DOROTHY DELL**, Visiting Instructor of Mathematics

B.A., Texas Christian University, 1964

M.S., Oklahoma State University, 1966

**MEMON, IQBAL A.**, Professor of Business Administration (1988)

B. Com., University of SIND, 1971

M. Com., University of SIND, 1973

M. Phil., University of SIND, 1979

M.B.A., Illinois State University, 1979

D.B.A., Mississippi State University, 1984

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**MOLLER, KATHRYN SARELL**, Associate Professor of Theatre and Women's Studies (1994)

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M.S., James Madison University, 1983

Ph.D., University of Colorado, 1993

**MOSELEY, MARY JEAN**, Professor of English and Southwest Studies (1973)

B.A., University of New Mexico, 1964

M.A., University of New Mexico, 1970

Ph.D., University of North Dakota, 1985

**MOSS, SUSAN MARGARET**, Associate Professor of Art (1991)

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M.S., University of Missouri/Columbia, 1983

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**MULL, FREDERICK HOBERT**, Associate Professor of Finance (1994)

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M.F.A., Brigham Young University, 1968

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**RYAN, INGRID W.**, Professor of Modern Language (1981)

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Ph.D., University of Oregon, 1980

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**SHULER, PHILIP EPPS**, Associate Professor of Agriculture (1991)

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M.S., University of Kentucky, 1980

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**SHULTZ, ASHLEY**, Associate Professor of Physics (1996)

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**SHULTZ-LOCKYEAR, LORANELLE LOUISE**, Assistant Professor of Chemistry (1999)

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**SIMBECK, CATHY L.**, Assistant Professor of Exercise Science (1984)

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**SKURKY, THOMAS A.**, Professor of Psychology (1984)

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M.A., University of Wyoming, 1985 M.B.A., University of Kentucky, 1993

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**SMITH, DUANE A.**, Professor of History (1964)

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Ph.D., University of Colorado, 1964

**SMITH, PAMELA KAREN MAUREEN**, Assistant Professor of Mathematics (1998)

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M.A., Wheeling Jesuit University, 1989

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**SNYDER, HERBERT**, Assistant Professor of Management (1999)

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M.A., Adams State College, 1987

**SOMERS, LEE PRESTON**, Professor of Biology (1969)

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**STOVALL, STEPHEN**, Visiting Instructor of Marketing

B.S., University of Pennsylvania, 1962

M.A., University of Pennsylvania, 1963

**SZUECS, LASZLO**, Professor of Mathematics and Computer Science (1984)

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Ph.D., Johns Hopkins University, 1969

M.S., University of Colorado, 1984

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M.Ed., Central State University, 1971  
Ed.D., University of Oklahoma, 1979

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**WELLS, C. GERALD**, Professor of Art (1970)

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BREW, DOUGLAS, Professor of Geology Emeritus  
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Degre Supérieur, Sorbonne  
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M.S., New Mexico State University  
D.B.A., United States International University

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M.A., University of Iowa  
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A.B., Kletzing College  
B.D., Asbury Theological Seminary  
S.T.M., Harvard University  
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RAMALEY, WILLIAM C., Professor of Mathematics  
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REEDER, RAY M., Professor of History Emeritus  
B.S., Utah State University  
Ph.D., Brigham Young University

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ROSENBERG, HARRY C., Associate Professor of Mathematics Emeritus  
B.A., University of Northern Colorado  
M.A., University of Northern Colorado  
M.A., University of Illinois

SEALE, CAROL M., Associate Professor of Exercise Science Emerita  
B.A., Carroll College  
M.A. University of Northern Colorado

SHIPPS, HARROLD S., JR., Librarian and Professor Emeritus  
B.S., Bridgewater State College  
M.Ed., Bridgewater State College  
M.S.P.A., George Washington University  
M.A., Librarianship, University of Denver

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STRAWN, RICHARD G., Professor of Music Emeritus

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M.M., Indiana University

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L.L.B. & J.D., Blackstone School of Law

M.A., University of Utah Ph.D., University of Utah

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M.A., University of New Mexico

Ed.D., University of Southern California

TUSTIN, CHARLES O., Professor of Business Administration Emeritus

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M.A. Occidental College

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M.A., University of New Mexico  
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Ph.D., University of Arizona



# Admission

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## Application

### Student Classifications

### Exemption for Comp 150

### Freshman Orientation

### Transfer Student Advising and Registration Programs

### Withdrawing from Fort Lewis College

## APPLICATION

Fort Lewis College adheres to the standards established by the Colorado Commission on Higher Education (CCHE).

Students may apply for admission to Fort Lewis College any time after completion of their junior year of high school. An application should be submitted as early as possible.

### ***Application Deadlines***

Fall Trimester August 1

Winter Trimester December 1

First Summer Session April 1

Second Summer Session May 1

Third Summer Session June 1

Application deadlines are subject to change. The required application form usually will be available at the office of any Colorado high school counselor. It can always be obtained from the Admission and Development Office at Fort Lewis College. To request an application, call 970-247-7184. The FAX number is 970-247-7179. You may also obtain an application by visiting our [web site](#), or by [emailing us](#) to request admission materials.

### ***Apply for Admission Electronically***

You may also apply for admission to Fort Lewis College electronically on the College's [web site](#). Students who wish to live in on-campus housing should apply early and must be accepted by the College before applying for on-campus housing.

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## STUDENT CLASSIFICATIONS

**Freshmen**  
**Transfer**  
**Native American**  
**International**  
**Unclassified**  
**Veteran**  
**Concurrent**

***Freshmen***

***High school students should:***

1. Obtain an application for admission from their high school counselor or from Fort Lewis College (by either calling 970-247-7184 or emailing a request to [admission@fortlewis.edu](mailto:admission@fortlewis.edu)).
2. Fill out the application for admission and mail it with the \$20 non-refundable application fee to the Admission and Development Office. Please refer to the top of the page for application deadlines.
3. Request that an official transcript from their high school principal or counselor be sent to Fort Lewis College.
4. Take the American College Test (ACT) or Scholastic Aptitude Test (SAT) and have the results sent to Fort Lewis College. It is suggested that one of these tests be taken in the spring of the junior year of high school. Complete information regarding these tests may be secured from the student's high school counselor or principal, or by writing to:

Registration Department,  
American College Testing Program,  
P.O. Box 414,  
Iowa City, IA  
52240

or

Registration Department,  
Scholastic Aptitude Test,  
Box 592,  
Princeton, NJ  
08541;

[www.collegeboard.org](http://www.collegeboard.org).

The entering freshman class is selected from applicants who, by their records from high school and the ACT or SAT results, show promise of profiting from, and contributing to, the educational opportunities offered by Fort Lewis College.

The Dean of Admission and Development and her advisors base their judgment on the high school records, ACT/ SAT test results, and class rank as well as recommendations and other pertinent information. Those admitted to Fort Lewis College should be high school graduates who have completed 15 acceptable secondary school units with preference being given to students who have followed a strong college preparatory program.

The College recognizes the importance of advising high school students, their counselors, and instructors early so that potential college students can prepare for a successful college career. Therefore, the College has determined high school coursework most useful to college-bound students.

Students should understand, however, that the more nearly their curricula meet the recommendations, the better prepared they will be for college. The chart below presents *RECOMMENDED* coursework for admission to Fort Lewis College. Both prospective students and their counselors should realize that, while specific courses are important for college preparation, of perhaps even greater importance is the manner in which the courses are presented. Studies indicate that even students who take appropriate college preparatory courses often are unprepared for the quality and quantity of reading and writing expected of them in college.

The well-prepared student will be able to read, write, and calculate well before entering college.

### ***Recommended Coursework for Prospective Students***

<b>ACADEMIC AREA</b>	<b>NUMBER OF UNITS</b>
English (including Speech):	4
Mathematics:	4
Natural Science:	2
Social Science:	2
Modern Language:	Encouraged
Computer Science:	Encouraged
Academic Units:	11
Total Units:	15

These recommendations are based on four years of high school.

Students who have not graduated from high school but who have satisfactorily completed a GED program with a minimum score of 50 overall and no less than 40 in each subject area may be admitted as degree-pursuing students if appropriate ACT or SAT scores are attained.

### ***Transfer Students***

*College students wishing to transfer to Fort Lewis College should:*

1. Request an application form from the Admission and Development Office.
2. Complete the application and send it to the Admission and Development Office with a \$20 non-refundable application fee.

Application deadline for the fall trimester is August 1; December 1 for the winter trimester; and April 1, May 1, and June 1 for the summer sessions. Application deadlines are subject to change.

Contact the Office of Admission and Development, 970-247-7184, for specific dates. Students applying late may be assessed a late application fee.

3. Request that an official transcript from each college or university attended be forwarded to Fort Lewis College to the attention of the Admission and Development Office. Generally, ACT/SAT test results are not required of transfer students who have earned more than 12 semester college credits.

4. If fewer than 12 semester college credits have been completed, students should also have a high school transcript and ACT or SAT results forwarded to the Admission and Development Office. Applicants with a cumulative scholastic average of C and honorable separation from other accredited colleges and universities may be admitted at the beginning of any term. College course credits that fulfill the requirements for a degree program at Fort Lewis College ordinarily will be acceptable for transfer if grades are C- or better. A student with less than 30 semester credits may be reviewed on the high school record if deemed appropriate.

### ***TRANSFER OF CREDITS***

For courses to transfer to Fort Lewis College from another collegiate institution, the transfer institution must be accredited by a regional accrediting association for colleges and universities such as the North Central Association of Colleges and Schools.

Regular academic courses completed with grades of "C-" or better are generally accepted in transfer to Fort Lewis College. Courses with grades of "D+" or lower will not transfer. Courses accepted in transfer become part of the credit hours completed but are not used in grade point average (GPA) calculations.

The Fort Lewis College GPA is based on work completed at Fort Lewis College only. Credit will be allowed in transfer for academic pass/fail courses in which a passing grade has been received. However, these "pass" courses may not be used to meet major, general education, or auxiliary requirements for graduation.

Fort Lewis does not accept vocational, remedial, developmental, or English as a Second Language courses. Transfer credits greater than 10 years old will not be automatically accepted.

Prior approval will be required to obtain credits in the following areas: · Major, minor, or auxiliary requirements · Writing Requirement (Comp 150) · Research Requirement (Lib 150) · Quantitative Requirement Lower-division credits are freshman- and sophomore-level credits (courses numbered 100 and 200, respectively, at Fort Lewis College). Upper-division credits are junior- and senior-level credits (courses numbered 300 or 400, respectively, at Fort Lewis College).

Lower- and upper-division designation is based on the transfer institution's lower- and upper-division designation. Course equivalency may be granted for a lower-division course from another college for an upper-division course at Fort Lewis College, but the course will not be given upper-division credit at Fort Lewis. Credits earned at a two-year college cannot be used to meet Fort Lewis College's credit requirement in upper-division courses.

The maximum number of credits that may transfer to Fort Lewis College is 90. Within that 90 credits, the maximum number of credits that may transfer from an accredited community/junior college is 64. The catalog in effect for

graduation requirements for a transfer student is the catalog in effect when the student transfers to Fort Lewis College. The student then follows any subsequent policies governing graduation requirements and effective catalog.

### ***ARTICULATION AGREEMENT WITH THE COLORADO COMMUNITY COLLEGE AND OCCUPATIONAL EDUCATION SYSTEM***

Fort Lewis College has an articulation agreement with the Colorado Community College and Occupational Education System, which includes Aims Community College, Arapahoe Community College, Colorado Mountain College, Colorado Northwestern Community College, Community College of Aurora, Community College of Denver, Front Range Community College, Lamar Community College, Morgan Community College, Northeastern Junior College, Otero Junior College, Pikes Peak Community College, Pueblo Community College, Red Rocks Community College, and Trinidad State Junior College.

The transfer of credit from these two-year colleges is the same as listed above under "Transfer of Credit" with the following three exceptions:

**(1)** Fort Lewis accepts the Colorado Community/Junior College General Education Common Core Curriculum for the general education requirements at Fort Lewis College if the student is a core completer from one of the Colorado two-year colleges under this articulation agreement. Specific transfer guides are in place with these colleges. Copies of these guides are available in the Reference Section of the Fort Lewis College library and at the various two-year colleges in Colorado under this articulation agreement. This does not exempt the student from fulfilling the Exercise Science requirements at Fort Lewis College.

**(2)** When a student has not completed the 33 or 34 credit hours in the Colorado Community/Junior College General Education Common Core Curriculum prior to transfer, Fort Lewis College will review and accept common core courses on a course-by-course basis after evaluation of those courses in relation to college requirements. The College will be guided by the following principles:

**(a)** Fort Lewis College will count community/junior college courses in the same way that it counts equivalent courses offered on its own campus in the degree programs of native students, and

**(b)** Fort Lewis College will count community/junior college courses as indicated in transfer guides and articulation agreements between community colleges and Fort Lewis College.

**(3)** The community/junior college transfer student under this agreement can graduate under the requirements of the Fort Lewis College catalog of the year the student entered the Colorado community/junior college provided that attendance is continuous at the Colorado community/junior college. If the student is absent from the Colorado community/junior college for two consecutive terms the student is not considered a continuous student. That student must use the current Fort Lewis College catalog in effect when the student matriculated at Fort Lewis College.

### ***TRANSFER AGREEMENTS WITH COLORADO STATE-SUPPORTED FOUR-YEAR COLLEGES OR UNIVERSITIES***

Fort Lewis College has transfer agreements with the state-supported four-year colleges or universities, which include Adams State College, Colorado School of Mines, Colorado State University, Mesa State College, Metropolitan State College of Denver, University of Colorado at Boulder, University of Colorado at Colorado Springs, University of Colorado at Denver, University of Northern Colorado, University of Southern Colorado, and Western State College. Copies of these agreements are available in the Reference Section of the Fort Lewis library and at the various four-year colleges in Colorado. The transfer of credit from these four-year colleges is the same as listed above under

"Transfer of Credit" with the following three exceptions:

**(1)** Fort Lewis College accepts the completion of the total general education core if the student completed all the lower education requirements at another Colorado public higher education institution under this transfer agreement. However, Fort Lewis College does not accept individual courses with grades of "C-" or less even if those courses are part of the general education core. The completion of the total general education core will be honored, but total credits will be evaluated separately. It is the student's responsibility to request documentation from the state-supported four-year college that the student completed the general education core at that state-supported four-year college under this transfer agreement.

**(2)** Fort Lewis College accepts any lower-division course (with a grade of "C-" or better) designated in a state-supported four-year college's catalog as a general education course within a specific content area (e.g., arts and letters, social science, natural science, etc.) to fulfill the credit hour and general education requirements at Fort Lewis College with the General Education Requirements listed in the Fort Lewis College catalog. If the state-supported four-year college's catalog does not designate which courses meet general education, it is the student's responsibility to request documentation from the four-year state-supported college that the courses(s) meet general education at the Colorado state-supported four-year college under this transfer agreement.

**(3)** The transfer student from a Colorado state-supported four-year college under this agreement can graduate under the requirements of the Fort Lewis College catalog of the year the student entered the Colorado state-supported four-year college provided the student's attendance is continuous at the Colorado state-supported four-year college. If the student is absent from the Colorado state-supported four-year college for two consecutive terms, the student is not considered a continuous student. That student must use the current Fort Lewis College catalog in effect when the student matriculated at Fort Lewis College. The published transfer guides and agreements state Fort Lewis College's transfer policies in detail.

***TRANSFER AGREEMENTS AND GUIDES WITH NON-COLORADO COLLEGES*** Fort Lewis College also has articulation agreements and transfer guides with San Juan College, New Mexico, and Diné Community College in Arizona. These guides are on file in the Reference Section of the Fort Lewis College library and at both two-year colleges. Those published agreements and transfer guides govern transfer policies for those two-year colleges.

### ***TRANSFERRING FROM FORT LEWIS COLLEGE TO OTHER INSTITUTIONS***

In cooperation with Colorado State University, Fort Lewis College offers programs in agriculture, forestry, and engineering. In forestry and engineering, a student may take two years of work at Fort Lewis College. If the student follows the prescribed program and maintains a 2.5 GPA, the work will be transferred as a block to Colorado State University at the beginning of the junior year. A GPA of 2.0 is required for students planning to transfer to CSU under the Guaranteed Transfer Program in agriculture. For more information about the above programs see the "Majors, Options, and Minors" section beginning on Page 74 of this catalog.

#### ***Forestry***

Transfer agreements in Forestry between Fort Lewis College and Northern Arizona University as well as Colorado State University are also in effect.

#### ***Engineering***

Engineering agreements have also been established in cooperation with the Colorado School of Mines, the University of New Mexico, the University of Southern Colorado, New Mexico State University, and the University of Colorado at

Boulder. By taking a prescribed block of courses at Fort Lewis College in the first two years, a student can transfer to any of these institutions with junior standing if all requirements are met. These programs are, of course, transferable to other schools as well, on the basis of a course-by-course evaluation.

In engineering, Fort Lewis College also offers a 3-2 cooperative program in which the student spends three years at Fort Lewis College followed by two years at Colorado State University. At the conclusion of the program, the student receives a Fort Lewis College degree in mathematics and a degree from Colorado State University in engineering.

### ***TRANSFER APPEALS PROCESS***

Appeal levels 1, 2, and 3 apply to transfer appeals from Colorado public colleges with which Fort Lewis College has transfer agreements. Appeal levels 1 and 2 apply to transfer appeals from all other accredited colleges. The student may appeal a decision regarding the transferability of a specific course(s). The student may appeal a decision regarding the placement of a specific course(s). The student may file an appeal regarding Fort Lewis College's failure to provide a transcript evaluation within the designated thirty (30) calendar-day period. This thirty (30) calendar-day period begins after the date of admission or after all the official transcripts are received, whichever is later.

#### **1. The Departmental Appeal**

The student must file an appeal within 15 days of receiving the transcript evaluation by writing to:

Records Office  
Fort Lewis College  
1000 Rim Drive  
Durango, CO  
81301-3999

In writing the appeal the student must identify the name of the college, the course and department number, and the course title. The student must be specific as to the appeal. The student must state what the reasons are for the appeal. Instead of a letter, the student may use the "Transfer Evaluation Appeal Form." The "Transfer Evaluation Appeal Form" is available through the Records Office, 160 Miller Student Center, Fort Lewis College.

The decisions made in the transcript evaluation will be binding if the student fails to file an appeal within this time frame. The student is responsible for supplying course descriptions, general education requirements, major requirements, and any other supporting documentation from the student's transferring college with the appeal.

The Registrar's Office will first review any appeals. Appeals that cannot be resolved by the Registrar will be referred in writing to Academic Depart Chairs, Assistant or Associate Academic Deans, or Academic Deans. Fort Lewis College has thirty (30) calendar days to review the student's appeal and inform the student in writing of the decision on the appeal including the rationale for that decision. This thirty (30) calendar-day period begins after the written appeal and all supporting documentation has been submitted to the Registrar. In addition, the student shall be informed in writing about the process for appealing the appeal decision should the student feel that reasonable doubt exists.

If the College fails to inform the student of the available appeal options, the first appeal decision shall be null and void. The student's request prevails and cannot be overturned by any institutional administrator or committee.

## 2. The Institutional Appeal

The student may appeal the first appeal decision by writing to:  
Vice President for Academic Affairs  
Fort Lewis College  
1000 Rim Drive  
Durango, CO  
81301-3999

The appeal must be filed within fifteen (15) calendar days of the postmark date of the letter notifying the student of the departmental decision. If the student fails to file an appeal within this time period, the original decision shall be binding. Fort Lewis College must hear and reach a decision on the appeal within fifteen (15) calendar days after the appeal is filed. The student will be notified in writing by Fort Lewis College of its decision regarding the transfer appeal and the rationale for the decision. In addition, Fort Lewis College shall inform the student that the student may appeal the decision by writing the governing board.

## 3. The Governing Board Appeal

The student may appeal the institutional decision by writing the  
Vice Chancellor for Academic Affairs of the State Board of Agriculture  
Colorado State University System  
110 16th Street  
Room 640  
Denver, CO  
80202

The appeal must be filed within five (5) calendar days of the postmark date of the letter notifying the student of the institutional decision. If the student fails to file an appeal within this time period, the institutional decision shall be binding.

The State Board of Agriculture Staff shall review and reach a decision on the appeal within five (5) calendar days after the appeal is filed. The student will be notified in writing by the State Board of Agriculture of its decision regarding the transfer appeal and the rationale for the decision. In addition, the institution shall inform the student that the student may appeal the decision by writing the Colorado Commission on Higher Education.

The appeal must be filed within five (5) calendar days of the postmark date of the letter notifying the student of the State Board of Agriculture's decision.

### ***Former Students***

A former student is one who registered for classes at Fort Lewis College at any time in the past but has withdrawn and/or has not been registered during the last two consecutive trimesters.

Students in this category must petition to resume studies. Students who have been under academic suspension must also petition to resume studies. If the student has attended other collegiate institutions in the interim, complete and official transcripts of all work taken must be submitted from each institution attended. Petitions to resume should be submitted to the Office of Admission and Development, according to the deadline. Students who apply late may be

assessed a late application fee.

### **CREDIT BY EXAMINATION**

Credit for some courses may be earned through special examination. This procedure is limited to regular catalog courses and may not apply to such courses as Special Topics or Independent Study.

Forms are available at the Records Office. The student should apply to the appropriate department chair, who may assign a faculty member to administer the exam. The chair will assure that the reasons for the course challenge are legitimate, and, if the course is an advanced one, that the student has the necessary prerequisites. A student may not take a special exam for a course that he or she has already taken in the regular fashion, regardless of the grade earned previously. The fee for credit by examination is listed in the current year Tuition and Fee Schedule, and must be paid before the exam is given. College credit also is awarded for exceptional performance on tests administered by the following external testing agencies. To qualify for college credit based on test performance, the test must be completed prior to taking any collegiate coursework in the same area.

1. Fort Lewis College participates in the Advanced Placement Program of the College Entrance Examination Board. Under this program, outstanding secondary school students may take certain college-level courses in their own high schools. Satisfactory scores on an examination administered and graded by the College Board are forwarded to Fort Lewis College and may serve as a basis for credit and/or advanced placement. Scores of 3 or higher are considered for college credit.

For additional information, students should consult their high school counselor or write to:  
College Entrance Examination Board  
Box 592  
Princeton, NJ  
08550

The following table gives the Fort Lewis College equivalencies for AP test scores of 3 or higher.

Advanced Placement Test:	Fort Lewis College Equivalency: Course Title:	Credits:
Art	Art 190, Art	6
Art-Drawing	Art 190, Art - Drawing	6
Art-History	Art 262, Art History to the Renaissance	4
	Art 263, Art History from the Renaissance	4
Biology	Bio 113, Intro Biology 2	4
	Bio 190, Biology	2
Chemistry	Chem 191, Chemistry	4
	Chem 190, Chemistry	2

Computer Science	CSIS 106, Intro Prog in Visual Basic	4
	CSIS 110, Intro Prog in C++	4
	CSIS 190, Computer Science	2
Economics (Microeconomics)	Econ 262, Microeconomics	2
	Econ 190, Economics	4
Economics (Macroeconomics)	Econ 272, Macroeconomics	2
	Econ 190, Economics	4
English (score = 4+) (Lang and Comp)	Comp 150, Reading & Writing in College	4
	Engl 190, Literature & Composition	2
English (score = 3) (Literature/Comp)	Engl 190, Literature & Composition	3
	Engl 191, Literature & Composition	3
English (score = 4+) (Literature/Comp)	Comp 150, Reading & Writing in College	4
	Engl 190, Literature and Composition	2
Environmental Science	Bio 120, Environmental Conservation	3
	Bio 190, Environmental Science	3
French	ML 147, Elementary French 1	4
	ML 148, Elementary French 2	4
German	ML 123 Elementary German 1	4
	ML 124, Elementary German 2	4
Government and Politics (United States)	PS 110, US National Government	4
	PS 190, Government and Politics	4
History (United States)	Hist 280, Survey US Hist 1600-1877	3
	Hist 281, Survey US Hist 1877-Present	3
History (European)	Hist 160, Survey Western Civ 1	3
	Hist 261, Western Civ 2	3
Latin	ML 109, Intro Latin 1	4
	ML 110, Intro Latin 2	4
Mathematics	Math 121, Pre-Calculus	4
	Math 190, Business Calculus	2
	Math 221, Calculus	4
Music Theory	MU 128, Theory & Musicianship 1	5
	MU 190, Music Theory	1
Physics	PhSc 105, The Physical Sciences	3
	Phys 190, Physics	3
	Phys 201, College Physics	5
Psychology	Psy 157, Intro to Psychology	3
	Psy 190, Intro to Psychology	3
Spanish	ML 115, Elementary Spanish 1	4
	ML 116, Elementary Spanish 2	4
Statistics	Math 201, Elementary Statistics	4
	Math 190, Business Statistics	2

2. Superior scores on the ACT Assessment Battery also serve as a basis for credit and/or advanced placement. The decision of the College is final in awarding credit by examination. For further information, contact the Admission and Development Office at 970-247-7184

Students who have ACT scores in Math, English or Science of 29 or higher, and have grades no lower than B during their junior and senior years in the same subject area may receive credit for:

ACT Test	Fort Lewis College Equivalency Course Title	Credits
Math	Math 110, College Algebra	4
English	English 190, Special Topics	3
Science	PhySc 105, The Physical Sciences	3

3. Fort Lewis College has adopted a policy whereby up to a maximum of 24 credits may be granted on the basis of appropriate scores on the General Examinations of the College Level Examination Program. Students who obtain at least a standard score of 50 or the 50th percentile in natural sciences, humanities, social sciences, history, and mathematics will receive 6 semester credits for each examination provided the following stipulations are met:

The examinations must be taken prior to the end of the student's first year of college.

No credit will be granted if college coursework has been taken that covers much of the area covered by the examinations.

Fort Lewis College also grants additional credits on the basis of appropriate results of the Subject Matter Examinations of the College Level Examination Program. Further information may be obtained from the Learning Assistance Center or from C.L.E.P., Box 1821, Princeton, NJ 08540.

4. Fort Lewis College accepts credits completed through the International Baccalaureate Program. The International Baccalaureate is a comprehensive course of study for academically talented high school students in select high schools throughout the world. For each examination on which a score of four or higher is earned, the College will award credit and appropriate course equivalency. The credit may be used toward the 120-credit minimum for graduation.

#### ***EXEMPTIONS FOR COMP 150***

Students who demonstrate outstanding writing ability may be exempted from Comp 150, "Reading and Writing in College." Exemptions from Comp 150 may be awarded to students who meet one of the following requirements:

1. A score of 4 or 5 on the Advanced Placement Test for English Composition/Literature.

OR

2. A score of 650 or above on the SAT II Writing Test.

OR

3. A score of 4 or higher on the English Exam of the International Baccalaureate Program.

Students who are exempted from Comp 150 by the Advanced Placement Test will receive six credits; students exempted from Comp 150 by the International Baccalaureate will receive four credits in addition to the exemption because that test is accompanied by a year-long writing course.

Students who are exempted from Comp 150 by the SAT II Writing Test will not receive course credit. Students who are in the block transfer programs are advised not to accept the Comp 150 exemption because other colleges or universities may not accept the exemption, thus invalidating the transfer.

All students who plan to transfer at any time should be especially careful to check with their advisors before accepting any course exemption.

### **NATIVE AMERICAN STUDENTS**

As a matter of policy and in compliance with state law, Fort Lewis College offers Native American students, as defined below, full-tuition waivers to attend the institution. Room and board and other College fees remain applicable.

Fort Lewis College adheres to the following definition: "The term Native American shall include all persons of Native American descent who are members of any recognized Native American tribe now under federal jurisdiction, and all persons who are descendants of such members who were, on June 1, 1934, residing within the present boundaries of any Native American reservation, and shall further include all persons of one-half or more Native American blood. Eskimos and other aboriginal people of Alaska shall be considered Native Americans." (United States Code, 1964 Edition, Vol. 6, Title 25, Chapter 14, Section 479, Page 4, 897.)

To be considered for the Native American Tuition Waiver at Fort Lewis College, you must provide a Certificate of Indian Blood or a copy of your Tribal Membership Card. To qualify for the Native American Tuition Waiver you must be at least 50% Native American or an enrolled member of a Federally Recognized Tribe.

Note: Shareholders or descendants of members do not qualify if they are unable to prove they themselves:

1. have their own enrollment or census number, or
2. are 1/2 Native American, or
3. are direct descendants to a tribal member who lived on a reservation prior to June 1, 1934.

The College will review all applications from Native American students to determine if they qualify for the full-tuition waiver. If a Native American qualifies according to an appropriate tribal certification and admission standards, such student will be offered the full-tuition waiver. This waiver does not include fees, room, board and books.

## **INTERNATIONAL STUDENTS**

Fort Lewis College is authorized under federal law to enroll non-immigrant international students. In general, the same qualifications for admission are required for international students as for American applicants. A brief statement concerning the admission policies for foreign applicants may be obtained from the Admission and Development Office.

**UNCLASSIFIED STUDENTS** Under special circumstances students are permitted to register without having been admitted formally to the College. Usually these are adults whose objectives may be realized by taking a few courses rather than by pursuing a degree. The privilege of continuing may be withdrawn at any time when the accomplishments of a student are not deemed satisfactory.

Satisfactory performance as an unclassified student may qualify such a student to apply for regular admission. Unclassified students seeking regular admission must contact the Admission and Development Office according to the application deadlines listed on Page 13 as to the procedure for establishing regular status. Unclassified students may need to seek permission from professors to enroll in classes.

**VETERAN STUDENTS** Fort Lewis College is authorized by the state approving agency according to federal law to educate students receiving benefits through the Veterans Administration. The Veteran's certifying official is located in the Records Office, 970-247-7350.

**CREDIT FOR MILITARY SERVICE** Veterans often are allowed credit for previous education. Credit for military experience also may be allowed according to the American Council on Education recommendations. The D. D. 214 form and other relevant information should be submitted to the Records Office at the College. The student must make a written request for an evaluation of credits for military service.

**CONCURRENT STUDENTS** Superior high school juniors and seniors who attend a high school within commuting distance of the campus may be admitted as part-time freshmen to take one or two courses. Concurrent students who wish to be considered for regular admission to the College must meet the same criteria and submit the same application as first-time freshmen students. Students wishing to participate in this program should obtain further information from the Admission and Development Office or from their high school counselor.

## **FRESHMAN ORIENTATION**

During the summer months, Fort Lewis College conducts several freshman orientation programs for new freshmen and their parents. The orientations provide an opportunity to make new friends, and meet faculty and staff. Information regarding these special programs is mailed to all accepted freshmen during the spring. Freshmen must be advised and registered prior to attending freshman orientation. For information about advising and registration, contact the New Student Advising and Registration Office at (970) 382-6985.

## **TRANSFER STUDENT ADVISING AND REGISTRATION PROGRAMS**

Transfer students are individually advised and registered beginning in March (for Summer and Fall) and October (for Winter). Students should contact the New Student Advising and Registration Office for an appointment at (970) 382-6985. Transfer students with fewer than 30 credit hours, especially those who are living in campus residence halls,

are strongly encouraged to attend freshman orientation.

***WITHDRAWAL PROCEDURES/NEW ADMITS***

New students who have not yet registered for classes wishing to withdraw or delay their admission need to contact the Admission and Development Office in writing. Please indicate the term that you plan to attend. Students who have already registered for classes for an upcoming term or a current term need to process a withdrawal based on the following criteria:

Prior to the start of a term, students may withdraw from all of their classes and the term via WEBOPUS, the online student services system.

Students who have reserved space in a residence hall need to contact Housing. Once a term has begun, students who wish to initiate an official withdrawal from the College may withdraw from classes via WEBOPUS.

Withdrawing past census date requires the instructor to assign a grade of "W" or "F", which will become part of the student's official transcript.



# School of Arts and Sciences

## Course Listings for Agriculture

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### **Agriculture Ag 101Tx Introductory Animal Science (3-3) 4**

Basic introduction to the aspects of animal science, concentrating on products, reproduction, genetics, anatomy, basic production in cattle, sheep, swine, and dairy. Fall term.

### **Ag 102 Principles of Crop Production (3-3) 4**

Basic principles of crop production, concentrating on growth, development, management, utilization, and cultural practices dealing mainly with the crops of Colorado. Winter term of odd numbered years.

### **Ag 150 Farm Records and Accounts (3-0) 3**

This course is designed to give proficiency in keeping farm records for income tax and management purposes. Fall term.

### **Ag 180 Sustainable Agriculture (3-0) 3**

This course will provide students with an introduction to the general topic of sustainable agriculture. The major topics of discussion will include current issues in sustainable agriculture, sustaining soil fertility, environmentally friendly pest control, and case studies in sustainable agriculture.

### **Ag 202 Integrated Pest Management/Weed Control (3-3) 4**

Principles and practices of weed control and integrated pest management. The recognition of important weed and insect pests. Fall term of even numbered years.

### **Ag 203T Introduction to Medicinal Crops (3-0) 3**

An introduction to the topic of medicinal crops. A study of selected medicinal crops with regard to their production, medical usage, and scientific basis for reported benefits. Fall term.

### **Ag 204 Forage Production and Management (3-0) 3**

Principles and practices of forage production and management in the United States. Winter term of even numbered

years.

Prerequisite: Ag 102 or consent of instructor.

### **Ag 235 Soils and Soil Fertility (3-3) 4**

A basic course dealing with soil formation, physical and chemical properties, fertility, management, and conservation. Winter term.

### **Ag 240 Principles of Animal Nutrition (3-3) 4**

Nutrient sources and requirements of livestock, including ration balancing and laboratory analysis of feedstuffs. Winter term.

Prerequisite: Ag 101Tx or consent of instructor.

### **Ag 299 Individualized Study 1-6**

Individual research is conducted under the supervision of a faculty member.

### **Ag 301 Range Management (3-3) 4**

Application of range science principles in managing rangelands. Major topics include ecology, grazing systems, range improvements and identification, physiology and utilization of important range plants. Fall term.

### **Ag 325 Beef Science (3-0) 3**

A comprehensive course in beef cattle production, including topics in breeding and selection, reproduction, nutrition, herd health and marketing. Commercial beef cattle production enterprises will be emphasized. Winter term.

Prerequisite: Ag 101Tx.

### **Ag 346 Agricultural Marketing (3-0) 3**

An introduction to agricultural grain and livestock marketing in the U.S. Basic marketing principles and practical marketing strategies will be discussed. Winter term.

Prerequisite: Recommended BA 340.

### **Ag 350 Agricultural Law (3-0) 3**

An overview of the U.S. judicial system and a study of various laws, regulations, and case decisions that directly

pertain to the agricultural production sector. Fall term.

### **Ag 370 Internship in Agriculture 3**

Directed work experience in agricultural production and agribusiness. Minimum requirements are that students maintain a detailed journal and complete at least 80 hours of directed experience.

Prerequisites: Sophomore standing and consent of supervising faculty member.

### **Ag 380W Evolution and Patterns of Biological Thought (4-0) 4**

This course will address the critical issues of writing in the biological and/or agricultural sciences using the topics of evolution and patterns of biological thought as a basis for writing, reading, and discussion. Many aspects of evolution in a variety of subdisciplines of biology and agriculture will be covered. This course is the same as Bio 380W.

Prerequisites: Comp 150, Lib 150, junior standing, Bio 206, Bio 207, Chem 150, and Chem 151Tx.

### **Ag 499 Independent Study 1-6**

Individual research is conducted under the supervision of a faculty member.



# School of Arts and Sciences

## Agriculture

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## Agriculture

### [Course Listings for Agriculture](#)

*Associate Professor Philip E. Shuler*

*Associate Professor John W. Byrd*

*Visiting Instructor Beth E. LaShell*

Several programs of study in Agriculture are available for students at Fort Lewis College.

As a cooperative effort between the Agriculture Program and the School of Business Administration, a four-year degree program is available for those students who are interested in professional careers in the agribusiness sector. See the School of Business Administration "Agricultural Business option" section of this catalog for more information.

Within Agriculture itself, four program options are available. A Guaranteed Transfer Program with Colorado State University is available for students interested in pursuing a four-year bachelor's degree. Through this program a student can complete a prescribed sequence of coursework at Fort Lewis during the freshman and sophomore years and, with a minimum grade point average, be qualified for full transfer to Colorado State with junior standing. Major areas of study offered through the transfer program include Agricultural Business, Agronomy (production management, crop science, soil science, soil resources and conservation, and international concentrations), and Animal Sciences (industry and science concentrations).

A second agricultural option is a two-year program at Fort Lewis College leading to an Associate of Arts degree in Agricultural Science. This program is designed to fill the needs of those students pursuing an agricultural career on a farm, ranch, or other agriculture-oriented business. Students may decide to concentrate in animal science,

agricultural business, or agronomy.

Students also have the option of developing a student-constructed major. This option is for students who plan to continue in a four-year program and combine agriculture with a second field of study, such as economics or chemistry, which would lead to a degree in Agricultural Economics or Agricultural Chemistry.

Minors are available in agriculture and agroecology/sustainable agriculture for students majoring in other disciplines. Requirements for these minors are listed at the end of this section.

### **REQUIREMENTS FOR AN ASSOCIATE OF ARTS DEGREE IN AGRICULTURAL SCIENCE:**

#### **General Education**

	<b>Credits:</b>
Comp 150 Reading and Writing in College	4
Library 150 Information Literacy	1
ES 100 Fitness and Wellness	1
Four courses to be selected from General Education T, N, S, R (one from each group)	12-16
Quantitative Reasoning Q	3-4
<b>Total</b>	<b>21-26</b>

*\*\* Courses marked with double asterisks may also be counted toward TS 1 requirements.*

#### **Specific Agricultural Science Requirements:**

**Ag 101Tx Introductory Animal Science	4
Ag 102 Principles of Crop Production	4
Ag 150 Farm Records and Accounts	3
Approved math course (**Math 110Q or **Math 130Q)	3-4
<b>Subtotal Specific Requirements</b>	<b>14-15</b>

**Agricultural Science Electives** (at least five courses selected from the following):

Ag 180 Sustainable Agriculture	3
Ag 202 Integrated Pest Management/Weed Control	4
**Ag 203T Introduction to Medicinal Crops	3
Ag 204 Forage Production and Management	3
Ag 235 Soils and Soil Fertility	4
Ag 240 Principles of Animal Nutrition	4
Ag 299 Individualized Study	1-6
TS2T 402 Agricultural Issues in Society	3
Ag 301 Range Management	4

Ag 325 Beef Science	3
Ag 346 Agricultural Marketing	3
Ag 370 Internship in Agriculture	3
Ag 390 Special Topics (as offered)	3-4
Ag 499 Independent Study	1-6
<b>Subtotal Ag Science Electives</b>	<b>minimum 15</b>
<b>Free Electives Subtotal</b>	<b>4-10</b>

**Suggested Electives:**

\*\*Geog 250T Cartography: The Science and Art of Mapmaking

Geog 300 Introduction to Geographic Information Systems

Engr 103 Computer Aided Drafting

Engr 205 Surveying I

Courses in Computer Science, Economics, Chemistry, Biology, Business Administration

**Agricultural Experience:**

A student is required to have a minimum of 15 weeks of work experience on a farm, ranch, or other acceptable agricultural business prior to the awarding of the Associate of Arts degree in Agricultural Science. This requirement may also be fulfilled by an acceptable Ag 370 Internship in Agriculture experience.

**TOTAL REQUIRED FOR GRADUATION** **60**

*Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.*

**PROGRAM OF STUDY FOR GUARANTEED TRANSFER PROGRAM:**

Students participating in the guaranteed transfer program will select courses in consultation with their academic advisor. The specific courses required will depend on which concentration is selected.

**REQUIREMENTS FOR A MINOR IN AGRICULTURE:****One of the following:**

\*\*Ag 101Tx Introductory Animal Science

Ag 102 Principles of Crop Production

Ag 180 Sustainable Agriculture

**Additional courses (select three to five of the following):**

Ag 150 Farm Records and Accounts

**Credits:**

4

4

3

3

Ag 202 Integrated Pest Management/Weed Control	4
**Ag 203T Introduction to Medicinal Crops	3
Ag 204 Forage Production and Management	3
Ag 235 Soils and Soil Fertility	4
Ag 240 Principles of Animal Nutrition	4
TS2T 402 Agricultural Issues in Society	3
Ag 301 Range Management	4
Ag 325 Beef Science	3
Ag 346 Agricultural Marketing	3
Ag 370 Internship in Agriculture	3
Ag 390 Special Topics	3-4
<b>Total</b>	<b>minimum 20</b>

*A minimum of 20 credits is required, six of which must be 300-level or above. Students may concentrate in such areas as General Agriculture, Animal Science, Agronomy, or Agricultural Business.*

#### REQUIREMENTS FOR A MINOR IN AGROECOLOGY/SUSTAINABLE AGRICULTURE:

<b>Specific Departmental Requirements:</b>	<b>Credits:</b>
<b>Choose one of the following:</b>	
Ag 180 Sustainable Agriculture	
**Ag 101Tx Introductory Animal Science	
Ag 102 Principles of Crop Production	3-4
<b>Choose one of the following:</b>	
**Bio 250Nx Ecology of the Southwest	
**SW 250Nx Ecology of the Southwest	
Bio 220 Fundamentals of Ecology	4
<b>Choose one of the following:</b>	
Ag 370 Internship in Agriculture	
Soc 320 Community Service	
Bio 480 Internship in Biology	
Ag/Bio 299-Ag/Bio 499 Independent Study	3
<b>Other Departmental Requirements:</b>	

**Choose three of the following:**

**Ag 101Tx Introductory Animal Science	4
Ag 102 Principles of Crop Production	4
Ag 180 Sustainable Agriculture	3
Ag 202 Weed Control/Integrated Pest Management	4
Ag 204 Forage Production	4
Ag 235 Soils and Soil Fertility	4
**Anth 243S Food: Systems of Production, Distribution & Consumption	3
Anth 406 Ethnobotany of the Southwest	4
**Bio 241N Environmental Policy Analysis	3
Bio 300 Plants and Human Affairs	4
Bio 471 Field Ecology	5
Econ 335 Environmental Economics	4
**Geog 250T Intro to Computer Mapping and Geographic Information Systems	4
**Geol 401N Natural Resources and the Environment	3
**Geol 402N Water in the West	3
Phil 252 Environmental Ethics	4
Phil 352 Ecology and Morality	4
PS 305 Environmental Politics	3
SW 330 Cowboys, Cattlemen, and Popular Culture	3
**SW 135R The Southwest I	4
SW 136 The Southwest II	4
Total	19-24



# School of Arts and Sciences

## Course Listings for Anthropology

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### **Anthropology Anth 151S Introduction to Anthropology (4-0) 4**

A comprehensive, systems-oriented study of general anthropology covering the four major subfields (archaeology, biological anthropology, linguistic anthropology, and ethnology). This course is recommended as a beginning course for students who have had no previous background in anthropology. Fall and winter terms.

### **Anth 171 World Archaeology (4-0) 4**

This course serves as an introduction to the great multiplicity of cultures of the past. In reviewing world archaeology, students are introduced not only to the great range of archaeological techniques, but also to how Western perception of other peoples' pasts have colored our interpretations. Offered on demand.

### **Anth 201T Introduction to Archaeology (4-0) 4**

This course is designed to introduce the beginning student to the basic techniques, concepts, and theories of archaeology and its relation to the wide field of anthropology. Fall and winter terms.

### **Anth 208N Traditional Ecological Knowledge and Cultural Survival (4-0) 4**

Traditional Ecological Knowledge (TEK) is an integrated body of spiritual and practical knowledge that has evolved over vast stretches of time through the successful adaptation of a culture to its local environment. In this course, students will be introduced to the ways that different cultures organize and categorize domains of TEK, including plants, animals, landscapes, and kin. The class will also address the growing question of cultural survival in relation to environmental loss, as it is increasingly apparent that cultural diversity is directly related to biological diversity. Fall term.

### **Anth 210R Introduction to Sociocultural Anthropology (4-0) 4**

Sociocultural anthropology (also known as ethnology) deals with the relationship of culture to society and the individual. This course is designed for the beginning student and introduces the basic concepts, theories, and methods of this broad field. It also looks at the application of ethnological thought in considering modern human realities and problems, and in understanding the relationship of cultural and expressive forms to identity. Fall and

winter terms.

### **Anth 213S Peasant Societies (4-0) 4**

This course provides a study of agricultural societies throughout the world and the position of these societies within more complex systems. The instructor may select a specific area for in-depth study to complement a more general, systemic perspective on world peasantries. Winter term.

### **Anth 215R Magic and Religion (3-0) 3**

This course provides an inquiry into the forms that spiritual and religious beliefs take cross-culturally and investigates the various practices and symbols through which these beliefs are expressed and enacted in public life. Summer session and on demand.

### **Anth 217R Cultural Images of Women and Men (4-0) 4**

This course examines the images of gender and sexuality that permeate our society and that contribute to the definition and delimitation of identity and autonomy. Special attention is given to examining social hierarchies that underlay and are modified by the discourse surrounding and representations of male and female behavioral expectations. Any and all cultural products will be our objects of inquiry and analysis, from film and advertising to autobiography and other self-portraits. Our goal is to arrive at a coherent understanding of the relationship of images to social power, equality, and inequality. Offered on demand.

### **Anth 220 Colorado Archaeology (3-0) 3**

This course covers the prehistoric and historic archaeology of Colorado. It examines the historical development of archaeology in the state, our current state of knowledge, and how Colorado archaeology has developed in relation to the wider goals of archaeology. Offered on demand.

### **Anth 225 N Introduction to Population Issues (1-0) 1**

Global population issues are important in a world of increasing human numbers and dwindling availability of resources. Course topics include demographic terminology, growth dynamics and reasons for change, family planning policies and technology, the environmental impact of people and their consumption practices, perspectives on food supply, and "sustainability" for understanding population issues.

Anthropology 225 offers students a one-hour internet-based course meeting three times in the fall semester and a commitment to three Population Awareness Week programs (evenings) for writing a paper. Students progress at their own pace through the readings (Internet and texts) in preparation for the final exam. Contact Professor Gordon at [gordon\\_d@fortlewis.edu](mailto:gordon_d@fortlewis.edu) to obtain course web address.

### **Anth 236Tx Introduction to Physical and Biological Anthropology (3-3) 4**

This course provides a study of the biological development of humankind and the modern understanding of human variation from a technological, critical, ethical, and evolutionary perspective. Topics to be explored in the classroom and laboratory contexts include the biological basis of the race concept, the workings of Mendelian genetics, forensic anthropology, and the basics of primate evolution. Offered fall and winter terms.

### **Anth 243S Food: Systems of Production, Distribution, and Consumption (4-0) 4**

This course explores the centrality of food systems in local and global contexts. It examines the interrelated historic, economic, political and gendered features of food production, distribution, and consumption via cross-cultural comparison. Special attention is paid to the dialectic of material and symbolic elements where our goal is to understand the place of food in systems of power that include familial, cultural, industrial, and institutional forms. Offered on demand.

### **Anth 259 Field Training in Archaeology 4-8**

Actual on-site training in the techniques of archaeological survey and excavation. Students spend full days, five days a week, in the field for seven weeks. They receive intensive instruction in field survey, remote sensing, and all aspects of excavation, recording, mapping, photography, artifact classification, field laboratory techniques, and site interpretation. A written description of the field school for each year will be furnished to prospective students. Summer term.

Prerequisite: Consent of the instructor.

### **Anth 299 Individualized Study 1-6**

This course is to be used in a limited manner to provide learning experiences in lower-division anthropological inquiry not provided by the major departmental offerings. A learning contract will be established for the student, with expectations stated explicitly. This course may not be used to fulfill major requirements or to replace a major departmental offering. Fall, winter, and summer terms.

Prerequisite: Comp 150 and consent of instructor.

### **Anth 300 Proseminar in Anthropology (2-0) 2**

This course provides the opportunity for majors, minors, and prospective majors to engage in a critical examination of the subfields of anthropology and the possible directions they might take in pursuing one or more of these

subfields both during and subsequent to their undergraduate career. The course will prepare students to think seriously about anthropology as part of a liberal arts education, as a vocation, and as a rich context for the pursuit of research questions about the human condition. Fall and winter terms.

### **Anth 302 Research Issues in Evolutionary Anthropology (2-0) 2**

An exploration of the changing knowledge base of hominid and primate evolution. Alternate years. Note: This course counts toward the research requirement in the major.

Prerequisites: Anth 236Tx or permission of instructor.

### **Anth 303W Anthropological Debates (4-0) 4**

This course fulfills the anthropology major's Group W composition requirement. It is organized around a controversial theme and debate within the discipline. The student will enter into this debate by reading, writing, and speaking. Course debate themes will alternate from semester to semester. Examples of course themes include the "race" concept, indigenous rights, ethics, repatriation, archaeological theory, food and nutrition, among others. Fall and winter terms.

Prerequisites: Comp 150, and either Anth 210 or Anth 201.

### **Anth 306 Plains Archaeology (4-0) 4**

This course examines the prehistoric and historic cultures of the Plains of North America. Particular emphasis is placed on how recent archaeological theory can contribute to a deeper understanding of past cultural dynamics. Offered on demand.

Note: This course counts toward the research requirement in the major.

Prerequisite: Comp 150.

### **Anth 309 Archaeology of Britain (4-0) 4**

This course provides a survey of the cultural history of the British Isles from the Paleolithic to the Medieval period as seen from the archaeological record. Alternate years.

Note: This course counts as the non-New World archaeology requirement in the major.

### **Anth 310 Geoarchaeology (4-0) 4**

This course offers an interdisciplinary approach to the study of archaeology. The conceptual foundations and historical relationships between archaeology and the geosciences are explored. The major focus of this course is on the methods and techniques borrowed from the geosciences (geology, geography, geomorphology) that relate to the reconstruction of the archaeological landscape. Offered on demand.

Note: This course counts toward the research requirement in the major.

Prerequisites: Anth 201 or consent of the instructor.

### **Anth 313 The Archaeology of Greece and Rome (4-0) 4**

This course examines the past of Greece and Rome, from the Bronze Age to the end of the Classical and Imperial periods, drawing on both archaeology and other relevant disciplines. The course situates the development of classical archaeology in its historical and socio-political context and addresses some current issues of relevance to both classical archaeology and archaeology in general. Offered on demand.

Note: This course counts toward the research requirement in the major.

### **Anth 316 Internship in Anthropology 1-6**

This course offers a guided framework for practical experience for work carried out by students in discipline-related governmental and non-governmental agency projects. Interns will be involved in effective public service in order to promote student understanding of complex social, political, economic, scientific, and philosophical issues. Internship examples include, but are not limited to, work in archaeological, museum, and public health contexts.

Course credit is based on

- 1) satisfactory performance of 30 hours of work for each credit earned;
- 2) fulfillment of a learning contract with a faculty sponsor; and
- 3) the satisfactory completion of a final project, usually a paper. Offered fall, winter, and summer terms.

Prerequisite: Consent of instructor.

### **Anth 330 Archaeology of the Southwest (4-0) 4**

This course provides a comprehensive survey of the major archaeological traditions of the prehistoric Southwestern United States, and the environmental and cultural influences that made them distinct. Fall term.

Prerequisites: Anth 201 or consent of instructor.

### **Anth 340 Ancient Egypt (4-0) 4**

Using archaeological data, this course examines the development of a major civilization and its relationship to both the earlier civilizations of Mesopotamia and the later developing civilizations of the Mediterranean. Offered summer term and on demand.

Note: This course counts toward the non-New World archaeology requirement in the major.

### **Anth 341 Prehistory of Europe (4-0) 4**

This course provides a survey of early cultures of Europe from the earliest evidence of humans until the development of civilizations. Alternate years.

Note: This course counts toward the non-New World archaeology requirement in the major.

### **Anth 348 North American Archaeology (4-0) 4**

This course traces the development of the aboriginal cultures of North America. Emphasis is placed on evaluating the degree to which our understanding of the past is influenced by both the discipline of anthropology and by contemporary Western values. Fall term.

Prerequisites: Anth 201 or consent of instructor.

### **Anth 350 Ethnology of Mesoamerica (4-0) 4**

This course provides a comparative study of major cultural topics concerning contemporary ethnic groups of central Mexico and northern Central America. Geography, demography, ecology, and prehistory will be touched upon, while social, economic, and political systems will be studied in more depth. Alternate winter terms.

### **Anth 351 Ethnology of Andean South America (4-0) 4**

Indigenous peoples and peoples of mixed descent are studied in terms of their past and present cultural and political-economic experiences. Particular emphasis is given to understanding the ways the North American and Andean worlds intersect, as well as to the ways that Andean studies reflect and influence trends in anthropological thought. Winter term.

### **Anth 353 Ethnology of India (4-0) 4**

While we are overwhelmed by the cultural diversity of the Indian subcontinent, this course focuses on the unity of cultures in the area. Topics include the caste system, contemporary economic and political systems, and a brief look at geography, demography, ecology, and prehistory. Tribal peoples will be studied in addition to peasantries. Alternate fall terms.

### **Anth 355 Anthropology of Gender (4-0) 4**

This course offers an in-depth, interdisciplinary analysis of the nature and origin of gender concepts cross-culturally, particularly as they relate to explaining gender hierarchy. Topics to be covered include the contributions of feminist thought to social scientific theories, the cultural construction of gender categories, and the relationship of gender to power. Alternate winter terms.

Note: This course is the same as WS 355.

***Credit will be given for only one of these courses.***

### **Anth 356 Ecological Anthropology (4-0) 4**

This course provides a comparative study of human populations in ecosystems, stressing the relationship between culture and the biophysical environment with the focus on cultural adaptations. Implications for anthropological theory, sociocultural evolution, and contemporary problems will be investigated. Alternate winter terms.

Note: This course counts toward the research requirement in the major.

Prerequisite: Comp 150.

### **Anth 357 Medical Anthropology (4-0) 4**

The medical systems of indigenous peoples are analyzed cross-culturally from the perspectives of epidemiology, symbolism, history, and a political economy. Topics will include the development of medical anthropology, the medical traditions of Ayurvedic, humoral, shamanic, and biomedical practitioners, theories of cause and cure, and applied practice. This course is recommended for pre-health and social science majors. Fall term.

Note: This course counts toward the research requirement in the major.

Prerequisite: Comp 150.

### **Anth 360 Legal and Ethical Issues in Archaeology (4-0) 4**

This course examines in depth the current ethical issues confronting archaeologists and those whose pasts they

interpret. The legal foundations of those issues are studied in detail to prepare students for an understanding of the tenets of cultural resource management and conservation archaeology, and the manner in which these fields relate to interpreting the pasts of Native Peoples. Alternate years.

Prerequisite: Anth 201, or consent of instructor.

### **Anth 361 North American Indians (3-0) 3**

This course examines the prehistoric, historic, ethnological, linguistic, and political-economic relationships of the aboriginal peoples of North America from the perspectives both of non-Native and Native American intellectuals. Offered on demand.

### **Anth 371 Ethnology of Amazonian South America (3-0) 3**

Selected societies of the Amazon region are studied in this comparative survey, which opens with consideration of the ways that the region and its peoples have played a large role in European fantasies of Utopia and acts of global economic and political expansion. The major focus of the course is on the relationship of Amazonian peoples to their ecosystem and the ways they continue to struggle to achieve autonomy over their threatened territories and ways of life. Summer term and on demand.

### **Anth 388 Ethnology of the Southwest (4-0) 4**

This course provides a comparative overview of selected American Indian cultures of the American Southwest in terms of their history, social organization, belief systems, oral traditions, political economy, and responses to change as they intersect with non-Indian peoples. Alternate years.

### **Anth 395 History of Anthropological Thought (4-0) 4**

This course provides a genealogical and critical look at the major philosophical, historical, and scientific elements that have contributed to anthropological thought and practice—both archaeological and ethnological—since the early 19th century. Although this course is specifically required for the anthropology major, it is recommended for any student interested in the development of social scientific thought and the ways it plays out in students' own intellectual autobiographies. Fall and winter terms.

Prerequisite: Comp 150.

### **Anth 402 Advanced Archaeological Laboratory Techniques (4-0) 4**

This course covers laboratory techniques and analysis of prehistoric artifacts, with special emphasis on lithic, ceramic, and bone technologies, and on the preparation of technical reports. Fall term.

Note: This course counts toward the research requirement in the major.

Prerequisite: Anth 259, Anth 403, or consent of instructor.

### **Anth 403 Advanced Archaeological Field Techniques 4-8**

This course provides advanced training in the techniques of archaeological survey and excavation. Students spend full days, five days a week, in the field for a total of seven weeks. In addition to intensive instruction in all aspects of field survey and excavation, training includes research design preparation, hypothesis generation, field test propositions, and excavation sampling design. Students may serve as crew chiefs and direct field laboratory sessions. A written description of the field school for each year will be furnished to prospective students. Summer term.

Prerequisite: Anth 259 or equivalent and consent of the instructor.

### **Anth 406 Ethnobotany of the Southwest (4-0) 4**

This class offers students the opportunity to conduct in-depth research regarding traditional plant knowledge unique to the various cultures of the Greater Southwest and to become familiar with the important and useful plants of the region. Winter term. Note: This course counts toward the research requirement in the major.

Prerequisite: Comp 150.

### **Anth 430 Advanced Studies in Southwestern Archaeology (4-0) 4**

This course provides detailed study and research on current topics in the archaeology of the Southwestern United States, with special emphasis on the theoretical and empirical contributions of major archaeologists and archaeological projects. Individual projects will focus on current topics in archaeology. Winter term.

Note: This course counts toward the research requirement in the major.

Prerequisite: Anth 330 or consent of instructor.

### **Anth 450 Advanced Research in Latin American Anthropology (2-0) 2**

Students will work all term on a focused research project that requires previous knowledge and expertise in Latin American sociocultural systems. Common course readings and class discussions will center around research methods appropriate to work in the broad region of Latin America, to ethical implications for such research, and to possible applications of research. Guidance will be provided to those students who wish to formulate their research

into a post-baccalaureate Fulbright grant proposal. Fall term and on demand.

Note: This course counts toward the research requirement in the major.

Prerequisite: Anth 350, Anth 351, Anth 371, or consent of instructor.

### **Anth 455 Advanced Research in the Anthropology of Gender (2-0) 2**

Students will work all term on a focused research project that requires familiarity with gender theory and discourse in the social sciences, history, literature, or philosophy. Common course readings and discussions will center around feminist research methods, and the ethical implications and applications of such research. Guidance will be provided to those students who wish to formulate their research into a post-baccalaureate Fulbright grant proposal. Winter term and on demand.

Note: This course counts toward the research requirement in the major.

Prerequisite: Anth 217R, Anth 355, or consent of instructor.

### **Anth 496 Senior Capstone Seminar in Anthropology (2-0) 2**

This course provides a context for advanced reading, writing, and seminar discussion centered on integrating the undergraduate anthropological career and on thinking about and working toward incorporating an anthropological focus in the student's life beyond college. As a capstone course, the Senior Seminar provides a rich opportunity to reflect upon and synthesize, through various written and oral projects, the many dimensions of the anthropological intellectual experience. Fall and winter terms.

Prerequisites: Anth 303W, Anth 395, and consent of instructor.

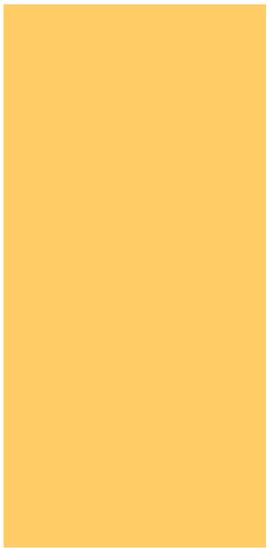
### **Anth 499 Independent Study 2-4**

This course requires original research conducted under the supervision of a faculty member with whom the student signs a contract that explicitly states the parameters and expectations to be fulfilled by the project. This course may not be used in lieu of an existing course offered by the department.

Note: This course may be used to fulfill the research requirement in the major.

Prerequisite: Anth 303W and consent of the instructor.







# School of Arts and Sciences

## Anthropology

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### Course Listings for Anthropology

#### **Professors**

Kendall A. Blanchard  
Philip G. Duke  
Kathleen S. Fine-Dare  
Donald R. Gordon  
Susan M. Riches

#### **Associate Professor**

David L. Kozak

#### **Assistant Professor**

Enrique Salmón

#### **Visiting Instructor and Field School Director**

Mona C. Charles

Fort Lewis College offers a program of courses leading to the Bachelor of Arts degree with a major in Anthropology. A variety of courses is offered to serve the interests of all students. Courses within the department are suitable as electives in the broad liberal arts tradition and also are designed to fulfill the requirements of those who wish to continue their studies in one of the subfields of the discipline.

The department offers an archaeological field school program and occasional innovative month trips, both on this continent and in Europe. Students of anthropology are encouraged to pursue study of a second language and look into internship and study abroad opportunities.

Students majoring in anthropology may be certified to teach in the broad area of social studies at the secondary level. Students should contact the Department of Teacher Education to obtain requirements for teacher certification.

The Department of Anthropology offers minors in Sociocultural Anthropology and Archaeology for students who are not anthropology majors. Requirements for these minors are listed at the end of this section.

**REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN ANTHROPOLOGY:**

<b>Course:</b>	<b>Credit:</b>
<i>General Education</i>	
<i>** Courses marked with double asterisks may also be counted toward TS 1 requirements.</i>	<b>35-46</b>
<i>Specific Departmental Requirements:</i>	
**Anth 201T Introduction to Archaeology	4
**Anth 210R Introduction to Sociocultural Anthropology	4
**Anth 236Tx Introduction to Physical and Biological Anthropology	4
Anth 300 Proseminar in Anthropology	2
Anth 303W Anthropological Debates	4
Anth 395 History of Anthropological Thought	4
Anth 496 Senior Capstone Seminar in Anthropology	2
<b>Subtotal Specific Departmental Requirements</b>	<b>24</b>
<i>Other Departmental Requirements:</i>	
Two additional courses in sociocultural anthropology, one of which must be numbered 300 or above (choose from **Anth 213S, **215R, **217R, **243S, 350, 351, 355, 356, 357, 361, 388, 406, approved 390 or 391)	6-8
One non-New World archaeology course (choose from Anth 309, 313, 340, 341, or approved 390 or 391)	3-4
One other archaeology course (choose from Anth 220, 259, 306, 309, 310, 313, 330, 340, 341, 348, 360, 402, 403, 430, or approved 390 or 391)	3-4
One research-based course in anthropology (choose from Anth 302, 306, 310, 313, 356, 357, 402, 406, 430, 450,455, or specifically indicated sections-saying, i. e."this course fulfills the research requirement"-of 390/391 or 499.)	2-4
<i>NOTE: One of these research-based courses may count for two purposes, i.e., archaeology and research or sociocultural anthropology and research.</i>	
<b>Subtotal Other Departmental Requirements</b>	<b>12-20</b>
<b>TOTAL DEPARTMENTAL REQUIREMENTS</b>	<b>36-44</b>
<i>Auxiliary Requirement from Another Department:</i>	
Choose one (but both are recommended): Statistics (Math 201Q, Psyc 241Q, BA 253Q) or Linguistics (Engl 462)	
<b>Subtotal Auxiliary Requirements</b>	<b>3-4</b>
<i>Free Electives (variable) Strongly recommended for students going to graduate school:</i>	

At least 4 semesters of a second language Computing expertise More than one research-based course

**TOTAL REQUIRED FOR GRADUATION**

**120**

*Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.*

**REQUIREMENTS FOR A MINOR IN SOCIOCULTURAL ANTHROPOLOGY OR ARCHAEOLOGY:**

**Course:**

**Credit:**

*Note: Anthropology majors may not minor in one of these anthropology-based minors. A minor is not required for graduation, but if you are an anthropology major and wish to minor in something else, it must be outside of the major. No grade of less than C- will be accepted for the minor.*

**Sociocultural Anthropology**

\*\*Anth 210R Introduction to Sociocultural Anthropology

4

\*\*Anth 201T Introduction to Archaeology

OR

4

\*\*Anth 236Tx Introduction to Physical and Biological Anthropology

Two additional courses in sociocultural anthropology, one of which must be numbered 300 or above

6-8

Additional anthropology electives

4

**Total**

**18-20**

**Archaeology**

\*\*Anth 201T Introduction to Archaeology

4

\*\*Anth 210R Introduction to Sociocultural Anthropology

OR

4

\*\*Anth 236Tx Introduction to Physical and Biological Anthropology

Two additional courses in archaeology, one of which must be numbered 300 or above

6-8

Additional anthropology electives

4-8

OR

Anth 259 or 403, archaeological field school

**Total**

**18-20**





# School of Arts and Sciences

## Art

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### Course Listings for Art

#### Professors

Mick Reber  
Laurel C. Vogl  
C. Gerald Wells

#### Associate Professor

Susan Moss

#### Assistant Professors

Michael Freeman  
Amy K. Wendland

The art program is designed to increase the student's awareness and understanding of art and its relationship to society within a broad liberal arts background. The art major prepares the student to be a practicing artist, to enter graduate school for further professional schooling, or to teach on either the elementary or secondary level. The program also seeks to provide art experiences for application to problem solving, the use of leisure time, as well as a fuller and richer visual life. Students, faculty members, and other art professionals have the opportunity to display their works in the Art Gallery in the Art Building on the Fort Lewis campus.

A minor in art is available for students majoring in other disciplines. A minor in art history is available for art majors and for students majoring in other disciplines. Requirements for these minors are listed at the end of this section.

#### REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN ART:

Course:	Credits:
<b>Art Option</b>	
<b>General Education</b>	<b>35-46</b>
<i>** Courses marked with double asterisks may also be counted toward TS 1 requirements.</i>	
<b>Specific Departmental Requirements:</b>	
Art 101 Drawing	4
Art 109 Basic Design	4
<b>**Art 262R Art History I: Ancient World to Middle Ages</b>	<b>4</b>

**Art 263R Art History II: Renaissance to Modern World	4
Art 296 Portfolio Review	1
Art 385W Contemporary Art Process, Theory, and Criticism: Reading, Writing, and Making	4
Art 496 Senior Seminar	3
15 credits from the remainder of Art offerings with the exception of Art 162 Art in the Humanities and Art 273 Art for Elementary Teachers	15
<b>Subtotal Specific Departmental Requirements</b>	<b>39</b>
<i>Free Electives</i>	<i>35-46</i>
<b>TOTAL REQUIRED FOR GRADUATION</b>	<b>120</b>
<b>Business Art Major</b>	
<b>Option Coordinator: Susan Moss, Associate Professor of Art</b>	
The Business Art option is designed to combine training in studio art and art history with business knowledge applicable to a variety of art world work contexts, such as sales galleries or non-profit arts organizations. In addition to preparation for working in these venues, the Business Art option provides an understanding of the business side of being an artist and is appropriate preparation for graduate programs in arts administration.	
<b>General Education</b>	<b>35-46</b>
<i>** Courses marked with double asterisks may also be counted toward TS 1 requirements.</i>	
<b>Specific Departmental Requirements</b>	
Art 101 Drawing	4
Art 109 Basic Design	4
Art 211 Art Institutions	4
**Art 262R Art History I: Ancient World to Middle Ages	4
**Art 263R Art History II: Renaissance to Modern World	4
Art 271 Art Institutions	4
Art 296 Portfolio Review	1
Art 385W Contemporary Art Process	4
Art 496 Senior Seminar	3
<i>An additional 11 credits from the remainder of Art offerings with the exception of Art 162R and Art 273. Art 210 is recommended.</i>	
<b>Subtotal Specific Departmental Requirements</b>	<b>43</b>
<b>Auxiliary Requirements from Other Departments:</b>	
BA 101 Business World	4
BA 240 Business Creativity and Innovation	2
BA 339 Selling	3
BA 340 Marketing	4
BA 348 Public Relations	3

**Econ 266S Principles of Economics	4
<i>One additional course selected from the following:</i>	
ACC 225 Financial Accounting	4
BA 205 Small Business Venturing	3
BA 342 Retailing	3
BA 344 Advertising	3
BA 347 Consumer Behavior	3
<b>Subtotal Auxiliary Requirements</b>	<b>23-24</b>
<i>Students may not take more than 30 credit hours in accounting, business, and economics.</i>	
<i>A minimum grade of C- must be earned in 300- and 400-level business courses to count toward graduation for the Business Art Major Option.</i>	
<i>Free Electives</i>	11-23
<b>TOTAL REQUIRED FOR GRADUATION</b>	<b>120</b>
<i>Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.</i>	
<b>ART CERTIFICATION K-12</b>	
Students seeking K-12 certification must complete, in addition to the specific requirements of the art major, the following courses:	
Art 154 Indian Arts and Crafts	3
Art 213 Basic Sculpture	3
Art 224 Basic Painting	3
Art 231 Introduction to Printmaking	3
Art 243 Basic Photography	3
Art 250 Ceramics	3
Art 273 Art for Elementary Teachers	3
<i>Additional recommended courses are Art 201 and Art 273</i>	
<b>Education Requirements:</b>	
<i>Please see K-12 Art certification description under Teacher Education</i>	
<b>REQUIREMENTS FOR A MINOR IN ART:</b>	
Students must complete 22 art credits, including Art 101, 109, and an art history course, and have the approval of the department chair.	
<b>REQUIREMENTS FOR A MINOR IN ART HISTORY:</b>	
<i>Coordinator: Michael Freeman, Assistant Professor of Art</i>	

The minor in Art History provides students in all majors the opportunity to document their studies in this unique discipline. This minor will help students to be more competitive in applying to graduate art and art history programs, and in entering professional fields related to the study of art history (for example, museum studies, gallery work, architecture, advertising, art marketing, and other art-related professions). Students who minor in Art History will be required to take a total of 20-24 credits, with 9-12 credits in upper-division courses. Three courses must be lower-division (two required, one additional) and three courses must be upper division (two to three from regular courses, with one optional from addition listings).

Art majors who wish to complete an Art History minor must use art studio courses to fulfill elective art credits required by the major, and must complete a minimum of 16 credits in art history or other designated courses beyond Art 262R and Art 263R.

Students who wish to complete a minor in Art History should consult their advisor and the Art Department coordinator.

**Lower division courses (required):**

**Art 262R Art History I Ancient World to Middle Ages	4
**Art 263R Art History II Renaissance to the Modern World	4
Choose one from the following:	
Art 265/SW 265 Art History of the Southwest	3
**Anth 201T Introduction to Archaeology	4
<b>Subtotal Lower Division</b>	<b>11-12</b>

**Upper division courses (choose 2 or 3):**

Art 363 Modern Painting and Sculpture, 1863-1945	4
Art 364 Modern Painting and Sculpture, 1945-present	4
Art 365 Mesoamerican Art History	3
Art 366 Women, Art, and Visual Culture	4
Art 367 American Art History: Colonial era to the 1930s	3

**Additional upper division (choose one):**

Anth 309 Archaeology of Britain	4
Anth 330 Archaeology of the Southwest	
Anth 340 Ancient Egyptian Archaeology	
Art 391 appropriate art history topics course	3-4
TS2R 408 Genius, Knowledge, and Representation	

Soc 345 Art and Society

Phil 361 Philosophy of Art

**Subtotal Upper Division** **9-12**

**TOTAL REQUIRED FOR ART HISTORY MINOR** **20-24**





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### **Art Art 101 Drawing (1-6) 4**

Introduces students to the fundamentals of drawing. Includes traditional representational and imaginative drawing problems, perspective, spatial illusion, and composition.

### **Art 109 Basic Design (1-6) 4**

Introduces design principles and color theory. Two and three-dimensional design problems are explored.

### **Art 154 Indian Arts and Crafts I (0-6) 3**

A course that may include basketry, pottery, weaving, dying, and other crafts media. Whenever possible, the projects are started with the raw material. Fall and winter terms. This course is the same as SW 154; credit will be given for only one of these courses.

### **Art 162R Art in the Humanities (3-0) 3**

Art in the Humanities examines art from diverse cultures and time periods, focusing on how human endeavors in the visual arts arise from and are related to broader historical and cultural contexts.

NOTE: This course does not count toward the art major.

### **Art 201 Figure Drawing (0-6) 3**

A studio experience designed to allow an in-depth study of the human figure in drawing. Live models will be used exclusively. May be repeated once for an additional 3 credits. Prerequisites: Art 101 and Art 109, or consent of the instructor.

### **Art 210 Graphic Design - Desktop (0-6) 3**

An introduction to graphic design and desktop publishing with the computer, using software such as Quark for page

layout and Adobe Photoshop and Adobe Illustrator for graphics. Emphasis will be placed on creating print-ready documents.

Prerequisite: Art 109.

### **Art 213 Basic Sculpture (0-6) 3**

A course in three-dimensional and bas-relief sculpture. Consists of modeling, carving, and shaping rigid and pliable material. Some work will use the human form.

Prerequisites: Open to non-art majors without prerequisites.

Art 101 and Art 109 are prerequisites for art majors.

### **Art 224 Basic Painting (0-6) 3**

Instruction in various painting media. Students will concentrate on compositional and color problems while working from still life, landscape, and figures. (Coursework in this area offered at beginning and advanced levels.)

Prerequisites: Art 101 and Art 109.

### **Art 226 Watercolor Painting (0-6) 3**

This course deals with traditional and contemporary watercolor techniques. Subject matter will be landscape and still life. Instruction in the various types and uses of papers, tools, techniques, brushes, and paints will be given. Winter term.

Prerequisites: Suggested Art 101 and 109.

### **Art 227 Beginning Mural Painting (0-6) 3**

Mural design and execution will be experienced on an actual location in or near Durango. The processes and problems relating to scale and enlargement will be employed. All paint, brushes, and supplies are furnished by the business or client contacted for the mural site. May be repeated once for an additional 3 credits. On demand.

Prerequisite: Art 224.

### **Art 231 Introduction to Printmaking (0-6) 3**

A studio experience exploring the materials and methods basic to making prints. Relief, etching, collographic, and silk-screen techniques will be emphasized.

Prerequisites: Art 101 and Art 109.

### **Art 243 Basic Photography (0-6) 3**

A basic studio course supplemented with lectures presenting an overview of photography. A creative approach designed to introduce students to shooting and printing techniques with silver and non-silver media.

Prerequisites: Open to non-art majors without prerequisite.

Art 101 and Art 109 are prerequisites for art majors.

### **Art 250 Ceramics (0-6) 3**

Individual projects and forming of pottery of varied styles. Emphasis will be placed on expressive forms. Practice in ceramic procedures and use of materials: throwing, slab, molding, glazing, and firing. Fall and winter terms.

Prerequisites: Open to non-art majors without prerequisite.

Art 101 and Art 109 are prerequisites for art majors.

### **Art 262R Art History I: The Ancient World to the Middle Ages (4-0) 4**

This course is a broad introduction to painting, sculpture and architecture in both the Western and Non-Western traditions from the prehistoric era up to the end of the Medieval period. As such, art works will be considered in their stylistic, cultural, and historical contexts.

### **Art 263R Art History II: The Renaissance to the Modern World (4-0) 4**

This course is a broad introduction to painting, sculpture and architecture in both the Western and non-Western traditions from the early Renaissance to the present. As such, art works will be considered in their stylistic, cultural, and historical contexts.

### **Art 265 Art History of the Southwest (3-0) 3**

A comprehensive study of the art forms developed in the Southwest, starting with Mesoamerica and ending with contemporary Southwest artists. The course emphasizes the cultural impact upon design transitions as it traces

contemporary designs to their roots. The course is the same as SW 265; credit will only be given for one of these courses.

### **Art 271 Art Institutions (4-0) 4**

This course combines lecture, discussion, student research, and writing to help students develop an understanding of the significant institutions and systems that make up the art world, such as museums, corporate collections, public and private patronage, sales galleries, auction houses, art publications, and art schools and programs.

### **Art 273 Art for Elementary Teachers (2-2) 3**

Contemporary concepts, practices, materials, and methods used in the elementary school art program.

### **Art 296 Portfolio Seminar (1-0) 1**

Portfolio Review Seminar is required for art majors after the completion of 17 art credits. The course covers preparation of the art major review portfolio and research in associated topics, including career planning and health and safety with art materials.

### **Art 299 Individualized Study 1-6**

Individual research is conducted under the supervision of a faculty member.

### **Art 301 Advanced Figure Drawing (0-6) 3**

A continuation of Art 201. May be repeated once for an additional 3 credits.

Prerequisites: 6 semester hours of Art 201 or consent of instructor.

### **Art 312 Advanced Design (0-6) 3**

Problems and theory of design topics. Prerequisites: Art 109 or consent of instructor.

### **Art 313 Advanced Sculpture (0-6) 3**

A continuation of Art 213. May be repeated once for an additional 3 credits.

Prerequisites: Art 213.

### **Art 314 Electronic Imaging for Artists and Photographers (0-6) 3**

Beginning and advanced techniques with Adobe Photoshop. Special effects projects will include photo retouching, scanning, special texturing effects, digital photo capture, and other electronic printing technologies. Course may be repeated once for an additional 3 credits.

Prerequisites: Art 101 and Art 109.

### **Art 315 Gallery Management Internship 2-4**

This course/internship is designed to introduce students who have a strong interest in and commitment to art to the fundamentals of gallery management. Students will gain an understanding of gallery management through course activities, which include assigned readings, seminars, and practical hands-on experience. Students will study how social, political, historical, and institutional dimensions shape exhibitions and reflect or challenge societal perceptions. In addition, students will learn about the complexities of directing and managing the daily operation of an ambitious exhibition schedule. Student experiences will be varied to include facets of gallery organization from public relations, publicity, to installing an exhibition with emphasis on design and installation.

Prerequisite: Consent of instructor.

### **Art 324 Advanced Painting I (0-6) 3**

Students will continue to develop their technical knowledge and skills. They will concentrate on color and compositional problems while working with their choice of subject matter. The primary teaching concern will be directed toward the discovery and selection of meaningful subject matter. May be repeated once for an additional 3 credits.

Prerequisite: Art 224.

### **Art 326 Advanced Watercolor Painting (0-6) 3**

Continuation of Art 226. Winter term. May be repeated once for an additional 3 credits.

Prerequisite: Art 226 or consent of instructor.

### **Art 327 Advanced Mural Painting (0-6) 3**

Continuation of Art 227. On demand.

Prerequisite: Art 227 or consent of instructor.

### **Art 331 Advanced Printmaking I (0-6) 3**

Advanced development of printmaking skills with opportunity to do specialized work in one or more areas. May be repeated once for an additional 3 credits.

Prerequisite: Art 231.

### **Art 343 Photographic Design (0-6) 3**

A creative approach to photography generated in basic design principles. A studio course allowing for individual specialization and refinement of basic skills. Experimentation in both black-and-white and color media will be introduced. May be repeated for an additional 3 credits.

Prerequisite: Art 243.

### **Art 350 Advanced Ceramics (0-6) 3**

A continuation of Art 250. Fall and winter terms. May be repeated once for an additional 3 credits.

Prerequisite: Art 250.

### **Art 363 Modern Painting and Sculpture, - 1863 to 1945 (4-0) 4**

This course is the first half of a two-term survey of the history of modern art, covering the major artistic movements and artists in Europe and the United States from the late 19th century, about 1863, to the Second World War, about 1945. While the emphasis will be on painting and sculpture, architecture and photography will be considered. Art 364 Modern Painting and Sculpture- 1945 to the Present (4-0) 4 This course is the second half of a two-term survey of the history of modern art, covering the major artistic movements and artists in Europe and the United States from the Second World War, about 1945, to the present. While the emphasis will be on painting and sculpture, architecture, photography, and other new media will also be considered.

### **Art 365 Mesoamerican Art History (3-0) 3**

Mesoamerican Art History is an overview of the prehistoric civilizations of Mesoamerica. It examines in detail culture, art, and architecture of the area, including Maya, Olmec, Mixtec, Zapotec, Haustec, Colima, and Aztec. Winter term. This course is the same as SW 360; credit will be given for only one of these courses.

### **Art 366 Women, Art and Visual Culture (4-0) 4**

This course provides an overview of contemporary art theory, representations of women, and the feminist critique of art. Students will read, research, and write about art and discuss the idea of "visual culture." This course is the same as WS 366; credit will be given for one of these.

### **Art 367 American Art History: The Colonial Era to the 1930s (3-0) 3**

This course surveys the major issues and developments in American painting, graphic arts, photography, and sculpture from the early colonial period to the 1930s. The aim is to provide a functional knowledge of schools, styles, and individuals within their historical and cultural contexts, as well as introduce important critical issues surrounding the subject of American art in general.

### **Art 385W Contemporary Art Process, Theory, and Criticism: Reading, Writing, and Making (4-0) 4**

This course will engage students in the contemporary dialogue about art. Reading, class discussion, and writing will focus on contemporary art process, theory, and criticism.

Prerequisites: Junior standing, Art 101 and Art 109, 2 art history courses, Comp 150, Lib 150.

### **Art 401 Interpretive Drawing (0-6) 3**

A class of interpretive drawing, using skills acquired in previous drawing classes, based on a concept approach to drawing. All media and materials used. May be repeated once for an additional 3 credits.

Prerequisites: 6 hours of Art 201.

### **Art 413 Advanced Sculpture II (0-6) 3**

A continuation of Art 313. May be repeated once for an additional 3 credits.

Prerequisite: Art 313.

### **Art 424 Advanced Painting II (0-6) 3**

A continuation of Art 324. May be repeated once for an additional 3 credits.

### **Art 425 Advanced Painting, Portrait, and Figure (0-6) 3**

Advanced studies in painting as related to the human portrait and figure. Traditional and contemporary philosophies will be explored. Models will be used. May be repeated once for an additional 3 credits.

Prerequisites: Art 224 and 201, or consent of instructor.

### **Art 431 Advanced Printmaking II (0-6) 3**

Continuation of Art 331. May be repeated once for an additional 3 credits.

Prerequisite: Art 331.

### **Art 443 Photographic Design (0-6) 3**

Continuation of Art 343. May be repeated for an additional 3 credits.

Prerequisite: Art 343.

### **Art 450 Advanced Ceramics II (0-6) 3**

Continuation of Art 350. May be repeated for an additional 3 credits.

Prerequisite: Art 350.

### **Art 473 Art Methods for Secondary Teachers (3-0) 3**

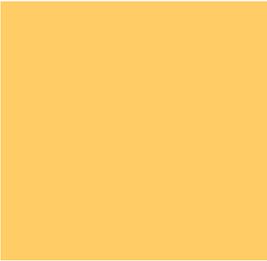
Introduces and expands on materials for teaching studio art, art history, criticism, and aesthetics in the secondary schools. Includes experiences in developing sequential semester plans in a variety of courses that integrate studio, art history, and other areas. Teaching techniques will be included. On demand.

Prerequisite: Consent of instructor or senior standing.

### **Art 496 Senior Seminar (3-0) 3**

Advanced study and research in selected topics. Completion of senior portfolio and statement.

Prerequisite: Senior standing.



### **Art 499 Independent Study 1-6**

Individual research is conducted under the supervision of a faculty member. Offered on demand.

Prerequisites: Junior or senior standing and consent of instructor.



# School of Arts and Sciences

## Asian Studies

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### Asian Studies Minor Coordinator

Sean Cridland (Philosophy)

### Professors

Donald R. Gordon (Anthropology)

### Associate Professors

Dugald L. Owen (Philosophy)

Jan Sallinger-McBride (Political Science)

### Assistant Professors

Sean E. Cridland (Philosophy)

The Asian Studies Minor takes an interdisciplinary approach to the study of Asian cultures. The minor is designed for students who wish to intensify their study of Asia—either because they intend to use their knowledge of that critical part of the world in their careers after graduation, or because they realize the importance of an understanding of Asian history, culture, or language as part of their liberal arts education. With many different courses and experiences available, students focus on both modern and traditional Asian cultures and societies, contemporary Asian politics, economic links between the United States and other Pacific Rim nations, and global environmental issues. A minor in Asian Studies will aid graduates in many diverse careers, such as international business, government service, education, and research. Students from any department or school within Fort Lewis College may earn an Asian Studies Minor. It entails a combination of courses from a broad spectrum of disciplines with the option of pursuing training in an Asian language either on campus or on a study abroad program.

Students who wish to pursue a minor in Asian Studies should consult their regular faculty advisor and a member of the Asian Studies faculty, listed above. Note: No more than one course from your major department will count toward this minor.

### REQUIREMENTS FOR THE ASIAN STUDIES MINOR:

Students must complete a minimum of 18 credits; at least 9 credits must be upper division.

#### Courses:

#### Core requirements:

#### Credits:

**One course from the following two:**

**Hist 170R Survey of East Asian Civilization I	3
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**Hist 171R Survey of East Asian Civilization II	3
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**Choose at least one language, culture, or cosmology course from the following:**

Anth 353 Ethnology of India	4
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Engl 173R 20th Century Asian and African Literature	4
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ML 135, 136, 235, 236 Japanese Language	4 -16
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Phil 244R Chinese Philosophy	3
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RS 321/Phil 321 World Religions	4
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RS 355/Hist 355 East Asian Popular Religion	4
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Soc 301 Comparative Societies (acceptable when one of the societies is Asian)	4
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Innovative Month Courses on Tibet, Nepal, or India	
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**Choose at least one business or economics course from the following:**

BA 271 Principles of International Business	2
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BA 309W International Management	3
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BA 315 International Business Law	3
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Econ 371 International Economics	4
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**Choose at least one upper-division history or political science course from the following:**

Hist 334 United States and Vietnam	4
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Hist 349 Islam in History	4
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Hist 352 Modern China	4
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Hist 354 Women, Family, and Gender in Chinese History	4
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Hist 356 History of Japan	4
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Hist 450 Advanced Studies in East Asian History	3
---	---

PS 300 Religion and Politics	4
------------------------------	---

PS 374 Pacific Rim Politics and Issues	4
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PS 380 Comparative Communist Systems	4
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PS 385 20th Century Socialisms	3
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<b>Total minimum</b>	<b>18</b>
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### **Bio 105Tx Issues in Genetic Engineering (3-3) 4**

During this course students will study what genetic engineering is, how this relatively new biotechnology works, and key examples of genetic engineering in both agriculture and medicine. The foci of this course are 1) the societal, ethical, political, and economic issues that arise due to the use of genetic engineering technology, and 2) the basic science of genes, gene expression, and recombinant DNA technology that makes genetic engineering possible. Students will analyze and discuss genetic engineering issues with an eye toward making informed personal decisions about the use of this technology. During the laboratory element of this course, students will engage in genetic analysis, genetic engineering of cells, and a self-designed project related to genetic engineering.

### **Bio110Tx Modern Biological Issues (3-3) 4**

An introductory biology course providing the non-science major with a comprehensive view of modern biology, especially how it affects man. Concepts of scientific method will be covered in this course to give the non-major a feeling for processes that are carried out in biological research.

### **Bio 112N Introduction to Organismic And Evolutionary Biology (3-1) 4**

This course covers the nature of biological inquiry, basic ecology, cellular reproduction, Mendelian genetics, and basic evolution theory. Using these basic topics, the course will also incorporate reading and interpreting the biological literature, hypothesis testing, data analysis, and current social and ethical issues surrounding biology. Required for all biology majors and should be seriously considered by those contemplating majoring in any science.

### **Bio 113 Introduction to Molecular and Cellular Biology (3-3) 4**

This course covers basic biochemistry, energetics, cell biology, gene expression, and basic cellular plant and animal physiology. The laboratory will include experiments such as basic cell fractionation, enzymology, and osmosis/diffusion. This term will culminate in a guided, student-designed experiment.

Prerequisites: Bio 112N and Chem 150.

### **Bio 120N Environmental Conservation (3-0) 3**

A study of natural resources in a global context. Attention is given to public policies and programs that affect the long-range availability and use of these resources.

### **Bio 121Tx Human Anatomy and Physiology (2-3) 3**

An introduction to the structure and function of the human body.

### **Bio 132 Human Sexuality (3-0) 3**

Biological aspects of human reproduction, supplemented by discussion of medical, societal, psychological, and ethical issues. Credit not applicable to the biology major.

### **Bio 141N Global Ecological Issues (3-0) 3**

This course examines population growth, the availability of food and water, and human-influenced environmental change, particularly global warming and ozone depletion, from various cultural perspectives. The current scientific understanding and policy responses to these issues are discussed. The concept of 'sustainability' is introduced, and examples of its application are presented.

### **Bio 202Nx Plants and Human Affairs (3-3) 4**

This course reviews the way humans have used plants for food, fiber, drugs, building products, etc., as well as how plants in turn have affected the human race. This course is designed for non-science majors. Credit not applicable to the biology major.

Prerequisites: Comp 150 and Lib 150.

### **Bio 206 General Botany (3-3) 4**

This course has two parts. Part one addresses the structure, development, and physiology of vascular plants. Part two presents a survey of the structure, reproduction, evolution, and the relation to humans of the fungi, algae, bryophytes, ferns, gymnosperms, and angiosperms.

Prerequisite: Bio 113.

### **Bio 207 General Zoology (3-3) 4**

A survey of the field of zoology and its major subdivisions. It includes an overview of the evolutionary relationships of animal groups from protozoa through vertebrates.

Prerequisite: Bio 113.

### **Bio 210 Survey of Organismic Diversity (3-3) 4**

Topics will include the Three Domain System, mitosis and meiosis, life cycles, and representative groups from the major kingdoms. Labs will focus on observation of many representative organisms, major tissue types and organ systems, and comparative morphological and reproductive characteristics in those groups.

Prerequisites: Bio 112N and 113.

### **Bio 220 Fundamentals of Ecology (3-3) 4**

A study of the fundamental relationships among organisms and their environments. Lab will include an introduction to field methods, sampling, analyses of data and problem solving in ecology. This course is the same as For 218; credit will be given for only one of these courses.

Prerequisites: Bio 206 or 207, Math 121 and Math 201.

### **Bio 241N Environmental Policy Analysis (3-0) 3**

This course introduces students to some of the basic tools used in policy analysis and applies those tools to a variety of environmental issues. The course discusses the economic incentives that encourage some types of environmental problems and how market mechanisms are being used to address these problems. We will also discuss the trade-offs that often arise between economic growth, human health, and environmental quality.

### **Bio 250Nx Ecology of the Southwest (3-2) 4**

This course provides an understanding of the scientific method by investigating the ecology of the southwest. Through field trips and research projects, students learn to recognize major plant and animal species and ecological factors that limit species distribution and abundance. Lectures and readings provide insights into major ecological processes, e.g., population growth, food webs, and natural disturbances. This course is the same as SW 250; credit will be given for only one of these courses. Prerequisite: sophomore standing.

### **Bio 260 Genetics (3-3) 4**

A survey of basic genetic processes. Topics include transmission, population, and evolutionary genetics as well as

basic molecular processes such as DNA replication, transcription, and translation.

Prerequisites: Bio 112N, Bio 113, Chem 151.

### **Bio 270 Foundations of Molecular Biology (3-3) 4**

This course is a foundational course for students interested in molecular and cellular biology. Students will examine the key paradigms of molecular cell biology, such as, mechanisms of gene expression, regulation of gene expression, and the relationship between molecule structure and function. The laboratory will introduce students to the molecular approaches and techniques used to study gene expression. Methods used in lab will include recombinant DNA technology, transformation techniques, nucleic acid isolation and analysis, and protein analysis.

Prerequisites: Bio 260 and Chem 151.

### **Bio 299 Individualized Study 1-6**

Individual research is conducted under the supervision of a faculty member.

### **Bio 301 Vascular Plant Morphology (3-3) 4**

The course is a comparative evolutionary survey of the vegetative and reproductive morphology of living and fossil vascular plants.

Prerequisite: Bio 206.

### **Bio 302 Systematic Botany (2-6) 4**

A study of the identification, classification, and relationships of the vascular plants with emphasis on temperate flowering plant families. Major emphasis will be given to the origin of flowering plants and especially the nature of species as revealed by modern techniques. Laboratory work will focus on the use of keys and terminology, the identification of species, and the recognition of family characteristics.

Prerequisite: Bio 206.

### **Bio 303 Histology (3-3) 4**

Study of the microscopic structure of the major tissues and organs of the vertebrate body. The relationship between structure and function of these tissues and organs will be examined.

Prerequisite: Bio 207.

### **Bio 304 Field Zoology (4-3) 5**

A study of primarily vertebrate animals with emphasis on taxonomic and ecological relationships and with an introduction to various wildlife management and field study techniques. Laboratory work includes identification and occasional collection and museum preparation. Summer term.

Prerequisites: Bio 207.

### **Bio 305 Entomology (3-3) 4**

A study of insect anatomy, physiology, identification, ecology, and behavior. Laboratories will emphasize field work and insect family identification.

Prerequisite: Bio 207.

### **Bio 310 Pollination Biology (3-3) 4**

A study of the principles of pollination biology, including abiotic and biotic syndromes. Topics will cover primary and secondary attractants of plants, adaptations of pollinators, effect of pollination systems on plant population structure, competition among plant species for pollinators, and pollination strategies of agricultural crops.

Prerequisites: Bio 206 or Bio 207.

### **Bio 321 General Physiology (3-3) 4**

Examination of basic physiological concepts from the cellular through the systemic level. Topics include energy metabolism and its control, nerve function, movement, cardiovascular physiology, immune response, water regulation, and integrative control systems.

Prerequisites: Bio 207, Chem 250, and Math 201.

### **Bio 324 Mammology (3-3) 4**

The course will examine the zoology (i.e., characteristics, origin, evolution, zoogeography, systematics, ecology, behavior, physiology, and conservation) of mammals (Class Mammalia). These topics will be covered by emphasizing both classical (or historical studies) and recent (or contemporary) research. Laboratory work will involve both field identification of mammals from field trips and laboratory work concerning taxonomic and

morphological studies.

Prerequisite: Bio 207.

### **Bio 331 Microbiology (3-3) 4**

A survey of the microbial world with emphasis on ecology, physiology, and genetics of prokaryotes. Laboratory activities emphasize staining, culturing, and biochemical identification techniques as well as experimental exercises with bacteria of medical, economic, and agricultural importance.

Prerequisites: Bio 206, 207, and Chem 150, 151Tx, and 250.

### **Bio 332 Immunology (3-3) 4**

An introduction to the structures and biochemical activities of antibodies and the mechanisms of the immune response. The laboratory will emphasize analytical methods of measuring antibody-antigen reactions.

Prerequisite: Bio 331.

### **Bio 334 Ornithology (3-3) 4**

This course will investigate the scientific study of birds (Class Aves); it will examine the behavior, ecology, morphology, origin, evolution, zoogeography, systematics, physiology, and conservation of birds. These topics will be covered by emphasizing both classical (or historical studies) and recent (or contemporary) research. Laboratory work will involve both field identification of birds from field trips and laboratory work concerning taxonomic and morphological studies.

Prerequisite: Bio 207.

### **Bio 341 Vertebrate Comparative Anatomy (3-3) 4**

A comparative study of the morphology of representative vertebrates with the objectives of understanding their evolutionary relationships and the functional basis of their variations on a common plan.

Prerequisite: Bio 207.

### **Bio 342 Embryology & Developmental Biology of the Vertebrates (3-3) 4**

A detailed study of reproduction and development in representative vertebrates. The laboratory work explores the

anatomy of the development in depth, and the lecture correlates this development with and explains it on the basis of cellular and molecular events during ontogeny.

Prerequisite: Bio 207.

### **Bio 350 Mycology (3-3) 4**

A survey of the Kingdom Fungi covering classification, physiology, development, ecology, genetics, and environmental relationships peculiar to the fungi.

Prerequisites: Bio 206, and Chem 150, 151Tx.

### **Bio 360 Bryophytes and Lichens (3-3) 4**

A course treating the taxonomy, morphology, ecology, reproduction, and evolution of the Bryophytes and Lichens.

Prerequisite: Bio 206.

### **Bio 380W Issues in Evolution and Biological Thought (4-0) 4**

This course will address the critical issues of writing in the biological and/or agricultural sciences using the topics of evolution and patterns of biological thought as a basis for writing, reading, and discussion. Many aspects of evolution in a variety of sub-disciplines of biology and agriculture will be covered. This course is the same as Ag380W.

Prerequisite: Junior standing.

### **Bio 385 Desert Biology (3-0) 3**

This course covers all aspects of desert biology-ecology, physiology, organismic biology, etc.-of all deserts around the world, with a special emphasis on adaptations and natural history of organisms in North American deserts.

Prerequisites: Bio 206, 207, Chem 150, 151Tx.

### **Bio 400 Plant Physiology (3-3) 4**

A study of plant-water relations, nutrition, metabolism, and adaptations to different environments.

Prerequisites: Bio 206, Chem 250, and Math 201.

Previous or concurrent enrollment in Chem 251, 311, and Bio 220 (or For 218) recommended.

### **Bio 407 Evolution (3-0) 3**

A survey of the current explanations of evolutionary mechanisms.

Prerequisite: Bio 260.

### **Bio 455 Cellular and Molecular Biology (3-3) 4**

This course will focus on the examination of gene expression mechanisms and their regulation, organelle compartmentalization of the eukaryotic cell, and the functional relationships of cell molecules, organelles and other cellular structures, such as the cytoskeleton.

Prerequisites: Bio 270, Chem 251. Chem 311 recommended.

### **Bio 456 Cell Physiology (3-3) 4**

Examination of physiological control mechanisms at the molecular level. Cell communication, receptor-ligand interactions, and control of cell growth and development will be examined, as well as the lab techniques used to study them. Laboratory will use molecular cloning and cell culture techniques to examine cell physiology.

Prerequisites: Bio 270, 321, and 455; Chem 251 or 311; and consent of the instructor.

### **Bio 460 Immunology (3-3) 4**

A comprehensive introduction to the mechanisms of disease resistance and immunopathology. Topics include self/non-self discrimination, inflammation and innate immune mechanisms, antibody structure and function, immune cells/cell subsets, and the consequences of immune system failure. Application of immunochemical techniques, and the immune mechanisms involved in vaccination, pregnancy and fetal development, allergy, autoimmunity, cancer, organ transplantation, and AIDS are also discussed.

Prerequisites: Bio 270, 331, Chem 250, 251.

### **Bio 471 Field Ecology 5**

An advanced project-based ecology course that emphasizes sampling methods, description of local plant and animal communities, and techniques of environmental monitoring in terrestrial and aquatic ecosystems. Summer

term.

Prerequisites: Bio 220, 302, 304, and Math 201 or consent of the instructor.

### **Bio 477 Biogeography (3-3) 4**

A study of current hypotheses explaining past and present distribution of plants and animals. The emphasis is on seed plants and vertebrate animals.

Prerequisite: Consent of instructor.

### **Bio 480 Internship in Biology 1-3**

Directed work experience in the biological sciences. Minimum requirements are that students maintain a detailed journal and complete a term paper. Requires at least 125 hours of directed experience. Credit for this course cannot be applied toward the biology major.

Prerequisites: Biology major and consent of supervising faculty member.

### **Bio 496 Senior Seminar (2-0) 2**

Advanced study and individual field/lab research in a topic of the student's choosing. This course must be taken in sequence with Bio 497 in the following trimester.

Prerequisites: Second trimester junior or senior standing.

### **Bio 497 Senior Thesis (1-3) 2**

Advanced study and individual field/lab research in a topic of the student's choosing. This course is a continuation of Bio 496.

Prerequisite: Bio 496.

### **Bio 499 Independent Study 1-6**

Individual research under the supervision of a faculty member. Offered on demand. Study and proposal should begin in junior year.

Prerequisite: Approval of department chair.





# School of Arts and Sciences

## Biology

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### Course Listings for Biology

#### **Professors**

David W. Jamieson  
 J. Page Lindsey  
 John L. Ninnemann  
 Thomas P. Sluss  
 Preston Somers

#### **Associate Professors**

John W. Byrd  
 Sherell Kuss Byrd  
 John M. Condie  
 Deborah M. Kendall  
 Joseph C. Ortega

#### **Assistant Professors**

Clare A. Beelman  
 Catherine P. Ortega

The various biology curricula are designed to meet the different needs of students considering the broad field of biology. Although all of these curricula lead to a Bachelor of Science degree in biology, there are four options available: General Biology, Environmental Biology, Cellular and Molecular Biology, and Biology for Secondary Education.

The General Biology option provides exposure to all the major conceptual areas of biology. It is intended for students wishing to pursue professional careers in health care or graduate school. It is also recommended for those students who are undecided about specific career goals in biology.

The Environmental Biology option provides a broad exposure to the principles and practices of ecology, environmental conservation, and management of natural resources. Thus, this option is particularly valuable for those students who plan to work for the many private firms and state and federal agencies involved in natural resource management and environmental impact assessment. This curriculum also provides appropriate preparation for students interested in graduate study in ecology and environmental science.

The Cellular and Molecular Biology option is designed to prepare students for graduate study in cell and molecular biology or to find employment in the biotechnology and health care industries. Students with this major are highly sought after in forensics technology, pharmaceutical development, and industries involving bioinformatics and gene discovery. Many students find that this option fulfills the requirements for postgraduate work leading to careers in health care, from medicine to naturopathy.

The Biology for Secondary Education option is designed to prepare students to teach in secondary schools. To obtain requirements for teacher certification, please contact the Department of Teacher Education.

Both government and industry have considerable demand for people trained in the biological sciences and for which a bachelor's degree is sufficient. Administrative and professional careers may be found in government service and with a variety of conservation and recreation agencies at both state and federal levels. Laboratory and technical work is available with industry and with several government agencies. Some sales positions, especially with pharmaceutical houses, require a biology background. There is a considerable demand for secondary school teachers with certification in biology. Many positions for biologists require a graduate degree for which a liberal arts biology major is an excellent background.

A minor in biology is available for students majoring in other disciplines. Requirements for a minor in biology are listed at the end of this section. All minors must be arranged in consultation with the student's biology advisor.

#### **REQUIREMENTS FOR A BACHELOR OF SCIENCE DEGREE WITH A MAJOR IN BIOLOGY:**

<b>Course:</b>	<b>Credits:</b>
<b>The General Biology Option</b>	
<b>General Education</b>	35-46
** Courses marked with double asterisks may also be counted toward TS 1 requirements.	
<b>Specific Departmental Requirements:</b>	
**Bio 112N Intro to Organismic and Evolutionary Biology	4
Bio 113 Introduction to Cellular and Molecular Biology	4
Bio 206 General Botany	4
Bio 207 General Zoology	4
Bio 220 Fundamentals of Ecology	4
Bio 260 Genetics	4
Bio 321 General Physiology	4
Bio 380W/Ag 380W Issues in Evolution and Biological Thought	4
<i>Other biology courses, excluding cooperative education and internship</i>	<i>11</i>

Bio 496 Senior Seminar	2
Bio 497 Senior Thesis	2
<b>Subtotal Specific Departmental Requirements</b>	<b>47</b>
<b>Writing course within discipline:</b>	
Included in Specific Departmental Requirements above	
<b>Auxiliary Requirements:</b>	
Chem 150-**151Tx Fundamentals of Chemistry	8
Chem 250-251 Organic Chemistry	8
**Math 121Q Pre-Calculus	4
**Math 201Q Elementary Statistics	4
<b>Subtotal Auxiliary Requirements</b>	<b>24</b>
<b>Recommended Courses (suggested for those students anticipating graduate school):</b>	
Math 221Q, 222Q Calculus I, II Phys 201, 202 College Physics I, II Chem 311 General Biochemistry I	
<i>Free Electives (variable)</i>	
<b>TOTAL REQUIRED FOR GRADUATION</b>	<b>120</b>

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

### General Biology Option Suggested Course Sequence

Fall Freshman Year	Credits	Winter Freshman Year	Credits
Bio 112 N	4	Bio 113	4
Chem 150	4	Chem 151Tx	4
Math 110Q*	4	Math 121Q	4
Lib 150	1	Comp 150	4
<b>Total</b>	<b>13**</b>	<b>Total</b>	<b>16</b>
Fall Sophomore Year	Credits	Winter Sophomore Year	Credits
Bio 207	4	Bio 206	4
Chem 250	4	Chem 251	4
Upper Division Elective course	4	ES 100	1
TS 1 Gen Ed	4	TS 1 Gen Ed	4
<b>Total</b>	<b>16</b>	<b>Total</b>	<b>13**</b>
Fall Junior Year	Credits	Winter Junior Year	Credits

Bio 220	4	Bio 321	4
Bio 260	4	Bio 380	4
TS 2 Gen Ed	4	Math 201Q	4
PE Skills course	1	TS 2 Gen Ed	4
Upper Division Electives course	4	PE Fitness course	1
<b>Total</b>	<b>17</b>	<b>Total</b>	<b>17</b>
Fall Senior Year	Credits	Winter Senior Year	Credits
Bio 496	2	Bio 497	2
Two Upper Division Biology courses	8	Upper Division Biology course	4
TS 2 Gen Ed	4	TS 2 Gen Ed	4
		Upper Division Elective course	
<b>Total</b>	<b>14**</b>	<b>Total</b>	<b>14**</b>

**Total Upper Division Credits** **52**

**Total Credits** **120**

\* The math course that a student will take is determined by a placement test. There are five levels of math that one may enter. Placement into a course lower than Math 110 will retard this schedule, and placement into a higher than Math 110 will accelerate it.

\*\* During these semesters students should take additional courses in preparation for a biology career, medical school, veterinary, or graduate school. Your biology faculty advisor will help you with the selection of these courses.

## Courses

### The Environmental Biology Option

#### General Education

\*\* Courses marked with double asterisks may also be counted toward TS 1 requirements.

#### Specific Departmental Requirements:

**Bio 112N Intro to Organismic and Evolutionary Biology	4
Bio 113 Introduction to Cellular and Molecular Biology	4
Bio 206 General Botany	4
Bio 207 General Zoology	4

**Credits:**

**35-46**

Bio 220 Fundamentals of Ecology	4
Bio 260 Genetics	4
Bio 302 Systematic Botany	4
Bio 304 Field Zoology	5
Bio 380W/Ag 380W Issues in Evolution and Biological Thought	4
Bio 471 Field Ecology	5
<i>Other biology courses (in the 300- or 400-series) (excluding internship)</i>	<b>3</b>
Bio 496 Senior Seminar	2
Bio 497 Senior Thesis	2
Subtotal Specific Departmental Requirements	49
<b>Writing Course Within Discipline:</b>	
Included in Specific Departmental Requirements above	
<b>Auxiliary Requirements from Other Departments:</b>	
Chem 150-**151Tx Fundamentals of Chemistry	8
Chem 250 Organic Chemistry	4
Chem 365 Analytical Chemistry	4
**Math 121Q Pre-calculus	4
**Math 201Q Elementary Statistics	4
Ag 301 Range Management	4
Ag 235 Soils and Soil Fertility	4
<b>Subtotal Auxiliary Requirements</b>	<b>32</b>
<b>Recommended Electives (to be selected in consultation with student's advisor):</b>	
Bio 331 Microbiology	
Bio 305 Entomology	
Bio 324 Mammology	
Bio 334 Ornithology	
Bio 350 Mycology	
Bio 360 Bryophytes and Lichens	
Engr 205 Surveying I	
**Geog 250T Intro to Computer Mapping and GIS	
**Geol 113Tx Physical Geology	
**Econ 266S Principles of Economics	

Phys 201, 202 College Phys I &amp; II

Free Electives (variable)

**TOTAL REQUIRED FOR GRADUATION****120**

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements

### Environmental Biology Option Suggested Course Sequence

Fall Freshman Year	Credits:	Winter Freshman Year	Credits:
Bio 112 N	4	Bio 113	4
Chem 150	4	Chem 151Tx	4
Math 110Q*	4	Math 121Q	4
Lib 150	1	Comp 150	4
<b>Total</b>	<b>13**</b>	<b>Total</b>	<b>16</b>
Fall Sophomore Year	Credits:	Winter Sophomore Year	Credits:
Bio 207	4	Bio 260	4
Chem 250	4	Bio 206	4
ES 100	1	Ag 235	4
TS 1 Gen Ed	4	TS 1 Gen Ed	4
<b>Total</b>	<b>13**</b>	<b>Total</b>	<b>16</b>
Fall Junior Year	Credits:	Winter Junior Year	Credits:
Chem 365	4	Bio 220	4
TS 2 Gen Ed	4	Bio 380	4
PE Skills course	1	Math 201Q	4
Ag 301	4	TS 2 Gen Ed	4
<b>Total</b>	<b>13**</b>	<b>Total</b>	<b>16</b>
Fall Senior Year	Credits:	Winter Senior Year	Credits:
Bio 302	4	Bio 497	2
Bio 496	2	Upper Division Biology course	3
TS 2 Gen Ed	4	PE Fitness course	1
Upper Division Elective course	3	TS 2 Gen Ed	4
<b>Total</b>	<b>13**</b>	<b>Total</b>	<b>10**</b>
Junior/Senior Year 2nd Summer Session	Credits:	Senior Year 3rd Summer Session	Credits:
Bio 304	5	Bio 471	5
<b>Total Upper Division Credits</b>			<b>52</b>

**Total Credits****120**

\* The math course that a student will take is determined by a placement test. There are five levels of math that one may enter. Placement into a course lower than Math 110 will retard this schedule, and placement into a higher than Math 110 will accelerate it.

\*\* During these semesters students should take additional courses in preparation for a biology career, or graduate school. Your Biology faculty advisor will help you with the selection of these courses

**Courses:****Credits:****The Cellular and Molecular Biology Option****General Education****33-46**

\*\* Courses marked with double asterisks may also be counted toward TS 1 requirements.

**Specific Departmental Requirements:**

**Bio 112N Intro to Organismic and Evolutionary Biology	4
Bio 113 Introduction to Cellular and Molecular Biology	4
Bio 210 Survey of Organismic Diversity	4
Bio 260 Genetics	4
Bio 270 Foundations of Molecular Biology	4
Bio 321 General Physiology	4
Bio 331 Microbiology	4
Bio 342 Embryology & Developmental Biology of Invertebrates	
OR	
Bio 456 Cell Physiology	4
OR	
Bio 460 Immunology	
Bio 380W/Ag 380W Issues in Evolution and Biological Thought	4
Bio 455 Cell & Molecular Biology	4
Bio 496 Senior Seminar	2
Bio 497 Senior Thesis	2
Subtotal Specific Departmental Requirements	44

**Writing Course Within Discipline:**

Included in Specific Departmental Requirements above

**Auxiliary Requirements from Other Departments:**

Chem 150-**151Tx Fundamentals of Chemistry	8
Chem 250-251 Organic Chemistry	8
**Math 121Q Pre-calculus	4
**Math 201Q Elementary Statistics	4
<b>Subtotal Auxiliary Requirements</b>	<b>24</b>

*Free Electives (variable)***TOTAL REQUIRED FOR GRADUATION 120**

Note to double majors: Students double-majoring in Chemistry-Biochemistry and Biology-Cellular and Molecular may take the senior seminar sequence in either chemistry (Chem 496 and Chem 497) or biology (Bio 496 and Bio 497) and may take the writing class in either chemistry (Chem 300W) or biology (bio 380W); these students do not have to take both senior seminar sequences or both writing classes. Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

### Cellular and Molecular Biology Option Suggested Course Sequence

Fall Freshman Year	Credits:	Winter Freshman Year	Credits:
Bio 112 N	4	Bio 113	4
Chem 150	4	Chem 151Tx	4
Math 110Q*	4	Math 121Q	4
Lib 150	1	Comp 150	4
<b>Total</b>	<b>13**</b>	<b>Total</b>	<b>16</b>
Fall Sophomore Year	Credits:	Winter Sophomore Year	Credits:
Bio 210	4	Bio 270	4
Bio 260	4	Chem 251	4
Chem 250	4	Elective Course	4
TS 1 Gen Ed	4	ES 100	1
<b>Total</b>	<b>16</b>	TS 1 Gen Ed	4
		<b>Total</b>	<b>17</b>
Fall Junior Year	Credits:	Winter Junior Year	Credits:
Bio 321	4	Bio 380	4
Bio 331	4	PE Fitness Course	1
TS 2 Gen Ed	4	Math 201Q	4
PE Skills course	1	TS 2 Gen Ed	4
Upper Division Elective Course	4	<b>Total</b>	<b>13**</b>
<b>Total</b>	<b>17</b>		

Fall Senior Year	Credits:	Winter Senior Year	Credits:
Bio 455	4	Bio 497	2
Bio 496	2	Bio 342 or	4
TS 2 Gen Ed	4	Bio 456 or	
Upper Division Elective course	4	Bio 460	
<b>Total</b>	<b>14**</b>	Upper Division Elective Course	4
		TS 2 Gen Ed	4
		<b>Total</b>	<b>14**</b>
Junior/Senior Year 2nd Summer Session	Credits:	Senior Year 3rd Summer Session	Credits:
Bio 304	5	Bio 471	5
<b>Total Upper Division Credits</b>			<b>52</b>
<b>Total Credits</b>			<b>120</b>

\* The math course that a student will take is determined by a placement test. There are five levels of math that one may enter. Placement into a course lower than Math 110 will retard this schedule, and placement into a higher than Math 110 will accelerate it.

\*\* During these semesters students should take additional courses in preparation for a biology career, or graduate school. Your Biology faculty advisor will help you with the selection of these courses

## The Biology for Secondary Education Option

### Courses:

*General Education*

**Credits:**

**35-46**

\*\* Courses marked with double asterisks may also be counted toward TS 1 requirements.

### Specific Departmental Requirements:

**Bio 112N Intro to Organismic and Evolutionary Biology	4
Bio 113 Introduction to Cellular and Molecular Biology	4
Bio 206 General Botany	4
Bio 207 General Zoology	4

Bio 220 Fundamentals of Ecology	4
Bio 260 Genetics	4
Bio 321 General Physiology	4
Bio 380W/Ag 380W Issues in Evolution and Biological Thought	4
Bio 496 Senior Seminar	2
Bio 497 Senior Thesis	2
<b><i>Subtotal Specific Departmental Requirements</i></b>	<b>36</b>
<b>Auxiliary Requirements from Other Departments:</b>	
Chem 150-**151Tx Fundamentals of Chemistry	8
Chem 250 Organic Chemistry	4
**Math 201Q Elementary Statistics	4
Geol 110 Earth Science	4
Phys 201 College Physics	5
ED 200 Intro to Education in America	4
**ED 210S Culture of Childhood and Youth	4
ED 421 Individualized Instruction in a Pluralistic Society	6
ED 424 Language and Math Literacy in Secondary	4
ED 495 Student Teaching	15
<b><i>Subtotal Auxiliary Requirements</i></b>	<b>58</b>
<i>Free Electives (variable)</i>	
<b>TOTAL REQUIRED FOR GRADUATION</b>	<b>120</b>

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

**REQUIREMENTS FOR A MINOR IN BIOLOGY:**



**Bio 112N Intro to Organismic and Evolutionary Biology	4
Bio 113 Introduction to Cellular and Molecular Biology	4
Bio 206 General Botany	4
OR	
Bio 207 General Zoology	
<i>Two upper division biology courses</i>	<i>6-8</i>
<b>Total</b>	<b>18-20</b>



# School of Business Administration

## Business Administration

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Minor Options

**Business Administration/Economics Majors Suggested Course Sequence:**

<b>Freshman Year</b>				<b>Sophomore Year</b>			
<b>Fall</b>		<b>Winter</b>		<b>Fall</b>		<b>Winter</b>	
		Econ 266S	4	BA 260S	3		
BA 101	4	Comp 150	4	Acc 225	4	BA 253Q	4
TS 1 (R,N, or T) or Electives	9	Lib 150	1	BA 221	3	Acc 226	4
ES 100	1	TS 1(R,N, or T) or Electives	4	PE Activities	1	TS 1 Gen Ed and/or Electives	8
<b>Total</b>	<b>14</b>	<b>Total</b>	<b>13</b>	<b>Total</b>	<b>15</b>	<b>Total</b>	<b>16</b>
<b>Junior Year</b>				<b>Senior Year</b>			
<b>Fall</b>		<b>Winter</b>		<b>Fall</b>		<b>Winter</b>	
		BA 353	4	BA Electives		BA 496	4
BA 301	4	BA Electives	4	TS 2 Gen Ed and/or Electives	7	BA Elective	3
BA 380	4	CSIS 322	4		8	TS 2 Gen Ed and/or Electives	8
Q/R Course	4	TS2 Gen Ed and/or Electives	4	<b>Total</b>			
BA 340	4			<b>Total</b>	<b>15</b>	<b>Total</b>	<b>16</b>
<b>Total</b>	<b>16</b>	<b>Total</b>	<b>16</b>				

This does not apply to the Engineering Management option. Students seeking this option should develop a course sequence with their business administration advisor immediately after selecting the option.

BA 101 Business in the Modern World is NOT required for a major in Business Administration or Economics; however, the course provides a good overall introduction to business. It is strongly recommended that students develop a course sequence sheet with their business administration advisor prior to the beginning of their junior year or substantial delay in graduation may result.

### **Agricultural Business Option**

The Business Administration major with the agricultural business option integrates agriculture, economics, and business administration to prepare students for professional careers in the agribusiness sector. These include positions in agricultural finance, product development, marketing and distribution, and agribusiness management. Flexibility within this option allows students to concentrate in a specific area of study, including general agriculture, animal science or agronomy.

A student studying agricultural business must complete the following requirements:

<b>Courses:</b>	<b>Credits:</b>
<b>General Education</b>	<b>35-46</b>
** Courses marked with double asterisks may also be counted toward TS 1 requirements.	
<b>Major Requirements:</b>	
<b>Common SOBA Requirements</b>	<b>42</b>
<b>Quantitative Reasoning Requirements</b>	<b>4</b>
<b>Auxiliary Requirements</b>	<b>4</b>
<b>Other Departmental Requirements:</b>	
Econ 364W Macroeconomics	4
**Ag 101T Introductory Animal Science	4
Ag 102 Principles of Crop Production	4
Ag 346 Agricultural Marketing	3
Plus 12 credits from the list below; at least two courses must be taken from each category:	
<b>Agriculture:</b>	
Ag 150 Farm Records and Accounts	3
Ag 202 Integrated Pest Management/Weed Control	4
Ag 204 Forage Production and Management	3
Ag 235 Soils and Soil Fertility	4
Ag 240 Principles of Animal Nutrition	4
Ag 300 Agricultural Issues in Society	3

Ag 301 Range Management	4
Ag 325 Beef Science	3
Ag 390 Special Topics	3
<b>Business Administration/Economics:</b>	
Econ 361 Managerial Economics	4
Econ 390 Special Topics	4
BA 311 Business Law I	3
BA 312 Business Law II	3
BA 387 Real Estate	4
BA 401W Entrepreneurship and Small Business Management	3
BA 437 Internship in Business	3
Econ 335 Environmental Economics	4
<b>Subtotal Other Departmental Requirements</b>	<b>27</b>
<b>TOTAL MAJOR REQUIREMENTS</b>	<b>77</b>
Free Electives (variable)	
<b>TOTAL REQUIRED FOR GRADUATION</b>	<b>120</b>

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

Completion of this course fulfills the Group W requirement for students in the agricultural business option.

The 27 credits used to satisfy an option in Agricultural Business may not be used to satisfy any other major, minor or option.

### **Business Administration Option**

The business administration program, sometimes referred to as general business, provides a broad base of knowledge for beginning a business career. It enables maximum flexibility in career choice and change throughout one's career. Students are expected to develop a basic understanding of the social, legal and economic environments of business, including an introduction to international business, organizational behavior, the principles of leadership and organization theory, the quantitative tools of decision making and the functional areas of the firm. Students work with assigned advisors to select elective courses that enhance their particular interest. Emphasis is placed on developing a general background with a well-balanced understanding of business. This program, then, provides a sound undergraduate education for entrance into a professional career or graduate school.

A student studying business administration must complete the following requirements:

<b>Courses:</b>	<b>Credits:</b>
<b>General Education</b>	<b>35-46</b>

\*\* Courses marked with double asterisks may also be counted toward TS 1 requirements.

## **MAJOR REQUIREMENTS:**

**Common SOBA Requirements** **42**

**Quantitative Reasoning Requirements** **4**

**Auxiliary Requirements** **4**

### **Other Departmental Requirements:**

One (1) 300- or 400-level Economics Course **4**

Plus a minimum of 15 credits of 300- or 400-level business administration courses selected from the following three groups (A, B, C), with at least one course from each group

#### **Group A: MARKETING**

BA 240 Business Creativity and Innovation **2**

BA 339 Selling **3**

BA 342 Retailing **3**

BA 344 Advertising **3**

BA 346 Managing Customer Value **4**

BA 347 Consumer Behavior **3**

BA 348 Public Relations **3**

BA 372W Global Business Seminar **4**

BA 390 Special Topics in Marketing **3**

BA 402 Electronic Commerce **4**

BA 437 Internship in Business - Marketing **3**

BA 445W Marketing Strategy and Policy **4**

BA 446 Marketing Research **4**

#### **Group B: MANAGEMENT**

BA 302W Human Resource Management **4**

BA 308 Office Management **3**

BA 372W Global Business Seminar **4**

BA 311 Business Law I **3**

BA 312 Business Law II **3**

BA 313 Ethical Issues in Business **3**

BA 315 International Law **3**

BA 316 Tourism and Recreation Law **3**

BA 330 Tourism and Resort Management **4**

BA 357 Studies in Operations Management	4
**BA 360Q Introduction to Operations Research	4
BA 370 Topics in International Business	3
BA 390 Special Topics in Management	1-4
BA 401W Entrepreneurship and Small Business Management	3
BA 402 Electronic Commerce	4
BA 407W Management Consulting	4
BA 415 Management in Action	3
BA 437 Internship in Business - Management Related	3
BA 439 Marketing and Management of Services	4
BA 481W Cases in Financial Management	4
<b>Group C: FINANCE</b>	
BA 317 Technical Analysis-Securities	3
BA 382/Econ 382 Financial Institutions	4
BA 386 Insurance	4
BA 387 Real Estate	4
BA 389 International Finance	4
BA 481W Cases in Financial Management	4
BA 485 Investments and Portfolio Management	4
BA 390 Finance Related Courses	3
BA 437 Internship in Business - Finance Related	3
Econ 369 Public Finance	4
<b>Total Other Departmental Requirements</b>	<b>19</b>
<b>TOTAL MAJOR REQUIREMENTS</b>	<b>69</b>
<b>Free Electives (variable)</b>	
<b>TOTAL REQUIRED FOR GRADUATION</b>	<b>120</b>

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

Completion of Econ 364W, BA 302W, BA 309W, BA 349W, BA 401W, BA 407W, BA 445W or BA 481W fulfills the Group W requirement for students in the business administration option.

The 15 credits used to satisfy an option in Business Administration may not be used to satisfy any other major, minor or option within the School of Business Administration.

### Engineering Management Option

The Business Administration major with the engineering management option prepares students who can integrate management skills with engineering skills to solve complex problems in an increasingly technical world. It is designed to prepare students for entry-level engineering-related jobs and to be able to move rapidly into supervisory/management positions.

A student studying the management option must complete the following requirements:

<b>Courses:</b>	<b>Credits:</b>
<b>General Education</b>	<b>35-46</b>
** Courses marked with double asterisks may also be counted toward TS 1 requirements.	
<b>MAJOR REQUIREMENTS:</b>	
<b>Common SOBA Requirements</b>	<b>42</b>
<b>Other Departmental and Auxiliary Requirements:</b>	
BA 302W Human Resource Management	4
Engr103 Computer-Aided Drafting	3
Engr 104 Computer Programming for Scientists and Engineers	3
Engr 217 Statics	3
Engr 221 Dynamics	3
**Math 221Q Calculus I	4
**Math 222Q Calculus II	4
CSIS 322 Management Information Systems	4
**Phys 217Tx Physics for Science and Engineering I	5
Phys 218 Physics for Science and Engineering II	5
<b>Plus choose one of the following 2 options:</b>	
<b>General Engineering Option:</b>	
Engr 201 Electric Networks I	4
Engr 202 Electric Networks II	
OR	
Engr 317 Mechanics of Materials	3-4
<b>Civil/Surveying Engineering Option:</b>	
Engr 205 Surveying I	4
Engr 305 Surveying II	4
<b>Total Other Departmental Requirements</b>	<b>45-46</b>
<b>TOTAL MAJOR REQUIREMENTS</b>	<b>87-88</b>

Free Electives (variable)

**TOTAL REQUIRED FOR GRADUATION****120**

Completion of this course fulfills the Group W requirement for students in the engineering management option.

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

**Finance Option**

The Business Administration major with a finance option focuses on those financial activities that affect business, government and non-profit organizations. Students will be introduced to financial planning and management as they pertain to organizations, to the function of both capital and money markets, and to fund raising in these markets.

Financial theory and practice have changed rapidly in the past 20 years and will probably continue to change at least as rapidly in the immediate future. Therefore, students will be introduced to the rapidly evolving theory of finance so that they will be able to evaluate the effectiveness of a firm's financing decisions and investments. Students also will become familiar with the analytical techniques that can be used to seek solutions to a wide range of financial problems.

A student studying finance must complete the following requirements:

**Courses:****Credits:****General Education****35-46**

\*\* Courses marked with double asterisks may also be counted toward TS 1 requirements.

**MAJOR REQUIREMENTS:****Common SOBA Requirements****42****Quantitative Reasoning Requirements****4****Auxiliary Requirements****4****Other Departmental Requirements:**

One (1) 300- or 400-level Economics Course

4

BA 481W Cases in Financial Management

4

BA 485 Investments and Portfolio Management

4

**Plus a minimum of seven (7) credits from the following:**

BA 317 Technical Analysis-Securities

3

BA 382 Financial Institutions

4

BA 386 Insurance

4

BA 387 Real Estate

4

BA 389 International Finance

4

BA 390 Special Topics in Finance	4
BA 437 Internship in Business - Finance Related	3
Econ 369 Public Finance	4
Econ 371 International Economics	4
Econ 364W Macroeconomic Theory	4
<b>Total Other Departmental Requirements</b>	<b>19</b>
<b>TOTAL MAJOR REQUIREMENTS</b>	<b>69</b>
Free Electives (variable)	
<b>TOTAL REQUIRED FOR GRADUATION</b>	<b>120</b>

Completion of this course fulfills the Group W requirement for students in the finance option.

May not be used to fulfill the 300- or 400-level Economics course requirement and the Finance option requirement simultaneously.

The 19 credits used to satisfy an option in Finance may not be used to satisfy any other major, minor or option within the School of Business Administration.

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

### Information Management Option

The Business Administration major with the Information Management option integrates information systems and business administration to prepare students for professional careers in the information systems sector. These include positions in systems analysis, business consulting, e-commerce, and information management.

The Information Management option is not intended to prepare students for a programming career; rather the option is designed to prepare students for the management of business information systems. For a more technical approach, students should pursue a degree in Computer Science or Information Systems.

A student studying Information Management must complete the following requirements:

<b>Courses:</b>	<b>Credits:</b>
<b>General Education</b>	<b>35-46</b>

\*\* Courses marked with double asterisks may also be counted toward TS 1 requirements.

### MAJOR REQUIREMENTS:

<b>Common SOBA Requirements</b>	<b>42</b>
<b>Quantitative Reasoning Requirements</b>	<b>4</b>
<b>Other Departmental and Auxiliary Requirements:</b>	

One (1) 300- or 400-level Economics Course	4
CSIS 106 Visual Basic or CSIS 110 C++	4
CSIS 322 Management Information Systems (MIS)	4
CSIS 350 Database Management Systems	4
CSIS 360 Software Engineering I: Systems Analysis or CSIS 425W Accounting Information Systems	4
CSIS 431 Computer Network Administration	4
<b>Plus 4 credits from the list below:</b>	
CSIS 370 Software Engineering II: Systems Analysis	4
BA 402/CSIS 402 Electronic Commerce	4
BA 325/CSIS 325 Management Intelligence	4
CSIS 361W1 Computer and Human Issues	4
<b>Total Other Departmental and Auxiliary Requirements</b>	<b>28</b>
<b>TOTAL MAJOR REQUIREMENTS</b>	<b>74</b>
Free Electives (variable)	
<b>TOTAL REQUIRED FOR GRADUATION</b>	<b>120</b>

Completion of this course fulfills the Group W course requirement.

The credits used to satisfy an option in Information Management may not be used to satisfy any other major, minor or option.

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

### International Business Option

The Business Administration major with the international business option has been designed to prepare students to enter the exciting and rapidly growing world of international business. Increasingly businesses find that suppliers and customers may come from anywhere in the world. To better prepare students for a future career in business that will likely require some international proficiency, students in this option take courses to gain competency in at least one foreign language, a cultural and political understanding of the region of the world where that language is dominant, and those special business skills needed to operate effectively in the international environment.

The option is strongly interdisciplinary. A student studying international business must complete the following requirements:

#### Courses:

**General Education**

#### Credits:

**35-46**

\*\* Courses marked with double asterisks may also be counted toward TS 1 requirements.

## **MAJOR REQUIREMENTS:**

**Common SOBA Requirements** **42**

**Quantitative Reasoning Requirements** **4**

**Auxiliary Requirements** **4**

### **Other Departmental Requirements:**

#### **A minimum of 15 credit hours from the following courses:**

BA 372W Global Business Seminar	4
BA 302W Human Resource Management	4
BA 313 Ethical Issues in Business	3
BA 315 International Business Law	3
BA 370 Topics in International Business	1-6
BA 375 Studies in European Business	3-18
BA 389 International Finance	4
BA 390 Special Topics (with International emphasis)	1-4
BA 499 Independent Study: Semester Abroad	4
Econ 370 Topics in International Economics	1-6
Econ 371 International Economics	4
Econ 390 Special Topics (with International emphasis)	1-4
Econ 410 Economics, a Radical Perspective	3
ML 309 Business French	3
ML 350 Spanish for the Professions	4

### **Plus completion of the following:**

#### **A. International Experience**

This requirement can be met in several ways:

1. Participation in a Semester Abroad program.
2. International Exchange Program in any discipline.
3. Participation in any summer Innovative Month program that includes an international experience.
4. Residence abroad-minimum of three months.
5. Extensive individual travel abroad. Each method requires documentation, and approval of the SOBA Director of Foreign Studies.

#### **B. Modern Language Proficiency**

This requirement can be met in several ways:

1. Completion of a 200-level modern language course.

2. Score of 3 or above on an AP modern language exam.
3. ACTFL proficiency exam score.
4. Native speaker of a language other than English.
5. Completion of an intensive language training program.

Each method requires documentation and approval of the SOBA Director of Foreign Studies.

<b>Total International Experience and/or Modern Language Proficiency</b>	<b>0-12</b>
<b>Total Other Departmental Requirements</b>	<b>15</b>
<b>TOTAL MAJOR REQUIREMENTS</b>	<b>65-77</b>

Free Electives (variable)

<b>TOTAL REQUIRED FOR GRADUATION</b>	<b>120</b>
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The 15 credits used to satisfy an option in International Business may not be used to satisfy any other major, minor or option.

#### **ALTERNATIVE STUDY PROGRAM:**

**Up to 12 credits of the International Business Option Requirements may be satisfied by successful completion of study abroad or exchange program(s) approved by SOBA.**

Completion of BA 372W fulfills the Group W requirement for students in the International Business Option.

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

### **Management Option**

The Business Administration major with the management option prepares students for responsible supervisory and management positions in all types of organizations: business, government and non-profit. Students become familiar with the opportunities and processes of management as they develop skills in planning, organizing, leading and controlling. Students in management are introduced to the process of acquiring and using financial, human and physical resources in the pursuit of organizational objectives. Interpersonal relations, leadership and decision-making are emphasized.

A student studying the management option must complete the following requirements:

<b>Courses:</b>	<b>Credits:</b>
<b>General Education</b>	<b>35-46</b>
** Courses marked with double asterisks may also be counted toward TS 1 requirements.	
<b>MAJOR REQUIREMENTS:</b>	
<b>Common SOBA Requirements</b>	<b>42</b>
<b>Quantitative Reasoning Requirements</b>	<b>4</b>
<b>Auxiliary Requirements</b>	<b>4</b>

**Other Departmental Requirements:**

One (1) 300- or 400-level Economics Course	4
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**Plus a minimum of 15 credits from the following courses:**

**BA 271R Fundamentals of International Business	2
BA 302W Human Resource Management	4
BA 308 Office Management	3
BA 309W International Management	3
BA 311 Business Law I	3
BA 312 Business Law II	3
BA 313 Ethical Issues in Business	3
BA 330 Tourism and Resort Management	4
BA 357 Studies in Operations Management	4
**BA 360Q Introduction to Management Science	4
BA 370 Topics in International Business	1-6
BA 390 Special Topics in Management	1-4
BA 401W Entrepreneurship and Small Business Management	3
BA 407W Management Consulting	4
BA 415 Management in Action	3-6
BA 437 Internship in Business - Management	3
BA 439 Marketing and Management of Services	4

<b><i>Total Other Departmental Requirements</i></b>	<b>19</b>
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<b><i>TOTAL MAJOR REQUIREMENTS</i></b>	<b>69</b>
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Free Electives (variable)	
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<b>TOTAL REQUIRED FOR GRADUATION</b>	<b>120</b>
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The 19 credits used to satisfy an option in Management may not be used to satisfy any other major, minor or option within the School of Business Administration.

Completion of Econ 364W, BA 302W, BA 309W, BA 401W or BA 407W fulfills the Group W requirement for students in the management option.

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

**Marketing Option**

The Business Administration major with the marketing option emphasizes the performance of business activities designed to plan, price, promote, and distribute goods and services to satisfy consumer needs and wants. The study of

marketing recognizes the large proportion of the consumer dollar allocated to marketing, thus creating vast opportunities for graduates in this field. Careers in marketing may be pursued in industry, government, and non-profit organizations, in such areas as retailing, purchasing, marketing research, sales, advertising, sales promotion, product management, public relations, physical distribution and consumer affairs.

A student studying marketing must complete the following requirements:

<b>Courses:</b>	<b>Credits:</b>
<b>General Education</b>	<b>35-46</b>
** Courses marked with double asterisks may also be counted toward TS 1 requirements.	
<b>MAJOR REQUIREMENTS:</b>	
<b>Common SOBA Requirements</b>	<b>42</b>
<b>Quantitative Reasoning Requirements</b>	<b>4</b>
<b>Auxiliary Requirements</b>	<b>4</b>
<b>Other Departmental Requirements:</b>	
One (1) 300- or 400-level Economics Course	4
BA 347 Consumer Behavior	3
BA 445W Marketing Strategy and Policy	4
BA 446 Marketing Research	4
<b>Plus a minimum of 4 credits from the following courses:</b>	
BA 240 Business Creativity and Innovation	2
BA 339 Selling	4
BA 342 Retailing	3
BA 344 Advertising	3
BA 346 Managing Customer Value	4
BA 348 Public Relations	3
BA 372 Global Business Seminar	4
BA 390 Special Topics in Marketing	1-4
BA 437 Internship in Business - Marketing	3
BA 439 Marketing and Management of Services	4
<b>Total Other Departmental Requirements</b>	<b>19</b>
<b>TOTAL MAJOR REQUIREMENTS</b>	<b>69</b>
Free Electives (variable)	
<b>TOTAL REQUIRED FOR GRADUATION</b>	<b>120</b>

Completion of this course fulfills the Group W requirement for students in the marketing option.

The credits used to satisfy an option in Marketing may not be used to satisfy any other major, minor or option within the School of Business Administration.

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

## Tourism and Resort Management Option

Recent decades have witnessed the phenomenal growth of service industries. The service sector of the economy now accounts for most of the job opportunities. In this region of the country the leading service industry is the tourism industry, a major portion of this industry is located in growing year-round resorts. This industry will continue to grow and serve national and international markets. As it does, it will need future leaders and managers with better education and broader perspectives. The tourism and resort management option addresses this need.

The Business Administration major with a tourism and resort management option provides a general understanding of the management challenges and organizational practices of a complex and diverse industry. The use of analytical tools and techniques for decision making, the development of the capacity for critical thought and leadership, and the ability to work with others will be significantly improved by interaction with regional companies through field projects in most courses and a required work experience.

A student studying tourism and resort management must complete the following requirements:

### Courses:

### Credits:

#### General Education

35-46

\*\* Courses marked with double asterisks may also be counted toward TS 1 requirements.

#### MAJOR REQUIREMENTS:

Common SOBA Requirements	42
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Quantitative Reasoning Requirements	4
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Auxiliary Requirements	4
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#### Other Departmental Requirements:

One (1) 300- or 400-level Economics Course	4
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BA 330 Tourism and Resort Management	4
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BA 437 Internship in Business	3
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(With approved industry work experience, and additional BA elective from the list below may be substituted for BA 437.)

BA 439 Marketing and Management of Services	4
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Plus one additional course from the following:

BA 302W Human Resource Management	4
BA 316 Tourism and Recreation Law	3
BA 357 Studies in Operations Management	4
BA 407W Management Consulting	4
BA 446 Marketing Research	4
<b>Total Other Departmental Requirements</b>	<b>18-19</b>
<b>TOTAL MAJOR REQUIREMENTS</b>	<b>68-69</b>
Free Electives (variable)	
<b>TOTAL REQUIRED FOR GRADUATION</b>	<b>120</b>

These credits used to satisfy an option in Tourism and Resort Management may not be used to satisfy any other major, minor or option within the School of Business Administration.

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

### Minor Options:

#### REQUIREMENTS FOR A MINOR IN ENTREPRENEURSHIP AND SMALL BUSINESS MANAGEMENT:

A student majoring in any discipline other than Business Administration may complete a minor in Entrepreneurship and Small Business Management upon satisfactorily completing the following requirements:

<b>Courses:</b>	<b>Credits:</b>
BA 205 Small Business Venturing	3
BA 221 Writing in the Business World	3
BA 240 Business Creativity and Innovation	2
<b>Subtotal</b>	<b>8</b>
Electives - Choose a minimum of 11 hours, at least 6 hours of which must be 300-level or above:	
Acc 225 Financial Accounting	4
Econ 201 Personal Finance	3
**Econ 266S Principles of Economics	4
**BA 260S Legal Environment of Business	3
BA 301 Management and Organizational Behavior	4
BA 302W Human Resource Management	4
BA 308 Office Management	3

BA 330 Tourism and Resort Management	4
BA 340 Marketing	4
BA 342 Retailing	3
BA 346 Managing Customer Value	4
BA 401W Entrepreneurship and Small Business Management	3
<b><i>Subtotal</i></b>	<b>11</b>
<b>TOTAL</b>	<b>19</b>

Contact the Office of the Dean of the School of Business Administration once the requirements for a minor in Accounting, Business Administration, Marketing or Economics are complete.

Please refer to catalog description as this course requires the completion of a prerequisite course(s) prior to enrollment.

**REQUIREMENTS FOR A MINOR IN MARKETING:**

A student majoring in any discipline other than Business Administration may complete a minor in Marketing upon satisfactorily completing the following requirements:

**Econ 266S Principles of Economics	4
BA 101 Business World	4
BA 340 Marketing	4
<b><i>Subtotal</i></b>	<b>12</b>

**Minimum of eight (8) hours selected from the following:**

BA 240 Business Creativity and Innovation	2
BA 339 Selling	3
BA 342 Retailing	3
BA 344 Advertising	3
BA 346 Managing Customer Value	4
BA 347 Consumer Behavior	3
BA 348 Public Relations	3
BA 372W Global Business Seminar	4
BA 439 Marketing and Management of Services	4
BA 445W Marketing Strategy and Policy	4
<b><i>Subtotal</i></b>	<b>8-9</b>

<b>TOTAL</b>	<b>20-21</b>
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Contact the Office of the Dean of the School of Business Administration once the requirements for a minor in Accounting, Business Administration, Marketing or Economics are complete.



# School of Business Administration

## Course Listings for Business Administration

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### **BA 101 Business in the Modern World (4-0) 4**

This course introduces students to the world of business and how this world of business is influenced by the dynamically changing world. It will show how individuals operating within the business environment are impacted by society, politics and the economy. It will also show how business has and is likely to impact society, politics, and the economy.

FRESHMEN AND SOPHOMORES ONLY!

### **BA 205 New Business Venturing (3-0) 3**

This course introduces students to starting and operating a business. At the macro level, students are exposed to how business interacts with government, financial institutions and society. At the micro level, students are exposed to customer psychology, basic economics, data analysis and interpretation. Individual research and writing a business plan are required. Other topics covered include franchising, home-based business and e-commerce.

### **BA 220 Speaking in the Business World (1-2) 2**

This course introduces students to the principles of speech communications with an emphasis on application to organizational contexts. Selectively addressed are the literatures of team communication, interpersonal communication, and public speaking.

Prerequisite: Comp 150, LIB 150.

### **BA 221 Writing in the Business World (3-0) 3**

This course orients students to the writing practices of business professionals. Students will examine the different kinds of writing required in the decision-making process, and how that writing relates to the intellectual practices, values, and social relationships of business professionals. Although the course addresses issues of conceptualization, inquiry, and reasoning in decision-making, the emphasis of the course is on learning the language conventions for administrative writing analyses and persuasive communications.

Prerequisite: Comp 150, LIB 150, Acc 225 or concurrent enrollment.

### **BA 240 Business Creativity and Innovation (2-0) 2**

The business person's secret for creating value in the market place is applying creativity and innovation to solve problems and to make use of opportunities that people face every day. Course objectives are to (1) develop skills in generating new and original ideas, (2) increase ability to move ideas into action and success, and (3) increase knowledge and skill in creative problem solving as applied to business settings. The course is a "hands-on" experiential format where students learn through "doing" the concepts.

### **BA 253Q Business Statistics (4-0) 4**

An introductory course covering the collection and analysis of numerical data for decision-making purposes. Topics to be covered include descriptive statistics, measures of central tendency and dispersion, probability, sampling distributions, estimation, hypothesis testing, and regression and correlation. Credit toward graduation will be given for only one of the following courses: BA 253, Psych 241 and Math 201.

Prerequisites: Math 110 or Math 121 or FLC math placement score in Math 210 or Math 221 and Comp 150 and Lib 150.

### **BA 255 Statistical Inference and Computer Applications (1-0) 1**

This course is designed as a follow up to a three-hour basic statistics course from another school. The course, coupled with a three-hour basic statistics course, will meet the requirements of BA 253 - Business Statistics. Course content includes topics in hypothesis testing and regression, as well as application of computer programs to statistical inference. This course may not be taken for credit by students who have received credit for BA 253.

Prerequisite: Consent of instructor.

### **BA 260S Legal Environment of Business (3-0) 3**

An examination of the primary lawmaking and adjudicatory processes, with a substantial emphasis upon the role that economic, social, political and ethical forces play upon the shaping of domestic and international legal rules.

Prerequisites: Comp 150, LIB 150, or consent of instructor.

### **BA 271R Principals of International Business (3-0) 3**

An introductory course addressing physical and human characteristics and interactions that shape the nature of

international business relationships and movement of resources across geographical and cultural boundaries. Trade patterns are examined in light of the world's present cultural patterns, which are a reflection of the major human accomplishments of the past.

### **BA 301 Management and Organizational Behavior (4-0) 4**

A study of the principles, practices and processes of administration: the organization of a system, the behavior of people in the organization, and the development of organizational effectiveness. Both domestic and international aspects of management theory and practice will be considered.

### **BA 302W Human Resource Management (4-0) 4**

Human resource system makeup within an organization. Topics include but are not limited to, recruitment and selection, training and development, performance appraisal, wage and salary administration, discipline, labor relations, union-management relations, and the role of government in human resource administration.

Prerequisites: BA 301 and BA 221.

### **BA 308 Office Management (3-0) 3**

The principles of office management and office management technology. The responsibilities of managing office services, layout and space utilization, office furniture and equipment, machines and appliances, personnel issues, controlling costs, and office methods and procedures are included. Individual research required.

Prerequisites: Junior standing and BA 221.

### **BA 311 Business Law I (3-0) 3**

Basic principles of law as applied to business transactions. Study of the law of contracts, sale of goods, warranties and negotiable instruments, and secured transactions. These topics are tested on the Business Law portion of the C. P.A. exam. The interactions between social, political and economic factors with law are considered.

Prerequisites: BA 221, BA 260S, and junior standing.

### **BA 312 Business Law II (3-0) 3**

Study of the law of agencies, business associations, bankruptcy, property, employment law, and environmental regulatory law are examined. These topics are tested on the Business Law portion of the C.P.A. exam.

Prerequisites: BA 221, BA 260S, and junior standing.

### **BA 313 Ethical Issues in Business (3-0) 3**

This course will examine ethical issues which arise and are unique to managerial decision-making in business settings. The course will proceed developmentally with ethical systems commonly used in business, personal ethics, and, finally, ethics in business through case studies.

Prerequisites: Junior standing.

### **BA 315 International Business Law (3-0) 3**

An introduction to public international law with emphasis on international commerce and an examination of national laws and practices that states apply to international commercial transactions.

Prerequisites: BA 221, BA 260S, and junior standing.

### **BA 316 Tourism and Recreation Law (3-0) 3**

Students apply legal principles to recreation, hotel, travel, restaurant, and entertainment contexts. Students complete risk management oral and written reports on actual enterprises based on extensive legal research using Lexis Nexis to check compliance with the Americans with Disabilities Act, civil rights legislation, state and federal statutes, and precedents. This course can be used to fulfill upper-division electives in International Business, Management, or Tourism & Resort Management options.

Prerequisites: BA 221, BA 260.

### **BA 317 Technical Analysis-Securities (3-0) 3**

This course teaches the practical application and theoretical principles of technical analysis techniques. Technical analysis is the study of market action, primarily through the use of charts and indicators for the purpose of forecasting future price trends. The course is focused on equity markets.

Prerequisites: BA 380.

### **BA 325 Competitive Intelligence (4-0) 4**

This course teaches the practical application and theoretical principles of competitive intelligence techniques. Topics include the importance of intelligence in business, legal and ethical issues, the intelligence cycle (planning,

collection, analysis, and dissemination), managerial and marketing intelligence, analysis of scientific and technical information, foreign intelligence collection, and business security/counterintelligence. Discussion and practice cover analytical models and tools, use of information sources, and primary research methods. Note: This course does not count for credit toward the CSIS major. Same course as CSIS 325.

Prerequisites: CSIS 322.

### **BA 330 Tourism and Resort Management (4-0) 4**

An introductory course covering the scope, organization and environment of the domestic and international tourism and resort industry. Topics to be covered include industry components, supply and demand, motivation and sociology, economics, public policy and environmental issues, and current leadership and management challenges facing the industry.

Prerequisite: Junior standing.

### **BA 339 Selling (3-0) 3**

This course focuses on the relationship between buyer and seller, the selling process, buyer behavior, negotiations, and the communication process.

Prerequisite: BA 340.

### **BA 340 Marketing (4-0) 4**

The course stresses marketing activities from a managerial perspective. It includes the marketing of goods and services and ideas in both business and non-business organizations. There is an emphasis on concepts of marketing and application of these concepts in decision-making and managing marketing variables in a dynamic domestic and international environment. Marketing principles are applied in a computerized industry game and/or cases.

Prerequisite: Junior standing.

### **BA 342 Retailing (3-0) 3**

An introduction to retailing from the management point of view: study of retail policies and organization, the operation of the buying and selling functions, merchandise control, store systems, personnel management, retail accounting and expense control.

Prerequisite: BA 340.

### **BA 344 Advertising (3-0) 3**

This is an introduction to advertising that covers the structure and role of advertising agencies and the interaction between client and agency. The process of creating and placing advertising is explored including: advertising objectives, budgeting, media planning and mix, creative objectives and strategies, copy execution, production, and testing. This course presents a basic understanding for those students pursuing a career in advertising and enables those pursuing other career paths to effectively evaluate and use the services provided by advertising specialists.

Prerequisite: BA 340.

### **BA 346 Managing Customer Value (4-0) 4**

This course establishes the strategic marketing structure for a firm's ability to combine and manage the dimensions of product/service quality, customer service, and price in a way to create an enduring competitive advantage. The course uses lectures, discussions, cases, and spreadsheet analyses to achieve its objective.

Prerequisite: BA 340.

### **BA 347 Consumer Behavior (3-0) 3**

This course explores behavioral theory as it relates to consumer and industrial decision processes. Relevant concepts and recent research findings are drawn from the fields of marketing, psychology, sociology, and communications. Applications of these ideas is directed toward improving marketing management and decision-making.

Prerequisite: BA 340.

### **BA 348 Public Relations (3-0) 3**

This course will introduce students to the marketing and managerial functions of public relations, the public relations process, and techniques of message preparation for a variety of media.

Prerequisite: BA 340.

### **BA 353 Operations Management (3-2) 4**

Concepts and methods for economical planning and control of activities required for transforming a set of inputs into

specified goods or services. Emphasis is given to forecasting, decision analysis, cost analysis, design of production systems, production/marketing relationships, operations planning and control, and the importance of global competitiveness.

Prerequisites: Either BA 253, Psych 241 or Math 201 and BA 221 and BA 301, or CSIS 110.

### **BA 357 Studies in Operation Management (3-2) 4**

A study of selected topics in operations management. This course's content will vary. Students may take this course more than once, provided the subject is different on each occasion. Some examples of different subjects are: Computer Applications in Decision-making; Quality and Productivity; Transportation and Logistics; Purchasing; Project Management; Forecasting.

Prerequisite: BA 301.

### **BA 360Q Introduction to Operations Research (4-0) 4**

Overview of optimization techniques used in operations research. Topics include linear programming, network flow, transportation problems, queuing theory, inventory models, PERT and CPM, dynamic programming, use of statistical computer packages. (This course is the same as Math 360Q.)

Prerequisite: Math 210Q or Math 221Q and Math 201Q or BA 253 with a grade of C- or better.

### **BA 370 Topics in International Business 1-6**

An examination of selected topics and issues pertaining to the international marketplace. Students may take this course one or more times for credit, provided the subject is different on each occasion.

Prerequisites: Junior standing or consent of instructor.

### **BA 372W Global Business Seminar (4-0) 4**

The Global Business Seminar addresses the unique issues, challenges and opportunities in the global business community. The strengths and weaknesses of current developments and trends of business globalization are examined in a context of social, cultural, political, economic, and environmental concern.

Prerequisite: BA 221.

### **BA 375 Studies In European Business 3-18**

This course provides appropriate credit for studies completed in one of SOBA's Trimester Abroad programs with European partner schools. It may be repeated once for credit. The exact number of credit hours awarded will be determined by the Dean after review of the study program completed.

Prerequisite: Consent of instructor.

### **BA 380 Financial Management (4-0) 4**

An introductory course focusing on financial analysis and decision-making, including time value of money, valuation of stocks, bonds, and other securities, investment risk management, capital budgeting, cost of capital, and long and short-term financing for firms competing in a global business environment.

Prerequisites: Junior standing, Acc 226, BA 221, and Econ 266S.

### **BA 382 Financial Institutions (4-0) 4**

Provides a descriptive and analytical understanding of the structure and operation of financial institutions and markets using both historical and international perspectives. Topics examined include the major categories, the role of the central bank, and interest and exchange rate theories. This course is the same as Econ 382. Credit will not be awarded for both BA 382 and Econ 382.

Prerequisite: BA 380.

### **BA 386 Insurance (4-0) 4**

A study of the types of coverage, buying strategies, and various types of insurance companies. Emphasis is placed on insurance contracts, risk management programs, fire, marine, casualty, business property and liability, life, and other type of insurance.

Prerequisite: BA 380.

### **BA 387 Real Estate (4-0) 4**

An introductory course providing a foundation for those interested in real estate as a professional career, an investment mechanism, or simply as home ownership. Topics covered include legal considerations for listing, sale and transfer of real property rights, the regulation, practices and legal ethics of real estate agents, and the appraisal, investment analysis and financing techniques of real property.

### **BA 389 International Finance (4-0) 4**

This course is concerned with the financial management of a multinational corporation. Special consideration is given to foreign exchange risk management, investment analysis, capital budgeting, capital structure and working capital management.

Prerequisites: BA 380 and BA 271.

### **BA 401W Entrepreneurship and Small Business Management (3-0) 3**

How to conceive, initiate, organize, manage and operate a small business.

Prerequisites: BA 221, BA 340, BA 353 and BA 380, senior standing or consent of instructor.

### **BA 402 Electronic Commerce (4-0) 4**

This course introduces the student to the technical and business considerations for creating a business web site. Technical considerations include web site design and structure strategies, web security, EDI and payment system implementation and development of business strategy and digital nervous systems within the business environment. This course is best suited to upper level business or computer science majors. This is the same course as CSIS 402; credit will be given for only one of these courses.

Prerequisite: CSIS 322.

### **BA 407W Management Consulting (2-4) 4**

The study of the concepts and models of management consulting and their application in business organizations. Emphasis is on practical application and the use of relevant tools and techniques. Students are required to engage in consulting services.

Prerequisites: BA 221, 340, 353, and 380, senior standing and consent of instructor.

### **BA 415 Management in Action 3-6**

The study of management principles and their application through research, plant visits and on-site interviews with top management personnel.

Prerequisites: BA 301 and consent of instructor.

### **BA 437 Internship in Business 3**

Directed experience working in a business organization performing professional duties and responsibilities. Specific requirements will depend on the supervising college faculty member but include, as a minimum, the keeping of a detailed journal and the completion of a term paper. A minimum of 150 hours of directed experience will be required, however, normally students complete 200-300 hours. The student's performance will be evaluated by his/her supervisor in the business organization as well as the assigned college faculty member.

Prerequisites: Business majors having completed 80 semester hours and consent of instructor.

### **BA 439 Marketing and Management of Services (4-0) 4**

The integration and application of relevant business theories, techniques, and skills to industry issues and problems through lectures, cases and a major project. Areas of emphasis will include the strategic service vision, operational strategies and operations management, law, service delivery systems, marketing, people and the service culture, quality control, management accounting, financial management, as well as the global implications of services management.

Prerequisites: Senior standing, BA 340 and BA 353.

### **BA 445W Marketing Strategy and Policy (4-0) 4**

An integrated course in marketing strategy and policy, employing comprehensive case problems in the formulation of marketing action programs and business policy. Heavy emphasis is placed on the writing and presentation of marketing plans.

Prerequisites: BA 340, BA 380 and senior standing.

### **BA 446 Marketing Research (3-2) 4**

This course provides students with a knowledge base and skills for planning and conducting a research project as the basis of making efficient, effective and ethical marketing decisions. A special emphasis is placed on the marketing research process to study behavior in the marketplace via exploratory approaches such as focus groups and more systematic approaches such as surveys.

Prerequisites: BA 253 and BA 340.

### **BA 481W Cases in Financial Management (4-0) 4**

This course will apply the tools learned in BA 380 to a variety of business problems and cases. Areas of analysis will not be confined to finance but will include decision making in marketing, management, etc., realizing the interdisciplinary reality of business.

Prerequisites: BA 221 and BA 380.

### **BA 485 Investments and Portfolio Management (4-0) 4**

Analysis of various investment theories is accompanied by a study of the securities markets. Areas of emphasis would include analysis and valuation of stocks, and derivative securities, implications of diversification for return and risk of a portfolio, and strategies for the management of portfolio risk.

Prerequisites: BA 380.

### **BA 496 Senior Seminar in Strategic Management (4-0) 4**

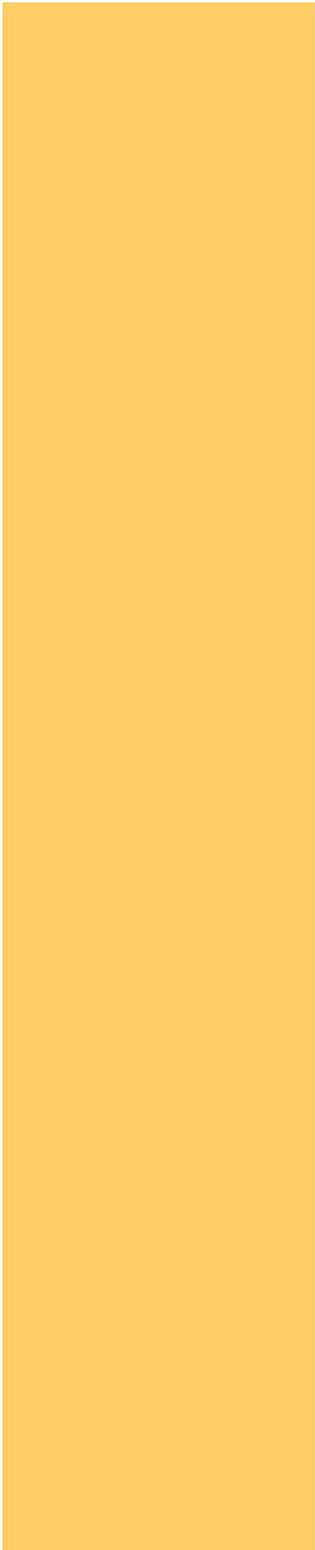
The integration of managerial theories, techniques and skills, provides vicarious experiences and research in administrative decision making, policy, strategy and tactics. Emphasis is on the total organization and its internal and external relationships and responsibilities. Cases analyzing firms ranging from small to large, local to international and profit to not-for-profit are covered. An appropriate term paper is required.

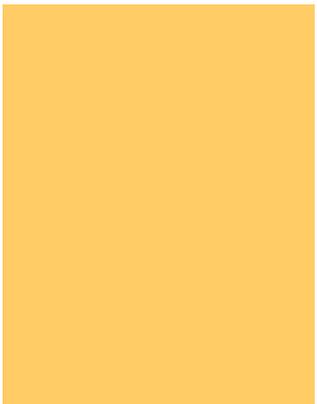
Prerequisites: Senior standing and completion of Acc 225, Acc 226, Econ 266S, BA 221, BA 253, BA 260S, BA301, BA 340, BA 353, BA 380, and BA 446W or Econ 361 or Math 210 or Math 221 or Math 350 or Math 360.

### **BA 499 Independent Study 1-3**

Individual research is conducted under the supervision of a faculty member.

Prerequisite: Approval of the Dean of SOBA.







# Campus Life

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Fort Lewis College provides the best possible social and physical environment to foster the academic, cultural, and personal development of each student. The Office of the Vice President for Student Affairs is responsible for the coordination of various student services programs.

**Alumni Association**

**Athletics**

**Career Services**

**Counseling Center**

**Disability Services**

**Health Center**

**Identification Cards**

**Police Department**

**Recreational Services**

**Student Conduct Code and Disciplinary Action**

**Student Housing and Conference Services**

**Union and Activities**

## ALUMNI ASSOCIATION

The Alumni Association of Fort Lewis College is becoming more active both as a service organization and as a means of helping former students enjoy memories of their college days. The Association supports the College in many areas, such as providing scholarships, funding special programs, and assisting with graduate placement. Regularly published newsletters contain information about former classmates, activities, and projects that help the College. Among these are sponsorship of admission activities, social functions, and athletic events; placement assistance; and financial support. You may obtain more information by emailing [alumni@fortlewis.edu](mailto:alumni@fortlewis.edu) or calling 970-247-7427.

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## ATHLETICS

Fort Lewis College has a comprehensive intercollegiate athletic program. The College fields women's teams in basketball, cross-country, soccer, softball, and volleyball. Men's teams include basketball, cross-country, football, golf, and soccer. The Skyhawks compete against four-year colleges and universities from Colorado and the western region. Fort Lewis is a member of the National Collegiate Athletics Association (Division II) and the Rocky Mountain

Athletic Conference.

Facilities include tennis courses, softball fields, gymnasium, football stadium, track, weight room, and swimming pool. Located adjacent to campus are a municipal golf course and a ski hill.

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## **CAREER SERVICES**

The Career Services Office at Fort Lewis College offers many services and programs to students. Students are encouraged to begin using the services during their freshman year. The services range from career counseling (such as selecting a major, developing self-awareness, values, interests and skills) to job search skills (such as resume development, interview techniques, letters in the job search, and how to conduct an effective job search).

In addition, vocational assessment inventories are available to help the students gain knowledge of career patterns. A computer program called FOCUS allows students to work at their own pace while exploring career issues.

Information about graduate schools can be obtained through graduate directories. Brochures about registration for graduate school exams are available to students in the Career Resource Center.

The Career Resource Center is open to all students to use during regular hours. Vacancies throughout the country and world, salary information, career guidance, and employer and occupational information are readily available in the Resource Center.

Students seeking part-time internships, volunteer experiences, professional positions, or local positions can receive help in the Career Services Office. Many employers contact the office to announce openings.

Students obtain services by scheduling an appointment with a trained career counselor, by attending workshops, or by exploring resources on their own. Many self-help materials are available.

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## **COUNSELING CENTER**

Counseling services at Fort Lewis College are based on the philosophy that personal/emotional development is an integral part of a student's intellectual development. The Counseling Center has a professional staff of counselors committed to implementing this philosophy. The primary goals of the Counseling Center are to provide:

- ◆ An academic support system to help students overcome obstacles in their academic programs.
- ◆ A counseling service to help students cope with crises or other immediate needs in their lives.

◆ An educational service to promote positive personal development.

◆ A support and information/referral service.

Personal counseling is confidential and is offered through individual and small group counseling. It is intended to be supportive to assist students in solving their problems of a short-term nature. Services are free to students on a short-term basis. There is a charge for therapy after a set number of sessions and for testing services. Substance abuse evaluation and educational services are available through the counseling center on a fee basis. If additional services are needed, students can be referred to the Health Center, appropriate mental health agencies, or practicing professionals in the community.

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## **DISABILITY SERVICES**

Fort Lewis College provides equal access to educational opportunities in accordance with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990. Reasonable accommodations and modifications are made on an individual basis. This allows qualified students with disabilities to have an equal opportunity to participate in or benefit from the programs and activities provided by Fort Lewis College.

Modifications of specific academic requirements may be made as long as they do not substantially alter the fundamental nature of an activity or program of study.

It is the responsibility of the student to contact Disability Services and to submit current and complete documentation, as specified in Fort Lewis College documentation guidelines, to verify the disability. Documentation guidelines are available through this office.

Students desiring accommodations are advised to contact Disability Services as early as possible after being admitted so that accommodations and services may be arranged in a timely manner.

### **Services and Accommodations Offered**

Disability Services provides accommodations on a case-by-case basis. Accommodations may include, but are not limited to, readers, interpreters, scribes, access to notes, testing modifications, alternative text formats and assistive technology. Referrals to on-campus programs and community agencies are also part of the services.

Policies and procedures regarding the arrangement of appropriate accommodations for a disability are available through this office.

A campus accessibility map indicating the location of restrooms, elevators and handicapped parking spaces is also available. For more information contact Disability Services. [Email: sugnet\\_c@fortlewis.edu](mailto:sugnet_c@fortlewis.edu)

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## HEALTH CENTER

Miller Student Center

Hours: 8:30 a.m. - 4:30 p.m.

Monday - Friday

Phone: 247-7355

Fax: 247-7621

After hours, call: 247-2611

### Health Center Services

The Health Center is an outpatient medical clinic that provides confidential comprehensive health care, health promotion, and education to Fort Lewis College students. A physician's assistant, nurses, an administrative assistant, and part-time physicians staff the Health Center. The Health Center provides:

- ◆ Complete general medical, minor surgical, nursing, and emergency care for most illnesses and injuries
- ◆ Annual female GYN exam and Pap
- ◆ Intercollegiate sports physicals
- ◆ Routine physicals for jobs or other schools
- ◆ Birth Control Services: birth control pills, condoms, diaphragm fitting, Depo Provera, Lunelle, spermicide, and emergency contraception
- ◆ Immunizations: MMR as required by Fort Lewis College for registration, Tetanus, Hepatitis A, Hepatitis B, Typhoid, Polio, Meningitis, Flu vaccine
- ◆ Laboratory services, including blood tests, strep tests, chlamydia, yeast, STD tests, Pap smears, urinalysis, pregnancy tests, mono, HIV, tuberculosis tests
- ◆ Minor surgical procedures, i.e., wart/mole removal, stitches, etc.
- ◆ Health promotion, education, and natural herbal and vitamin medications
- ◆ Counseling and medication management of psychological conditions

- ◆ Smoking cessation education and support
- ◆ Colposcopy § Ear irrigation
- ◆ IV therapy for dehydration
- ◆ Travel education and immunizations
- ◆ Allergy antigen administration-patient supplies own antigen as prescribed by personal physician
- ◆ Assistance in securing appointments with physicians, dentists, and other practitioners
- ◆ Assistance with student health claims State of Colorado law and Fort Lewis College require that all students born after January 1, 1957, provide proof of TWO Measles, Mumps, and Rubella (MMR) immunizations after their first birthday. Students can receive the MMR at the Health Center for a small fee.

### **Student Health Insurance**

Student Health Insurance is available through an independent carrier at group rates. Insurance may be purchased at the beginning of each trimester. Students are encouraged to carry some medical/accident insurance, either through the Fort Lewis College insurance program or a private program. The Health Center staff will assist with insurance claims.

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### **IDENTIFICATION CARDS**

A Fort Lewis College Identification Card is required of all students, and is necessary for access to many campus facilities and campus events. This card must be carried at all times and presented when requested by College officials. It is the responsibility of the student to replace a lost ID card immediately. ID Cards can be obtained at the ID Office, located in Miller Student Center, Room 149.

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### **POLICE DEPARTMENT**

The Fort Lewis College Police Department, in partnership with the campus community, is responsible for public safety, campus parking enforcement, law enforcement, after-hours emergency maintenance (notification of Physical Plant Services staff), and emergency response. The Fort Lewis College Police Chief/Director and six police officers are Commissioned Peace Officers through the State of Colorado, the City of Durango, and the La Plata County Sheriff's Department; they receive the same training given to any police officer in the State of Colorado as required

by the Colorado Peace Officer Standards and Training Board. Fort Lewis College police officers enforce all federal, state, local laws/ordinances, and official College policies, and have full arrest authority. The Police Department operates 24 hours per day, seven days per week, and is staffed with an administrative assistant during regular business hours, Monday through Friday, in Berndt Hall, Room 534; phone: (970) 247-7491.

## **Guns and Weapons**

Weapons of any kind (functional or not), ammunition, explosive substances or chemicals, or any other incendiary devices are expressly prohibited on the Fort Lewis College campus, including all on-campus residential facilities. Items specifically prohibited include, but are not limited to, the following: explosive or incendiary devices, sheath knives, stilettos, switch-blades, dirks, daggers or pocket knives with blades over three and one-half inches in length, firearms of any description, BB or pellet guns, bows and arrows, crossbows, any device capable of propelling a projectile, and any other item or object deemed potentially harmful by the Fort Lewis College Police Department. When in doubt, contact the Fort Lewis College Police Department in Berndt Hall, Room 534; phone: (970) 247-7491.

## **Motor Vehicles**

All students, faculty, staff, and others who park a vehicle on campus. **MUST PURCHASE A PARKING PERMIT.** Students may purchase permits at the Cashier's Office in Berndt Hall or at the Information Desk in the College Union Building.

The College expects strict compliance with the state, city, county and campus traffic rules and regulations from all students, faculty, staff and visitors. The registered vehicle owner is responsible for parking fines even if he/she is not driving the vehicle. Visitor spaces are for visitors' vehicles only.

If you have any questions or special needs, you are encouraged to contact the Fort Lewis College Police and Parking Services Department, located in Berndt Hall, Room 534; phone: 247-7491.

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## **RECREATIONAL SERVICES**

### **Student Life Center**

The Student Life Center (SLC) is a 48,000-square-foot recreation facility. The facility has a three-court gymnasium, aerobics/dance studio, free weight/cardio area, racquetball court, and a state-of-the-art climbing wall. Program areas include Club Sports, Fitness, Intramurals, and Outdoor Pursuits.

### **Club Sports**

The club sports that are currently active are baseball, triathlon, soccer, skiing, cycling, lacrosse, track & field, rugby, ultimate Frisbee, and dance. These clubs compete both locally and nationally against other club teams from other

colleges and universities.

## **Fitness**

The fitness program provides incentives and education to individuals interested in achieving a desirable level of physical fitness. The Student Life Center invites students and members to participate in a fitness incentive program, group exercise classes, and weight room orientations. Yoga classes, Personal Trainer Sessions, and First Aid/CPR certifications are offered for a nominal fee.

## **Intramurals**

The Intramural program offers a wide variety of individual, dual, and team sports. Team sports include flag football, indoor and outdoor soccer, softball, basketball, and volleyball. In addition to leagues, Intramurals offers a variety of special events tournaments, such as bombardment, three-on-three, badminton, arena flag football, doubles volleyball, two-on-two basketball, one-pitch snow softball, and fast-pitch softball. A mountain bike series is also held every fall.

## **Outdoor Pursuits**

The Outdoor Pursuits program offers a wide range of outdoor recreation and skill-building activities for students. Two professional staff members guide trips such as rock climbing, rafting, kayaking, backcountry skiing/riding, avalanche safety training, backpacking, mountaineering, peak climbing, and mountain biking. Outdoor Pursuits can also provide maps, expert advice, reading material, and other resources to plan individual adventures. Additionally, Outdoor Pursuits oversees the management and operation of the climbing wall. Unlimited use of outdoor equipment is available by reservation for a modest yearly user fee. Outdoor Pursuits also houses extensive professional bicycle repair and ski/board tuning benches. The primary goal of the Outdoor Pursuits program is to facilitate students' exploration of the open-air wonders of the Four Corners region.

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## **STUDENT CONDUCT CODE AND DISCIPLINARY ACTION**

Fort Lewis College is charged with providing a quality liberal arts education for its students, as well as providing leadership opportunities and career preparation. The College is thus responsible for creating and maintaining an environment that is conducive to the pursuit of learning and to the development of students as scholars and citizens. College regulations and policies are necessary to safeguard the mission of the College, ensure the integrity of the educational system, and thus protect the freedom of students to learn without undue interference or disruption by others.

Students at Fort Lewis College must accept their responsibilities, individually and collectively, for the maintenance of this environment. To meet these responsibilities, students are expected to exhibit at all times self-discipline and standards of personal conduct that demonstrate maturity, good judgment, and respect for persons, property, and the rights of others. Behavior that threatens the safety of individuals/groups, disregards property, or violates the basic

mission of the College will not be tolerated.

Students at Fort Lewis College are representatives of the institution. As members of the College and the community, students are expected to observe all federal, state, and local laws and ordinances.

It is the student's responsibility to be familiar with and abide by the Student Conduct Code. Violations of the Student Conduct Code may result in disciplinary action. A hard copy of the code can be obtained from the Student Affairs Office, 170 Berndt Hall.

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## **STUDENT HOUSING AND CONFERENCE SERVICES**

Seven residence halls and two apartment complexes house about one-third of the College's student population. An important goal of the student housing system is to provide an environment that supports the values inherent in academic achievement, as well as gender, ethnic, and cultural diversity. In addition, student housing provides opportunities for social and recreational needs, coupled with opportunities to learn developmental skills to promote good citizenship.

In keeping with these goals and tenets of student development theory, the College requires first-time freshmen, men and women, to live in campus residence halls as space is available for two academic trimesters. Housing assignments are made on a first-come, first-served basis. Freshmen who are married/divorced, 21 years of age or older, veterans, or who will live with parents or relatives in the Four Corners area may petition the Student Housing Office in writing for exemption to the residency requirement.

New applicants for campus housing are assigned to a residence hall or apartment according to date of application (with required deposit).

Students who wish to continue living on campus the next academic year must reapply for housing. Spaces will be assigned on a first-come, first-served basis. Students may request roommates and room location from those available. Detailed information regarding this procedure is available in the Student Housing and Conference Services Office.

### **To Apply for Campus Housing**

When students receive their acceptance by the College, they should then apply for campus housing. A \$100 deposit is required with the appropriate application. The Housing Agreement covers both the fall and winter trimesters of an academic year (8 months).

Fort Lewis College has a traditional approach to residence hall living. Resident students receive keys that permit them entrance to their halls and rooms. Residents are expected to live by the rules and regulations as outlined in the Housing Agreement, the Guide to Residence Living, and the Fort Lewis College Student Conduct Code.

The residence hall/apartments are staffed by Residence Directors, Assistant Residence Directors, and Resident Assistants (RAs), who promote a pleasant living environment, conducive to study. They are an added resource for students as they adjust to the collegiate community. The Student Services staff also provides social and educational activities on and off campus to foster personal growth and development.

All campus living is a learning experience, and the Fort Lewis College Residence Hall program is predicated on this principle. Our mission is carried out in an educationally responsible manner and is dedicated to providing healthy and relaxed places for all resident students.

### **Off-Campus Housing**

Off-campus housing is available through the Fort Lewis College Information Desk. This service maintains a bulletin board in the CUB Lobby with up-to-date listings of rooms, houses, apartments, and mobile homes available for rent.

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## **UNION AND ACTIVITIES**

### **College Union Building**

The College Union Building (CUB), located on the southeast corner of the campus, is the central meeting area for students, offering lounges, meeting rooms, food services, and student services offices. The CUB is the central location for co-curricular learning, socializing, and relaxing. ASFLC (student government), Bookstore, Dining Services, Environmental Center, Facilities Scheduling, Information Desk, Independent newspaper, KDUR-FM radio, Post Office, SPOT, Student Wellness Program, and Union and Activities all have offices in the CUB.

### **Associated Students of Fort Lewis College (ASFLC)**

The Associated Students of Fort Lewis College (ASFLC) was established as the Fort Lewis College Student Government to assure Fort Lewis College students a representative governance system. By representing Fort Lewis College students, the ASFLC President, Vice President, Financial Director and Senate assist with administrative, academic, legislative, cultural, co-curricular and social issues. The ASFLC Senate also advocates the autonomy of student organizations, promotes education through constructive dialogue, and allocates student fees in the most responsible and effective manner possible. The ASFLC Senate allocates the student activity fee money to support the following programs and activities: clubs and organizations, Environmental Center, Fourth Wall Productions, Independent, Intramurals, KDUR, LIFT, Legal Aid, Outdoor Pursuits, SPOT, Wanbli Ota, and more.

The student body elects the ASFLC president, vice president, and 15 senators. The Senate is divided into the following committees: Budget, Constitution, Elections, Legislative Affairs, Line Item Audit, and Student Services. Numerous student-at-large appointments are made by the ASFLC to various campus committees. All Senate meetings are open to Fort Lewis College students, and students are encouraged to attend or stop by the ASFLC offices in the CUB.

## **Bookstore**

Besides stocking required course textbooks, the bookstore offers a wide selection of leisure reading books, school supplies, art materials, clothing, gift items, and snack foods. Computer hardware and software are also for sale or can be ordered. The store is open from 7:30 a.m. to 4:30 p.m., Monday through Friday, with special extended hours during the first week of the fall and winter trimesters.

## **Environmental Center**

The Environmental Center (EC) at Fort Lewis College is a resource for social and ecological awareness, dialogue, and activism in the college community and surrounding region. Student staff, volunteers, and interns operate the Center under the direction of a full-time Coordinator. A student majority Board of Directors, including faculty, staff, and a community representative, governs the Center. EC projects include sponsoring events such as Earth Week; publishing the newsletter, "Green Freedom;" maintaining a resource library; coordinating campus recycling education; and supporting student projects on a variety of environmental issues. The EC networks with other environmental organizations, faculty, and community groups to provide research opportunities as well as hands-on learning experiences on and off campus. Phone: (970) 247-7676. Website: [envcenter.fortlewis.edu/](http://envcenter.fortlewis.edu/)

## **Information Desk**

The Fort Lewis College Information Desk is the headquarters for the campus lost and found, general information, campus maps, parking permit sales, SPOT ticket sales, "LIFT" bus stickers, course schedule sales, printing of academic schedules, registered student organization forms, and more.

## ***Independent Newspaper***

The Independent is the student-managed newspaper published every Friday during the fall and winter trimesters. Students can earn credit and valuable job experience by working on the "Indy" staff as writers, photographers, editors, artists, advertising salespersons, and production workers. The Independent covers campus, local, and national news, sports, entertainment, and other special events that affect students and the campus community. Website: [indy.fortlewis.edu/](http://indy.fortlewis.edu/)

## **KDUR-FM Radio**

KDUR is the Fort Lewis College community radio station operated by a professional staff, Board of Directors, and a host of student and Durango community volunteers. Students can earn academic credit for director positions held at the station in news, training, computer, promotions, production; or for two paid positions, music and operations; or simply volunteer their time as a disk jockey. The station reflects the diversity of the campus and Durango community through the alternative and progressive programs, news, and music it broadcasts. KDUR is an affiliate of Public Radio International and Pacifica Radio. Students can also tune in to 91.9 FM in Durango or 93.9 FM in surrounding areas for a truly eclectic listening experience.

## **Post Office**

Fort Lewis College operates a full-service U.S. Post Office in the College Union Building. Students living on campus receive their mail and UPS parcels at the Post Office via assigned mailboxes. FAX service is available to students for a minimal fee. Students living off-campus may rent a mailbox for a small annual fee. Retail sales hours are Monday-Friday, 9 a.m.-4 p.m., (970)-247-7542.

### **SPOT (Student Programming and Other Things)**

SPOT's mission is to positively contribute to the cultural diversity on campus and to bring quality programs to the Fort Lewis College community. SPOT embraces the controversial, educational, experiential and thought-provoking in college programming. Members solicit input from the Fort Lewis College community and provide activities to enrich life on and off campus.

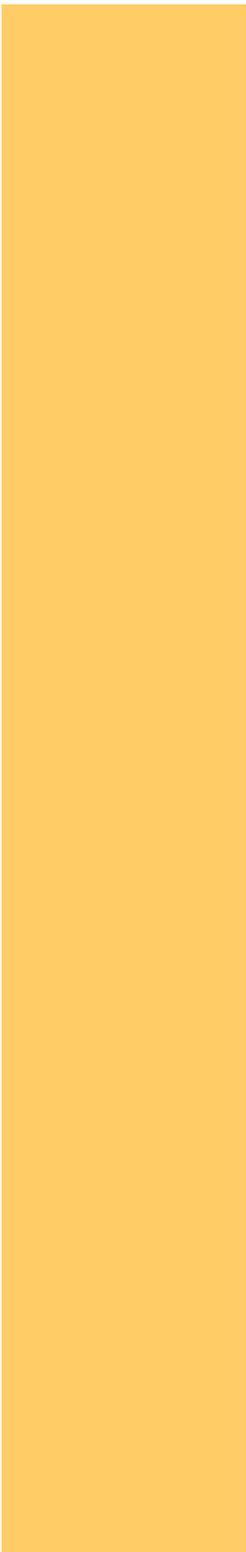
### **Student Wellness Program**

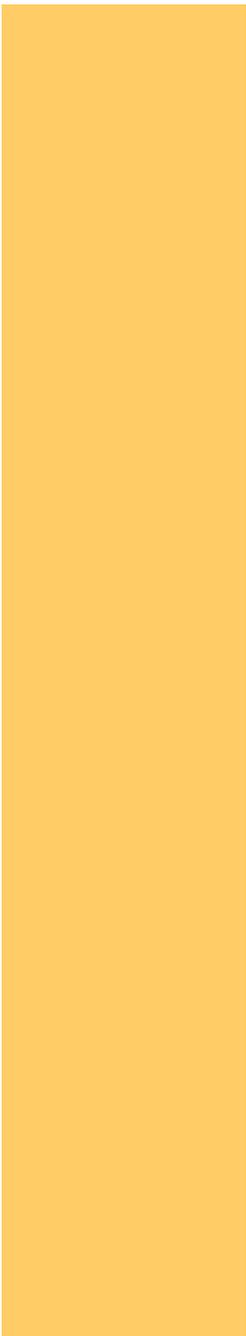
The Student Wellness Program is the health education, health promotion, and prevention center for campus. The Program schedules presentations and events in residence halls, the College Union Building and various classrooms in order to promote a campus environment where health-enhancing behaviors are the norm. Students who are interested in volunteering in the community, being a member of US (Uniting Students with wellness in mind), or organizing campus programs are invited to stop by the office, located in the College Union Building, Room 103 (right behind the Information Desk). Phone: 247-7153.

### **Union and Activities Office**

The Union and Activities Office provides assistance to the ASFLC, Environmental Center, KDUR, SPOT, Student Wellness Program, and all other student clubs and organizations regarding the development of co-curricular programs. By helping students coordinate lectures, concerts, films, special events, fundraisers, theme weeks, and much more, the Union and Activities Office maintains close contact with students to assist them as they actively create the character of Fort Lewis College. The office is also involved with several campus-wide events, such as Student Orientation, Homecoming/Parents Weekend, and Commencement Ceremonies.

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**Accounting:**

Acc 432 Tax Planning and Research (3-0) 3  
Acc 434 Advanced Accounting (4-0) 4  
Acc 435 Survey of Accounting Theory Trends (4-0) 4  
Acc 436W Auditing-Theory and Practice (4-0) 4  
Acc 470 Governmental/Not-For-Profit Accounting (4-0) 4  
BA 499 Independent Study 1-6

**Agriculture:**

Agriculture Ag 101Tx Introductory Animal Science (3-3) 4  
Ag 102 Principles of Crop Production (3-3) 4  
Ag 150 Farm Records and Accounts (3-0) 3  
Ag 180 Sustainable Agriculture (3-0) 3

**Anthropology:**

Anth 299 Individualized Study 1-6  
Anth 300 Proseminar in Anthropology (2-0) 2  
Anth 302 Research Issues in Evolutionary Anthropology (2-0) 2  
Anth 303W Anthropological Debates (4-0) 4  
Anth 306 Plains Archaeology (4-0) 4  
Anth 309 Archaeology of Britain (4-0) 4  
Anth 310 Geoarchaeology (4-0) 4  
Anth 455 Advanced Research in the Anthropology of Gender (2-0) 2  
Anth 496 Senior Capstone Seminar in Anthropology (2-0) 2  
Anth 499 Independent Study 2-4

**Art:**

Art Art 101 Drawing (1-6) 4  
Art 109 Basic Design (1-6) 4  
Art 154 Indian Arts and Crafts I (0-6) 3  
Art 162R Art in the Humanities (3-0) 3  
Art 201 Figure Drawing (0-6) 3  
Art 365 Mesoamerican Art History (3-0) 3  
Art 366 Women, Art and Visual Culture (4-0) 4  
Art 367 American Art History: The Colonial Era to the 1930s (3-0) 3  
Art 385W Contemporary Art Process, Theory, and Criticism: Reading, Writing, and Making (4-0) 4  
Art 401 Interpretive Drawing (0-6) 3  
Art 413 Advanced Sculpture II (0-6) 3  
Art 424 Advanced Painting II (0-6) 3  
Art 425 Advanced Painting, Portrait, and Figure (0-6) 3  
Art 431 Advanced Printmaking II (0-6) 3  
Art 443 Photographic Design (0-6) 3  
Art 450 Advanced Ceramics II (0-6) 3

**Biology:**

Bio 321 General Physiology (3-3) 4  
Bio 324 Mammology (3-3) 4  
Bio 331 Microbiology (3-3) 4  
Bio 332 Immunology (3-3) 4  
Bio 334 Ornithology (3-3) 4

Bio 341 Vertebrate Comparative Anatomy (3-3) 4  
Bio 342 Embryology & Developmental Biology of the Vertebrates (3-3) 4  
Bio 350 Mycology (3-3) 4  
Bio 360 Bryophytes and Lichens (3-3) 4

**Business Administration:**

BA 308 Office Management (3-0) 3  
BA 311 Business Law I (3-0) 3  
BA 312 Business Law II (3-0) 3  
BA 313 Ethical Issues in Business (3-0) 3  
BA 315 International Business Law (3-0) 3  
BA 316 Tourism and Recreation Law (3-0) 3  
BA 317 Technical Analysis-Securities (3-0) 3  
BA 325 Competitive Intelligence (4-0) 4  
BA 439 Marketing and Management of Services (4-0) 4  
BA 445W Marketing Strategy and Policy (4-0) 4  
BA 446 Marketing Research (3-2) 4  
BA 481W Cases in Financial Management (4-0) 4  
BA 485 Investments and Portfolio Management (4-0) 4  
BA 496 Senior Seminar in Strategic Management (4-0) 4  
BA 499 Independent Study 1-3

**Chemistry:**

Chem 431 Advanced Organic Chemistry (3-0) 3  
Chem 454 Advanced Topics in Chemistry 1-4  
Chem 460 Synthesis Techniques (1-6) 3  
Chem 464 Advanced Inorganic Chemistry (3-0) 3  
Chem 465 Instrumental Analytical Chemistry (3-3) 4  
Chem 496 Senior Seminar (1-0) 1  
Chem 497 Senior Seminar (1-0) 1  
Chem 499 Independent Study 1-6

**Computer Science Information Systems:**

CSIS 332 Java Programming for the Internet (2-4) 4  
CSIS 340 Comparative Programming Languages (4-0) 4  
CSIS 350 Database Management Systems (4-0) 4  
CSIS 360 Software Engineering I: Systems Analysis (4-0) 4  
CSIS 361W Computers And Human Issues (4-0) 4

**Economics:**

Econ 364W Macroeconomics Theory (4-0) 4  
Econ 369 Public Finance (4-0) 4  
Econ 370 Topics In International Economics 1-6  
Econ 371 International Economics (4-0) 4  
Econ 381 Economics Of The Health Care Industry (4-0) 4  
Econ 382 Financial Institutions (4-0) 4  
Econ 410 Economics, A Radical Perspective (4-0) 4  
BA 499 Independent Study 1-6

**Education:**

Ed 426 Mathematics And Social Studies Methods For Elementary School (3-2) 4  
Ed 451 Preschool Teaching Practicum And Multicultural Seminar (2-2) 3  
Ed 452 Nutrition For Young Children (3-0) 3  
Ed 453 Cognitive Skills For The Young Child (3-2) 4  
Ed 456 Early Childhood Administration/Parent, Community Relations (2-1) 3  
Ed 457 Secondary Education Core Of Satellites 5

**Engineering:**

Engr 305 Surveying II (2-4) 4  
Engr 317 Mechanics Of Materials (3-0) 3  
Engr 321 Fluid Mechanics (3-0) 3  
Engr 499 Independent Study 1-6

**English:**

Engl 116T Introduction To Mass Communications (4-0) 4  
Engl 126 The Bible As Literature (The Hebrew Bible) (2-0) 2  
Engl 127 The Bible As Literature (The Christian Testament) (2-0) 2  
Engl 173R 20th Century Asian And African Literature (4-0) 4  
Engl 174R African-American Literature (4-0) 4  
Engl 175R Women's Literature (4-0) 4  
Engl 180N Literature of the Environment (4-0) 4  
Engl 378 Young Adult Literature (4-0) 4  
Engl 380 Native American Literature: Topics (4-0) 4  
Engl 404 Advanced Video Production (4-0) 4  
Engl 416 Media Theory And Criticism (4-0) 4  
Engl 417 Media Theory: Topics (4-0) 4  
Engl 420 World Literary Traditions: Topics (4-0) 4  
Engl 423 Genres: Topics (4-0) 4  
Engl 430 Medieval Literature And Chaucer: Topics (4-0) 4  
Engl 432 Shakespeare (4-0) 4  
Engl 450 Internship In Newspaper 1-6

**Exercise Science:**

ES 235 Officiating Basketball (1-0)  
ES 237 Officiating Softball (1-0) 1  
ES 238 Officiating Soccer (1-0) 1  
ES 240 Clinical In Manual Muscle Testing (0-2) 1  
ES 243S Personal Health (3-0) 3  
ES 250 Teaching Competencies In Tumbling, Aquatics And Fundamental Skills (0-2) 1  
ES 251 Teaching Competencies In Dance, Recreational Games And Non-Traditional Sports (0-2) 1  
ES 252 Teaching Competencies In Basketball, Soccer, Softball And Volleyball (0-2) 1  
ES 253 Teaching Competencies In Fitness, Golf And Racquet Sports (0-2) 1  
ES 260 Lifeguard Training (American Red Cross) (1-2) 2  
ES 261 Water Safety Instructor (1-2) 2  
ES 424 Advanced Athletic Training (3-0) 3  
ES 425 Clinical In Medical Science (0-2) 1  
ES 450 Internship For The Exercise Specialist (3-0) 3  
ES 455 Internship In Sport Administration 8-12  
ES 480 Administration Of Programs In Exercise Science (3-0) 3  
ES 495 Research Design and Development (1-0) 1  
ES 496 Senior Seminar And Research In Exercise Science (2-0) 2  
ES 499 Independent Study 1-6

**Geology:**

Geol 208 Optical Mineralogy (2-6) 4  
Geol 210 Petrology (2-3) 3  
Geol 323 Geomorphology (3-3) 4  
Geol 325 Introduction To Remote Sensing (3-3) 4  
Geol 332 Plate Tectonics (3-0) 3  
Geol 333 Introductory Paleontology (2-3) 3  
Geol 337 Structural Geology (3-3) 4  
Geol 361 Stratigraphy And Sedimentation (3-3) 4  
Geol 363 Sedimentary Petrology (3-2) 4  
Geol 364 Igneous And Metamorphic Petrology (3-3) 4  
Geol 380W Technical Writing In Geology (3-0) 3

**History:**

Hist 306 Ancient Women's Religions (4-0) 4  
Hist 308 Rise Of Christianity (4-0) 4  
Hist 311 Colonial And Revolutionary America: 1492-1789 (4-0) 4  
Hist 314 Inventing America, 1789-1850 (4-0) 4  
Hist 315 Irish, Catholic, American (4-0) 4  
Hist 316 Civil War America (4-0) 4  
Hist 318 Emergence Of Modern America, 1893-1939 (4-0) 4  
Hist 320 Western/Southwest American History (3-0) 3  
Hist 322 Western American Mining (4-0) 4  
Hist 371 History Of Central America (4-0) 4  
Hist 372 United States-Latin American Relations (4-0) 4  
Hist 373 History Of Mexico (4-0) 4  
Hist 382 Reformation Europe And The Wars Of Religion (4-0) 4  
Hist 396W Philosophy And Methods (4-0) 4  
Hist 440 Advanced Studies In African History (3-0) 3  
Hist 446 Ancient Israel And Judah (3-0) 3  
Hist 450 Advanced Studies In East Asian History (3-0) 3

**Mathematics:**

Math 215Q Mathematics For The Elementary School Teacher (2-2) 3  
Math 221Q Calculus I (4-0) 4  
Math 222Q Calculus II (4-0) 4  
Math 223Q Calculus III (4-0) 4  
Math 300W Writing In Mathematics (3-0) 3  
Math 301Q Foundations For Advanced Mathematics (4-0) 4  
Math 305Q Discrete Mathematical Structures (3-2) 4  
Math 310Q Methods Of Teaching Mathematics In The Secondary School (3-0) 3

**Modern Language:**

ML 130 Mexican Readings (4-0) 4  
ML 135 Introductory Japanese I (4-0) 4  
ML 136 Introductory Japanese II (4-0) 4  
ML 147 Elementary French I (4-0) 4  
ML 148 Elementary French II (4-0) 4  
ML 215 Intermediate Spanish I (4-0) 4  
ML 216R Intermediate Spanish II (4-0) 4  
ML 219 Intermediate Spanish Conversation (4-0) 4

ML 223 Intermediate German I (3-0) 3  
ML 224R Intermediate German II (3-0) 3  
ML 235 Intermediate Japanese I (4-0) 4  
ML 236 Intermediate Japanese II (4-0) 4  
ML 247 Intermediate French I (3-0) 3  
ML 248 Intermediate French II (3-0) 3

**Music:**

Mu 104 Piano Class Instruction II (0-2) 1  
Mu 105 Concert Choir (0-3) 1  
Mu 106 Chamber Choir (0-2) 1  
Mu 107 Special Choirs (0-2) 1  
Mu 108 Introduction to Guitar (1-3) 2  
Mu 109, 209, 309, 409 Applied Music (Piano, Voice, Brass, Woodwinds, Percussion, Strings) 1 or 2  
Mu 110 Band (0-4) 1  
Mu 111 Brass Ensemble (0-3) 1  
Mu 318 Percussion Ensemble (0-3) 1  
Mu 319 Jazz Ensemble (0-3) 1  
Mu 320 Mallet Ensemble (0-3) 1  
Mu 331 Music History I (3-0) 3  
Mu 332 Music History II (3-0) 3  
Mu 349 Conducting I (3-0) 2  
Mu 350 Conducting II (3-0) 2  
Mu 415W Literature And Conversation: Writing About Music (3-0) 3  
Mu 423 Orchestration (2-0) 1

**Philosophy:**

Phil 379 Modern Philosophy: 17th and 18th Centuries (4-0) 4  
Phil 380 Nineteenth Century Philosophy (4-0) 4  
Phil 381 Metaphysics (4-0) 4  
Phil 382 Philosophies Of The Southwest (3-0) 3  
Phil 384 Philosophy of Mind and Language (4-0) 4  
Phil 451 Studies In Great Philosophers (4-0) 4  
Phil 480W Contemporary Political Thought (4-0) 4  
Phil 496 Senior Seminar (4-0) 4  
Phil 499 Independent Study 1-6

**Political Science:**

PS 101S Introduction To Political Science (4-0) 4  
PS 110S U.S. National Government (4-0) 4  
PS 120S State And Local Government (4-0) 4  
PS 140 Introduction To Law And Legal Systems (4-0) 4  
PS 205N Environmental Politics (3-0) 3  
PS 241 Introduction To Criminal Justice Systems (4-0) 4  
PS 250W Introduction To Political Analysis (4-0) 4  
PS 251W Advanced Research Methods (4-0) 4  
PS 264 Social and Political Philosophy (4-0) 4  
PS 280S Introduction To Comparative Politics (4-0) 4

**Psychology:**

Psychology Psyc 110S Human Relations (3-0) 3  
Psyc 157 Introduction To Psychology (3-0) 3  
Psyc 218 Psychological Foundations Of Education (2-0) 2  
Psyc 233 Personality (4-0) 4  
Psyc 241Q Basic Statistics For Psychologists (4-0) 4  
Psyc 392 Foundations Of Clinical Psychology (4-0) 4  
Psyc 393 Health Psychology (4-0) 4  
Psyc 394 Field School In Clinical Psychology 6  
Psyc 395 Seminar + Practicum In Clinical Psychology (4-0) 4  
Psyc 406 Case Studies In Neuropsychology (4-0) 4  
Psyc 420 Counseling Skills (4-0) 4  
Psyc 425 Social Psychology (4-0) 4  
Psyc 426 Sensation And Perception (4-0) 4

**Sociology:**

Soc 210W Social Inquiry And Research Methods (4-0) 4  
Soc 250R Social Issues In Contemporary Native Societies (4-0) 4  
Soc 275S Families, Marriages, And Other Sex-Role Systems (4-0) 4  
Soc 279R Ethnicity, Gender, And Class In The Southwest (4-0) 4  
Soc 280S Popular Culture And Mass Communication (4-0) 4  
Soc 300W Theories Of Social And Personal Life (4-0) 4  
Soc 301 Comparative Societies (4-0) 4  
Soc 310 Ecology And Society (4-0) 4  
Soc 311 Ecology And Society Field School 8

**Southwest Studies:**

SW 256 Introduction To Museums (3-0) 3  
SW 265 Art History Of The Southwest (3-0) 3  
SW 280 Native American In The Modern World (3-0) 3  
SW 282 The Hispano Culture Of The Southwest (3-0) 3  
SW 301W Writing In The Southwest Studies Discipline (3-0) 3  
SW 315 Native American Newswriting (3-0) 3  
SW 317 History Of American Indians In Film (3-0) 3  
SW 320 Western/Southwest American History (3-0) 3  
SW 322 American Indian Philosophies (3-0) 3  
SW 323 Southwest Indian History (3-0) 3  
SW 326 West And Southwest In Film And Fiction (3-0) 3

**Theatre:**

Thea 230 Stage Technology (3-2) 4  
Thea 231 Make-Up For Stage (2-0) 2  
Thea 233 Audition Techniques (2-0) 2  
Thea 236 Styles In Acting (3-2) 4  
Thea 240 Ancient And Classical Theatre (4-0) 4  
Thea 280 Interdisciplinary Studies: (Title) (4-0) 4  
Thea 300 Theatre Ensemble 1-4  
Thea 310 Design For The Theatre (4-0) 4

**Women's Studies:**

WS 365 Women And Development (3-0) 3

WS 495 Capstone Colloquium In Women's Studies (2-0) 2

**FORT LEWIS COLLEGE DEGREE CHECKLIST**  
**RECORDS OFFICE – 160 Miller Student Center**  
**970-247-7350**

Name \_\_\_\_\_ ID# \_\_\_\_\_ Catalog Year \_\_\_\_\_

Major 1 \_\_\_\_\_ Option/Concentrations \_\_\_\_\_

Major 2 \_\_\_\_\_ Option/Concentrations \_\_\_\_\_

Minor \_\_\_\_\_ Advisor \_\_\_\_\_ Graduation Date \_\_\_\_\_

This degree checklist includes courses completed through the \_\_\_\_\_ term.

Current date \_\_\_\_\_. Checklist completed by \_\_\_\_\_.

This checklist is made up of four parts: Total Hours Earned, General Education Requirements, Major Requirements, and Auxiliary Requirements. All four parts must be met to complete degree requirements. Also included is a part for minor requirements if you declare a minor; all minor requirements must be met at the same time as degree requirements.

*PLEASE NOTE: Once you reach 80 earned credit hours and have petitioned to graduate, you will receive a graduation checklist. You will receive a second checklist the term prior to your declared graduation term. The student is responsible for completing all credits required for the specified catalog. Please work closely with your advisor. Once you have petitioned to graduate, please advise the Records Office immediately if your anticipated graduation date is other than the date listed above.*

**Part I – TOTAL HOURS EARNED**

A minimum of 120 semester credit hours are required for the Bachelor of Arts or the Bachelor of Science degree. Within that 120 semester credit hours, a minimum of 45 semester credit hours must be upper-division credits. The minimum cumulative grade point average must be 2.00. The minimum grade point average in major courses is a 2.00.

\_\_\_\_\_ is the number of semester credit hours you have earned.

\_\_\_\_\_ is the number of upper-division semester credit hours you have earned.

\_\_\_\_\_ is your cumulative grade point average.

\_\_\_\_\_ is your major courses grade point average.

\_\_\_\_\_ is the number of semester credit hours you need to meet the minimum of 120 semester credit hours.

\_\_\_\_\_ is the number of upper-division credit hours you need to meet the minimum of 45 upper-division semester credit hours.

\_\_\_\_\_ This is checked if you must raise your cumulative grade point average to 2.00.

\_\_\_\_\_ This is checked if you must raise your major grade point average to 2.00.

**PART II – GENERAL EDUCATION REQUIREMENTS**

*Courses used to meet Group T, N, R, S, and Q requirements must be at least 3 semester credits. Students must complete at least one Thematic Studies 1 (TS 1) T or N course with an associated lab. Any one course may only meet one General Education requirement.*

<u>Course</u>	<u>Course Title</u>	<u>Grade</u>	<u>Credit</u>	<u>Course</u>	<u>Course Title</u>	<u>Grade</u>	<u>Credit</u>
Comp 150	Rdg/Wrtg Text	_____	_____	Group R. Culture, Identity, and Expression			







# School of Arts and Sciences

## Chemistry

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### Course Listings for Chemistry

#### **Professors**

William R. Bartlett  
Ron C. Estler  
James W. Mills

#### **Associate Professors**

Robert E. Milofsky  
Leslie E. Sommerville

#### **Assistant Professors**

Cindy C. Browder

The chemistry curriculum provides modern chemical skills and knowledge for students preparing for careers in areas such as environmental analysis, biotechnology, teaching, medicine, pollution control, and engineering. Many students continue their studies in professional or graduate programs while others start technical careers immediately after graduation.

The chemistry option prepares students for professional work in various areas of applied chemistry, for admission to graduate programs in chemistry, or for interdisciplinary careers in the environmental or medical fields. The biochemistry option prepares students for graduate programs in biochemistry or for employment in the rapidly expanding biotechnology field. Both options are appropriate preparations for health careers. The chemistry for secondary teachers option prepares students for teaching science at the secondary or elementary levels. This last option is not recommended for students interested in graduate programs in chemistry or biochemistry or employment in related industries.

The Chemistry Department offers certification by the American Chemical Society to students completing the ACS-certified curriculum. Preparation for graduate school often involves advanced elective coursework. Students planning on professional studies in pharmacy, medicine, dentistry, physical therapy, nursing, or veterinary medicine should consult with the chemistry faculty and the Pre-Health committee when planning their studies.

Chemists are concerned with the structure, composition, energy relationships, chemical conversions, and other

properties of substances. The various areas of chemical and biochemical technology offer the largest field of employment in the physical sciences. Chemists are employed in fields such as environmental analysis, biotechnology, material science, semiconductors, waste management, pollution control, energy research and production, forensic science and pharmaceuticals. Chemistry graduates will find many applications for their training in the fields of education, business, industry, law, government, and medicine.

A minor in chemistry is available for students majoring in other disciplines. Requirements for a minor in chemistry are listed at the end of this section.

### **REQUIREMENTS FOR A BACHELOR OF SCIENCE DEGREE WITH A MAJOR IN CHEMISTRY:**

#### **Chemistry Option**

#### **Courses:**

**Credits:**

#### **General Education**

**35-46**

\*\* Courses marked with double asterisks may also be counted toward TS 1 requirements.

#### **Specific Departmental Requirements:**

Chem 150 Fundamentals of Chemistry I	4
**Chem 151Tx Fundamentals of Chemistry II	4
Chem 250 Organic Chemistry I	4
Chem 251 Organic Chemistry II	4
Chem 300W At the Forefront of Chemical Research	3
Chem 311 General Biochemistry I	3
Chem 356 Physical Chemistry I	3
Chem 357 Physical Chemistry II	3
Chem 360 Physical Measurements	2
Chem 363 Inorganic Chemistry	4
Chem 365 Analytical Chemistry	4
Chem 465 Instrumental Analytical Chemistry	4
Chem 496 Senior Seminar	1
Chem 497 Senior Seminar	1

#### ***Subtotal Specific Departmental Requirements***

**44**

#### **Auxiliary Requirements for Other Departments:**

**Math 221Q-**222Q Calculus I & II	8
**Phys 217Tx (preferred) Physics for Science and Engineering I	5

OR	
Phys 201 College Physics I	5
AND	
Phys 218 (preferred) Physics for Science and Engineering II	5
OR	
Phys 202 College Physics II	5
<b>Subtotal Auxiliary Requirements</b>	<b>18</b>
<i>Free Electives (variable)</i>	
<b>TOTAL REQUIRED FOR GRADUATION</b>	<b>120</b>

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

### Biochemistry Option

<b>Courses:</b>	<b>Credits:</b>
<b>General Education</b>	<b>35-46</b>

\*\* Courses marked with double asterisks may also be counted toward TS 1 requirements.

#### Specific Departmental Requirements:

Chem 150 Fundamentals of Chemistry I	4
**Chem 151Tx Fundamentals of Chemistry II	4
Chem 250 Organic Chemistry I	4
Chem 251 Organic Chemistry II	4
Chem 300W At the Forefront of Chemical Research	3
Chem 311 General Biochemistry I	3
Chem 312 General Biochemistry Lab	1
Chem 313 General Biochemistry II	3
Chem 356 Physical Chemistry	3
Chem 357 Physical Chemistry	3
Chem 360 Physical Measurements	2
Chem 363 Inorganic Chemistry	4
Chem 365 Analytical Chemistry	4
Chem 496 Senior Seminar	1
Chem 497 Senior Seminar	1

<b><i>Subtotal Specific Departmental Requirements</i></b>	<b>44</b>
<b>Auxiliary Requirements from Other Departments:</b>	
**Math 221Q-**222Q Calculus I & II	8
**Phys 217Tx (preferred) Physics for Science and Engineering I	5
OR	
Phys 201 College Physics I	5
AND	
Phys 218 (preferred) Physics for Science and Engineering II	5
OR	
Phys 202 College Physics II	5
Bio 113 Introduction to Molecular and Cellular Biology	4
Choose one from the following:	
Bio 321 General Physiology	4
Bio 331 Microbiology	4
Bio 371/373 General Genetics/Molecular Genetics	2/1
Bio 455 Cell and Molecular Biology	4
<b><i>Subtotal Auxiliary Requirements</i></b>	<b>25-26</b>

Note: For Biochemistry majors, the Biology Department waives Bio 112N as a prerequisite for Bio 113 and has made Bio 113 the only prerequisite for the upper-division courses listed above. Students double majoring in chemistry-biochemistry and biology-cellular and molecular biology may take the senior seminar sequence in either chemistry (Chem 496 and 497) or biology (Bio 496 and 497); they may take the writing class in either chemistry (Chem 300W) or biology (Bio 380W); these students do not have to take both senior seminar sequences or both writing classes.

*Free Electives (variable)*

**TOTAL REQUIRED FOR GRADUATION** **120**

### **Chemistry for Secondary Teachers**

**Courses:** **Credits:**  
**General Education** **35-46**

\*\* Courses marked with double asterisks may also be counted toward TS 1 requirements.

#### **Specific Departmental Requirements:**

**Chem 123T Chemistry for Consumers	
OR	3
Chem 323 Chemistry for Consumers	
Chem 150 Fundamentals of Chemistry I	4

**Chem 151Tx Fundamentals of Chemistry II	4
**Chem 125N Environmental Chemistry	4
Chem 250 Organic Chemistry I	4
Chem 251 Organic Chemistry II	4
Chem 300W At the Forefront of Chemical Research	3
Chem 311 General Biochemistry I	3
Chem 365 Analytical Chemistry	4
Choose one from the following:	
Chem 356 Physical Chemistry	3
Chem 363 Inorganic Chemistry	4
Chem 496 Senior Seminar	1
Chem 497 Senior Seminar	1
<b>Subtotal Specific Departmental Requirements</b>	<b>38-39</b>
<b>Auxiliary Requirements from Other Departments:</b>	
**Geol 110Nx Earth Science	4
**Math 221Q Calculus I	4
Phys 201-202 College Physics I & II	10
**Bio 112N Intro to Organismic and Evolutionary Biology	4
ED 200 Intro to Education in America	4
**ED 210S Culture of Childhood and Youth	4
ED 421 Individualized Instruction in a Pluralistic Society	6
ED 424 Language and Math Literacy	4
ED 495 Student Teaching	15
<b>Subtotal Auxiliary Requirements</b>	<b>55</b>
<i>Free Electives (variable)</i>	
<b>TOTAL REQUIRED FOR GRADUATION</b>	<b>120</b>
Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.	
<b>REQUIREMENTS FOR A MINOR IN CHEMISTRY:</b>	
Chem 150 Fundamentals of Chemistry I	4
**Chem 151Tx Fundamentals of Chemistry II	4
Chem 250 Organic Chemistry I	4
OR	

Chem 363 Inorganic Chemistry	4
Chem 365 Analytical Chemistry	4
Choose one of the following:	
Chem 305 Natural Products from Plants	3
Chem 311 General Biochemistry I	3
Chem 356 Physical Chemistry I	3
<b>Total</b>	<b>19</b>

### **THE ACS-CERTIFIED BACHELOR OF SCIENCE DEGREE**

Chemistry majors may qualify for certification by the American Chemical Society (ACS) upon graduation by successfully completing a core of specified courses in chemistry and related fields. This program is particularly recommended for students planning to seek employment in industry. The ACS certification of the Fort Lewis degree requires an extension of the degree requirements given above. Students will need to consult with their advisor to carefully plan their schedules to meet these requirements.

Students planning to earn an advanced degree in chemistry, engineering, medicine, or other science-based postgraduate program for the purpose of teaching or research are encouraged to extend the basic chemistry major by including three or four additional courses in biology, chemistry, mathematics, or physics. These courses should be selected in consultation with the chemistry faculty.

Chemistry majors are also encouraged to study a foreign language.

### **CHEMISTRY MAJOR FOR CAREERS IN THE HEALTH PROFESSIONS**

Chemistry majors are well-prepared to seek admission to professional programs in law, medicine, veterinary medicine, dentistry, physical therapy, medical technology, and pharmacy. For assistance in planning their curricula, students interested in these programs should consult with members of the chemistry faculty who are members of the PreProfessional Advisory Committee.



# School of Arts and Sciences

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### **Chem 123T Chemistry for Consumers (3-0) 3**

Topics of interest to the consumer, with focus on making personal choices of everyday chemicals. Topics include food additives and nutrition, cosmetics, drugs, pesticides, fertilizers, soaps, detergents, fabrics, and plastics. The course presents basic principles leading to a practical understanding. This is a "humane" chemistry course for people afraid of science and mathematics. Credit will not be given for both Chemistry 123T and 323. Fall and winter terms.

### **Chem 125N Environmental Chemistry (4-0) 4**

Chemical terminology and models will be developed and applied to understanding of the impacts of Homo sapiens on the natural world. Topics include natural ecosystems, anthropogenic influences on those ecosystems and how an understanding of fundamental chemical principles applies to our understanding of environmental issues. Students will work with modern chemical instrumentation on student-designed field projects throughout the semester to explore local environmental issues. This is a chemistry course for people concerned about environmental issues but who are not science majors.

### **Chem 150 Fundamentals of Chemistry I: Atoms and Molecules (3-3) 4**

A study of the fundamental principles guiding current thought on atoms and how they aggregate into molecules and related forms. This includes the traditional uses of mass and energy to build a symbolic model of the atomic nano-world from laboratory experiments. Topics include atomic quantum structure, covalent and ionic bonding, molecular shapes, non-bonding molecular interactions, and the properties of gases and liquids. The laboratory emphasizes the properties of materials.

Prerequisites: Placement into Math 110 or higher.

### **Chem 151Tx Fundamentals of Chemistry II: Chemical Reactions (3-3) 4**

An integrated study of the fundamental kinetic and thermodynamic principles guiding chemical change and equilibrium. These principles are applied to the acid-base and electron chemistry of aqueous systems with important applications for living systems, geological processes, and environmental issues such as air and water quality, climate, energy use, and nuclear hazards. The laboratory includes various techniques in chemical analysis in aqueous systems as well as applications of reaction principles.

Prerequisites: Chem 150 and Math 110.

### **Chem 152 Fundamentals of Chemistry I: Chemical Problem Solving (1-0) 1**

Supplement to Fundamentals of Chemistry I for students who wish to explore the concepts in greater depth.

Prerequisites: Concurrent enrollment in Chem 150.

### **Chem 153 Fundamentals of Chemistry II: Chemical Problem Solving (1-0) 1**

Supplement to Fundamentals of Chemistry II for students who wish to explore the concepts in greater depth.

Prerequisites: Concurrent enrollment in Chem 151Tx.

### **Chem 250 Organic Chemistry I: Structure and Reactivity of Organic Compounds (3-3) 4**

Fundamentals of bonding, structure, and nomenclature of carbon compounds. Principles of stereochemistry and reaction mechanisms are introduced and illustrated with alkanes, alkene, alcohols, and alkyl halides. Acid-base, nucleophilic substitution, electrophilic addition, and elimination reactions are discussed. The laboratory addresses techniques of synthesis, separation, and analysis of organic compounds.

Prerequisites: Chem 150, concurrent enrollment in Chem 151Tx.

### **Chem 251 Organic Chemistry II: Functional Groups and Biological Chemistry (3-3) 4**

Fundamentals of structure and reactivity of alcohols, ethers, aldehydes, ketones, acids, amines, aromatic compounds, and acid derivatives. Introduction to the chemistry of biological compounds including sugars, lipids, proteins, and coenzyme catalysts. The laboratory emphasizes FT-IR and FT-NMR analysis of organic compounds, multi-step synthesis, and identification of unknown compounds by chemical and spectroscopic methods.

Prerequisite: Chem 250.

### **Chem 252 Organic Chemistry I: Discussion Section (1-0) 1**

Supplement to Organic Chemistry I for students who wish to explore the concepts in greater depth.

Prerequisites: Concurrent enrollment in Chem 250.

### **Chem 253 Organic Chemistry II: Discussion Section (1-0) 1**

Supplement to Organic Chemistry II for students who wish to explore the concepts in greater depth.

Prerequisites: Concurrent enrollment in Chem 251.

### **Chem 299 Individualized Study 1-6**

Individual research is conducted under the supervision of a faculty member.

### **Chem 300W At the Forefront of Chemical Research (3-0) 3**

Survey of the chemical and biochemical literature to become familiar with the newest and most exciting research topics. Papers from the secondary scientific literature on these topics will be selected for discussion and for critical analysis of ideas, writing styles, and conventions. Further investigation of topics through the use of electronic bibliographic tools will extend these topics into research projects reaching to their roots in the primary research literature. Students will write extensively and give well-organized oral presentations on chemical topics.

Prerequisites: Comp 150 and Lib 150.

### **Chem 311 General Biochemistry I (3-0) 3**

The basic principles of biochemistry. Emphasis is on the structure and function of proteins and lipids and the metabolic processes occurring within living organisms. Fall term.

Prerequisite: Chem 251.

### **Chem 312 General Biochemistry Lab (0-3) 1**

Basic biochemical techniques. Fall term.

Prerequisites: Chem 311 concurrent.

### **Chem 313 General Biochemistry II (3-0) 3**

The basic principles of biochemistry. Emphasis is on nucleic acid chemistry, carbohydrates, and immune response. Winter term.

Prerequisites: Chem 311.

### **Chem 323 Chemistry for Consumers (3-0) 3**

Topics of interest to the consumer, with focus on making personal choices about the use of everyday chemicals. Topics include food additives and nutrition, cosmetics, drugs, pesticides, fertilizers, soaps, detergents, fabrics, and plastics. For upper division credit, this course will require extensive writing exercises culminating in a major research paper on a consumer topic. Credit will not be given for both Chemistry 123 and 323. Fall and winter terms.

### **Chem 351 Pharmacology (3-0) 3**

Studies of the effects produced by drugs and of their administration, absorption, distribution, and excretion. Special emphasis is placed on the theories of the mechanism of action of drugs. First summer session when offered.

Prerequisite: Chem 250.

### **Chem 356 Physical Chemistry I: Quantum Mechanics (3-0) 3**

A study of the quantum theory of atoms and molecules. Includes fundamentals of quantum mechanics, electronic structure of atoms and molecules, molecular symmetry, molecular and reaction dynamics, and the interaction of matter with light. Fall term.

Prerequisites: Chem 151Tx, Phys 217Tx or 201, concurrent enrollment in Math 222Q.

### **Chem 357 Physical Chemistry II: Thermodynamics (3-0) 3**

An introduction to thermodynamics and its application to chemical processes. The course explores why chemical reactions occur, the nature of chemical equilibrium, the factors determining the speed of reactions, and the role of temperature in reactions and equilibria. Includes elementary kinetic gas theory and the Boltzmann distribution, energy, entropy, free energy and equilibrium, ideal solutions, colligative properties, and reaction rate theory. Winter term.

Prerequisite: Chem 356.

### **Chem 360 Physical Measurements (0-6) 2**

Instruction in design of experiments to measure physical properties and the analysis of data. These general techniques are applied in studies of kinetics, thermochemistry, electrochemistry, spectroscopy, and molecular structure. Winter term.

Prerequisite: Concurrent enrollment in Chem 357 or consent of instructor.

### **Chem 363 Inorganic Chemistry (3-3) 4**

This course builds a descriptive and theoretical framework for understanding inorganic systems. Fundamental

bonding theories will be applied to understanding the properties and reactions of solid state metals and materials, main group chemistry, coordination compounds, and organometallic compounds. Special topics, including bioinorganic chemistry, catalysis, environmental chemistry, and lanthanide/actinide chemistry, will be addressed.

Prerequisites: Chem 151Tx and concurrent enrollment in Chem 250 or instructor's permission.

### **Chem 365 Analytical Chemistry (3-3) 4**

Introduction to quantitative analytical chemistry. A rigorous development of the theory of chemical equilibria is presented to guide the development of laboratory skills, the rational design of experimental methodologies, and the use of instruments. Major topics include chemical and chromatographic separations, spectroscopic analysis, and electrochemical methods.

Prerequisite: Chem 151Tx.

### **Chem 380 Introduction To Chemical Research (1-0) 1**

This course consists of undertaking a project of an advanced nature. As a class, all aspects of the project will be discussed, including choosing an appropriate project, performing a literature search, defining a project, setting goals, planning experiments, and reporting results. Individually, each member of the class will be working on their project, once that project has been selected in consultation with the instructor.

Prerequisites: Consent of the instructor.

### **Chem 381 Introduction to Chemical Research Laboratory 1-3**

This is the laboratory to accompany Chem 380, Introduction to Chemical Research. This course must be taken along with Chem 380. Repeatable for credit up to a maximum of 15 hours.

### **Chem 411 Advanced Biochemistry (3-0) 3**

Advanced studies of basic biochemical concepts. Emphasis is placed on protein and carbohydrate structure, enzyme kinetics, membrane properties, biochemical reaction mechanisms, thermodynamic relationships in biochemical systems, and nucleic acid chemistry. A problem-solving approach is taken to these topics. On demand. \

Prerequisites: Chem 313 and 356 or consent of instructor.

### **Chem 431 Advanced Organic Chemistry (3-0) 3**

Advanced studies of organic reactions and reaction mechanisms. Strategies of stereoselective synthesis of complex organic molecules will be studied. Winter term.

Prerequisite: Chem 251.

### **Chem 454 Advanced Topics in Chemistry 1-4**

Examples of offerings include FT NMR techniques, bio-organic and bio-inorganic chemistry and advanced topics in analytical, physical, and organometallic chemistry. On demand.

Prerequisite: The 300-level course in the specific area.

### **Chem 460 Synthesis Techniques (1-6) 3**

Laboratory instruction in standard advanced synthesis techniques including high and low temperatures, high-pressures, photochemical syntheses, Schlenk-line manipulations and chromatographic methods. Organic, inorganic, and organometallic compounds will be synthesized. The synthesis literature and spectroscopic methods of structure determination will also be studied. Winter term.

Prerequisite: Chem 251.

### **Chem 464 Advanced Inorganic Chemistry (3-0) 3**

Atomic structure and periodic table, magnetic properties, modern bonding theories, chemistry of selected transition and non-transition elements, reaction mechanisms, solid state, organometallic and bioinorganic chemistry. Winter term.

Prerequisites: Chem 363 and 356 or consent of instructor.

### **Chem 465 Instrumental Analytical Chemistry (3-3) 4**

Advanced instruction in state-of-the-art instrumental analysis, including separations methods, spectroscopic analysis, and electrochemical methods of detection. Emphasis is placed upon analytical decision-making, instrumental design, and analysis of "real world" samples. Technical report writing is emphasized. Aspects of environmental analysis, pharmaceutical analysis, and bioanalytical chemistry are also included.

Prerequisites: Chem 300W, 360, and 365.

### **Chem 496 Senior Seminar (1-0) 1**

Preparation of library thesis on significant research topic from recent primary literature. Includes chemical abstracts instruction, on-line literature searching, advanced library techniques, and advanced technical writing and presentations. Also career preparation activities and participation in seminars by visiting scientists. Fall term.

Prerequisites: Junior or senior standing and Chem 300W.

### **Chem 497 Senior Seminar (1-0) 1**

Continuation of Chem 496 with emphasis upon presentation of senior thesis to the chemistry community. Winter term.

Prerequisites: Chem 496 or consent of instructor.

### **Chem 499 Independent Study 1-6**

Laboratory work on a current research problem under the direction of a faculty member. Students present oral and written papers based on this research. On demand.

Prerequisites: Junior or senior standing and consent of instructor.



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**Course Listings for Thematic Studies II**  
**Course Listings for Transitional Studies**

Due to circumstances beyond our control, the printed version of the catalog does not list credit hours for some of the course listings. Please click [here](#) for a printable version of these courses and their credits.

## KEY TO COURSE DESCRIPTIONS

Fort Lewis College does not offer all the classes listed in this catalog every trimester or every year.

The following pages provide brief descriptions of course offerings open to all students. Course listings are subject to change. Each Trimester the college publishes a schedule of courses that provides a detailed list of courses offered and the times and places of instruction. Courses listed in the schedule of courses are subject to change.

## EXPLANATORY NOTES

### *Number of courses:*

Course numbering is based on the contents of the material presented in courses.

### *Course number:*

100-299 primarily for freshmen and sophomores  
 300-499 primarily for juniors and seniors

Entry to all courses is limited to students who have completed published prerequisites or to those with instructor's consent. Courses numbered below 100 do not count toward graduation. Courses numbered below 300 are called lower-division courses, while those 300 or above are known as upper-division courses.

### *Prerequisite:*

A requirement that must be fulfilled before a student can enroll in a particular course. Consent of the instructor for a student to attend a class is implied when the student has met the specified course prerequisite.

*Corequisite:*

A requirement that must be taken concurrently with another course of instruction.

*Cancellation of Courses:*

The College reserves the right to cancel courses not selected by an adequate number of students or for which qualified faculty are not obtainable.

*Variable credit courses:*

1-3 indicates variable credit; the minimum and maximum credit limitation per term are shown. An example: BA 499 Independent Study 1-3 Individual research is conducted under the supervision of a faculty member. Prerequisite: Approval of the Dean of SOBA.

**SYMBOLS**

Course descriptions include a variety of symbols that convey essential information. The following standard course description with explanation of symbols is an example.

**BA 407W Management Consulting (2-4) 4**

The study of the concepts and models of management consulting and their application in business organizations. Emphasis is on practical application and the use of relevant tools and techniques. Students are required to engage in consulting services. Fall and winter terms.

*Prerequisites: BA 340, 353 and 380, senior standing and consent of instructor.*

BA - department designator

407 - course number

W - suffix indicates course meets General Education W requirement.

Management Consulting - Course title

(2-4) 4 - (clock hours in lecture per week - clock hours in laboratory experiences per week) number of credits

"The study of the concepts...." - Explanation of course content, or course description.

Prerequisites - Requirements that must be fulfilled before enrolling in the course.

Fall and winter terms. - Course is offered during the fall and winter terms.

*Note: Not all of the above information may be noted in each description.*

Additional symbols include:

- N - Suffix indicates course meets group N general requirements
- R - Suffix indicates course meets group R general requirements
- S - Suffix indicates course meets group S general requirements
- T - Suffix indicates course meets group T general requirements
- Tx - Suffix indicates course meets group Tx general requirements
- Nx - Suffix indicates course meets group Nx general requirements
- W - Suffix indicates course meets group W general requirements

A course with two or more letters after the number may qualify for each of the general education requirements indicated. However, courses identified with more than one letter can be used to satisfy only one general education requirement.

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# Thematic Studies

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**Prerequisites for ALL TS 2 courses: Comp 150 (or Comp 125/126), Lib 150 and all four TS 1 courses (one from each theme, including one with a science lab).**

### ***N—The Natural Environment***

#### **TS2N 400**

Environmental Science and Policy: Analysis of Global and Local Issues

**(4-0) 4**

This course explores the science behind key environmental issues and policies that have been or are being developed at the local, regional or global level. The role of science in policymaking will receive particular attention. Topics covered may include such issues as energy, ozone depletion, climate change, population growth, and sustainable development.

#### **TS2N 401**

Simply Science

**(4-0) 4**

This course will examine the scientific process, including the strengths and weaknesses of western science, as a way of learning about natural phenomena and environmental issues. The natural environment serves as the arena for class discussions and exercises. The methods of science form the foundation from which questions about our environment are posed and investigations of possible causes and consequences are conducted.

#### **TS2N 406**

Water in the West

**(4-0) 4**

This class explores how biological, geological, political, and economic forces affect and are affected by a limited resource—water. Students from different fields participate in analyzing local and global case studies and conducting research. This course uses water in the western United States as a springboard to address the global importance of sustainable water use and resource conservation.

#### **TS2N 407**

Business and the Environment

**(4-0) 4**

This course examines how businesses both create and can help alleviate environmental problems. Among the topics covered are life cycle analysis, full-cost accounting, closed loop production systems, eco-efficiency, and environmental reporting and labeling. Class assignments will include case analyses and student research of business practices at the local and national level.

## ***R—Culture, Identity, and Expression***

### **TS2R 400**

Forgotten Antilles Island: Puerto Rico

**(4-0) 4**

This interdisciplinary course is designed to deepen students' knowledge of the Latin Antilles, particularly Puerto Rico, through studying Puerto Rican social structures and history. Through readings dealing with historical events, topics of human interest, biographies, artistic expressions, poems, and humorous anecdotes, students will develop an understanding of Antilles cultures and a broader appreciation of different cultural frameworks and infrastructures.

### **TS2R 401**

Worldwide Displacement: Migration and Diaspora

**(4-0) 4**

This course looks at cultural aspects of migration as a local, regional, national, and global phenomenon of our age, and at the creation and history of diasporas (commercial, ethnic, cultural, racial, national). A major component of the course will be research and group presentations.

### **TS2R 402**

Power and Knowledge: The History of the Book

**(4-0) 4**

This course focuses on the book to examine notions of "progress" and the relationships between technological development and intellectual activity. Ancient information recording systems and the development of Western writing will be studied along with writing technologies in non-Western cultures. The most revolutionary book – the computer or "virtual book" – will also be examined.

### **TS2R 403**

The Spirit of Adventure

**(4-0) 4**

This course looks at the role of adventure from historic, economic, nationalistic, colonialist, gendered, and individual perspectives. The culture or spirit of adventure is a phenomenon found in all cultures throughout history, where "to adventure" means to challenge the individual physically, emotionally, and intellectually. Attention is given to gender differences, the role of science and nationalism, economic forces, tourism, and the visual and written productions of adventurers.

### **TS2R 404**

Ethnic Families in America

**(4-0) 4**

This course focuses on how cultural values and belief structures, immigration and adjustment experiences, and other socioeconomic conditions shape current ethnic family compositions and functioning patterns. Students will gain knowledge of selected theoretical perspectives, recent research findings, and future trends pertinent to ethnic families. Ecological socialization and socioeconomic models that address the functioning of ethnic families in the United States will also be explored.

### **TS2R 405**

Culture and Music in Non-Western Civilization

**(4-0) 4**

This course investigates the artistic and imaginative creative processes through which culture and music are expressed in non-western societies. Various music-cultures are studied through readings, audio recordings, videos, student oral presentations, written papers, guest lecturers, and experiential musical performances. Students learn about different cultural ideas of what music is, what its powers are, and how it relates to other aspects of life.

### **TS2R 407**

Representations and Power

**(4-0) 4**

This course examines representations, particularly of difference as expressed in museum exhibitions, photography, media reports, fiction writing, tourist experiences, National Geographic articles, and even ethnographic descriptions, as constructions of reality that produce both cultural understanding and misunderstanding. Students are challenged to critically analyze commonplace assertions about what is fact, truth, and reality, and to examine what counts as evidence.

### **TS2R 408**

Genius, Knowledge, and Representation

**(4-0) 4**

One of the most recurrent depictions in various film genres, television programs, and art historical material is the figure of genius—natural, successful, failed, corrupted, artificial, and subversive. This course investigates the appearance and limits of such representations within film and visual culture.

## ***S—Systems and Institutions***

### **TS2S 400**

Deconstructing Systems and the Pursuit of Anarchy

**(4-0) 4**

This course examines the critical arguments anarchists make against the capitalist nation-state system. Popular culture perceptions of anarchy, the ways that political and economic systems construct commonly held beliefs, and presuppositions about human nature, ownership, equality and the roles of laws are studied. The course also examines alternative models of living in the world.

### **TS2S 401**

Systems Perspective on Literacy

**(3-0) 3**

This course examines literacy as a normative practice embedded in and produced by the social, cultural, political, and economic systems. Through theoretical, ethnographic, and historical essays exploring the ways that acts of reading and writing are connected to larger systems, students will practice bringing a historically-informed, systems thinking perspective to social-cultural practices, issues and problems.

**TS2S 402**

Movements of Resistance

**(4-0) 4**

This course explores how various modes of resistance are launched, maintained, and sometimes falter in a number of different sociological, historical and cultural contexts. Mainstream corporate media tend to portray resistance movements as trivial or fanatical. This course asks students to examine different modes of resistance to various forces as disparate as nation-states, international policies sponsored by various states, and international organizations.

**TS2S 403**

Game Theory: Rationality and the Social Sciences

**(4-0) 4**

Game theory is the formal analysis of strategic situations. This course will provide students with a structured approach to tactical problem solving. It will also consider the interplay between strategic behavior and social structures, norms, and the human psyche. Although the course involves theoretical modeling, no mathematics beyond elementary algebra is required.

**TS2S 404**

Gender and the Sciences

**(4-0) 4**

This course explores the ways that the socio-cultural systems of sex/gender and scientific production influence one another. Using an interdisciplinary approach informed by sociology, the history of science, and feminist critiques of knowledge, this course examines issues such as the socialization of women into scientific communities; the ways that scientific methodology and questions carry gender bias; and strategies for critically analyzing the cultural assumptions of science.

***T—Technology*****TS2T 400**

Computers, Solar Energy, Ethics, and You!

**(4-0) 4**

This course is a seminar in building an informed sense of individual and social responsibility regarding the development and use of technology. Focusing on computer information representation and solar energy technology, students gain first hand lab experience, explore the historical contexts and underlying scientific principles of these technologies, and critically assess their impacts on society.

**TS2T 401**

Ethics and Biotechnology

**(4-0) 4**

Students will explore the ethical implications of technology in molecular biology. They will learn to use scientific principles to understand the science underlying new technologies, such as genetically modified organisms in

agriculture, genetically engineered human drugs, genetic testing, and gene therapy. The tools of philosophy will provide a way to analyze the moral dilemmas such technologies create.

### **TS2T 402**

Agricultural Issues in Society

**(3-0) 3**

In this course students examine a number of technological changes in agriculture and their impact on society, cultures, and the environment. Throughout the course, technological change is examined from scientific, social, and public policy perspectives.

### **TS2T 403**

The Science of Peak Sport Performance

**(3-0) 3**

What is the science behind recordbreaking elite sport performances and what are the limits of human athletic performance? This course examines peak and recordbreaking performances in sport and explains the science behind them. The physics of performance, analysis of motion and technique, new equipment, altitude, and surfaces, plus sociological and psychological factors will be considered.

### **TS2T 404**

Endocrinological Technology and the Body/Brain Connections

**(3-0) 3**

This course examines endocrinological technology and how the endocrine system affects the body and brain. The endocrine system and major hormones involved in the reproductive, digestive, and immune systems are reviewed. The course will examine the development of the technology of hormone measurement and hormone system management. An exploration of the relationship between the mind and body will focus on the field of psychoneuroimmunology.

### **TS2T 405**

Visual Literacy: The Art and Science of the Book

**(2-4) 4**

This course surveys the technology of the book from its mechanical production in pre-modern times through the technological innovations of the printing revolution to the electronic age of virtual text. Taught from an applied art perspective, this course will engage students in a hands-on exploration of the science and craft that make the book an enduring medium for communication and artistic expression.

### **TS2T 406**

Finding Secrets, Keeping Secrets: Information Technology and Individual Privacy

**(4-0) 4**

This course explores what constitutes privacy and how privacy is affected by new information technologies (IT). The historical, legal and philosophical underpinnings of privacy will be examined along with technologies of data collection, retrieval, distribution, data mining, encryption, and network surveillance. Pre- and non-network IT and its effect on privacy are also considered.





# Transitional Studies

## Course Listings for Transitional Studies

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### TRS– Transitional Studies

As the title implies, **Transitional Studies** are designed to assist students in their transition from high school to college. The classes do not give students credit towards graduation, but do carry credit which can be applied to financial aid and housing requirements. Students receive a grade of **S (Satisfactory)** or **NC (No credit)**.

#### TRS 82

Introduction To Algebra

**(3-0) 0**

This course provides review and instruction in elementary algebra and offers the opportunity to apply these skills to word problems and critical thinking exercises.

#### TRS 85

Fundamentals Of English Grammar

**(2-0) 2**

This course reviews the fundamentals of English grammar, usage, and punctuation.

#### TRS 90

Reading for Ideas

**(3-0) 0**

This course introduces students to strategies for reading the types of texts assigned in entry-level college courses.

#### TRS 91

Introduction to Academic Writing

**(3-0) 0**

Designed to improve the composition skills of students who have weak backgrounds in writing. The course focuses on pre-writing, logic, paragraph organization, and essay structure and includes frequent one-on-one critique sessions with the instructor.

#### TRS 92

Intermediate Algebra

**(2-1) 0**

Designed to provide review and instruction in college preparatory mathematics for students with deficiencies in or apprehensions about required entrance level mathematics courses. The course will cover such topics as algebraic expressions, manipulation of signed numbers, solving equations and inequalities, algebraic fractions, polynomials, exponents, radical expression, and graphing. Students who wish to enroll in this course should have successfully

completed at least the equivalent of Algebra I.

**TRS 95**

Learning Skills

**(2-0) 0**

Designed to develop the thought processes, habits, and skills students need in order to succeed in college. Subjects covered include time management, note taking, concentration, textbook reading, test taking, memory development and college policies.



# School of Arts and Sciences

## Computer Science and Information Systems

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### Course listings for Computer Science and Information Systems

#### **Professors**

Evans J. Adams  
Lawrence S. Corman  
Laszlo Szuecs

#### **Associate Professor**

James A. Wixom

#### **Assistant Professor**

Herb Snyder

#### **Visiting Instructor**

Allen F. Greenwood

The interdisciplinary major leading to the Bachelor of Arts degree in Computer Science Information Systems (CSIS) combines the fields of computer science (the science of creating computer software) and information systems (the application of computer software). The program emphasizes breadth of knowledge and the development of written and oral communication skills, which are trademarks of a liberal arts education, combined with professional competence in computer science and/or information systems. The student may specialize in these fields by choosing the Computer Science Option or the Information Systems Option described below.

The primary objectives of the curriculum are to ensure that every graduate is thoroughly familiar with the fundamental principles of modern computer science and information systems; understands how these principles relate to software, hardware, and system design; and is familiar with at least one significant area of applications of computers. Other major objectives include: providing graduates with the ability to understand a variety of problem-solving algorithms; familiarity with several programming languages for implementing these algorithms; understanding of hardware and/or software systems; the ability to make informed choices of software and hardware for a variety of problems; and an understanding of the role that human factors play in implementing computer-based systems.

Computer Science generally refers to the application of scientific and engineering principles to the development of

software products. Students choosing the Computer Science Option will receive training far beyond the ability to write programs that work. Software engineers must construct program systems that work efficiently and are comprehensible so that modification can be performed effectively when required. Software maintenance is as much a part of software engineering as the creation of new software.

Selection of the Information Systems Option generally leads to a career as a systems analyst, information system manager, or software project manager. These positions are responsible for choosing the right hardware and software for a particular data-processing problem and for organizing the database in a suitable form. A significant portion of the courses for this option also will address the concepts of software engineering and software project management as they apply to the development of large-scale software systems. A growing number of systems analysts also design and maintain computer networks.

### **REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR OF COMPUTER SCIENCE INFORMATION SYSTEMS**

The Computer Science Option

<b>Courses:</b>	<b>Credits:</b>
General Education	35-46

\*\* Courses marked with double asterisks may also be counted toward TS 1 requirements.

#### **Specific Departmental Requirements:**

CSIS 110 Introduction to Programming (C++)	4
CSIS 230 Object-Oriented Programming in C++	4
CSIS 310 Data Structures	4
CSIS 321 Computer Architecture and Organization	4
One of the two following sequences:	
CSIS 320 Assembly Language Programming	4
CSIS 421 Operating Systems	4
OR	
CSIS 328 Fundamentals of Data Communications	4
CSIS 428 Computer Networks and Internets	4
CSIS 361W Computers and Human Issues	4
Three additional CSIS courses numbered above 300 (except CSIS 495), chosen with approval of CSIS faculty	12
CSIS 496 Senior Seminar	2
<b><i>Subtotal Specific Departmental Requirements</i></b>	<b>42</b>

**Auxiliary Department Requirements:**

**Math 201Q Elementary Statistics	4
**Math 221Q Calculus I	4
**Math 305Q Discrete Mathematical Structures	4
**Math 320Q Numerical Analysis	
OR	3-4
**Math 360Q Introduction to Operations Research	
<b><i>Subtotal Auxiliary Requirements</i></b>	<b>15-16</b>

*Free Electives (variable)***TOTAL REQUIRED FOR GRADUATION 120**

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

**The Information Systems Option**

General Education	35-46
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\*\* Courses marked with double asterisks may also be counted toward TS 1 requirements.

**Specific Departmental Requirements:**

CSIS 105 The Computer as a Tool	4
CSIS 106 Introduction to Programming in Visual Basic	4
CSIS 110 Introduction to Programming (C++)	4
CSIS 206 Advanced Programming in Visual Basic	4
CSIS 350 Database Management Systems	4
CSIS 360 Software Engineering I: Systems Analysis	4
CSIS 361W Computers and Human Issues	4
CSIS 370 Software Engineering II: Systems Design and Implementation	4
Eight additional hours of CSIS courses numbered above 300 (except CSIS 495), chosen with approval of faculty	8
CSIS 496 Senior Seminar	2
<b><i>Subtotal Specific Departmental Requirements</i></b>	<b>42</b>

**Auxiliary Department Requirements:**

**Math 201Q Elementary Statistics	
OR	4
**BA 253Q Business Statistics	
**Math 210Q Calculus for Business and the Biological Sciences	4

BA 353 Operations Management	
OR	4
**Math 360Q Introduction to Operations Research	
<b>Subtotal Auxiliary Requirements</b>	<b>12</b>
<i>Free Electives (variable)</i>	
<b>TOTAL REQUIRED FOR GRADUATION</b>	<b>120</b>

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

As part of the General Electives requirement for graduation, students majoring in CSIS are strongly encouraged to complete a minor (or the equivalent of a minor) in any field of study offered at the College. By doing so, the student will (a) solidify his/her liberal arts education and (b) be prompted to pay close attention to career planning during the last two years of study. The choice of the minor should be discussed with the student's CSIS advisor.

#### **REQUIREMENTS FOR A MINOR IN COMPUTER SCIENCE INFORMATION SYSTEMS:**

<b>Courses:</b>	<b>Credits:</b>
<b>Choose one of the following two sequences:</b>	
CSIS 110 Introduction to Programming (C++)	4
CSIS 230 Object-Oriented Programming in C++	4
OR	
CSIS 106 Intro to Programming in Visual Basic	4
CSIS 206 Advanced Programming in Visual Basic	4
Three additional CSIS courses (except CSIS 495), at least 2 of which are numbered above 300	12
<b>Total for CSIS minor</b>	<b>20</b>



# School of Arts and Sciences

## Course Listings for Computer Science and Information Systems

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### **CSIS 105 The Computer As A Tool (2-4) 4**

Introduction to personal computer productivity tools using Microsoft (MS) Windows and MS Office software suite (MS Word, MS Excel, MS Powerpoint, MS Access), creation of documents that require the integration of applications using multi-tasking and object linking and embedding, accessing information on the Internet and World Wide Web, prototyping user interfaces using MS Visual Basic. Fall and first summer terms.

Note: Credit may not be received for both CSIS 105 and CSIS 322.

Prerequisite: Computer Science major or consent of the instructor.

### **CSIS 106 Introduction To Programming In Visual Basic (2-4) 4**

Point-and-click methods will be combined with elementary programming concepts to develop Windows applications with a graphical user interface. Topics include input and output tools, control structures, debugging techniques, library functions, file manipulation, and graphics programming. Fall and winter terms.

Prerequisite: Second-year high school algebra or Math 110Q.

### **CSIS 110 Introduction To Programming (C++) (3-2) 4**

Introduction to programming in C++, problem-solving methods, algorithm development, program design, testing, debugging, and documentation. This course is required for students who wish to pursue further study in computer science. Credit is given for only one of CSIS 110 or Engr 104. Fall and winter terms.

Prerequisite: Math 110Q or equivalent.

### **CSIS 206 Advanced Programming in Visual Basic (2-4) 4**

A second course in Visual Basic Programming. Topics include: VB Data Files, Accessing Databases, Active-X Controls, Collections and Classes, Dynamic Link Libraries, VB for Applications, Graphics, Data Validation and Error Trapping, and Internet Programming.

Prerequisite: CSIS 106.

**CSIS 230 Object-Oriented Programming In C++ (2-4) 4**

Introduction to object-oriented software development. Topics include objects and classes, operator overloading, inheritance, pointers, files and streams, virtual functions, templates, and applications to graphics programming. Group programming projects. Fall and winter terms.

Prerequisite: CSIS 110 or Engr 104.

**CSIS 238 Computer Logic Design (3-3) 4**

Introduction to the building blocks of digital computer design. Application of Boolean Algebra to the synthesis of logic circuits from logic elements. The design and implementation of combinational and sequential circuits. Understanding of hardware operations in a simple computer in terms of register transfer language. This course is the same as Engr 238; credit will only be given for one of these courses. Winter term of odd-numbered years.

Prerequisite: A course in computer programming.

**CSIS 310 Data Structures (3-2) 4**

Design and implementation of classic data structures such as stacks, queues, lists, trees, and graphs. Application of these data structures to searching, sorting, memory management and other problem domains. Recursion and algorithm complexity analysis are also emphasized. Winter term.

Prerequisite: CSIS 230.

Prerequisite or co-requisite: Math 305.

**CSIS 320 Assembly Language Programming (3-2) 4**

This course uses assembly language programming as a tool to study the Intel 80X86's architecture. Topics include integer arithmetic, branching, memory segmentation, memory models, program translation and linkage, parameter passing mechanisms, interrupts, terminate-and-stay-resident routines, math coprocessor, extended memory. Fall term of even-numbered years.

Prerequisite: CSIS 230 or 206; co-requisite: Math 221 or 210.

**CSIS 321 Computer Architecture And Organization (4-0) 4**

Organization of computer systems, including operating characteristics of and interfaces between processors, control units, busses, and memory. Studies and comparisons among modern computer architectures including the Intel and Sun families of microprocessors. Additional topics include Boolean Algebra and Digital Logic Circuits, RISC

machines, and Parallel Architectures. Winter term of even-numbered years.

Prerequisite: CSIS 230 or CSIS 206.

### **CSIS 322 Management Information Systems (4-0) 4**

A study of information processing, the systems concept, the analysis and design of information systems, and data-base technology as they apply to producing information to be used in business decision-making. Advanced applications of word processing, spreadsheet and database software will be included. Fall and winter terms.

NOTE: This course does not count for credit toward the CSIS major.

Credit may not be received for both CSIS 322 and CSIS 105.

Prerequisites: Acc 226.

### **CSIS 325 Competitive Intelligence (4-0) 4**

This course teaches the practical application and theoretical principles of competitive intelligence techniques. Topics include the importance of intelligence in business, legal and ethical issues, the intelligence cycle (planning, collection, analysis, and dissemination), managerial and marketing intelligence, analysis of scientific and technical information, foreign intelligence collection, and business security/counterintelligence. Discussion and practice cover analytical models and tools, use of information sources, and primary research methods.

NOTE: This course does not count for credit toward the CSIS major. Winter term.

Prerequisite: CSIS 322.

### **CSIS 328 Fundamentals Of Data Communications (3-2) 4**

A study of the basic concepts and mechanisms of open systems. Signals, communication media and devices, transmission modes, interface standards, data compression, data integrity and security, contention and flow control protocols, overview of local and wide area networks. Fall term of odd-numbered years.

Prerequisite: CSIS 230 and either Math 221 or Math 210.

### **CSIS 330 Windows Programming In C++ (2-4) 4**

Creating Windows applications using object-oriented programming and predefined hierarchies of window classes. Topics include menus, dialog boxes, toolbars and toolboxes, bitmaps and Windows graphics, child windows and MDI applications, dynamic link libraries. Offered on demand.

Prerequisite: CSIS 230.

### **CSIS 331 Advanced Programming in Java (2-4) 4**

Intended for students who are familiar with object-oriented programming in C++, this course will provide the student with the background needed for creating server-wide Web applications in Java. Topics include: data types in Java, classes and packages, inheritance, exceptions, cloning, multithreading, client-side Java, and Applets. Offered on demand.

Prerequisites: CSIS 230.

### **CSIS 332 Java Programming for the Internet (2-4) 4**

Creating server-side Web applications is the central topic of this course. Topics include: HTTP servlet basics, servlet lifecycle, sending HTML information, sending multimedia content, session tracking, security, database connectivity, Applet-servlet communication, Java Server Pages. Offered on demand.

Prerequisite: CSIS 331.

### **CSIS 340 Comparative Programming Languages (4-0) 4**

Basic notions of syntax (BNF grammars, derivation trees) and semantics (data types, control structures, parameter passing mechanisms, scope and lifetime of names) of programming languages. Comparison of logic, functional, object-oriented and procedural languages. Programming projects using various programming languages. Fall term of odd-numbered years.

Prerequisite: CSIS 230 or CSIS 206.

### **CSIS 350 Database Management Systems (4-0) 4**

A study of the basic concepts, models, internal mechanisms and language aspects of Database Management Systems. The primary emphasis is on the definition, organization and manipulation of data at the logical level. Topics, include: conceptual modeling, the relational model, transformation of conceptual to relational models, normalization, physical database design, SQL and GUI query languages, recovery, concurrency, security and integrity, distributed databases, Internet database interfaces, client/server databases, database administration and feature analysis of DBMS. Students will design and implement relational database applications. Fall term.

Prerequisite: CSIS 230 or CSIS 206.

### **CSIS 360 Software Engineering I: Systems Analysis (4-0) 4**

This is the first course in a recommended fall/winter sequence (with CSIS 370). Topics include software life cycle

models, human factors, feasibility analysis, project scheduling, requirements analysis methodologies, preparing systems proposals, CASE, software project management, and software quality assurance (technical reviews and inspections). Systems Analysis models are constructed using the Unified Modeling Language (UML). This is a project-intensive course. The student's performance in a team environment is a major component of the final grade. Fall term.

Prerequisite: CSIS 230 or CSIS 206 or consent of instructor.

### **CSIS 361W Computers And Human Issues (4-0) 4**

A study of the broad social, political, ethical, and philosophical issues raised by the existence and use of the computer. Topics can include artificial intelligence, human-computer interaction, computer interface issues, computer ethics, ergonomics, and the Internet. The course is conducted in a seminar approach with discussion and analysis of articles that pertain to the previously mentioned topics. Students will become familiar with the various forms of writing used with the discipline of Computer Science (scientific technical writing, software documentation and help screens, progress reports, proposals, journal articles). Students will use presentation software, Internet publishing tools, and state of the art word processing software in comprehensive writing exercises. Hands-on experience with the Internet and related components is also an integral part of this course. Winter term.

Prerequisite: Comp 150 and Lib 150 and one of CSIS 230 or CSIS 206.

### **CSIS 370 Software Engineering II: Systems Design And Implementation (4-0) 4**

This is the second course in a recommended fall/winter sequence (with CSIS 360). Topics include systems design methodologies, implementation technologies, selection of hardware and software, CASE, software configuration management, software project management, software quality assurance (inspections and testing). Systems Design models are constructed using the Unified Modeling Language (UML). This is a project-intensive course. The student's performance in a team environment is a major component of the final grade. Winter term.

Prerequisite: CSIS 360 or consent of instructor.

### **CSIS 380 Computer Graphics (3-2) 4**

Concepts relating to the graphical display of data. Techniques in two- and three-dimensional displays. Hardware and software of graphics systems will be discussed with hands-on experience using available tools. Fall term of odd-numbered years.

Prerequisite: CSIS 230 or consent of instructor.

### **CSIS 402 Electronic Commerce (4-0) 4**

This course introduces the student to the technical and business considerations for creating a business web site.

Technical considerations include web site design and structure strategies, web security, EDI and payment system implementation and development of business strategy and digital nervous systems within the business environment. This course is best suited to upper level business or computer science majors. This course is the same as BA 402; credit will be given for only one of these courses.

Prerequisite: CSIS 322.

### **CSIS 421 Operating Systems (3-2) 4**

A study of basic concepts of operating system design. Topics include process management, memory management, file systems, protection and security, process coordination, interprocess communication, distributed systems. Programming assignments leading to the construction of a simple operating system. Winter term of odd-numbered years.

Prerequisite: CSIS 230 and CSIS 320.

### **CSIS 425 Accounting Information Systems (4-0) 4**

An analysis of the effects of information technology on the control and maintenance of accounting information systems. Included is the application of contemporary accounting/business software tools in accounting information systems. Fall term. NOTE: This course does not count for credit toward the CSIS major.

Prerequisites: CSIS 322 and Acc 323.

### **CSIS 428 Computer Networks And Internets (2-4) 4**

A detailed study of local and wide area networks and of the Internet's underlying protocols. Internet protocol addresses, address resolution, datagrams, IP encapsulation, fragmentation and reassembly, transport control protocol, client-server interaction, socket interface, domain name system, security and firewalls, electronic mail transfer, World Wide Web pages and browsers. Winter term of even-numbered years.

Prerequisite: CSIS 328.

### **CSIS 431 Computer Network Administration (4-0) 4**

The class focuses on emerging network technologies as problem solutions. Examines such networked solutions as intranets, extranets, e-commerce, and knowledge management applications. Network components and designs are compared in terms of performance, reliability, and cost. Communication protocols and network connectivity are presented in the light of current standards. Network management is discussed in relation to technical and economic strengths and security needs. Winter term.

Prerequisite: CSIS 322 or instructor permission.

### **CSIS 450 Parallel Programming (3-2) 4**

Algorithm and program evaluation and development for computer architectures with multiple processors. Topics include multi-computer and multi-processor architectures and programming languages that support parallelism on such architectures. Fall term of even-numbered years.

Prerequisite: CSIS 310 or consent of instructor.

### **CSIS 495 Internship In Computer Science 3**

Detailed experience working in an organization performing professional duties and responsibilities related to Computer Science. Specific requirements will vary according to the student's work assignment, but include, as a minimum, the keeping of a detailed journal regarding the student's work experience. A minimum of 140 hours (10 hours per week) of professional duties will be required. The students' performance will be evaluated by their supervisor in the organization as well as the Computer Science instructor. On demand.

NOTE: This course does not count toward credit in the CSIS Electives section of the CSIS major. Credit is given only as a General (Free) Elective.

Prerequisite: Junior or senior computer science major and consent of the instructor.

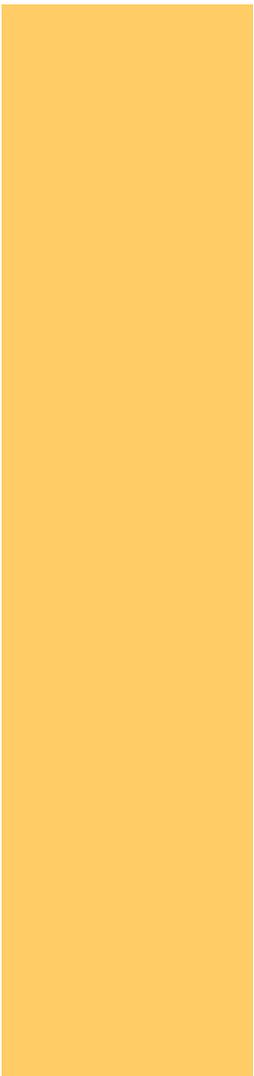
### **CSIS 496 Senior Seminar (2-0) 2**

Advanced study and research in selected topics. Winter term.

Prerequisite: Senior standing.

### **CSIS 499 Independent Study 1-6**

Individual study conducted under the supervision of a faculty member.





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This catalog outlines in detail course requirements needed to complete the various degree programs Fort Lewis College offers.

If students follow the prescribed courses for a selected major and complete at least 15 credits credit hours each trimester, they may reasonably expect to complete the degree program within eight trimesters.

### **For More Information Contact:**

Office of Admission

1000 Rim Drive

Durango, CO

81301-3999

Phone: 970-247-7184

E-mail: [admission@fortlewis.edu](mailto:admission@fortlewis.edu)

Web Address: [www.fortlewis.edu](http://www.fortlewis.edu)

*The 2002-03 Catalog was produced by:*

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# School of Business Administration

## Economics

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### Course listings for Economics

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The School of Business Administration offers two degree options for students pursuing studies in Economics. Both Economics options prepare students for graduate studies in economics as well as employment in business and finance. The study of economics also provides a good background for students who want to prepare for a career in law. Economics majors may also be certified to teach in the broad area of social studies at the secondary level. To obtain the requirements for certification, students need to contact the Department of Teacher Education. These programs lead to a degree in either Business Economics or Economics.

### **Business Economics Option:**

The Business Economics option is designed to provide students with an understanding of economic principles underlying the business world. The option shows the relationships between the study of economics and basic business decision-making both from the standpoint of the individual firm and from the standpoint of business operating in the national and global economy. Students majoring in business economics will be prepared to continue graduate study in economics and for employment in government and business.

A student majoring in business economics must complete the following departmental requirements:

<b>Courses:</b>	<b>Credits:</b>
<b>General Education</b>	<b>35-46</b>
** Courses marked with double asterisks may also be counted toward TS 1 requirements.	
<b>MAJOR REQUIREMENTS:</b>	
<b>Common SOBA Requirements</b>	<b>42</b>
<b>Quantitative Reasoning Requirements</b>	<b>4</b>
<b>Auxiliary Requirements</b>	<b>4</b>

**Other Departmental Requirements:**

Econ 356 Microeconomic Theory 4

Econ 364W Macroeconomic Theory 4

**Plus any three of the following courses:**

Econ 307 Evolution of Economic Thought 4

Econ 310 Economic History of the United States 4

Econ 335 Environmental Economics 4

Econ 361 Managerial Economics 4

Econ 369 Public Finance 4

Econ 371 International Economics 4

Econ 381 Economics of the Health Care Industry 4

BA 382/Econ 382 Financial Institutions 4

Econ 390/391 Special Topics in Economics 4

Econ 410 Economics, A Radical Perspective 4

**Total Other Departmental Requirements 20****TOTAL MAJOR REQUIREMENTS 70**

Free Electives (variable)

**TOTAL REQUIRED FOR GRADUATION 120**

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

Departmental requirement courses used to satisfy the Business Economics option may not be used to satisfy any other major, minor or option within the School of Business Administration.

**Economics Option:**

The Economics option focuses mainly on economics and is designed to provide students with an understanding of the present economic system and how economics relates to other disciplines and fields of study. The major is designed for students who desire to study economics but do not wish to take all of the common requirements courses prescribed for Business Administration majors. Students majoring in Economics will have the flexibility to pursue minors in other areas as well as preparing for teaching certification.

Students majoring in the Economics option must complete the following departmental requirements:

**Courses:****General Education****Credits:****35-46**

\*\* Courses marked with double asterisks may also be counted toward TS 1 requirements.

### **MAJOR REQUIREMENTS:**

**BA 253Q Business Statistics	4
BA 221 Writing in the Business World	3
**Econ 266S Principles of Economics	4
Econ 361 Managerial Economics	4
Econ 356 Microeconomic Theory	4
Econ 364W Macroeconomic Theory	4
BA 499 Independent Study	2

### **Plus any three of the following courses:**

Econ 307 Evolution of Economic Thought	4
Econ 310 Economic History of the United States	4
Econ 335 Environmental Economics	4
Econ 369 Public Finance	4
Econ 371 International Economics	4
Econ 381 Economics of Health Care Industry	4
Econ 382/BA 382 Financial Institutions	4
Econ 390/391 Special Topics in Economics (As approved by the Department)	4
Econ 410 Economics, A Radical Perspective	4

**TOTAL MAJOR REQUIREMENTS** **37**

Free Electives (variable)

**TOTAL REQUIRED FOR GRADUATION** **120**

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

### **REQUIREMENTS FOR A MINOR IN ECONOMICS:**

A student majoring in any discipline other than Economics may complete a minor in Economics upon satisfactorily fulfilling the following requirements:

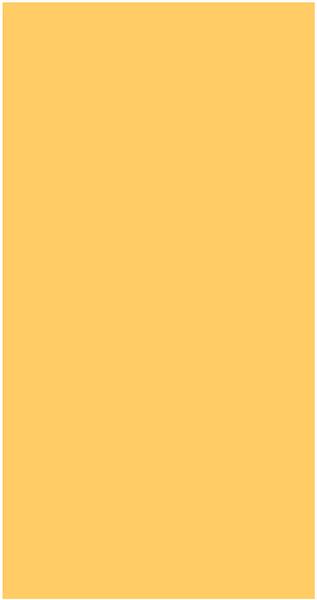
**Econ 266S Principles of Economics	4
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### **Electives:**

Fourteen (14) semester hours of additional Economics courses, twelve (12) must be upper-division	14
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**Total** **18**

Contact the Office of the Dean of the School of Business Administration once the requirements for a minor in Accounting, Business Administration, Marketing or Economics are complete.





# School of Business Administration

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### **Econ 170S Current Economic Issues (4-0) 4**

Explores current economic issues in society by developing a set of basic tools of economic analysis and then applying those tools to contemporary economic questions. Issues to be covered will include topics such as inflation, unemployment, the farm problem, U.S. economic leadership, poverty, environmental standards, our financial system and worldwide economic growth. Recommended for NON-BUSINESS MAJORS who are interested in taking only one course in economics.

### **Econ 201 Personal Finance (3-0) 3**

Managing personal finances including budgeting, insurance, taxes, home ownership, investments, retirement and estate planning. This course is designed for majors outside the School of Business Administration.

### **Econ 262 Principles Of Economics - Micro (2-0) 2**

An introductory course in price theory. Topics include opportunity cost, demand, supply, markets, elasticities and the organization of markets. This is a half semester course for which credit is earned by completing the first half of Econ 266D. For transfer students who have only had macro. Consent of instructor.

### **Econ 266S Principles Of Economics (4-0) 4**

An introductory course covering microeconomics and macroeconomics. The micro section includes opportunity cost, demand and supply analysis, elasticities, market behavior, market structures and international trade theory. The macro section includes national income theory, income flows, macroeconomic equilibrium and how these concepts are applied to examine economic growth, inflation, unemployment, monetary and fiscal policy, deficits and the national debt and the balance of payments.

### **Econ 272 Principles Of Economics - Macro (2-0) 2**

An introductory course on national income analysis. Included are income flows, macro-economic equilibrium, monetary and fiscal policy and balance of payments. This is a half semester course for which credit is earned by completing the second half of Econ 266D. For transfer students who have only taken micro. Consent of instructor.

### **Econ 307 Evolution Of Economic Thought (4-0) 4**

Traces the evolution of economic thought from the 1600s to the present. Each major school of thought, e.g., Mercantilist, Classical, Marxist, Keynesian, etc., will be analyzed to see how it met the conditions of its time, which concepts were relevant only to that period, and which have had enduring relevance.

Prerequisites: Junior standing or consent of instructor.

### **Econ 310 Economic History Of The United States (4-0) 4**

A study of the origin and development of the economic institutions of the United States from Colonial times to the present. U.S. economic development is considered in relation to theories of economic growth and development.

### **Econ 335 Environmental Economics (4-0) 4**

This course presents the application of economic theory and analytical tools to a variety of environmental and resource problems. Economic reasoning is used to gain insights into the causes of, consequences of, and ways of dealing with environmental problems. The economic tools of cost/benefit analysis are developed and applied to environmental costs and benefits associated with a variety of private and public projects/policies. The ethical implications of these tools is also considered. Students will be expected to conduct an economic analysis of some proposed project/policy.

### **Econ 356 Microeconomics Theory (4-0) 4**

This course deals with the price system as it directs resources to more efficient use. It deals with pricing under the various degrees of competition and stresses demand analysis. The principles of production economics are explored.

### **Econ 361 Managerial Economics (4-0) 4**

A course designed to connect economic theory with business decision-making. The course deals with the application of economic models to business decisions, quantitative methods for decision-making, cost-benefit and cost-effectiveness analysis.

Prerequisites: BA 253 and Econ 266S.

### **Econ 364W Macroeconomics Theory (4-0) 4**

A course that examines the economy as a whole. Included are an analysis of national income accounting, consumption, investment, government spending, the level of employment, monetary theory, monetary and fiscal policy, and international economic policy.

### **Econ 369 Public Finance (4-0) 4**

An analysis of the financing of federal, state and local units of government. Emphasis given to problems of taxation,

expenditures and debt management.

### **Econ 370 Topics In International Economics 1-6**

An examination of selected topics in the area of international economics. Students may take this course one or more times for credit provided the subject is different on each occasion.

Prerequisite: Econ 266S or concurrent enrollment, or permission of instructor.

### **Econ 371 International Economics (4-0) 4**

Classical, neoclassical and modern trade theory. Comparative analysis of marketing functions, institutions and structures in different national environments. Exchange rates, import/export monopolies, quotas, tariffs and other foreign fiscal policies.

### **Econ 381 Economics Of The Health Care Industry (4-0) 4**

A survey of the issues in the field of health care economics. Health insurance, health care costs, and the financing and delivery of personal medical services are studied as is the role of government in the provision of health and medical care. This course is intended for students interested in issues concerning the health care industry. Prior knowledge of economics is not required. Prerequisite: Junior standing or consent of instructor.

### **Econ 382 Financial Institutions (4-0) 4**

This course is the same as BA 382. See BA 382 for description. Credit cannot be awarded for both BA 382 and Econ 382.

### **Econ 410 Economics, A Radical Perspective (4-0) 4**

A course that examines the process of resource allocation from the perspective that draws its analysis from Neoclassical Economic theory, Institutional Economics and Marxian Economics. Topics that are examined are power as it arises from the ownership of resources and how power is then transformed into control of institutions, class as a natural consequence of the capitalist system, sexism and racism as they arise from the existence of power and class. Also included are topics that address worker dislocation due to structural change in the economy and work issues related to the post-industrial society.

Prerequisites: Junior standing or consent of instructor.

### **BA 499 Independent Study 1-6**

Individual research is conducted under the supervision of a faculty member.



Prerequisite: Approval of School of Business Administration Dean.



# School of Arts and Sciences

## Course Listings for Engineering

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### **Engr 101 Introduction To Engineering (1-0) 1**

Explore the engineering profession by discussing the different types of engineering, engineering duties, and the job market. Complete several simple hands-on design and analysis projects. Discuss what is required for a student to get a degree in engineering and how to achieve this goal.

### **Engr 103 Computer Aided Drafting (3-0) 3**

A basic course in engineering graphics, including geometric constructions, orthographic projection, sectional views, dimensioning, layout, working drawings, and elementary descriptive geometry. The primary drafting tool for this course will be the computer.

### **Engr 104 Computer Programming For Scientists And Engineers (2-2) 3**

Introduction to programming, problem-solving methods, algorithm development, program design, debugging, documentation, and computer solution to mathematical/engineering problems. Credit will be given for only one of Engr 104 or CSIS 110.

Prerequisites: Math 121Q or equivalent.

### **Engr 105 Engineering Principles (3-0) 3**

Solution of fundamental engineering and design problems. Topics include graphical and numerical mathematics, engineering statistics, computer applications, problem solving, and design projects.

Prerequisites: Math 221Q and Engr 104 or a familiarity with computer applications.

### **Engr 201 Electric Networks I (4-0) 4**

An introduction to engineering circuit analysis. Topics include the study of linear circuit elements (resistors, capacitors, inductors, operational amplifiers), linear circuits, Kirchoff's laws, methods of analysis, RL, RC, and RLC circuits, phasors, sinusoidal steady state response, average value RMS values, and power in AC circuits.

Prerequisites: Math 222Q.

### **Engr 202 Electric Networks II (3-2) 4**

Topics include polyphase circuits, complex frequency, and frequency response of linear networks, magnetically coupled circuits, two-port networks, Fourier analysis, Laplace transform techniques, operational amplifiers.

Prerequisites: Engr 201.

### **Engr 205 Surveying I (2-4) 4**

Plane surveying methods in engineering that emphasize the measurement, theory, and calculations associated with distances and angles measurements. Modern electronic equipment including total stations and Global Positioning Systems are used. Topics include distance measurement, leveling, traversing, topographic mapping, error analysis, and others.

Prerequisites: Math 121Q or equivalent.

### **Engr 217 Statics (3-0) 3**

Vectors, forces, and moments. Static equilibrium of particles and rigid bodies. Trusses, frames, and machines. Internal forces, shear, and bending moment diagrams. Centroids, moment of inertia, friction, and virtual work.

Prerequisites: Math 221Q.

### **Engr 221 Dynamics (3-0) 3**

Kinematics and kinetics of particles and rigid bodies. Includes the applications of Newton's laws, work-energy, and impulse-momentum, and their applications to determine the motion of rigid bodies in two and three dimensions.

Prerequisites: Engr 217.

### **Engr 238 Digital Logic Design (3-3) 4**

Introduction to the building blocks of digital computer design. Application of Boolean algebra to the synthesis of logic circuits from logic elements. The design and implementation of combinational and sequential circuits. Understanding of hardware operations in a simple computer. Winter term of odd-numbered years. This course is the same as CSIS 238; credit will only be given for one of these courses.

Prerequisites: Engr 104 or equivalent math and programming experience.

### **Engr 270 Engineering Thermodynamics (3-0) 3**

Fundamental concepts and basic theory of classical thermodynamics including study of the first and second laws of thermodynamics, properties of pure substances, thermodynamic states and functions, applications to engineering.

Prerequisites: Phys 217Tx.

### **Engr 305 Surveying II (2-4) 4**

Stresses the application of surveying techniques and theory to topics that include mapping and map projections, the Global Positioning System, Geographic Information Systems, boundary surveys, the Public Land Survey system, coordinate systems, and control surveys, photogrammetry, astronomic observations, and route surveys.

Prerequisites: Engr 205.

### **Engr 317 Mechanics Of Materials (3-0) 3**

Stresses and deformations in structural members and machine elements, combined stresses, and stress transformations. Deflection by integration, superpositions, and moment area method. Strain energy concept, impact loading, and column design.

Prerequisites: Engr 217.

### **Engr 321 Fluid Mechanics (3-0) 3**

Fluid properties, statics, kinematics, and kinetics of fluids including gravitational and viscous effects. Differential analysis of fluid motion. Incompressible inviscid flow, dimensional analysis, and similitude. Flow measurements, boundary layers, flow about immersed bodies, and flow in open channels.

Prerequisites: Engr 221.

### **Engr 499 Independent Study 1-6**

Individual research is conducted under the supervision of a faculty member. Offered on demand.



# School of Arts and Sciences

## Engineering

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### Course listings for Engineering

#### **Professors**

Omnia I. El-Hakim

Donald R. May

The Engineering program at Fort Lewis College is designed to meet the needs of those students who are interested in obtaining an engineering degree, but prefer to complete their first two years of study at a small college with a liberal arts emphasis. After completing a requisite block of courses that includes engineering, mathematics, the sciences, and the humanities, students are eligible for full junior standing at one of the institutions with which Fort Lewis maintains a transfer agreement. Or the student may choose to apply to any other degree granting engineering program as a normal transfer student.

Fort Lewis College participates in formal engineering transfer agreement programs with Colorado State University (CSU) at Fort Collins, Colorado School of Mines (CSM) at Golden, the University of Colorado (CU) at Boulder, the University of Southern Colorado (USC) at Pueblo, the University of New Mexico (UNM) at Albuquerque, and New Mexico State University (NMSU) at Las Cruces.

Under these block-transfer agreements the student completes the prescribed sequence of courses, listed below, in residence at Fort Lewis. Successful completion of this sequence with the required minimum GPA is sufficient for the collective transfer of these courses to the cooperating institution with full junior standing. For those students who can take calculus their first term, the block transfer sequence may be completed in two years of residence at Fort Lewis.

For detailed information on specific agreements and programs, students should consult with an engineering advisor.

### Required minimum grade point averages by school:

Colorado State University	2.5
Colorado School of Mines	2.5
University of Colorado	2.75
University of Southern Colorado	2.5 (Industrial Engineering only)
University of New Mexico	2.25 (Completion of an additional 18 technical hours with a grade point of at least 2.5 is required.)
New Mexico State University	2.75 (Regular admission. 2.0-2.75 Provisional admission - must establish a minimum GPA at NMSU, depending on the major.)

1. Only those courses in which a student received a C or higher will transfer.
2. The grade point average requirements can change without notice, and those listed in this catalog may not be current and should be used as a general guide. Check with your adviser for current GPAs.

Although the above plans pertain specifically to the agreements with the schools listed above, the courses offered are ordinarily accepted for credit for comparable courses at other degree-granting engineering institutions. In addition, the engineering courses are often used by students in planning student-constructed majors at Fort Lewis College. Student-constructed majors using the engineering courses are available in conjunction with physics, geology, mathematics, and other disciplines. The student should consult with his or her advisor if interested in a student-constructed major.

Two engineering related degrees are offered at Fort Lewis College. The first is the Engineering Physics option to the Physics degree. This program offers a combination of physics and engineering courses resulting in a BS degree from Fort Lewis College. For more information please see the Physics section of this catalog. The second is a cooperative effort between the engineering program and the School of Business Administration resulting in a four-year degree program in Engineering Management. For more information, please see the School of Business Administration section of this catalog.

Students who are interested in obtaining a mathematics degree in addition to an engineering degree may wish to pursue a 3-2 program. The student attends Fort Lewis College for six terms (equivalent to three academic years) and the cooperating institution for two academic years. During residence at Fort Lewis, the student completes the requirements for the basic engineering core and most of the requirements for a mathematics major. At the cooperating institution the student completes the remaining requirements for a Bachelor of Arts degree in Mathematics, awarded by Fort Lewis College, and the requirements for an engineering degree from the cooperating institution.

A minor in engineering is available for students majoring in other disciplines. Requirements for an engineering minor

are listed at the end of this section.

The Engineering program is supported by the College's modern computer facilities. Registered students may use any of the student computing labs, which are generally open seven days a week. These facilities include PC and Macintosh computers and laser printers. Internet connectivity is provided through the campus network; modem access is also available.

The transfer agreements listed below can change without notice and may not be current. They should be used as a general guide only. Check with your advisor for current transfer agreement information.

### **CSU TRANSFER AGREEMENT**

#### **Common courses required of most students:**

#### **Credits:**

Engr 104 Computer Prog. for Scientists and Engineers	3
Engr 105* Engineering Principles	3
Engr 217 Statics	3
Engr 221* Dynamics	3
Engr 270* Engineering Thermodynamics	3
Comp 150 Reading and Writing in College	4
Math 221Q, 222Q, 223Q Calculus I, II, II	12
Math 327Q Differential Equations	4
Phys 217Tx, 218 Physics-Science and Engineering I, II	10
Chem 150, 151Tx* Fundamentals of Chemistry	8
<b><i>Humanities and Social Science Electives</i></b>	<b>6</b>
<b><i>PE Act Physical Activities</i></b>	<b>2</b>

\*Electrical Engineering majors take Engr 238, Engr 201, Engr 202, and Econ 266S instead. Additional courses may be required for specific majors (see an Engineering advisor).

### **CSM TRANSFER AGREEMENT**

#### **Specific courses required of all students:**

Math 221Q, 222Q, 223Q Calculus I, II, III	12
Math 327Q Differential Equations	4
Engr 104 Computer Prog. for Scientists and Engineers	3
Engr 217 Statics	3
Chem 150, 151Tx Fundamentals of Chemistry	8
Geol 113Tx Physical Geology and Laboratory	4

Phys 217Tx, 218 Physics-Science and Engineering I, II	10
Econ 266S Principles of Economics	4
<b>PE Act Physical Activities</b>	<b>2</b>
<b>Humanities and Social Science Electives</b>	<b>9</b>
<b>Additional course(s), depending on the intended major, selected from:</b>	
Engr 103 Computer Aided Drafting	3
Engr 201,202 Electric Networks I, II	8
Engr 205 Surveying I	4
Engr 221 Dynamics	3
Engr 270 Engineering Thermodynamics	3
Engr 317 Mechanics of Materials	3
Engr 321 Fluid Mechanics	3
Geol 114 Historical Geology and laboratory	4
Math 311Q Matrices and Linear Algebra	4
Math 320Q Numerical Analysis	3
Chem 358 Physical Chemistry	3
Phys 320 Modern Physics	3
Chem 250 Organic Chemistry I	4
Chem 251 Organic Chemistry II	4
<b>CU TRANSFER AGREEMENT</b>	
<b>Common courses required of most students:</b>	
Engr 104 Computer Prog. for Scientists and Engineers	3
Engr 217* Statics	3
Math 221Q, 222Q, 223Q Calculus I, II, III	12
Chem 150 Fundamentals of Chemistry	4
Phys 217Tx, 218 Physics-Science and Engineering I, II	10
<b>Humanities and Social Sciences Electives</b>	<b>6-9</b>
*Electrical, Electrical and Computer Engineering majors take Engr 238, Engr 201, Engr 202 instead. Additional courses are required for specific majors (see an Engineering advisor).	
<b>UNM TRANSFER AGREEMENT</b>	
<b>Common courses required of most students:</b>	
Comp 150 Reading and Writing in College	4
Math 221Q, 222Q, 223Q Calculus I, II, III	12

Chem 150, 151Tx Fundamentals of Chemistry	8
Engr 103 Computer Aided Drafting	3
Engr 104 Computer Programming for Scientists and Engineering	3
Phys 217Tx, 218 Physics-Science and Engineering I, II	10
Engr 201 Electric Networks I	4
Math 327Q Differential Equations	4
<b><i>PE Act Physical Activities</i></b>	<b>2</b>
<b>Minimum of 15 additional credits, depending on major, selected from:</b>	
Engr 202 Electric Networks II	4
Engr 205, 305 Surveying I, II	8
Engr 217 Statics	3
Engr 221 Dynamics	3
Engr 238 Digital Logic Design	4
Engr 270 Engineering Thermodynamics	3
Engr 317 Mechanics of Materials	3
Engr 321 Fluid Mechanics	3
Phys 320 Modern Physics	3
Math 311Q Matrices and Linear Algebra	4
CSIS 230 Object-Oriented Programming in C++	4
Chem 250, 251 Organic Chemistry I, II	8
Econ 266S Principles of Economics	4
Bio 110N Introduction to Biology	4
Bio 207 General Zoology	4
<b><i>Humanities and Social Science Electives</i></b>	
<b>USC TRANSFER AGREEMENT FOR INDUSTRIAL ENGINEERING</b>	
Engr 103 Computer Aided Drafting	3
Engr 104 Computer Prog. for Scientists and Engineers	3
Engr 105 Engineering Principles	3
Engr 201 Electric Networks I	4
Engr 217 Statics	3
Engr 221 Dynamics	3
Engr 270 Engineering Thermodynamics	3

Engr 317 Mechanics of Materials	3
Math 221Q, 222Q Calculus I, II	8
Math 311Q Matrices and Linear Algebra	4
Math 327Q Differential Equations	4
Phys 217Tx, 218 Physics-Science and Engineering I, II	10
Chem 150, 151Tx Fundamentals of Chemistry	8
Comp 150 Reading and Writing in College	4
<b><i>Humanities and Social Sciences Electives</i></b>	<b>3</b>
<b>NMSU TRANSFER AGREEMENT</b>	
<b>Common courses required of all students:</b>	
Comp 150 Reading and Writing in College	4
Math 221Q, 222Q, 223Q Calculus I, II, III	12
Chem 150 Fundamentals of Chemistry	4
Phys 217Tx, 218 Physics-Science and Engineering I, II	10
Engr 103 Computer Aided Drafting	3
Engr 104 Computer Prog. for Scientists and Engineers	3
Engr 105 Engineering Principles	3
Engr 201 Electric Networks I	4
Engr 217 Statics	3
Engr 221 Dynamics	3
Engr 270 Engineering Thermodynamics	3
Econ 266S Principles of Economics	4
Thea 121 Speech Communication	3
<b><i>Humanities and Social Science Electives</i></b>	<b>9</b>
Additional courses depending on the intended major (see an engineering advisor for specific courses).	
<b>REQUIREMENTS FOR A MINOR IN ENGINEERING:</b>	
Engr 104 Computer Prog. for Scientists and Engineers	3
Engr 105 Engineering Principles	3
Engr 217 Statics	3
<b><i>Plus three additional Engineering courses numbered 200 or above.</i></b>	<b>9-12</b>
<b>Total for Minor in Engineering</b>	<b>18-21</b>





# School of Arts and Sciences

## English

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### Course listings for English

#### **Professors**

Gordon P. Cheesewright  
Larry K. Hartsfield  
Mary Jean Moseley  
Paul N. Pavich

#### **Associate Professors**

Jennie C. Dear  
Jennifer A. Gehrman  
Faron L. Scott  
Delilah G. Orr

#### **Assistant Professors**

Bradley P. Benz  
Mark L. Berrettini  
Nancy K. Cardona  
Shawn Fullmer  
Michele M. Malach  
Celestine Woo

The work offered in English deals with several aspects of liberal education: the linguistic and literary history of Western culture; selected studies in non-Western literature in translation; human values; the relationships between cultures in the Southwest; and written and oral communication, both utilitarian and creative.

Students with other majors find the courses in English valuable for their general educational development. In addition, the English Department offers supporting courses for the Southwest Studies major, the Humanities major, and the Division of Intercultural Studies.

English advisors can help students plan courses of study preparing them for graduate or professional school; careers in business, industry, or government; careers in communications, theatre, or teaching.

The English major has three options:

*The General Option:*

A traditional English major; preparation for graduate or professional school.

*The Communications Option:*

An English major with an emphasis on mass media theory and practice; preparation for graduate school or industry.

*The English Education Option:*

Preparation for secondary school teaching. Minors in literature, writing, and communications are available for students majoring in other disciplines.

Requirements for these minors are described below.

**REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN ENGLISH:**

**Courses:**

**Credits:**

**The General Option**

General Education

35-46

\*\* Courses marked with double asterisks may also be counted toward TS 1 requirements.

**Specific Departmental Requirements:**

***Choose one from the following four courses:***

**4**

\*\*Engl 173R 20th Century Asian and African Literature

\*\*Engl 174R African-American Literature

**Engl 175R Women's Literature	
**Engl 280R Literature of the Southwest	
Engl 268W Reading Texts/Writing Texts	4
Engl 230 Survey of British Literature	4
**Engl 240R Survey of American Literature	4
Engl 320 The Novel	4
<b>Choose one of the following three courses:</b>	<b>4</b>
Engl 315 Media Writing: Topics	
Engl 363 Advanced Composition	
Engl 464 Creative Writing	
Engl 432 Shakespeare	4
<b>Choose one of the following two courses:</b>	<b>3</b>
Engl 461 History of the English Language	
Engl 462 Linguistics	
<b>Choose one Topics course in British literature from:</b>	
Engl 336, 337, 340, 430	4
<b>Choose one Topics course in American Literature from:</b>	
Engl 345, 346, 380	4
<b>Choose one additional Topics course from:</b>	
Engl 315, 317, 330, 336, 337, 340, 345, 346, 380, 417, 420, 423, 430, 477, Thea 340W, 381	4
Engl 496 Senior Seminar	4
Note: Engl 499 cannot replace Engl 496.	
<b>Subtotal Specific Departmental Requirements</b>	<b>47</b>
<b>Writing Course Within Discipline:</b>	
Included in Specific Departmental Requirements above.	
<b>Auxiliary Requirements:</b>	
Two trimesters of one college-level modern language	6-8
<i>Free Electives (variable)</i>	
(English advisors can help students select courses that will further strengthen their individual career goals.)	
<b>TOTAL REQUIRED FOR GRADUATION</b>	<b>120</b>
Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.	
<b>The Communications Option</b>	

General Education	35-46
** Courses marked with double asterisks may also be counted toward TS 1 requirements.	
<b>Specific Departmental Requirements:</b>	
**Engl 116T Introduction to Mass Communications	4
<b>Choose one of the following four courses:</b>	<b>4</b>
**Engl 173R 20th Century Asian and African Literature	
**Engl 174R African-American Literature	
**Engl 175R Women's Literature	
**Engl 280R Literature of the Southwest	
Engl 215 News Media Writing	4
<b>Choose one of the following two courses:</b>	<b>4</b>
Engl 230 Survey of British Literature	
**Engl 240R Survey of American Literature	
Engl 268W Reading Texts/Writing Texts	4
<b>Choose one of the following two courses:</b>	<b>4</b>
Engl 304 Video Production	
Engl 306 Radio Broadcasting	
<b>Choose one of the following three courses:</b>	<b>4</b>
Engl 315 Media Writing: Topics	
Engl 363 Advanced Composition	
Engl 464 Creative Writing	
Engl 416 Media Theory and Criticism	4
<b>Choose two Topics courses from the following:</b>	<b>8</b>
Engl 315 (excluding 315 if used to satisfy other major requirements), 317, 320, 330, 336, 337, 340, 345, 346, 380, 417, 420, 423, 430, 477, Thea 340W, 381	
<b>At least four credits from:</b>	<b>4</b>
Engl 250/350 Practicum-Newspaper	
Engl 251/351 Practicum-Radio	
Engl 404 Advanced Video Production	
(Note: Students are allowed a maximum of 18 credits toward graduation in practicum courses in any combination of the following: Engl 250/251 up to 6 credits and Engl 350/351 up to 12 credits.)	
Engl 496 Seminar	4
Note: Engl 499 cannot replace Engl 496.	

**Subtotal Specific Departmental Requirements** **48**

**Writing course within discipline:**

Included in Specific Departmental Requirements above.

*Free Electives (variable)*

(English advisors can help students select courses which will further strengthen their individual career goals.)

**TOTAL REQUIRED FOR GRADUATION** **120**

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

**The English Education Option**

The English Education Option gives high-quality academic preparation to students who wish to become secondary teachers of English. This option recognizes that secondary-education teachers must be able to teach in all standard areas of literature, language and composition, and frequently must also engage in teaching more specialized areas, such as reading, drama, and/or journalism. Therefore, this option is extremely demanding and requires careful planning and advising. Students choosing this option should consult the English Education Advisor as early as possible in their college careers.

**General Education** **35-46**

\*\* Courses marked with double asterisks may also be counted toward TS 1 requirements.

**Specific Departmental Requirements:**

\*\*Engl 116T Introduction to Mass Communications 4

**Choose one Literature course from the following:** **4**

Engl \*\*173R, \*\*174R, \*\*175R, \*\*221R, \*\*280R

Engl 230 Survey of British Literature 4

\*\*Engl 240R Survey of American Literature 4

Engl 268W Reading Texts/Writing Texts 4

Engl 366 Teaching Writing 4

**Choose one Topics course from the following:** **4**

Engl 317, 320, 330, 336, 337, 340, 345, 346, 380, 417, 420, 423, 430, 477

Engl 378 Young Adult Literature 4

Engl 432 Shakespeare 4

Engl 461 History of the English Language 3

Engl 462 Linguistics 3

Engl 483 Methods and Materials for Teaching High School English 4

Engl 496 Senior Seminar 4

Note: Engl 499 cannot replace Engl 496.

**Subtotal Specific Departmental Requirements** **50****Writing Course Within Discipline:**

Included in Specific Departmental Requirements above.

**Auxiliary Requirements:**

Two trimesters of one college-level modern language **6-8**

A teacher-candidate who holds a Bachelor of Arts or a Bachelor of Science degree from any institution other than Fort Lewis College is exempt from this requirement.

**Free Electives (variable)**

Secondary License Requirements

**TOTAL REQUIRED FOR GRADUATION** **120**

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

**REQUIREMENTS FOR MINORS IN LITERATURE, WRITING, AND COMMUNICATIONS:****Literature:**

*This minor requires 20 credit hours.*

**The following three courses are required:**

Engl 230 Survey of British Literature **4**

\*\*Engl 240R Survey of American Literature **4**

Engl 432 Shakespeare **4**

**Plus, two upper-division literature courses selected from the following:** **8**

Engl 320 The Novel

Engl 330 Continental Literature: Topics

Engl 336 British Renaissance Literature: Topics

Engl 337 18th Century British Literature: Topics

Engl 340 19th Century British Literature: Topics

Engl 345 American Literature: Topics I

Engl 346 American Literature: Topics II

Engl 380 Native American Literature: Topics

Engl 420 World Literary Traditions: Topics

Engl 423 Genres: Topics

Engl 430 Medieval Literature and Chaucer: Topics

Engl 477 20th Century Literature: Topics

<b>Total</b>	<b>20</b>
<b>Writing:</b>	
<i>This minor requires 16 credit hours.</i>	
<b>The following course is required:</b>	
Engl 267 Persuasion: History, Theory & Practice	4
<b>Plus, three writing courses selected from the following:</b>	<b>12</b>
Engl 215 News Media Writing	
Engl 315 Media Writing: Topics	
Engl 363 Advanced Composition	
Engl 366 Teaching Writing	
Engl 464 Creative Writing	
<b>Total</b>	<b>16</b>
<b>Communications:</b>	
<i>This minor requires 22 or 24 credit hours.</i>	
<b>The following courses are required:</b>	
**Engl 116T Introduction to Mass Communications	4
Engl 215 News Media Writing	4
Engl 304 Video Production	
OR	4
Engl 306 Radio Broadcasting	
Engl 315 Media Writing: Topics	
OR	4
Engl 363 Advanced Composition	
Engl 416 Media Theory and Criticism	4
<b>Two or four credits from:</b>	
Engl 250/350 Practicum-Newspaper	
OR	
Engl 251/351 Practicum-Radio	2 or 4
OR	
Engl 404 Advanced Video Production	
<b>Total</b>	<b>22 or 24</b>





# School of Arts and Sciences

## Course Listings for English

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### **English Engl 116T Introduction To Mass Communications (4-0) 4**

An examination of the development, organization, and functions of mass media. This course covers seven mass media: books, newspapers, magazines, movies, recordings, radio, and television. It provides both some coverage of current issues and some historical overview of mass media. Fall and winter terms.

### **Engl 126 The Bible As Literature (The Hebrew Bible) (2-0) 2**

A study of the Hebrew Bible ("Old Testament") as literature, together with its mythological, historical, and archaeological backgrounds.

### **Engl 127 The Bible As Literature (The Christian Testament) (2-0) 2**

A study of the Christian Testament ("New Testament") as literature, together with its mythological, historical, and archaeological backgrounds.

### **Engl 173R 20th Century Asian And African Literature (4-0) 4**

A study of selected 20th century novels from Asia and Africa.

### **Engl 174R African-American Literature (4-0) 4**

A study of selected 19th and 20th century works by African-American writers. Once a year.

### **Engl 175R Women's Literature (4-0) 4**

A study of literature by and about women. Fall and winter terms.

### **Engl 180N Literature of the Environment (4-0) 4**

This course is a survey of environmental literature that focuses on North America. This course includes both global and local (southwestern) perspectives. It is designed to further students' understanding of the principles of interconnectedness and sustainability and how those principles have been presented both historically and in literature. Fall and winter terms.

### **Engl 215 News Media Writing (4-0) 4**

This course will cover news writing and reporting for print media. The course will address interviewing, ethics, and law. Analysis and story types are often part of this course. Fall and winter terms.

### **Engl 221R Classical Literature (4-0) 4**

A study of ancient Greek (Hellenic) and Roman (Italic) literature and at least one of the following ancient literatures in rotation: Germanic, Celtic, Balto-Slavic, Indo-Iranian, Albanian.

### **Engl 230 Survey Of British Literature (4-0) 4**

An overview of representative British writing from its beginnings to the present. Fall and winter terms.

### **Engl 240R Survey Of American Literature (4-0) 4**

An overview of representative American writing from its beginnings to the present. Fall and winter terms.

### **Engl 250 Practicum-Newspaper 1-6**

Directed experience for lower-division students in newspaper work on the Independent. Credit is based on the ratio of 30 hours of work for each credit earned. English 250 is repeatable for a maximum of 6 credits. Fall and winter terms.

Prerequisites: Consent of instructor.

### **Engl 251 Practicum-Radio 1-6**

Directed experience for lower-division students in radio broadcasting on KDUR. Credit is based on the ratio of 30 hours of work for each credit earned. Students will be directed by the professor who will supervise and evaluate their work. Engl 251 is repeatable for a maximum of 6 credits. Fall and winter terms.

Prerequisites: Consent of instructor.

NOTE: Engl 251 has an extra fee of \$50.

### **Engl 252 Practicum-TV 1-4**

Directed experience for lower-division students producing, shooting, scripting, and editing. Credit is based on the ratio of 30 hours of work for each credit earned. Students will be directed by the professor who will assign, monitor, and evaluate their work. Engl 252 is repeatable for a maximum of six credits.

Prerequisites: Comp 150, Engl 215, Engl 304, and consent of instructor.

NOTE: Engl 252 has an extra fee of \$50.

### **Engl 258 Practicum-Service Learning 1-6**

Directed experience for lower-division students in service learning with placements in local schools or community organizations. Credit is based on the ratio of 30 hours of work for each credit earned. Students will be directed by the professor who will assign, monitor, and evaluate their work. Engl 258 is repeatable for a maximum of 6 credits. Fall and winter terms.

Prerequisites: Consent of instructor.

### **Engl 265S Semantics (4-0) 4**

A study of the meaning of language, emphasizing its social and psychological uses and abuses. Fall and winter terms.

### **Engl 267 Persuasion: History, Theory, And Practice (4-0) 4**

This course will introduce students to texts representing Western rhetorical theory and practice from the ancient Greeks to contemporary spin-doctors. Along with these readings, the course will focus on developing student writing skills and understanding the role of rhetoric in shaping intellectual, academic, political, and professional domains.

Prerequisites: Comp 150.

### **Engl 268W Reading Texts/Writing Texts (4-0) 4**

This course, which includes a brief introduction to the Western rhetorical tradition, as well as an exploration of various forms of textual and critical analysis, introduces students to ways in which reading and writing are used in literary and media studies. Fall and winter terms.

Prerequisites: Comp 150 or consent of instructor.

### **Engl 270R History Of The Film (2-2) 4**

An overview of the history of international and Hollywood narrative film. Students will be expected to attend scheduled film screenings each week. Fall and winter terms.

### **Engl 273 Introduction To Literary Types (2-0) 2**

This course will focus on a type or genre of literature, such as poetry, fiction, the short story or the essay.

### **Engl 280R Literature Of The Southwest (4-0) 4**

The American Southwest seen through fiction, poetry, biography, and other works by European Americans, Native Americans, and Chicanos/as. Fall and winter terms.

### **Engl 304 Video Production (4-0) 4**

Students will learn how to operate small video format. They will learn technical aspects, conventions, and aesthetics of small-format video production and editing. Fall and winter terms.

Prerequisites: Consent of instructor.

NOTE: Engl 304 has an extra fee of \$50.

### **Engl 306 Radio Broadcasting (4-0) 4**

An introduction to radio broadcasting through its history, economics, industry, programming, and legal issues, with considerable emphasis on production. Once a year.

Prerequisites: Consent of instructor.

NOTE: Engl 306 has an extra fee of \$50.

### **Engl 315 Media Writing: Topics (4-0) 4**

This course should be considered an advanced writing course that builds on the writing students have been exposed to in 215 and may have been exposed to in 304, 306, and the practica. Topics will include, but are not restricted to, magazine writing/long-form journalism, editorial writing, and screenplay writing. Students may repeat the course for credit, provided the subject is different on each occasion. Fall and winter terms.

Prerequisites: Engl 268W or consent of instructor.

### **Engl 317 Mass Communications: Topics (4-0) 4**

This course teaches students at an advanced level fundamental elements of the industries (including academe) attached to the discipline. This course will treat in some depth a topic essential to communication students. Topics will include, but are not restricted to, stereotyping in the media and media law and ethics. Students may repeat the course for credit, provided the subject is different on each occasion. Once a year.

Prerequisites: Engl 268W or consent of instructor.

### **Engl 320 The Novel (4-0) 4**

An in-depth study of selected European, British, and American novels. Once a year.

Prerequisites: Comp 150.

### **Engl 330 Continental Literature: Topics (4-0) 4**

An in-depth study of selected Biblical, Classical, or European texts. Course content will vary. Students may repeat the course for credit, provided the subject is different on each occasion.

### **Engl 336 British Renaissance Literature: Topics (4-0) 4**

An in-depth study of selected British writings from about 1500 to 1660. Course content will vary. Students may repeat the course for credit, provided the subject is different on each occasion.

### **Engl 337 18th Century British Literature: Topics (4-0) 4**

An in-depth study of selected British writings from the "long" 18th century (about 1660 to 1798). Course content will vary. Students may repeat the course for credit, provided the subject is different on each occasion.

### **Engl 340 19th Century British Literature: Topics (4-0) 4**

An in-depth study of British literature from the Romantic and/or Victorian periods. Course content will vary. Students may repeat the course for credit, provided the subject is different on each occasion.

### **Engl 345 American Literature: Topics I (4-0) 4**

An in-depth study of selected American writings from the beginnings to about 1865. Course content will vary. Students may repeat the course for credit, provided that the subject is different on each occasion.

### **Engl 346 American Literature: Topics II (4-0) 4**

An in-depth study of selected American writings from 1865 to the present. Course content will vary. Students may repeat the course for credit, provided that the subject is different on each occasion.

### **Engl 350 Practicum-Newspaper 1-6**

Directed experience for upper-division students in newspaper work on the Independent. Credit is based on the ratio of 30 hours of work for each credit earned. English 350 is repeatable for a maximum of 12 credits. Fall and winter terms.

Prerequisites: Engl 250 and consent of instructor.

### **Engl 351 Practicum-Radio 1-6**

Directed experience for upper-division students in radio broadcasting on KDUR. Credit is based on the ratio of 30 hours of work for each credit earned. Students will be directed by the professor who will supervise and evaluate their work. English 351 is repeatable for a maximum of 12 credits. Fall and winter terms.

Prerequisites: Engl 251 and consent of instructor.

### **Engl 352 Practicum-TV 1-4**

Directed experience for upper-division students producing, shooting, scripting, and editing. Credit is based on the ratio of 30 hours of work for each credit earned. Students will be directed by the professor who will assign, monitor, and evaluate their work. Engl 352 is repeatable for a maximum of 12 credits.

Prerequisites: Comp 150, Lib 150, Engl 215, Engl 252, Engl 304, and consent of instructor.

NOTE: Engl 352 has an extra fee of \$50.

### **Engl 358 Practicum-Service Learning 1-6**

Directed experience for upper-division students in service learning with placements in local schools or community organizations. Credit is based on the ratio of 30 hours of work for each credit earned. Students will be directed by the professor who will assign, monitor, and evaluate their work.

Engl 358 is repeatable for a maximum of 12 credits. Fall and winter terms.

Prerequisites: Consent of instructor.

### **Engl 363 Advanced Composition (4-0) 4**

An advanced writing course in which students can produce writing in particular genres-non-fiction essays, argument, etc.

Prerequisites: Engl 268W or consent of instructor.

### **Engl 366 Teaching Writing (4-0) 4**

In this course, students will study writing from a theoretical/disciplinary perspective. We will examine the history of writing instruction, differing philosophies currently at play, the research and assumptions from whence these philosophies derive, and practical classroom strategies resulting from these philosophies. Students will be required to write, both formally and informally, for a variety of purposes in this course. Winter term.

Prerequisites: Comp 150, Lib 150, and Engl 268W.

### **Engl 378 Young Adult Literature (4-0) 4**

This course is a study of all types of literature for adolescents and young adults. Evaluative criteria for book selection will be considered. Emphasis on minority and ethnic literature.

### **Engl 380 Native American Literature: Topics (4-0) 4**

A study of traditional and contemporary Native American expression as seen through oration, tales and legends, chants and songs, poetry, drama, autobiography, and the novel. Course content will vary. Students may repeat the course for credit, provided the subject is different on each occasion. Fall and winter terms.

Prerequisites: Comp 150 Note: This course is the same as SW 380; credit will only be awarded for one of these courses.

### **Engl 404 Advanced Video Production (4-0) 4**

This course introduces students who have had substantial experience with linear video production to the technical aspects, conventions, and aesthetics of non-linear, digital video production.

Prerequisites: Engl 304 and consent of instructor.

Note: Engl 404 has an extra fee of \$50.

### **Engl 416 Media Theory And Criticism (4-0) 4**

This course is designed to acquaint students with the major contemporary theories of mass communication; students will also become acquainted with critical theory and primary texts. Fall and winter terms.

### **Engl 417 Media Theory: Topics (4-0) 4**

Using the topic as a vehicle, this course will expand on and develop a theoretical tradition. Students will apply their understanding of the tradition in research projects. Course content will vary. Students may repeat the course for credit, provided the subject is different on each occasion.

Prerequisites: Engl 268W or consent of instructor.

### **Engl 420 World Literary Traditions: Topics (4-0) 4**

An in-depth study of a specific non-Western tradition in literature. Course content will vary. Students may repeat the course for credit, provided the subject is different on each occasion.

### **Engl 423 Genres: Topics (4-0) 4**

An in-depth study of a specific genre of literature. Course content will vary. Students may repeat the course for credit, provided the subject is different on each occasion.

### **Engl 430 Medieval Literature And Chaucer: Topics (4-0) 4**

An in-depth study of selected British writings from the beginnings to about 1500. Course content will vary. Students may repeat the course for credit, provided the subject is different on each occasion.

### **Engl 432 Shakespeare (4-0) 4**

A study of Shakespearean drama. Fall and winter terms.

### **Engl 450 Internship In Newspaper 1-6**

Directed experience working on newspapers, performing professional duties and responsibilities. Specific requirements will vary but include, as a minimum, keeping a detailed journal and writing a 15-page paper analyzing the organization and what the student learned. A minimum of 100 hours of directed experience must be documented, but interns usually work to complete tasks. Credit and evaluation are normally based on achieving written goals.

Prerequisites: Consent of instructor. Strongly recommended: substantial communications coursework, a competitive portfolio, 80 hours of work toward graduation, and completed internship arrangements.

### **Engl 451 Internship In Radio 1-6**

Directed experience working at radio stations, performing professional duties and responsibilities. Specific requirements will vary but include, as a minimum, keeping a detailed journal and writing a 15-page paper analyzing the organization and what the student learned. A minimum of 100 hours of directed experience must be documented, but interns usually work to complete tasks. Credit and evaluation are normally based on achieving written goals.

Prerequisites: Consent of instructor. Strongly recommended: substantial communications coursework, a competitive portfolio, 80 hours of work toward graduation, and completed internship arrangements.

### **Engl 452 Internship In Television 1-6**

Directed experience working in television, performing professional duties and responsibilities. Specific requirements will vary but include, as a minimum, keeping a detailed journal and writing a 15-page paper analyzing the organization and what the student learned. A minimum of 100 hours of directed experience must be documented, but interns usually work to complete tasks. Credit and evaluation are normally based on achieving the goals in a written contract signed by the student, the supervisor, and the practicum instructor, on the journal and on the analytic paper.

Prerequisites: Consent of instructor. Strongly recommended: substantial communications coursework, 80 hours of work toward graduation, and completed internship arrangements.

### **Engl 453 Internship In Communications 1-6**

Directed experience in media writing/production that does not directly involve newspaper, radio, or television. The internship will be described in ways appropriate to the work, such as "Public Relations," "World Wide Web," "Advertising," "Layout and Design," "Magazine," "Newsletter," "Video Production." Credit and evaluation are based on achieving the goals in a written contract signed by the student, the supervisor, and the practicum instructor, on a journal documenting at least 100 hours of directed experience, and on a 15-page analytic paper.

Prerequisites: Consent of instructor. Strongly recommended: substantial communications coursework, a competitive portfolio, 80 hours of work toward graduation, and completed internship arrangements.

### **Engl 460 Historical Analysis Of Language (1-0) 1**

Additional study in language history.

Prerequisites: Concurrent enrollment in Engl 461.

### **Engl 461 History Of The English Language (3-0) 3**

An examination of the dramatic ways the English language has changed over the past 1500 years, from its origins as an obscure west-Germanic dialect to its present state as a distinct, global language spoken by hundreds of millions of people. Winter term.

### **Engl 462 Linguistics (3-0) 3**

An introduction to the systematic study of language, covering the many levels of structure working in language: from sounds to words to sentences to discourse. While the focus will be on English, those features shared by all languages will be emphasized, including social attitudes towards language use. Fall and winter terms.

### **Engl 463 Linguistic Analysis (1-0) 1**

A course in language analysis, applying principles learned in English Linguistics.

Prerequisite: Concurrent enrollment in Engl 462.

### **Engl 464 Creative Writing (4-0) 4**

An advanced writing course with concentrations in poetry and/or short fiction. Students may repeat the course for credit, but may apply it only once toward the major. Fall and winter terms.

Prerequisites: Comp 150, Lib 150, and consent of instructor.

### **Engl 477 20th Century Literature: Topics (4-0) 4**

An analysis of selected European, British, or American writings from the 20th century. Course content will vary. Students may repeat the course for credit, provided the subject is different on each occasion.

### **Engl 483 Methods And Materials For Teaching High School English (4-0) 4**

Introduces and expands on materials and methods for teaching literature, language, and composition in the secondary schools. Includes principles for the selection of literature for high school students and the relationship of language and composition to the total secondary program. Teaching techniques are a point of emphasis. To be taken in the fall trimester, prior to student teaching. Offered Fall term only.

Prerequisites: Consent of instructor or completion of 90 credits.

### **Engl 496 Senior Seminar (4-0) 4**

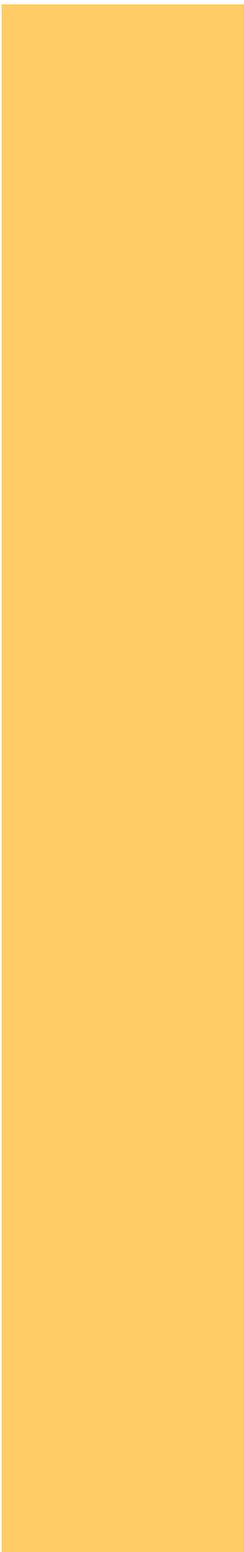
Advanced study and research in selected topics. Fall and winter terms.

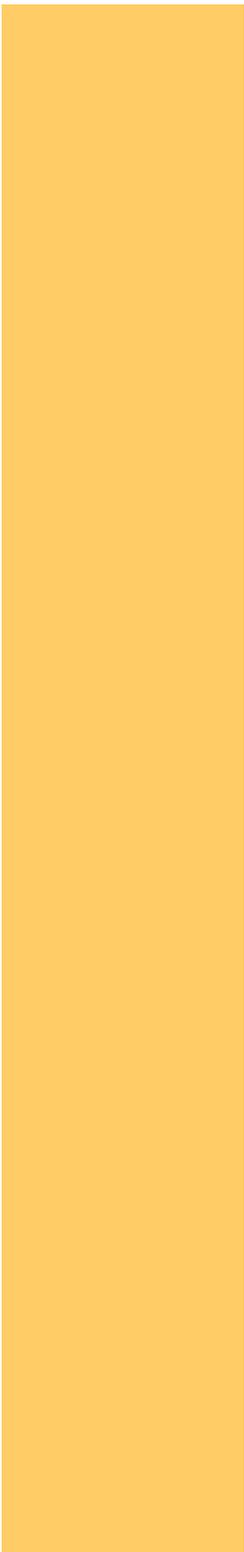
Prerequisites: At least one survey course and at least one topics course, any Group W course, and consent of instructor.

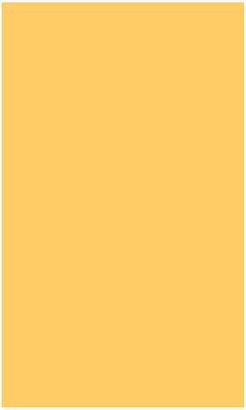
### **Engl 499 Independent Study 1-6**

Individual research is conducted under the supervision of a faculty member.

Prerequisites: Consent of instructor.









# School of Arts and Sciences

## Environmental Policy

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### Environmental Policy Minor Coordinator

Robert R. Bunting

### Advisors

John W. Byrd, Biology

Robert R. Bunting, Southwest Studies and History

Reyes R. Garcia, Philosophy

Gary Gianniny, Geosciences

Donald R. Gordon, Anthropology

Andrew Gulliford, Director, Southwest Studies Center

Marilyn S. Leftwich, Psychology

Dale E. Lehman, Economics

Mark Seis, Sociology/Human Services

Leslie E. Sommerville, Chemistry

Environmental Policy takes a transdisciplinary approach to the study of broad-based environmental issues, from the point of view of the sciences and areas of humanities, social sciences, and policy. Students of any major can complement their course of study and demonstrate their commitment to environmental concerns by completing this minor. Additional goals for the Environmental Policy minor include providing information to students who may desire post-graduate training in an area of environmental concern and advising by Environmental Policy area advisors about career and graduate school opportunities. Courses in the science area or courses that could fulfill general requirements are recommended to the student who wishes to pursue this minor. It is the spirit of this minor to provide students with a breadth of experience across various departments. Students are strongly recommended to work closely with their advisor to choose courses that complement their major area of specialization.

Students interested in completing the minor should contact the coordinator, Dr. Robert Bunting, as soon as possible so they can learn about campus events, new courses, internships, and practicum opportunities relevant to the minor. There are three components to the minor:

◆ Students select 18 hours from a list of existing course representing the spectrum of perspectives on environmental issues (see below). A maximum of four credits can be applied toward the minor from an Independent Study, Internship, Innovative Month, or Practicum with the prior approval of the coordinator.

◆ Students must also take a statistics course and at least two lab science courses; these are listed as auxiliary requirements (see below) and may be used to meet major requirements as well as the minor. In addition, two courses must be taken outside the departments of Agriculture, Biology, Chemistry, Geosciences, and Physics/Engineering.

◆ Finally there is an integrative capstone course, GS 495, taken in the junior or senior year in which students and faculty of varied background come together to work on joint projects related to local, regional, or national environmental concerns.

### REQUIREMENTS FOR THE ENVIRONMENTAL POLICY MINOR:

#### Courses:

#### Credits:

#### Specific Requirements:

- |   |   |
|---|---|
| 1. GS 495 Environmental Colloquium  | 4 |
| 2. 18 hours of additional credit chosen from the list below, at least nine hours of which must be upper-division credits. |   |

No more than 4 credits from Independent Study, Internship, Innovative Month, or Practicum are allowed without prior approval of coordinator. It is the spirit of this minor to provide students with a breadth of experience across various departments. Students are strongly recommended to work closely with their advisor to choose courses that complement their major area of specialization.

NOTE: NO MORE THAN ONE COURSE FROM YOUR MAJOR DEPARTMENT WILL COUNT TOWARD THIS MINOR.

List of possible courses for the minor (the prerequisites for each selected course must also be taken):

\*\* Courses marked with double asterisks may also be counted toward TS 1 requirements.

#### Agriculture:

Ag 300 Agricultural Issues in Society	3
Ag 301 Range Management	4

#### Anthropology:

Anth 225 Introduction to Population Issues	1
Anth 356 Ecological Anthropology	4

#### Biology:

Bio 120 Environmental Conservation	3
**Bio 141N Global Ecological Issues	3
Bio 220 Fundamentals of Ecology	4
**Bio 241N Environmental Policy Analysis	3
Bio 471 Field Ecology	5

**Chemistry:**

Chem 123/323 Chemistry for Consumers 3

**Economics:**

Econ 335 Environmental Economics 4

**Engineering:**

Engr 205 Surveying I 4

**Geography:**

\*\*Geog 271R World Geography 3

Geog 320 Natural Regions of North America 3

**Geology:**

\*\*Geol 110Nx Earth Science 3

Geol 325 Introduction to Remote Sensing 3

Geol 401 Natural Resources and the Environment 3

**Philosophy:**

\*\*Phil 252N Environmental Ethics 4

Phil 352 Ecology and Morality 3

**Physics:**

Phys 400 Science and Human Values 2

**Political Science:**

PS 305 Environmental Politics 3

**Sociology:**

Soc 310 Ecology and Society 4

Soc 311 Ecology and Society Field School 8

**Southwest:**

\*\*SW 181N U.S./Southwest Environmental History 3

**Thematic Studies:**

TS2N 406 Water in the West 4

Relevant courses from a variety of disciplines may also be offered as 190, 390, 191, or 391 courses.

See the Environmental Policy coordinators and/or advisors about current offerings that could be applied toward a minor in Environmental Policy.

PRIOR APPROVAL FROM COORDINATORS OF THE ENVIRONMENTAL POLICY MINOR MUST BE OBTAINED IN ORDER TO HAVE THESE COURSES INCLUDED AS PART OF THE MINOR.

Additional courses may be added to this list from time to time; consult the environmental policy coordinator for current listings.



**Auxiliary Requirements:**

1. One course in statistics (choose from \*\*Psych 241Q, \*\*Math 201Q, \*\*BA 253Q).
2. Two laboratory science courses, which may be taken as part of the major.



# School of Education

## Course Listings for Exercise Science

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### **ES 100 Fitness And Wellness (1-0) 1**

A 7½-week course that examines the basic physiological principles of exercise and nutrition. Students will acquire strategies for the development of a personal fitness plan, effective weight management, stress management, and how to make healthy lifestyle choices. Fall and winter terms.

### **ES 150R Sociocultural Foundations Of Human Movement (3-0) 3**

An introductory study of the historical, cultural, sociological and philosophical aspects of exercise, sport and human movement. Fall and winter terms.

### **ES 165 Community First Aid And Safety (2-0) 2**

Study and practice of American Red Cross first aid/CPR procedures in handling common injuries, accidents and medical emergencies. Fall and winter terms.

### **ES 185 Introduction To Coaching (ASEP) (2-0) 2**

This introductory course is the American Sport Education Program's Sport Science Coaching Course. It covers the areas of Coaching Philosophy, Sport Psychology, Sport Pedagogy, Sport Physiology, Sport Management and Sport Specific Planning. The course covers what is important for a coach to know and presents the material in a manner that is of practical value to a coach. A series of videotapes helps create an atmosphere of discussion that gives students practical ways of handling coach/player relationships and situations. The student who passes the ASEP exam will receive ASEP certification which is rapidly becoming the required coaching certification. Fall and winter terms.

### **ES 186 Physical Conditioning (0-2) 1**

This course introduces the student to method and techniques in the area of Physical Conditioning. It will emphasize three major areas: power development, speed enhancement, and aerobic/anaerobic conditioning. Emphasis will be placed on the student's ability to instruct in these three areas. Fall and winter terms.

### **ES 205 American Red Cross Emergency Response (2-0) 2**

This class will train those individuals who have a duty to respond in emergency situations (first responders) with the knowledge and skills necessary to help sustain life, reduce pain, and minimize the consequences of injury or sudden

illness until advanced medical help arrives. The course will prepare students to make appropriate decisions about the care to provide in an emergency. Fall and winter terms.

### **ES 220 Clinical In Basic Athletic Training (0-2) 1**

This course is designed to provide the student with an introduction to the clinical aspects of the athletic training profession. The student will observe athletic training in the college, high school, and private clinical settings. Students will be instructed in common taping applications and training room management. (Includes a minimum of 50 hour clinical component.) Fall and winter terms.

Prerequisites: ES 224 and ES 205 or concurrent enrollment in both courses.

### **ES 221 Clinical Application of Therapeutic Modalities (0-2) 1**

This course is designed to provide students with the knowledge of skills needed for the proper application of therapeutic modalities commonly found in the athletic training room. This course focuses on patient preparation, set-up, determination of dosage, indications and contraindications and operational procedures. Students will be exposed to injury tracking software as it is used in the athletic training room. (Includes a 200 hour minimum clinical component.)

Prerequisites: ES 224 and consent of the instructor.

### **ES 224 Basic Principles Of Athletic Training (3-0) 3**

An introduction to the field of athletic training. Professional opportunities in this field are discussed. Students will develop a basic understanding of athletic injuries as they relate to prevention, nature and causes. Fall and winter terms.

### **ES 225 Techniques Of Coaching Football (2-0) 2**

Classroom instruction directed toward the various phases of American football; history, defensive theory, strategy, personnel, offensive theory, the kicking game, practice organization, relationship and influence of teachers, parents, booster clubs and news media. Winter term.

### **ES 226 Techniques Of Coaching Volleyball (2-0) 2**

The study of history, strategies, rules, methods, and organization involved in coaching volleyball. Both theoretical and practical applications will be developed. Winter term.

### **ES 227 Techniques Of Coaching Basketball (2-0) 2**

The analysis of the game of basketball in theory and application with special emphasis upon teaching and coaching the game. Development of offense, defense, and special situations for both prospective coaches and enthusiasts.

Fall term.

### **ES 230 Techniques Of Coaching Softball (2-0) 2**

The study of history, strategies, rules, methods, and organization involved in coaching softball. Both theoretical and practical applications will be developed. Offered on demand.

### **ES 231 Techniques Of Coaching Soccer (2-0) 2**

The study of principles, methods, techniques and strategies involved in coaching soccer. Offered on demand.

### **ES 233 Officiating Football (1-0) 1**

Designed to provide individuals with the rules, skills and mechanics of officiating. Includes rules of the National Federation of High Schools, National Association of Intercollegiate Athletics and National Collegiate Athletic Association. Fall term.

### **ES 234 Officiating Volleyball (1-0) 1**

Instruction in the rules and practice of the mechanics and skills of officiating volleyball at the high school and college levels. Fall term, alternate years.

### **ES 235 Officiating Basketball (1-0) 1**

Designed to teach the student the rules, skills and mechanics of officiating basketball. Winter term.

### **ES 237 Officiating Softball (1-0) 1**

Designed to provide students with the rules, skills and mechanics for umpiring in softball. Offered on demand.

### **ES 238 Officiating Soccer (1-0)1**

Designed to provide students with the rules, skills and mechanics for officiating soccer. Offered on demand.

### **ES 240 Clinical In Manual Muscle Testing (0-2) 1**

This course will provide the student with the necessary vocabulary and professional writing skills necessary to document and comprehend a complete muscular evaluation. The student will learn and demonstrate actual muscle testing including origins, insertions, actions and specific tests. (Includes a 200 hour minimum clinical component.)  
Winter term.

Prerequisites: Instructor permission.

### **ES 243S Personal Health (3-0) 3**

This course is a study of personal health and wellness. Every effort will be made to create a practical approach toward developing awareness, education, and growth that will allow for enhanced personal wellness. The responsibility for our health and personal well-being belongs to each of us individually. This course will allow students to gain an understanding of how they as individuals fit into a complex system of interconnectedness. Various theories of wellness will be presented to emphasize the importance of balancing the connection of body, mind, and spirit for intrapersonal health, interpersonal health, community health, and global health. Fall and winter terms.

### **ES 250 Teaching Competencies In Tumbling, Aquatics And Fundamental Skills (0-2) 1**

A course designed to develop teaching competencies for planning, instruction, behavior management and assessment in tumbling, aquatics and fundamental skills. Fall and winter terms.

### **ES 251 Teaching Competencies In Dance, Recreational Games And Non-Traditional Sports (0-2) 1**

A course designed to develop teaching competencies for planning, instruction, behavior management and assessment in dance, recreational games and non-traditional sports. Fall and winter terms.

### **ES 252 Teaching Competencies In Basketball, Soccer, Softball And Volleyball (0-2) 1**

A course designed to develop teaching competencies for planning, instruction, behavior management and assessment in basketball, soccer, softball and volleyball. Fall and winter terms.

### **ES 253 Teaching Competencies In Fitness, Golf And Racquet Sports (0-2) 1**

A course designed to develop teaching competencies for planning, instruction, behavior management and assessment in fitness, golf and racquet sports. Fall and winter terms.

### **ES 260 Lifeguard Training (American Red Cross) (1-2) 2**

Students will learn American Red Cross professional lifeguard skills and gain knowledge needed to prevent and respond to aquatic emergencies. Winter term. Prerequisites: Students must successfully pass a swimming skills test in order to remain enrolled in the course.

### **ES 261 Water Safety Instructor (1-2) 2**

Water safety instructors course designed to train and certify (Red Cross) teachers of swimming. Fall term.

### **ES 262 Lifeguard Training Instructor ( 1-2) 2**

This course will train and certify instructors to teach American Red Cross Lifeguard Training, CPR for the professional rescuer, community water safety, lifeguarding instructor aid and other water safety courses. Offered on demand.

Prerequisites: ES 260.

### **ES 283 Evaluation Of Athletic Injuries (2-2) 3**

This course will present the student with the techniques required to provide a thorough evaluation of athletic injuries. A standard model for evaluation will be presented. The cognitive aspects of evaluation will be discussed and the psychomotor tasks practiced. Winter term.

Prerequisites: ES 224 and Bio 121Tx, or concurrent enrollment.

### **ES 300 Sport In Film (1-2) 2**

This course will take a conceptual and sociological look at sport through its films both contemporary and classic. Viewings, discussions, debates, critical reviews and writings will be used to explore the themes, issues and methods used in selected films and the interrelationships of sport, human movement, society and film. Offered on demand.

### **ES 301W Current Issues In Sport (3-0) 3**

This course will address critical issues in writing in exercise science using issues in sport as a basis for writing, reading, and discussion. Special emphasis is placed on developing skills necessary for becoming successful writers in the field. Instruction and evaluation focuses on the writing of research papers, poster presentations, journal article reviews, laboratory reports, essays and oral presentations. Fall and winter terms.

Prerequisites: Comp 150, Lib 150, junior standing.

### **ES 302W Issues In Health And Well-Being (3-0) 3**

This course will address issues in writing in exercise science using the topics of Health and Well-Being as a basis for writing, reading and discussion. Students will explore and critically analyze these topics and share their perspectives through discourse mediums used by professionals in the fields of Health and Exercise Science, such as research papers, poster presentations, journal article reviews and proposals, computer/video presentations and oral presentations. Fall and winter terms.

Prerequisites: Comp 150, Lib 150, junior standing.

### **ES 312 Administration Of Intramural Programs (1-2) 2**

The course will give the student information in all pertinent areas of intramural administration. In addition, each student will have "hands on" experience working in the Fort Lewis College Intramural and Recreation Program.

Offered on demand.

### **ES 320 Clinical In Manual Therapy (0-2) 1**

This course will provide the athletic training student with the skills necessary to adequately perform therapeutic massage, joint mobilization and manipulation and therapeutic exercise. The physiologic effects of massage, connective tissue massage and various techniques of application will be discussed and practiced. The theory and principles of joint mobilization and manipulation will also be discussed and practiced. (Includes a 200-hour minimum clinical component.) Fall term.

Prerequisites: Instructor permission.

### **ES 335 Kinesiology And Biomechanics (4-0) 4**

An in-depth study of the basic body movements, osteology, applied myology, spatial relations of muscles to joints, aggregate muscle action, kinesiological constructs of summation of internal forces, aerodynamics and hydrodynamics, techniques for cinematographical and noncinematographical analysis of sport skills. The study of methods, mechanics and analysis of movement as applied to the structure and function of the human organism will also be discussed. Fall and winter terms.

Prerequisites: Bio 121Tx.

### **ES 337 Sport Ethics (3-0) 3**

An inquiry into ethics and morality as these apply to sport and physical education. Students will engage in critical and reflective thinking about what values they believe should characterize competitive sports and the professions of athletics and physical education. Students will explore how they will respond to ethical dilemmas in sport and continue to develop their own moral reasoning ability.

Prerequisites: Junior standing.

### **ES 339 Practicum In Sport Administration 1**

The implementation of theories and practices in a professional setting under the direction of a qualified practitioner. Students will participate in a part-time experience in an agency, corporation, or other sport-related entity for exposure to various professional areas of employment. Minimum requirement: 50 clock hours.

Prerequisites: Junior standing and permission of the instructor.

### **ES 340 Motor Learning And Control (3-0) 3**

Concepts involved in learning motor skills, the individual variables which affect this learning, and the practice and techniques for improving motor performance. Fall and winter terms.

Prerequisites: Psyc 157 and junior standing.

### **ES 345 Legal Aspects Of Sport And Physical Education (3-0) 3**

This course will introduce the student to legal regulations and issues in sport and physical education. The principles of risk management and the recognition and reduction of potential legal issues and their consequences will be emphasized.

Prerequisites: Comp 150 and BA 260.

### **ES 350 Measurement And Evaluation (3-0) 3**

Basic statistical procedures necessary to analyze and interpret data collected from tests in exercise science. The selection and administration of testing instruments that measure objectives from the three domains of human performance. Fall and winter terms.

Prerequisites: Junior standing.

### **ES 353 Nutrition For Fitness And Sport (3-0) 3**

This course is a study of the principles of nutrition as a science with special emphasis on the importance of nutritional decisions for the physically active individual. Metabolism, energy systems, food choices, energy sources, nutritional analysis, body weight and composition, weight management and optimal nutrition for physical performance are topics to be discussed. Fall and winter terms.

Prerequisites: Bio 121Tx.

### **ES 354 Adapted Exercise (2-2) 3**

Course includes an overview of the legislation impacting adapted exercise programs; exceptional conditions and disabilities affecting individuals in exercise programs, assessment tests and diagnostic instruments. It includes practical experience in teaching exceptional students in diverse exercise settings, and arranging and prescribing a program to meet the needs of students with specific disabilities. Fall and winter terms.

### **ES 360 Exercise Physiology (4-0) 4**

This course deals with the physiological principles underlying specific aspects of physical fitness and human exercise performance. Emphasis is placed on the nature of the metabolic, muscular, cardiovascular and pulmonary responses to various forms of short- and long-term exercise workouts as well as specific adaptations to exercise training. Where possible, the potential health-related aspects of exercise training will be explored. Fall and winter terms.

Prerequisites: Bio 121Tx.

### **ES 361 Advanced Exercise Physiology: Lab Procedures And Clinical Protocols (2-2) 3**

This course is an examination of advanced topics in exercise physiology, lab procedures and clinical protocols. Advanced fitness/diagnostic testing and exercise prescription will be the focus of this course. Topics to be studied include, but are not limited to, environmental extremes and physiological adaptations during exercise protocols for various clinical populations. The development of the exercise prescription for various sub-clinical populations will also be discussed. Each topic will have an accompanying laboratory experience.

Prerequisites: ES 360.

### **ES 363 Computer Applications In Exercise Science (2-2) 3**

This course is designed to provide students with a general introduction to computer use in Exercise Science including hands-on experience. Fall and winter terms.

Prerequisites: Exercise Science major.

### **ES 375 Psychology Of Sport And Exercise (3-0) 3**

A study of psychological phenomena that influence sport and exercise performance, i.e., personality, anxiety, stress, motivation, aggression, group dynamics, concentration, imagery, arousal regulation, self-confidence, leadership, communication, addictive or unhealthy behaviors and aggression. Fall and winter terms.

Prerequisites: Psyc 157.

### **ES 381 Methods And Curriculum For K-12 Physical Education (4-0) 4**

A course in pedagogy for the entry-level K-12 school physical educator. Emphasis will be placed upon values, curriculum construction, content standards, instructional techniques, professional responsibilities and evaluation as related to teaching through physical activities. Fall and winter terms.

### **ES 385 Therapeutic Modalities (2-0) 2**

The theoretical basis of therapeutic modalities will be explored as well as the clinical application of those modalities in the treatment of athletic injuries. Fall term.

Prerequisites: ES 283.

### **ES 387 Reconditioning Of Athletic Injuries (3-0) 3**

Students will examine the theory and physiological basis of rehabilitating athletic injuries. Practical experience in a clinical-type setting will be used to help students develop skills of exercise testing, manual testing, PNF, goniometry

and program planning. Winter term.

Prerequisites: ES 283.

### **ES 389 Coaching Internship 2**

This course satisfies the coaching internship requirement for the Exercise Science Department Coaching Minor. It consists of the student securing and completing a coaching position that will consist of 100 hours of work. These hours may include: practices, practice planning, games, travel and any other organizational or related tasks. A supervisor must be involved who can evaluate the student's performance.

Prerequisites: Two Theory of Coaching classes.

### **ES 420 Capstone Clinical In Athletic Training (0-2) 1**

This course will function to prepare the student for the National Athletic Trainers' Board of Certification Exam by "bringing it all together." Students will be given practice in all aspects of the Certification Examination. (Includes a 200 hour minimum clinical component.) Fall term.

Prerequisites: Permission of the instructor.

### **ES 424 Advanced Athletic Training (3-0) 3**

This course deals with the knowledge and values an athletic trainer must possess in pharmacological applications and general medical conditions. Students will gain knowledge of how to recognize, treat and refer, when appropriate, general medical conditions common to athletes. Students will also develop an awareness of the indications, contraindications, precautions and interactions of medications used to treat the medical conditions. Fall term.

Prerequisites: ES 224.

### **ES 425 Clinical In Medical Science (0-2) 1**

This course will provide the athletic training student with the skills and clinical proficiencies necessary to recognize the signs, symptoms and predisposing conditions associated with disease and the utilization of pharmaceutical products. The course focuses on identifying and documenting medications commonly prescribed to athletes and others involved in physical activity. The course also provides the students practice in identification of common medical conditions. Winter term.

Prerequisites: Permission of the instructor.

### **ES 450 Internship For The Exercise Specialist (3-0) 3**

Directed clinical experiences performing professional duties in fitness, health promotion, cardiac rehabilitation, clinical exercise technology or leisure organization settings. Specific requirements will depend upon the supervising college faculty member. The intern's performance will be evaluated by both the organization's supervisor and the assigned college faculty member. Fall and winter terms.

### **ES 455 Internship In Sport Administration 8-12**

Full-time application of previous theoretical and applied knowledge and skills in a professional setting, supervised by a qualified sport administrator. Fall and winter terms.

Prerequisites: ES 355, senior standing, Major GPA of 2.50, completion of at least 80% of major coursework, and permission of the instructor.

### **ES 480 Administration Of Programs In Exercise Science (3-0) 3**

Relationships, procedures and problem-solving approaches in effective organization and administration of exercise, fitness and sport programs. Budget, use of facilities and equipment, legal responsibilities, public relations, policy development and supervision are analyzed. Fall and winter terms.

Prerequisites: Junior standing.

### **ES 495 Research Design and Development (1-0) 1**

Studies methods and techniques of research used in Exercise Science and analyzes examples of their use. Students will complete a formal research proposal, participate in a formal proposal hearing, and complete Institutional Review Board requirements for student research. Fall and winter terms.

Prerequisites: ES 350.

### **ES 496 Senior Seminar And Research In Exercise Science (2-0) 2**

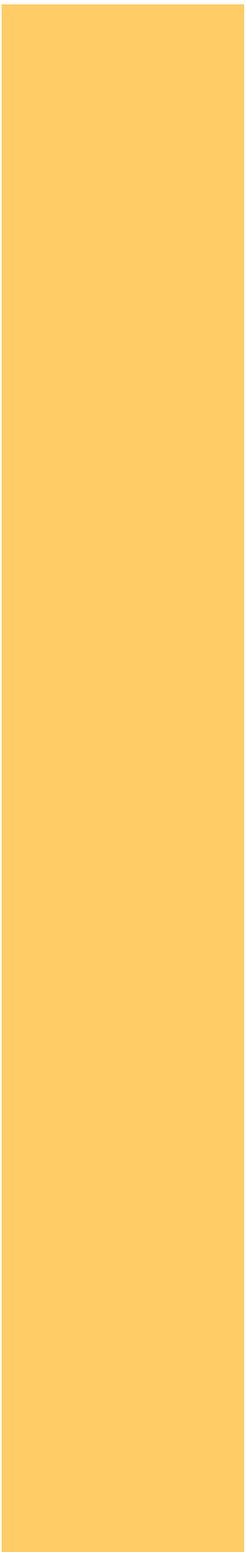
Discussions and inquiries dealing with contemporary issues, trends and problems in exercise science. Completion of data collection and synthesis for the senior research project proposed in ES 495. Fall and winter terms.

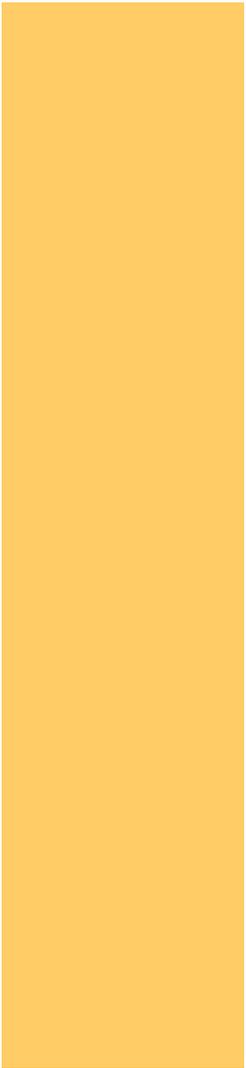
Prerequisites: ES 495 and senior standing.

### **ES 499 Independent Study 1-6**

Opportunity to investigate a significant problem through laboratory or library research under the supervision of a faculty member. Fall and winter terms.

Prerequisites: Senior standing and approval of department chair and instructor after presentation of a problem outline.







# School of Education

## Exercise Science

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### Course Listings for Exercise Science

#### **Professors**

Paul W. Petersen  
Charles H. Walker

#### **Assistant Professors**

James S. Cross  
Mary Ann Erickson  
Marcelyn B. Jung  
Melissa Knight-Maloney  
Cathy M. Simbeck  
JoAnn C. Soignier

#### **Departmental Mission:**

The Exercise Science Department aims to meet the needs of our graduates to function more efficiently as professionals in our discipline and to compete more favorably in today's job market by providing students with a variety of opportunities to develop a scientific knowledge base, engage in practical experiences, and learn, develop and master social and leadership skills. Students acquiring this knowledge will be prepared to pursue unlimited opportunities through occupations such as teaching, coaching, administration, athletic training, as well as other recreational, wellness, and fitness careers. The department also endeavors to provide the students of Fort Lewis College with opportunities to learn and experience the components of healthy living, life-long activities, and sport competition.

#### **Objectives:**

1. The professional preparation of skilled teachers of human movement and exercise forms as well as qualified persons in the allied areas of administration, coaching, athletic training, and the field of fitness.
2. A meaningful program (individual, dual, and team activities) stressing the lifetime value of activity for all students.
3. Practical extracurricular experiences in health, fitness, exercise, and athletic training.

4. Professional leadership for the intramural, recreational, and fitness activities of the students. Programs of Study: The Exercise Science Department has developed four options within the Exercise Science major. These options provide concentrated study in many of the disciplines associated with the Exercise Science major. The options are:

- 1) Athletic Training for those interested in sports injury evaluation and rehabilitation.
- 2) Exercise Specialist, a flexible option for individuals interested in a variety of opportunities in the field of Exercise Science. This option can provide the foundation for those interested in personal training, physical therapy, or graduate study in Exercise Science.
- 3) K-12 Teaching option for those wanting to become physical educators in the school system. It is strongly advised that all students interested in the K-12 option consult with the Teacher Education Department to ensure that all licensure requirements are met.
- 4) Sport Administration option studies the business and administrative aspects of sport and recreation. The students in this option will study in both the Exercise Science department and the School of Business. As with all majors, the Exercise Science faculty encourages strong contact with Exercise Science advisors to ensure timely completion of the major.
- 5) Minor Options

#### **REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN EXERCISE SCIENCE:**

##### **Athletic Training Option:**

##### **Courses:**

**Credits:**

##### **General Education**

**35-46**

\*\* Courses marked with double asterisks may also be counted toward TS 1 requirements.

##### **Specific Departmental Requirements:**

ES 205 Emergency Response	2
ES 220 Clinical in Basic Athletic Training	1
ES 224 Basic Athletic Training	3
ES 240 Clinical in Manual Muscle Testing	1
**ES 243T Personal Health	3
ES 283 Evaluation of Athletic Injuries	3

ES 301W Current Issues in Sport	
OR	3
ES 302W Issues in Health and Well-Being	
ES 320 Clinical in Manual Therapy	1
ES 335 Kinesiology and Biomechanics	4
ES 340 Motor Learning and Control	3
ES 350 Measurement and Evaluation	3
ES 353 Nutrition for Fitness and Sport	3
ES 360 Exercise Physiology	4
ES 361 Advanced Exercise Physiology	3
ES 363 Computer Applications	3
ES 385 Therapeutic Modalities	2
ES 375 Psychology of Sport and Exercise	3
ES 387 Reconditioning of Athletic Injuries	3
ES 420 Capstone in Athletic Training	1
ES 424 Advanced Athletic Training	3
ES 425 Clinical in Medical Science	1
ES 480 Administration of Programs in Exercise Science	3
ES 495 Research Design and Development	1
ES 496 Senior Seminar	2
<b><i>Subtotal Specific Departmental Requirements</i></b>	<b>59</b>
<b>Auxiliary Department Requirements:</b>	
**Bio 121Tx Human Anatomy & Physiology	3
Psych 157 Introduction to Psychology	3
<b><i>Subtotal Auxiliary Requirements</i></b>	<b>6</b>
<b>MAJOR TOTALS</b>	<b>65</b>
Free Electives (variable)	
<b>TOTAL REQUIRED FOR GRADUATION</b>	<b>120</b>

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

Candidates for admission to the Athletic Training Education Program compete for available slots within the educational program. It is possible for students to meet all admittance requirements and still not be accepted into the program. See the Program Director for further details. Once accepted into the Athletic Training Education Program, students who qualify for Federal and State work-study may complete work-study hours in the athletic training room.

## Fort Lewis College Athletic Training Education Program Application Criteria and Process

### **PURPOSE OF THE APPLICATION:**

1. To inform interested students of the requirements for acceptance into the Athletic Training Education Program at Fort Lewis College.
2. To establish equal student opportunity for acceptance by providing comparable background information on student applicants for the screening committee.
3. To serve as a contract for acceptance into the Athletic Training Education Program at Fort Lewis College.

### **PREREQUISITES OF APPLICATION:**

1. Proof of enrollment in ES 224 with a grade of 'B' or better.
2. Proof of enrollment in ES 220 with a grade of 'B' or better.
3. Proof of enrollment in ES 205 with a grade of 'B' or better.
4. Proof of enrollment in Anatomy and Physiology (Bio 121Tx) with a grade of 'C' or better.
5. A current minimum overall grade point average of 2.5.
6. An Exercise Science grade point average of 3.0.

### **APPLICATION PROCEDURE:**

All applicants for the Athletic Training Education Program must submit the following materials to the Program Director by the first Monday in April (for Fall admittance) or the first Monday in December (for Winter admittance).

1. Cover Sheet
2. Letter of Application
3. Resume
4. A Statement of Personal Philosophy
5. Letters of recommendation:
  - a. Two from FLC Faculty members:  
One in the Exercise Science Department  
One outside the Exercise Science Department
  - b. One from an adult professional outside FLC (immediate family excepted). Someone who is familiar with your professional goals and your work ethic.
6. A completed Athlete Registration Packet (available in the training room).
7. A copy of all unofficial transcripts.

Once the application has been accepted, an interview with the screening committee will be conducted to discuss the application. Completed application is not a guarantee of admittance into the Athletic Training Education Program.

## **FOUR-YEAR INSTRUCTIONAL PLAN FOR ATHLETIC TRAINING OPTION**

**Fall Freshman Year**

**Winter Freshman Year**

Bio 121+Lab	3		
ES 205	2		
Psych 157	3	ES 243	3
TS 1 Gen Ed and or Electives	5	Comp 150	4
PE Activity	1	Lib 150	1
ES 100	1	TS 1 Gen Ed and/or Electives	6
<b>Total</b>	<b>15</b>	<b>Total</b>	<b>14</b>

**Fall Sophomore Year****Winter Sophomore Year**

ES 224	3	ES 283	3
ES 220	1	ES 240	1
ES 353	1	ES 335	4
PE Activity	1	ES 301 or ES 302W	3
TS 1 Gen Ed and/or Electives	7	TS 1 Gen Ed and/or Electives	7
<b>Total</b>	<b>13</b>	<b>Total</b>	<b>18</b>

**Fall Junior Year****Winter Junior Year**

ES 320	1	ES 375	3
ES 385	2	ES 340	3
ES 360	4	ES 387	3
ES 361	3	ES 425	1
TS 2 Gen Ed and/or Electives	7	TS 2 Gen Ed and/or Electives	6
<b>Total</b>	<b>16</b>	<b>Total</b>	<b>16</b>

**Fall Senior Year****Winter Senior Year**

ES 424	3		
ES 420	1	ES 496	2
ES 495	1	ES 480	3
TS 2 Gen Ed and/or Electives	10	TS 2 Gen Ed and/or Electives	9
<b>Total</b>	<b>15</b>	<b>Total</b>	<b>14</b>

**Exercise Specialist Option****Courses:****Credits:****General Education****35-46**

\*\* Courses marked with double asterisks may also be counted toward TS 1 requirements.

**Specific Departmental Requirements:**

**ES 150R Sociocultural Foundations of Human Movement	3
ES 301W Current Issues in Sport OR ES 302W Issues in Health and Well-Being	3
ES 335 Kinesiology & Biomechanics	4
ES 340 Motor Learning & Control	3

ES 350 Measurement & Evaluation	3
ES 353 Nutrition for Fitness & Sport	3
ES 354 Adapted Exercise	3
ES 360 Exercise Physiology	4
ES 361 Advanced Exercise Physiology	3
ES 363 Computer Applications in Exercise Science	3
ES 450 Internship for the Exercise Specialists	3
ES 480 Administration of Programs in Exercise Science	3
ES 495 Research Design and Development	1
ES 496 Senior Seminar & Research in Exercise Science	2
<b><i>Sub-Total of Specific Departmental Requirements</i></b>	<b>41</b>
<b>Auxiliary Department Requirements:</b>	
**Bio 121Tx Human Anatomy & Physiology	3
Psych 157 Introduction to Psychology	3
<b><i>Subtotal of Auxiliary Requirements</i></b>	<b>6</b>
<b>MAJOR TOTALS</b>	<b>47</b>
Free Electives (variable)	
<b>TOTAL REQUIRED FOR GRADUATION</b>	<b>12</b>

**K-12 Teaching Option:**

<b>Courses:</b>	<b>Credits:</b>
<b>General Education</b>	<b>35-46</b>
** Courses marked with double asterisks may also be counted toward TS 1 requirements.	
<b>Specific Departmental Requirements:</b>	
**ES 150R Sociocultural Foundations of Human Movement	3
ES 224 Basic Principles of Athletic Training	3
**ES 243S Personal Health 3 ES 250 Competencies to Teach	1
ES 251 Competencies to Teach	1
ES 252 Competencies to Teach	1
ES 253 Competencies to Teach	1

ES 301W Current Issues in Sport OR	3
ES 302W Issues in Health and Well-Being	
ES 335 Kinesiology and Biomechanics	4
ES 340 Motor Learning and Control	3
ES 350 Measurement and Evaluation	3
ES 354 Adapted Exercise	3
ES 360 Exercise Physiology	4
ES 363 Computer Applications in Exercise Science	3
ES 375 Psychology of Sport and Exercise	3
ES 381 Physical Education Curriculum and Methods	4
ES 480 Administration of Programs in Exercise Science	3
ES 495 Research Design and Development	1
ES 496 Senior Seminar and Research in Exercise Science	2
<b>Subtotal Specific Departmental Requirements</b>	<b>50</b>
<b>Auxiliary Department Requirements:</b>	
**Bio 121Tx Human Anatomy & Physiology	3
Psych 157 Introduction to Psychology	3
<b>Subtotal Auxiliary Requirements</b>	<b>6</b>
<b>MAJOR TOTALS</b>	<b>56</b>
Free Electives (variable)	
<b>TOTAL REQUIRED FOR GRADUATION</b>	<b>120</b>

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

If Teaching Licensing is desired students must also complete the appropriate K-12 teacher licensure program courses listed in the Teacher Education section. Teaching option is K-12 only.

### Sports Administration Option

<b>Courses:</b>	<b>Credits:</b>
<b>General Education</b>	<b>35-46</b>

\*\* Courses marked with double asterisks may also be counted toward TS 1 requirements.

### Specific Departmental Requirements:

**ES 150R Sociocultural Foundations of Human Movement	3
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ES 301W Current Issues in Sport	3
ES 345 Legal Aspects of Sport and Physical Education	3
ES 337 Sport Ethics	3
ES 339 Practicum in Sport Administration	1
ES 363 Computer Applications in Exercise Science	3
ES 375 Psychology of Sport and Exercise	3
ES 455 Internship in Sport Administration	8-12
ES 480 Administration of Programs in Exercise Science	3
ES 495 Research Design and Development	1
ES 496 Senior Seminar and Research in Exercise Science	2
<b>Subtotal Specific Departmental Requirements</b>	<b>33-37</b>
<b>School of Business Requirements:</b>	
**BA 260S Legal Environment of Business	3
BA 301 Management and Organizational Behavior	4
BA 340 Marketing	4
BA 348 Public Relations	3
**Econ 266S Principles of Economics	4
Acc 225 Introduction to Financial Accounting	4
<b>Subtotal School of Business Requirements</b>	<b>22</b>
Note: A minimum of C- must be earned in 300- and 400-level School of Business requirements.	
<b>Auxiliary Department Requirements:</b>	
Psych 157 Introduction to Psychology	3
<b>Subtotal Auxiliary Requirements</b>	<b>3</b>
<b>MAJOR TOTALS</b>	<b>58-62</b>
Free Electives (variable)	
<b>TOTAL REQUIRED FOR GRADUATION</b>	<b>120</b>

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

#### **SPORT ADMINISTRATION COMPETITIVE ADMISSION REQUIREMENTS**

1. Sophomore standing
2. Written application stating objectives
3. Interview with faculty committee
4. Cumulative GPA of 2.50

5. Two letters of recommendation
  - a) One character reference from an adult mentor
  - b) One FLC faculty reference of professional potential

### **SPORT ADMINISTRATION INTERNSHIP REQUIREMENTS**

1. Senior standing
2. Major GPA of 2.50
3. Completion of all major course work

### **REQUIREMENTS FOR A MINOR IN COACHING**

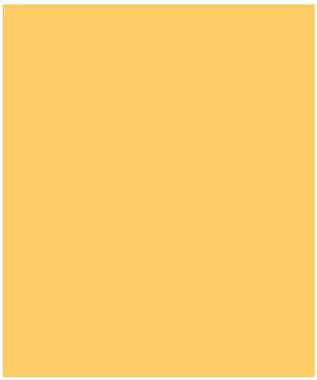
**Bio 121Tx Human Anatomy and Physiology	3
Psyc 157 Introduction to Psychology	3
ES 185 Introduction to Coaching	2
ES 224 Basic Principles to Athletic Training	3
ES 225-231 Techniques of Coaching-2 courses	4
ES 353 Nutrition for Fitness and Sport	3
ES 360 Exercise Physiology	4
ES 375 Psychology of Sport and Exercise	3
ES 451 Coaching Internship	2

**Total Credits** **27**

### **REQUIREMENTS FOR A MINOR IN EXERCISE SCIENCE**

**Bio 121Tx Human Anatomy and Physiology	3
Psyc 157 Introduction to Psychology	3
**ES 150R Sociocultural Foundations of Human Movement	3
ES 335 Kinesiology and Biomechanics	4
ES 360 Exercise Physiology	4
Two Additional Upper-Division Exercise Science Courses	4-6

**Total Credits** **21-23**





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A student, by the act of registration, automatically incurs a financial obligation to the College requiring full payment of tuition and fees and accepts responsibility for complying with all College policies and procedures.

In the same manner, a student incurs a debt to the College for room and board at the moment of check-in into a Fort Lewis College residence hall. All such charges are due and payable in full at the time specified by the College.

Personal expenses, such as clothing, travel, social activities, books and supplies, depend on the individual and are in addition to the scheduled expenses. In the event that financial aid is delayed, students are encouraged to come prepared to purchase their books and supplies for those first important days of class.

## **TUITION AND FEES FOR FALL AND WINTER TRIMESTERS**

Students registering for eight credits or less will be charged by the credit hour plus part-time fees. Students who take over 8 credits, up to and including 18, during either the Fall or Winter Trimester will be charged full tuition and fees. Students registering for more than 18 credits will be assessed an additional charge per credit hour.

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## TUITION AND FEES FOR SUMMER SESSIONS

For each session, students will be charged tuition by the credit hour plus student fees. Part-time student fees will be assessed for three credit hours or fewer per session. Full-time student fees will be assessed for more than three credit hours per session.

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## OTHER EXPENSES

Students who initially register after the first day of the term will be assessed a \$25.00 late registration charge. A Matriculation Fee of \$55, which includes the Student ID Card Fee, will be added to the bill when the student registers for classes. If the student withdraws on or before the first day of the term, the Matriculation Fee is refundable. If the student withdraws on or after the second day of the term, the Matriculation Fee is non-refundable.

Certain courses may have "Course Specific Fees" for students enrolled in those courses. Course fees are specified in the College Course Schedule and also are listed [here](#). Any student presenting to the College a check dishonored by the bank for any reason will be charged a redeposit fee of \$20.00 per check. A notice of the dishonored item will be sent by mail to the student's local mailing address on file with the Records Office.

The student must then present payment to the Cashier's Office in cash or certified funds for the dishonored check and the redeposit fee within two weeks from the date of the notice. Failure to do so may result in termination of student status at Fort Lewis College.

For additional information, including housing charges, please consult the appropriate Tuition and Fees Brochures available from the Admission and Development Office, Financial Aid Office, Cashier's Office, and the Accounts Receivable Office, or [here](#).

The State Board of Agriculture, governing body for Fort Lewis College, reserves the right to change any fee at any time without formal notice whenever conditions warrant such change.

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## STUDENT BILLING AND PAYMENT CONDITIONS

The student will receive a bill and is responsible for the payment of all charges, including tuition, fees, room, and board. If parents wish to accept this responsibility, then the STUDENT must FORWARD a copy of the bill to their parents.

Similarly, payment of the final bill must reach the Cashier's Office by the published Census Date. Census Date is approximately two weeks after the start of the Fall and Winter Trimesters and the fifth day of each Summer Session.

A financial statement for students who early register will be mailed to their permanent address approximately four weeks prior to the start of Fall and Winter terms. Statements for Summer terms will be sent to the local address approximately two weeks prior to the term.

Accounts can be paid by check, VISA, Master Card or Discover at the Cashier's Office, located in 140 Berndt Hall, or paid electronically on WEBOPUS using a credit card. Also available is a monthly Prepayment Budget Installment Program established by the Fort Lewis College Foundation for payment of tuition, fees, and on-campus room and board. For additional information, call and ask for Student Alternative Financing at (970) 247-7184.

Only under special circumstances will a request for delayed payment of any charges be considered. Requests for delayed payment must be submitted to the Accounts Receivable Office located in 140 Berndt Hall. Failure to make payments when due will subject the student to a late payment fee and termination of student status at Fort Lewis College.

For those students who cannot make full and complete payment at the scheduled time, the College will consider exceptions to the general policy only in individually documented cases of hardship in which the student's financial resources become available subsequent to the payment due date. Fort Lewis College will not register a student nor provide a transcript for any student or former student with a past due financial obligation to the College.

All students who have outstanding balances after the final payment date and who have not made satisfactory arrangements with the Accounts Receivable Office will be required to clear all balances by CASH or CERTIFIED FUNDS ONLY.

A student with a past-due obligation to Fort Lewis College is subject to a late payment charge as follows:

<b>Past-Due Balance:</b>	<b>Charge:</b>
\$ 25.00 to \$100.00	\$10.00
\$100.01 to \$300.00	\$20.00
\$300.01 to \$500.00	\$30.00
\$500.01 to \$700.00	\$40.00
\$700.01 and up	\$50.00

A notice of pending financial termination of student status will be sent by mail to the student's local address on file

with the Records Office (a student is required to promptly notify the Records Office of any change in the permanent or local mailing address). If payment is not received, nor a payment plan approved, by the Accounts Receivable Office within two weeks of the notice date, the student's enrollment for that trimester may be terminated.

To be eligible for re-enrollment in subsequent terms, the student must pay the outstanding obligation to the College, and if two subsequent trimesters have passed, the student must submit an application for readmission to the Admission and Development Office. If fewer than two trimesters have elapsed, then the student is eligible to register without reapplying to the College. In this case, the student must first reactivate his/her student status at the Records Office.

If the student subsequently pays the bill and requests reinstatement of course credits and grades after financial termination, then that student will be required to pay, or provide proof of approved financial aid, for future tuition and fees before being permitted to register for any future classes. Fort Lewis College is required by the State of Colorado to submit all delinquent accounts to Central Collections at 60 days past due or 30 days past the registration period for the next trimester for current students.

Should this become necessary, reasonable collection costs will be added to the amount due and shall be paid by the debtor. If the State of Colorado obtains judgment from a court of competent jurisdiction, the debtor shall be liable for the collection agency fee as well as reasonable court costs and attorney's fees.

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### **TUITION ADJUSTMENT: ADDING AND DROPPING CLASSES**

A student is permitted to change course loads by adding or dropping courses with no grade records during a designated period at the beginning of each trimester. A student's tuition and fees will be adjusted according to the net number of credits for which he or she is registered on the final date for adding courses.

If an exception is made that allows a student to add or drop classes subsequent to the designated period, tuition and fees will be assessed for the net credits added but will not be adjusted for the net credits dropped.

Policies, procedures, fees, and deadlines for adding and dropping courses are published in the Schedule of Courses for each term.

#### *Important Reminders:*

◆ The class-drop process may not be used to withdraw from college after the first day of the term. Please refer to section on Official Withdrawal.

- ◆ Non-attendance does not constitute a drop or a withdrawal.

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## **OFFICIAL WITHDRAWAL FROM COLLEGE**

This information is available electronically under "Withdraw from Current Term" in the Registration Menu in [WEBOPUS](#) and also [here](#) on Fort Lewis College's web site.

### *Important Reminders:*

- ◆ Date of withdrawal is important in determining assessed charges. For Official Withdrawal after the first day of the term, please refer to above section link for important dates regarding tuition and fee adjustments, housing and meal charges and/or financial aid.

- ◆ Students who receive financial aid and then withdraw may be required to repay all or a proportionate amount of aid received. Repayment amounts are determined in accordance with federal state and institutional regulations and policies. The amount owed back to federal (Title IV) financial aid programs is determined by a "Return of Title IV Funds" formula based on the date the student withdraws, as well as applicable charges and payments.

- ◆ A student withdrawn for financial reasons is responsible for payment of the account in full.

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## **STATE RESIDENCY CLASSIFICATION FOR TUITION PURPOSES**

A student is classified as an in-state or out-of-state student for tuition purposes at the time of admission. This classification is based upon information supplied by the student on the application for admission and is made in accordance with the Colorado Tuition Classification Law, CRS Section 23, Article 7, revised May 1995. (The Colorado Revised Statutes are available in the reference section of the John F. Reed Library at Fort Lewis College.) Colorado institutions of higher education are bound by the provisions of this statute and are not free to make exceptions to the rules set forth.

Once determined, a student's tuition classification status remains unchanged unless satisfactory evidence that a change should be made is presented. Satisfactory evidence would be a Petition for In-State Residency and should be submitted to the Admission Office for first-time students, or to the Records Office for continuing students. The

deadline for submission of a Petition for In-State Residency is the first day of the term for which the student is petitioning. It is preferred that petitions be received 30 days prior to the beginning of the term. Petitions received past the deadline will not be considered until the following term. Students may contact the Admission or Records Office for additional information about the petitioning process.

The statute provides that an in-state student is one who has been a legal domiciliary (resident) of Colorado for exactly one year or more immediately preceding the first day of the term for which the in-state classification is being sought. Persons over 22 years of age or who are under 22 and emancipated establish their own legal domicile. Those who are under 22 years of age and are unemancipated assume the domicile of their parent or court-appointed legal guardian. An unemancipated minor's parent, therefore, must have a legal domicile in Colorado for one year or more before the minor may be classified as an in-state student for tuition purposes. Emancipation, as defined by Colorado State Statute, is the intent of the parent to cease all financial support of the student. Financial support includes, but is not limited to, daily expenses, tuition, medical insurance, automobile insurance, and automobile ownership.

Domicile is established when one has a permanent place of habitation in Colorado and the intention of making Colorado one's true, fixed, and permanent home and place of habitation. The tuition statute places the burden of establishing a Colorado domicile on the person seeking to establish the domicile. The question of intent is one of documentable fact and needs to be shown by substantial connections with the state sufficient to evidence such intent.

Legal domicile in Colorado, for tuition purposes, begins the day after connections with Colorado are made sufficient to evidence one's intent. The most common ties with the state are:

- (1) ownership or rental of residential real property in Colorado
- (2) permanent employment in Colorado
- (3) compliance with laws imposing a mandatory duty on any domiciliary of the state, such as the driver's license law and the vehicle registration law
- (4) Colorado voter registration
- (5) payment of Colorado state income taxes as a resident by one whose income is sufficient to be taxed.

***Caution: payment or filing of back taxes in no way serves to establish legal domicile retroactive to the time filed.***

To qualify for in-state tuition for a given term, the 12-month waiting period (which begins when the legal domicile is established) must be completed by the first day of classes for the term in question. If one's 12-month waiting period expires after the beginning of the term, in-state tuition cannot be granted until the next term.

A student who, due to subsequent events, becomes eligible for a change in classification from resident to non-resident or vice-versa must inform the Records Office within 15 days after such a change occurs.

An adult student or emancipated minor who moves outside of Colorado must send written notification to the Records Office within 15 days of the change.

*If a student who has been denied in-state residency in the past wishes to be reconsidered for in-state residency, the student must submit to the Records Office an updated Petition for In-State Residency form with any additional documentation.*

The final decision regarding tuition status, within statute stipulation, rests with the College. Questions regarding residence (tuition) status should be referred only to the Records Office. Opinions of other persons are not official or binding upon the College. Additional information (including the "Petition for In-State Classification" form) is available from the Records Office in 160 Miller Student Center.

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### **RESIDENT TUITION FOR ACTIVE DUTY MILITARY PERSONNEL**

The Colorado Legislature has authorized resident tuition for active duty military personnel on permanent assignment in Colorado and for their dependents (as defined by military regulations).

*ELIGIBLE STUDENTS MUST BE CERTIFIED EACH TERM.*

Students obtain a completed verification form from the base education officer and submit the form with their military ID to the Records Office prior to registering for classes. Students who have military certification remain classified as non-residents for tuition purposes and must petition to change their status once they establish permanent ties to Colorado.

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### **NEW MEXICO RECIPROCAL STUDENT PROGRAM**

The Colorado Commission on Higher Education and the New Mexico Board of Educational Finance have signed an agreement allowing a limited number of selected New Mexico resident students, usually from San Juan county, to enroll at Fort Lewis College at the in-state rates. Each year a fixed number of students will be allocated to Fort Lewis College under this program. For details, consult the Admission and Development Office.

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### **HOUSING RESERVATIONS**

Rooms in residence halls and apartments are reserved, if space is available, upon receipt of a signed Housing Agreement and a \$100 security deposit. This deposit and Housing Agreement will reserve accommodations for the fall and winter trimesters of each academic year (eight months), or the remaining portion thereof if the entering date occurs after the opening date of the fall trimester. The \$100 deposit, less any damages or obligations owed the College, will be returned approximately sixty (60) days after the close of the winter trimester unless the student has applied for the following trimester, in which case the security deposit will be carried over and no additional deposit will be required. For details of the refund policy for room and board charges, contact the Student Housing and Conference Services Office.

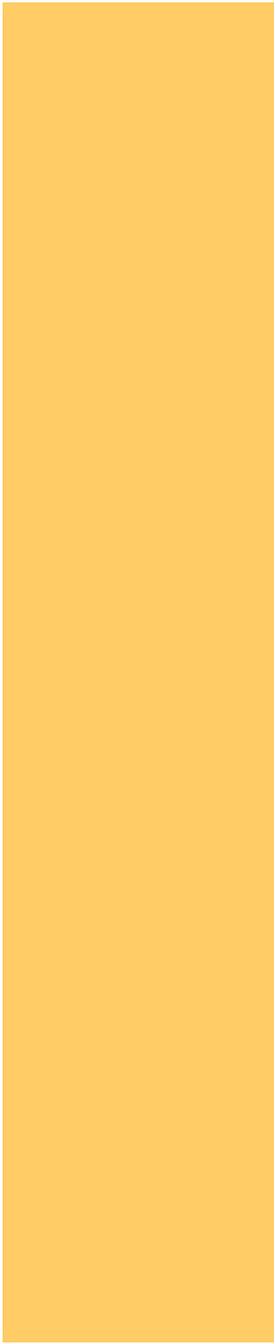
Residents living in the apartment complexes will be permitted to remain in their units during official College vacation periods provided they will be continuing residence during the eight-month contract period. College residence halls are closed during official vacation periods. Residents withdrawing from school and terminating occupancy at the end of the fall or winter trimester must vacate residency prior to the last calendar date of the particular trimester.

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## **SUMMER HOUSING**

The College provides on-campus housing in apartments during the summer months. If new to campus housing, a \$100 security deposit is required when making a housing application for the summer months. For more information, contact the Student Housing Office.

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# Financial Aid Programs

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## **Federally Funded Programs**

### **State Funded Programs**

### **Institutionally Funded Programs**

### **Application Procedure**

Fort Lewis College offers a complete student financial aid program of scholarships, grants, loans, and student employment.

## **FEDERALLY FUNDED PROGRAMS**

1. Federal Pell Grant
2. Federal Perkins Loans
3. Federal Supplemental Educational Opportunity Grant (SEOG)
4. Federal College Work-Study
5. Federal Stafford Loan (Subsidized and Unsubsidized)
6. Federal PLUS Loan (Parent Loan)
7. Leveraging Educational Assistance Partnership Program (LEAPP)

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## **STATE-FUNDED PROGRAMS**

1. Colorado Student Grant (CSG)
2. Colorado Scholars Program

- a. Presidential Scholarship (entering freshmen only)
- b. Continuing Student Scholarship (continuing Fort Lewis College students only)
  
3. Athletic Award (men and women)
  
4. Colorado Work-Study Program
  
5. Colorado Diversity Grant Program
  
6. Governor's Opportunity Scholarship (GOS)

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### **INSTITUTIONALLY FUNDED PROGRAMS**

1. Fort Lewis College Foundation Scholarships and Awards
  
2. First-Generation College Student Award Program
  
3. Valedictorian/Salutatorian Scholarship
  
4. Leadership Award
  
5. Transfer Scholarship
  
6. Western Undergraduate Exchange
  
7. Dean's Scholarship
  
8. Academic Excellence Scholarship (continuing Fort Lewis College students only)
  
9. Ambassador Service Scholarship
  
10. Athletic Award (men and women)

All financial aid awards, with the exception of Athletic Awards, Presidential Scholarships, Continuing Student Scholarships, the Unsubsidized Stafford Loan, the PLUS loan, and some institutional and Fort Lewis College Foundation scholarships/awards, are based on financial need.

Every effort is made to provide the best type of aid or combination of aid to assist students in completing a college education. All financial aid awards, however, are contingent upon availability of funds. A number of other scholarships are available. Eligibility and selection criteria vary depending on donor instructions. Additional information may be obtained from the Office of Financial Aid.

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## APPLICATION PROCEDURE

Students wishing to be considered for all programs of need-based student financial aid are required to complete and submit the federal financial aid application called the Free Application For Federal Student Aid (FAFSA). The FAFSA may be obtained from the student's high school counselor, from an Office of Financial Aid (OFA) at any local college or university, or from the Office of Financial Aid  
Fort Lewis College  
1000 Rim Drive  
Durango, CO  
81301-3999

The "Federal School Code" is required on the last page of the FAFSA. The Fort Lewis College code number is **001353**. The student's financial aid application for the 2003-04 school year (Summer 2003, Fall 2003, Winter 2004, and Summer 2004 Trimesters) should be completed and mailed as soon as possible after January 1, 2003, because most of the need-based aid programs are awarded on a highest need, first-come, first-served basis.

Once the financial aid application file is complete in all respects, the determination of eligibility for various awards is made. Awards are offered from the various aid programs until all funds have been awarded. In order to allow adequate time for completion of the aid application file, it is strongly advised that the student mail the FAFSA no later than February 15, 2003.

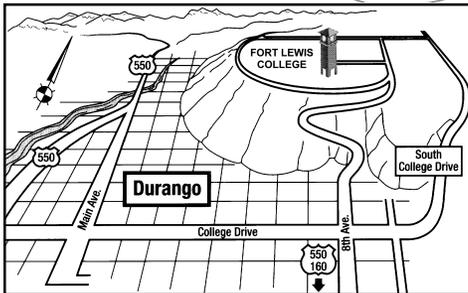
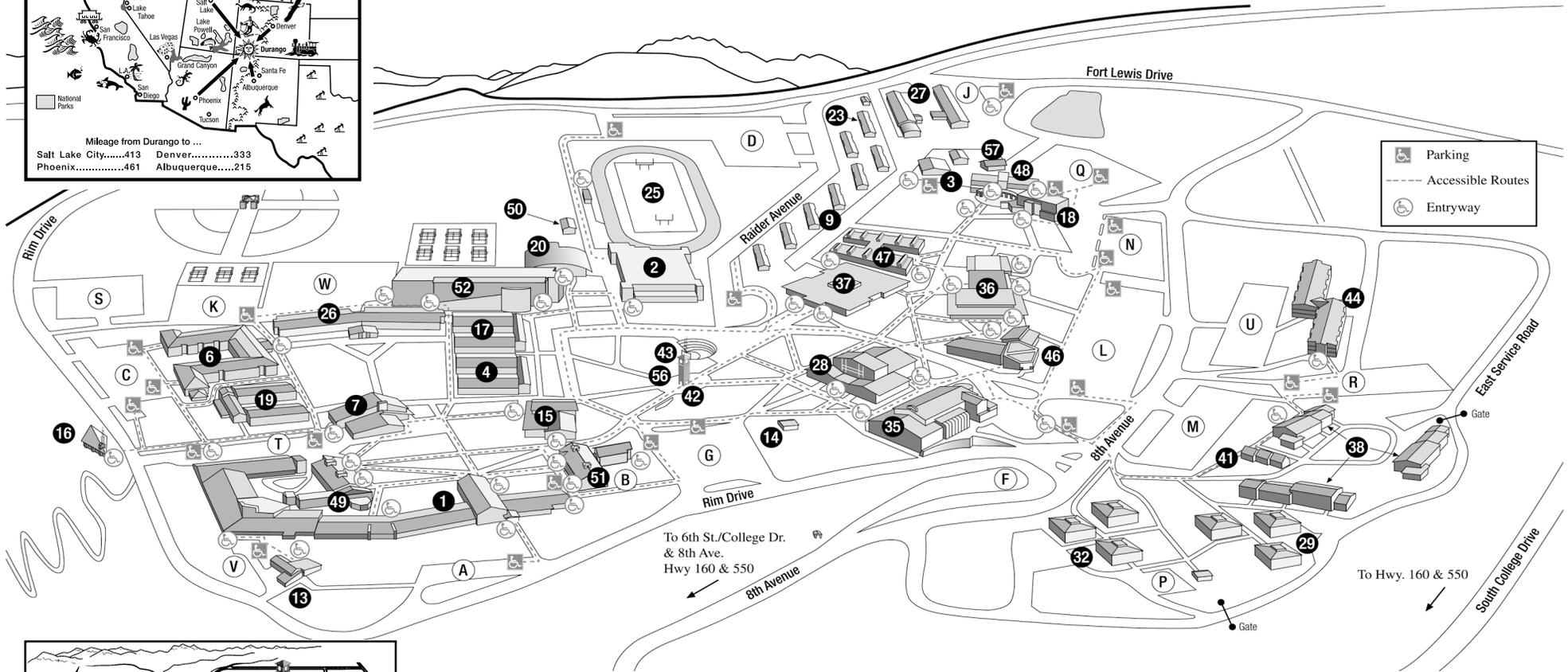
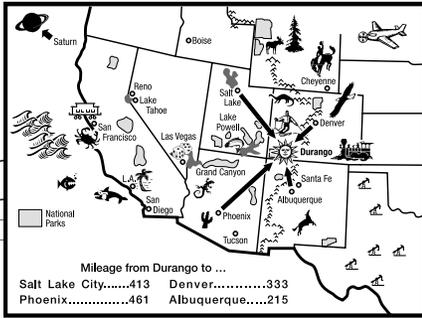
Students who complete their application later may still qualify for some need-based financial aid programs (Federal Pell Grant and/or Federal Stafford Loan), but limited campus-based aid, including work-study, will likely not be available. Eligible students wishing to borrow from the Stafford Loan Program will be sent information about the electronic loan application procedure when they accept the offer.

A loan application "Borrower Information Sheet" must then be completed by the student and submitted to the Office of Financial Aid for certification. Complete consumer information relevant to all student services programs is available upon request. Requests for information should be directed to the appropriate office.

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# Fort Lewis College Campus Map



- 1 Berndt Hall**  
 Academic Affairs Vice President  
 Accounts Receivable & Payable  
 Agriculture  
 Biology  
 Budget Office  
 Business & Finance Vice President  
 Cashier  
 Computer Center  
 Computer Labs  
 Extended Studies  
 External Affairs
- Geology  
 Human Resources  
 Marketing & Publications  
 Physics & Engineering  
 Planning  
 President  
 Public Relations  
 Purchasing  
 Records  
 Student Affairs Vice President

- 2 Gym**  
 Exercise Science
- 3 Geology Field Laboratory**
- 4 Camp-Snyder Hall**
- 5 Water Systems**
- 6 West Residence Hall**
- 7 Miller Student Services**  
 Center for Academic Readiness  
 Conferences & Summer Programs  
 Financial Aid  
 Health Center  
 Housing/Residence Life  
 Native American Center  
 Program for Academic Advancement  
 Public Safety
- 8 North Complex A (1-4)**
- 9 North Complex B (5-8)**
- 10 North Complex C (9-12)**
- 11 North Complex D (13-16)**
- 12 North Complex E (17-20)**

- 13 Kroeger Hall**  
 Admission  
 Alumni Office  
 Foundation Office
- 14 Career Services**
- 15 Theatre**
- 16 McPherson Memorial Chapel**
- 17 Crofton-Mears Hall**
- 18 Concert Hall**
- 19 Escalante-Palmer Hall**
- 20 Natatorium**  
 Varsity Athletic Offices
- 21 North Complex F (21-24)**
- 22 North Complex G (25-28)**
- 23 Child Development Center**
- 24 Old House**
- 25 Stadium**
- 26 Cooper Hall**
- 27 Physical Plant Services**
- 28 Reed Library**  
 Center for Instructional Technology  
 Cooperative Education  
 Sociology/Human Services
- 29 Bader A Hall**

- 30 Bader B Hall**
- 31 Bader C Hall**
- 32 Sheridan A Hall**
- 33 Sheridan B Hall**
- 34 Sheridan C Hall**
- 35 College Union**  
 Ballroom  
 Blue & Gold Room  
 Bookstore  
 Cafeteria & Snack Bar  
 Environmental Center  
 Independent Newspaper  
 Information Desk  
 KDUR Radio  
 Off-Campus Housing Information  
 Post Office  
 San Juan Room & ABC Rooms  
 Senate Room  
 Student Government  
 Student Memorial Lounge  
 Union & Activities Office
- 36 Sage Hall**  
 History  
 Music

- Roshong Recital Hall
- 37 Hesperus Hall**
- 38 Centennial A Apartment (1000)**
- 39 Centennial B Apartment (2000)**
- 40 Centennial C Apartment (3000)**
- 41 Centennial Service Building**
- 42 Old Fort Plaza**
- 43 Amphitheater**
- 44 Anasazi Apartment (4000)**
- 45 Anasazi Apartment (5000)**
- 46 Noble Hall**  
 Counseling Center  
 English & Modern Languages  
 Learning Assistance Center  
 Mathematics  
 Political Science  
 Dean, School of Arts and Sciences  
 Disability Services
- 47 Art Hall**  
 Art Department  
 Art Gallery

- 48 Center of Southwest Studies**  
 Anthropology  
 Southwest Studies  
 Office of Community Services  
 Division of Local Government
- 49 Chemistry Hall**
- 50 Skyhawk Hall**  
 Exercise Science Labs
- 51 Education and Business Building**  
 Dean, School of Business Administration  
 Dean, School of Education  
 Computer Labs  
 Psychology  
 Small Business Development Center  
 Teacher Education
- 52 Student Life Center**  
 Outdoor Pursuits
- 53 Chemical Storage**
- 54 Custodial Services**
- 55 Project Management**
- 56 Charles Dale Rea Memorial Tower**
- 57 Colorado State Forest Service (Office)**
- 58 Colorado State Forest Service (Shop)**



# School of Arts and Sciences

## Forestry

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### Course listings for Forestry

Fort Lewis College has formal transfer agreements with Colorado State University (CSU) and Northern Arizona University (NAU) whereby students can complete the first two years of study at Fort Lewis College and then transfer to the other institution for the last two years of professional training. Students then receive a bachelor of science degree in forestry or a related natural resources field from CSU or from NAU.

Students who transfer to CSU can complete a degree in any of the 12 majors/concentrations areas listed at the end of this section. NAU offers a single degree program in Forestry - Concentration in Multiresource Management. It is an integrated, team-taught curriculum in which students learn to address the impacts of land management decisions on all resources including timber, wildlife, range, water, recreation, and scenic beauty.

#### **To transfer to CSU, a student must:**

1. Be enrolled in the forestry program at Fort Lewis College for two years.
2. Have an overall grade point average of at least 2.00 (2.50 for international students).
3. Complete at least 60 credits in the forestry program at Fort Lewis College.
4. Qualify otherwise for admission to the College of Forestry and Natural Resources.

#### **To transfer to NAU, a student must:**

1. Be enrolled in the forestry program at Fort Lewis College for at least one semester.
2. Have an overall grade point average of at least 2.5 (for early and automatic acceptance) or 2.0 (for possible acceptance).
3. Complete at least 61.5 credits in the forestry program at Fort Lewis College.

**Students interested in transferring to either CSU or NAU should consult with a member of the biology faculty early in their careers at Fort Lewis College to obtain specific course requirements and other information.**

**Majors and concentrations in natural resource fields at CSU:**

Watershed Sciences

Forestry - Concentrations in Forest Management and Forest Fire Science

Forestry - Concentration in Forestry Business

Forestry - Concentration in Forest Biology

Forestry - Concentration in Wood Science and Technology

Natural Resources Management

Range and Forest Management Range

Ecology - Concentrations in Land Rehabilitation and Range Ecology

Fishery Biology

Wildlife Biology

Recreational Resources Management

Concentrations in:

Recreation Resource Administration

Resource Interpretation

Recreation Resources

Management - Concentration in Commercial Recreation and Tourism



# School of Arts and Sciences

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### **For 218 Fundamentals Of Ecology (3-3) 4**

A study of the fundamental relationships among organisms and their environments. One all-day Saturday field trip is required. Fall and winter terms.

This course is the same as Bio 220; credit will be given for only one of these courses.

Prerequisites: Bio 206 or 207, Math 121, and Math 201 or Psyc 241.



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## THE COLLEGE

Fort Lewis College is a four-year, state-assisted undergraduate institution that offers quality baccalaureate degree programs in the arts and sciences and in the professional areas of education and business.

Fort Lewis has an enduring commitment to develop and maintain its programs at a level equal to those of other outstanding undergraduate institutions in the nation.

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## MISSION

*The following mission statement has been adopted by the State Board of Agriculture, the governing body of Fort Lewis College.*

The mission of Fort Lewis College is to open minds and kindle thought and action by instilling in students knowledge, a desire to acquire knowledge, the tools for doing so, and an understanding of how knowledge can be put to use for a common good.

The experiences students have here should help them learn to live wisely and should make a significant difference in

their futures by enabling them to pursue their own educational goals throughout their lives. They should be able to demonstrate thoughtful scholarship in pursuing and weighing knowledge. They should be able to communicate and cooperate with others.

The College should also play an active role in the community and the region as a multifaceted learning resource. Fort Lewis College has chosen to pursue its mission via its historic role as an undergraduate, public, four-year liberal arts college. Because of the liberal arts focus, we require common general education courses, which include the fine arts, humanities, social sciences, mathematics, and the natural sciences in addition to more specialized junior and senior courses offered through the various majors.

Our curriculum is designed both to ensure that students understand the values and assumptions implicit in their major fields of study and to prepare them for a rapidly changing world.

The College's first obligation is to create a personalized learning environment in which faculty and staff are accessible to all students. Therefore excellence in classroom teaching is our first priority. We are committed to hiring experienced faculty and professional staff dedicated to teaching and to working directly with students.

The College also supports and encourages research, scholarly inquiry, and creative performance by its faculty in order to enhance their work with students and the students' own work. We will continue to acquire the resources necessary to fulfill our primary mission.

It is essential to Fort Lewis College's mission that we contribute to the cultural diversity and economic development of the Four Corners region. To play an active role in the community, state, and region, we must ensure that our programs fulfill the needs of our student population and the residents of our area.

Our ethnic and regional heritage must be reflected in the make-up of our student body, in our special programs, and in our curriculum. Because of terms established in the original charter of the College, we have an honored tradition of providing tuition-free education for American Indian students.

The College will continue to enhance educational opportunities for other minority groups, especially those originating in the Southwest. While a large percentage of our students should continue to come from Colorado, the College will encourage enrollment of students from other regions and from abroad in order to provide a diversified student body.

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## **FORT LEWIS COLLEGE EDUCATIONAL PURPOSES**

Fort Lewis College offers a unique educational experience in which academic programs link knowledge and practice. Situated at a historical and cultural confluence in the American Southwest, the College is dedicated to undergraduate education that integrates the traditionally separate disciplines of the liberal arts and professional schools.

The academic program is designed to help students develop an informed and critical capacity to meet the challenges of a rapidly changing world. Because individuals define themselves through what they do, the course of study

encourages students to cultivate a sense of self through the knowledge, abilities, and values they will carry to a lifetime of meaningful work. The curriculum consists of three essential components: general education, the major, and free electives.

Through general education, students confront issues about life and work in a complex global and technical culture. General education emphasizes:

1. an understanding and appreciation of diverse legacies of culture and expression;
2. a recognition of how individuals and institutions function within broader political, economic, and sociocultural systems;
3. the development of skills and critical capacities to make informed use of the technologies that permeate our lives and society; and
4. an understanding of the natural environment and of the responsibility to sustain a balance between natural resources and human needs.

General education complements the academic major, which provides in-depth mastery of a field of study and continued development of higher order literacies including research, writing, speaking, problem solving, and ethical decision-making. Free electives encourage exploration of academic areas outside the major. The College accomplishes these educational purposes through its traditions of teaching excellence and commitment to close student-faculty and student-student interaction. The College promotes life-long learning for faculty and students alike.

In this context, the College recognizes the primary importance of, and provides wide opportunities for, preparation for a career-whether it be in the arts, in business, in education, in the sciences, or in any of the many ways a student may desire to serve mankind and self.

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## **ENROLLMENT**

Fort Lewis College commitment to providing students with a quality undergraduate education has been acknowledged through the College's steady growth during the past 39 years. In 1962, about 720 students were enrolled at the College. In 2001-02, enrollment was 4,441.

The College continues to maintain the personal, quality education experience that only a small undergraduate school like Fort Lewis College can provide.

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## **HISTORY**

Fort Lewis College is named for Fort Lewis, a U.S. Army Post established in 1878 at Pagosa Springs, Colorado. Two years later, the military post moved to Hesperus, Colorado, a location more central to Indian settlements and pioneer communities. The U.S. government abandoned the site as a military post in 1891, and in its stead, established Fort Lewis as a school offering free education to Native American students.

By 1911, Congress had deeded the Hesperus site to the State of Colorado, which then established a high school of agriculture under the supervision of the State Board of Agriculture. The school began to offer some college-level courses in 1925, and in 1933, Fort Lewis began to offer college courses exclusively. In 1948, Fort Lewis was officially designated a junior college with its own president.

Fort Lewis College moved to the Durango campus in 1956. The first baccalaureate degrees were granted in 1964. In 1986, Fort Lewis College joined the Colorado State University System under the governance of the State Board of Agriculture. Colorado State University in Fort Collins and the University of Southern Colorado in Pueblo are sister institutions in the system.

Fort Lewis College continues to honor its historic commitment to Native Americans by offering tuition scholarships to all qualified American Indians who meet admission requirements. It is the only college in Colorado to do so, as it has for more than 100 years.

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## **LOCATION**

Fort Lewis College sits on a mesa-like terrace overlooking Durango and the 13,000-foot peaks of the La Plata Mountains. With a population of 13,275, Durango is the largest community in Southwest Colorado and serves as a hub of commercial activity for a regional population of more than 60,000. Durango's elevation is 6,500 feet; it is surrounded by the Rocky Mountains, yet it is only 50 miles away from the deserts of the Southwest. Durango is about 350 miles from Denver, 200 miles from Albuquerque, and 450 miles from Phoenix.

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## **THE CAMPUS**

The distinctive architecture of custom stonework found on the Fort Lewis College campus reflects the heritage of Southwest Colorado's Anasazi Indians, whose ancient pueblo ruins can be found throughout the region. The architecture is set off by the backdrop of the rugged San Juan Mountains, creating a learning environment of incomparable natural beauty.

Academic activities are centered in the Chemistry Hall, Education and Business Hall, Center for Southwest Studies, Sage Hall, John F. Reed Library, Theatre Building, Noble Hall, and the academic wing of Berndt Hall.

The College Union Building houses a cafeteria, snack bar, post office, bookstore, lounge and meeting rooms, as well

as Student Government offices, the student newspaper, public radio station, and Student Activities.

The on-campus Housing Office, Financial Aid Office, Records Office, Native American Center, and Health Center are in Miller Student Center.

About 1,580 students live on campus in one of several residence halls and three apartment complexes.

Physical education and recreation facilities include the Student Life Center, Outdoor Pursuits, a large gymnasium, indoor swimming pool, football stadium, tennis courts, softball fields, track, nature trails, and, nearby, cross-country ski tracks in winter and golf course in summer.

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## **TRIMESTER CALENDAR**

Fort Lewis College operates on a modified trimester plan. The fall and winter trimesters are each approximately 15 weeks long. The third trimester also is 15 weeks long, but it is divided into three five-week sessions.

The fall trimester generally begins in late August or early September and ends in mid-December; the winter trimester begins in early January and ends in late April. The three five-week summer sessions extend from about the first of May through early August.

Students who choose to attend all three trimesters can graduate in as few as two and two-thirds calendar years. Those who attend only during the winter and fall trimesters graduate in the traditional four years and often find the long summer a valuable time for employment as well as for a pleasant vacation period.

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## **THE FACULTY**

Fort Lewis College recruits its faculty from the best colleges and universities in the country. Of the 169 full-time, tenure-track faculty members on campus during 2000-01, 90 percent held the highest degree attainable (doctorates, masters of fine arts) in their disciplines. Many of the Fort Lewis College faculty have developed national reputations for excellence in teaching, research, and curriculum development. Because Fort Lewis offers only undergraduate programs, faculty members have the time to concentrate on their teaching and to give their students one-on-one attention when needed.

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## **SCHOLASTIC HONOR SOCIETIES**

Scholastic honor societies maintain chapters at Fort Lewis College to recognize outstanding academic achievement

by its students.

Among them are the following:

***Beta Alpha Psi*** - Beta Alpha Psi is a national honor society and a scholastic, professional, and accounting fraternity. The objectives of Beta Alpha Psi include the recognition of outstanding academic achievements in the field of accounting; the promotion of association among members and practicing accountants; the provision of opportunities for self-development; and the encouragement of a sense of ethical, social, and public responsibilities.

***Beta Beta Beta*** - The Tri-Beta Biological Honor Society was established in 1922 with the goal of encouraging scholarly activity in undergraduate biology education. The Fort Lewis College Chapter, Epsilon Upsilon, is among the many chapters that are established nationwide. Membership in the society offers students opportunities to conduct undergraduate research, present findings at local and national meetings, and publish in the Tri-Beta scholarly journal. Tri-Beta activities include trips to scientific laboratories and natural field sites, as well as volunteer work in conservation biology.

***Beta Gamma Sigma*** - The National Honor Society in Business and Management was founded in 1913. Beta Gamma Sigma encourages and rewards scholarship, promotes advancement of education in business, and fosters integrity in the conduct of business operations.

***Kappa Mu Epsilon*** - The Mathematics Honors Society Kappa Mu Epsilon was founded in 1931 to further the interests of mathematics in schools that place their primary interests in undergraduate programs; to educate the undergraduate on the importance mathematics has played in western civilization; to develop an appreciation for mathematics' demand for logical and rigorous thought; to recognize outstanding achievement in mathematics; and to educate members on advances made in the field.

***Native American Honor Society*** - The Fort Lewis College Native American Honor Society was established in 1982 to promote and recognize outstanding scholarship among Native American students on campus. All activities are directed toward public service. Membership is open to junior and senior Native American students with cumulative grade point averages of 3.0 or better.

***Phi Alpha Theta*** - Phi Alpha Theta is the national honor society that recognizes outstanding scholarship among history students. The Fort Lewis College chapter was established in 1964-65 and is the College's oldest, continuously active honor society.

***Phi Epsilon Kappa*** - Phi Epsilon Kappa is a national honor society that recognizes outstanding students in Exercise Science. The society is committed to community service as well as providing educational activities for its members. Membership is open to Exercise Science students with a minimum grade point average of a 3.0 within the Exercise Science major.

***Phi Kappa Phi*** - This honor society is the oldest and largest national honor society that recognizes and encourages superior scholarship in all academic disciplines. Established in 1897, Phi Kappa Phi selects members who meet high academic standards from throughout the College community. Fort Lewis College was awarded a

chapter of Phi Kappa Phi in 1992, thus recognizing the quality of the College's faculty, students, and academic programs.

*Phi Sigma Iota (Chapter Chi)* - This honor society for foreign language students recognizes outstanding scholarship for those who have a least a 3.0 cumulative grade point average, who have completed at least one junior-level course, and who rank in the highest 35 percent of their class in general scholarship.

*Psi Chi* - The Psychology Honor Society recognizes outstanding scholarship for students majoring in psychology. The society encourages the advancement of psychology through observation, logical thinking, and critical-yet tolerant-open-mindedness and the continuing effort of understanding human nature.

*Sigma Delta Pi (Chapter Kappa Tau)* - The Hispanic Honor Society recognizes students majoring in Spanish who have completed at least one junior-level Spanish course and have at least a 3.0 cumulative grade point average in their Spanish courses and overall. Membership in Sigma Delta Pi is the highest academic honor in the field of Spanish studies. The society seeks to develop a better understanding of the language, literature, and culture of Spanish-speaking peoples.

*Sigma Pi Sigma* - Sigma Pi Sigma was founded in 1921 and is the only national Physics Honor Society. It is a fully recognized honor society within the Society of Physics Students, a member of the Association of College Honor Societies, and is an affiliated Society of the American Institute of Physics. Sigma Pi Sigma exists to foster interest in physics at the undergraduate and graduate levels.

*Sigma Tau Delta (Chapter Kappa Psi)* - The purpose of the English Honor Society Sigma Tau Delta is to honor undergraduates, graduates, and scholars in academia, as well as professional writers who have realized accomplishments in linguistics or literary realms of the English language. Fort Lewis College students who are eligible for membership are those who have successfully completed at least 45 hours of course work with a cumulative grade point of at least 3.25.

*Sigma Xi* - Sigma Xi was founded in 1886 at Cornell University as an honor society for scientists, engineers, and mathematicians. It rewards excellence in scientific research and encourages a sense of companionship and cooperation among scientists in all fields.

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## **ACCREDITATION**

The College is accredited by the North Central Association of Colleges and Schools. In addition, the School of Business Administration is accredited by the Association to Advance Collegiate Schools of Business International. The Chemistry Department offers a bachelor of science degree that is accredited by the American Chemical Society; the Music Department is accredited by the National Association of Schools of Music. Fort Lewis College also is a member of the American Council of Learned Societies and the Council of Public Liberal Arts Colleges.

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## ASSESSMENT EFFORTS TO ENSURE QUALITY EDUCATION FOR STUDENTS

To improve instruction and ensure that it meets its educational goals, the College regularly assesses students' progress. The College assesses the results of general education and departmental programs by using surveys, focus groups, work samples, syllabus reviews, capstone projects, nationally-normed instruments (such as GRE and Major Field Tests) as well as locally developed scales and instruments to measure the quality and success of its programs. The College requires all freshmen and randomly selected upper classmen to participate in assessments to help the College improve its academic programs and teaching methods. All departments have assessment processes in place that provide data on student learning in the major.

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## OVERVIEW OF FORT LEWIS COLLEGE GENERAL EDUCATION ASSESSMENT

General Education Components:	Oversight:	Assessment Methods:
<i>Thematic Studies Knowledge Areas</i>	General Education Council Assessment Committee	Syllabus Review Student Surveys Work Samples Focus Groups Capstone Projects ACT Student Outcomes Survey ACT Alumni Outcomes Survey National Survey of Student Engagement Your First College Year
<p><b>Culture.</b> Understanding and appreciation of diverse legacies of culture and expression.</p>		
<p><b>Systems.</b> Recognition of how individuals and institutions function within broader political, economic and sociocultural systems.</p>		
<p><b>Technology.</b> Development of skills and critical capacities to make informed use of the technologies that permeate our lives and society.</p>		
<p><b>Environment.</b> Understanding of the natural environment and of the responsibility to sustain a balance between natural resources and human needs.</p>		

Academic Competencies  
Reading and Writing  
Information Literacy  
Quantitative Reasoning  
Physical Well-being

Writing Program Admin.  
Writing Faculty Composition Committee  
Library Faculty Assessment Committee  
General Education Council  
Exercise Science Faculty

Writing Program - Annual  
assessment report and Cyclical  
program review.

Library Program - Annual  
assessment report and Cyclical  
program review.

Syllabus review of Q courses

Liberal Education  
Outcomes Learning as Inquiry  
Critical Thinking as Problem Solving  
Effective Communication Action as  
Application of Learning

Assessment  
Committee General  
Education Council

Learning as Inquiry Scale  
Critical Thinking Scale  
Effective Communication Scale  
Action as Application of Learning  
Scale  
ACT College Outcomes Survey  
ACT Alumni Outcomes Survey  
National Survey of Student  
Engagement  
Focus Groups/Work  
Samples/Capstone projects

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# School of Arts and Sciences

## Geosciences

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### Course listings for Geography and Geology

#### **Professor**

James D. Collier

#### **Associate Professors**

Gary L. Gianniny

Ray Kenny

#### **Assistant Professors**

David A. Gonzales

Kimberly A. Hannula

W. Scott White

The department offers a Bachelor of Science degree in Geology with three different options: Geology, Environmental Geology, and Earth Science for Secondary Teachers. The Geology option is designed to meet the needs of students wishing to continue their education in graduate school or to work as professional geologists. The Environmental Geology option is designed for students planning to work in the areas of natural resource management and environmental impact assessment and remediation. The Earth Science for Secondary Teachers option is designed for students whose specific goal is to teach earth science at the secondary school level.

The department also has course offerings in Geography and a minor in Geographic Information Systems (GIS). A student-constructed major in geography is available, in which students can concentrate on three tracks: physical geography, human geography, or geography technologies (including GIS). Geography classes are recommended for those students who wish to enhance their understanding of such topics as geopolitics, world cultures, globalization, weather and climate, natural landscapes and mountain environments, in addition to technical topics such as computer mapping and GIS.

The study of geosciences at Fort Lewis College is strengthened by the College's proximity to the remarkable natural geological laboratory in the Southern Rocky Mountains and adjacent areas of the Southwest. The Grand Canyon, Monument Valley, Shiprock, and the San Juan volcanic field and mining district are representative of classical geological localities nearby. The numerous outcrops and mine and oil field workings are sources of excellent real-world experiences for students. Also, the sequence of rocks in the Animas River Valley represents literally hundreds of millions of years of earth history. Laboratory and field equipment and geological holdings in the College library are available for research and reading.

Advanced graduate work in geology is required for positions in state and federal surveys, petroleum and mining

companies, and college teaching. Employment with engineering firms, governmental agencies, mining companies, and environmental consulting organizations, among others, is available for persons with bachelors degrees in geology and environmental geology.

Students majoring in geology may be certified to teach science at the secondary level. To obtain requirements for teacher certification, please contact the Department of Teacher Education. A minor in geology is available for students majoring in other disciplines. Requirements for a minor in geology are listed at the end of this section.

### **REQUIREMENTS FOR A BACHELOR OF SCIENCE DEGREE WITH A MAJOR IN GEOLOGY:**

**Courses:** **Credits:**

#### **Geology Option:**

**General Education** **35-46**

\*\* Courses marked with double asterisks may also be counted toward TS 1 requirements.

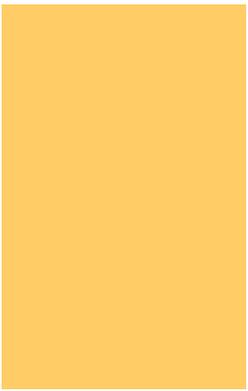
#### **Specific Departmental Requirements:**

**Geol 107Nx Earth Systems Science	4
OR	
**Geol 113Tx Physical Geology	
Geol 114 Historical Geology	4
Geol 202 Geologic Methods	2
Geol 207 Mineralogy	3
Geol 208 Optical Mineralogy	4
Geol 210 Petrology	3
Geol 323 Geomorphology	4
Geol 333 Introductory Paleontology	3
Geol 337 Structural Geology	4
Geol 361 Stratigraphy and Sedimentation	4
Geol 363 Sedimentary Petrology	
OR	4
Geol 364 Igneous and Metamorphic Petrology	
Geol 380W Technical Writing in Geology	3
Geol 405 Geologic Data Analysis	4
Geol 441 Field Geology	6
Geol 496 Senior Seminar I - Research	1
Geol 497 Senior Seminar II - Thesis	2
<b>Subtotal Specific Departmental Requirements</b>	<b>55</b>
<b>Auxiliary Requirements:</b>	
Chem 150 Fundamentals of Chemistry I	4
**Chem 151Tx Fundamentals of Chemistry II	4

OR	
Geol 420 Introduction to Geochemistry	4
**Math 221Q Calculus I	4
<b>One of the following:</b>	
**Math 222Q, **Math 201Q, **BA 253Q, or **Psyc 241Q	4
Phys 201 College Physics	
OR	5
**Phys 217Tx Physics for Science and Engineering I	
Phys 202 College Physics	
OR	5
Phys 218 Physics for Science and Engineering II	
<b>Subtotal Auxiliary Requirements</b>	<b>26</b>
<i>Free Electives (variable)</i>	
<b>TOTAL REQUIRED FOR GRADUATION</b>	<b>120</b>
Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.	
<b>Environmental Geology Option:</b>	
<b>General Education</b>	<b>35-46</b>
** Courses marked with double asterisks may also be counted toward TS 1 requirements.	
<b>Specific Departmental Requirements:</b>	
**Geol 107Nx Earth Systems Science	
OR	4
**Geol 113Tx Physical Geology	
Geol 114 Historical Geology	4
Geol 202 Geologic Methods	2
Geol 207 Mineralogy	3
Geol 210 Petrology	3
**Geog 250T Intro Computer Mapping/GIS	4
Geol 323 Geomorphology	4
Geol 337 Structural Geology	4
Geol 361 Stratigraphy and Sedimentation	4
Geol 380W Technical Writing in Geology	3
Geol 405 Geologic Data Analysis and Modeling by Computer	4
Geol 420 Introduction to Geochemistry	3
Geol 430 Engineering Geology	4
OR	
Geol 325 Introduction to Remote Sensing	3

Geol 435 Groundwater Geology	4
Geol 441 Field Geology	6
Geol 496 Senior Seminar I - Research	1
Geol 497 Senior Seminar II - Thesis	2
<b>Subtotal Specific Departmental Requirements</b>	<b>58-59</b>
<b>Auxiliary Requirements:</b>	
Chem 150 Fundamentals of Chemistry I	4
**Chem 151Tx Fundamentals of Chemistry II	4
**Math 221Q Calculus I	4
One of the following:	
**Math 201Q, **Math 222Q, **BA 253Q, **Psyc 241Q, or Geol 405	4
Phys 201 College Physics	
OR	5
**Phys 217Tx Physics for Science and Engineering I	
<b>Subtotal Auxiliary Requirements</b>	<b>21</b>
<i>Free Electives (variable)</i>	
<b>TOTAL REQUIRED FOR GRADUATION</b>	<b>120</b>
Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.	
<b>Earth Science for Secondary Teachers Option:</b>	
<b>General Education</b>	<b>35-46</b>
** Courses marked with double asterisks may also be counted toward TS 1 requirements.	
<b>Specific Departmental Requirements:</b>	
**Geol 107Nx Earth Systems Science	4
Geol 114 Historical Geology	4
**Geol 180N Oceanography	3
Geol 202 Geologic Methods	2
Geol 207 Mineralogy	3
Geol 210 Petrology	3
Geol 323 Geomorphology	4
Geol 333 Introductory Paleontology	3
Geol 332 Plate Tectonics	3
Geol 380W Technical Writing in Geology	3
Geol 401 Natural Resources and the Environment	3
Geog 335 Global Climates	3
Geol 496 Senior Seminar I - Research	1

Geol 497 Senior Seminar II - Thesis	2
<b>Subtotal Specific Departmental Requirements</b>	<b>41</b>
<b>Auxiliary Requirements:</b>	
**Bio 112N Introduction to Biology	4
Chem 150 Fundamentals of Chemistry	4
**Math 110Q Calculus I	4
Phys 201 College Physics	5
**PhSc 206Tx Astronomy	4
<b>Teacher Education Courses:</b>	
Ed 200 Intro to Ed in America	4
**Ed 210S Culture of Childhood and Youth	4
Ed 421 Individualized Instruction in a Pluralistic Society	6
Ed 424 Language and Math Literacy	4
Ed 495 Laboratory Experience and Seminar in the Secondary School	15
<b>Subtotal Auxiliary Requirements</b>	<b>54</b>
<i>Free Electives (variable)</i>	
<b>TOTAL REQUIRED FOR GRADUATION</b>	<b>120</b>
Please see Teacher Education section for Teacher Licensing requirements.	
Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.	
<b>PREPARATION FOR GRADUATE SCHOOL</b>	
The following additional courses are recommended for geology majors who plan to go to graduate school.	
Geol 332 Plate Tectonics	
Geol 405 Geologic Data Analysis and Modeling by Computer	
French, German, or Spanish	
Engr 205 Surveying I	
Engr 103 Computer Aided Drafting	
<b>REQUIREMENTS FOR A MINOR IN GEOLOGY:</b>	
<b>Specific Departmental Requirements:</b>	
**Geol 113Tx Physical Geology 4 OR **Gel 107Nx Earth Systems Science	4
Geol 114 Historical Geology	4
Geol 207 Mineralogy	3
Geol 210 Petrology	3
<i>Upper division Geology electives</i>	<i>10</i>
<b>Total Geology Minor</b>	<b>24</b>





# School of Arts and Sciences

## Course Listings for Geosciences

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### Geography

#### **Geog 250T Introduction To Computer Mapping And Geographic Information Systems (3-3) 4**

An introduction to basic mapping concepts and technologies using Geographic Information Systems (GIS). Lecture sessions will discuss map use and analysis, principles of mapmaking, cartographic communication, and geographic visualization. Lab assignments will focus on map skills and interpretation, the use of GPS, and map construction using PC-based GIS software. Fall term

Prerequisites: Sophomore standing.

#### **Geog 271R World Regional Geography (4-0) 4**

An introduction to the major regions of the world and their physical, environmental, cultural, geopolitical, and economic characteristics. This course will provide students with a thorough understanding of current events that are changing the world map and causing the globalization of world society. Fall and occasional summer terms.

#### **Geog 300 Intermediate Geographic Information Systems: Vector-Based Analysis (2-3) 3**

This course focuses primarily on vector-based GIS analysis and the applications of GIS in the physical sciences, social sciences, and business. Lab sessions will introduce students to the use of GIS in spatial querying and database management, site suitability analysis, proximity analysis, geocoding, CAD theme analysis, overlay operations, etc. Winter term.

Prerequisites: Geog 250 or consent of the instructor.

#### **Geog 320 Natural Regions of North America (3-0) 3**

A survey of the origin and nature of the landscapes of North America. Emphasis is placed upon the relationships between natural resources, topography, geology, climate and soils. Map work is required.

Prerequisites: Geol 113Tx or 107Nx.

#### **Geog 335 Global Climates: Past, Present, And Future (3-0) 3**

An introduction to the atmospheric processes that produce our daily weather patterns and climates. Paleoclimates and potential future climate changes will also be discussed in detail. Special emphasis will be placed on the human impact of severe storms, climatic variations, and global warming. Winter term.

### **Geog 400 Advanced Geographic Information Systems: Network And Spatial Analysis (2-3) 3**

This course focuses primarily on network analysis and grid-based spatial analysis using GIS. Programming for GIS will also be investigated. Lab sessions will focus on route finding, travel cost analysis, traffic modeling, digital elevation models (DEMs), surface interpolation, hydrologic modeling, and viewshed analysis.

Prerequisites: Geog 300 or consent of instructor.

### **Geog 499 Independent Study 1-3**

Individual research under the supervision of a geography faculty member. Offered on demand.

Prerequisites: Consent of instructor.

## **Geology**

### **Geol 107Nx Earth Systems Science (3-3) 4**

This course explores the solid earth, the oceans, and the atmosphere as an integrated set of systems that act together to control climate, topography, and other physical aspects of the natural environment. The lab work includes field trips and the study of rocks, minerals, plate tectonics, ocean systems, and weather. There is one semester-long independent project in which students apply the scientific method to understand a local environmental issue. Fall and winter terms.

### **Geol 110Nx Earth Science (3-3) 4**

A review of the earth sciences, including geology, oceanography, meteorology, and astronomy. Laboratory required. Course is appropriate for non-science majors. Fall and winter terms.

### **Geol 113Tx Physical Geology (3-3) 4**

The study of geologic processes and materials within the Earth's interior and on the Earth's surface. Laboratory work on minerals, rocks, and maps. Field trips. Fall, winter, and summer terms.

### **Geol 114 Historical Geology (3-3) 4**

The geologic history and development of life on Earth. Laboratory work on rocks, fossils, and maps. Field trips. Winter term.

Prerequisites: Geol 113Tx or Geol 107Nx.

### **Geol 120 Geologic Field Excursions (0-3) 1**

This is a field lab. We will visit and discuss various geologic points of interest in the Durango and Four Corners region. There will be at least one weekend field trip. There is a field trip fee. Fall and winter terms. On demand.

Prerequisites: Geol 107Nx or Geol 113Tx or Geol 150N, or concurrent enrollment in one of these courses.

### **Geol 150N Geology Of The Southwest (3-0) 3**

A survey of the historical, economic, and structural geology and geomorphology of the Southern Rockies, Colorado Plateau, and the Basin and Range Provinces. Emphasis is on classic geologic areas, national parks, natural resource development, and problems associated with human activity in this delicate environment. Fall and winter terms.

### **Geol 170N Earth Shock (3-0) 3**

This course focuses on some of the phenomena that give rise to the unpredictable, violent, and calamitous events that cause enormous destruction of life and property and shape our view of natural disasters. Major concepts and topics are explored to give a basic understanding of the causes and effects of these catastrophic phenomena. The impacts of these events on humankind will be addressed, as well as case histories of natural disasters. This course is intended for students of any major and has no prerequisites.

### **Geol 180N Introduction To Oceanography (3-0) 3**

All of Earth's residents, even those of us in landlocked Colorado, are profoundly influenced by the world's oceans. Using a multidisciplinary science approach, this course looks at the physical aspects of oceans, their aquatic life, and environmental pressures on the oceans affecting us all. Fall term.

### **Geol 202 Geologic Methods (1-3) 2**

An introduction to basic field and computer techniques used in geology. Fall term.

Prerequisites: Geol 113Tx or Geol 107Nx.

### **Geol 207 Mineralogy (2-3) 3**

The elements of crystallography and the classification and identification of minerals. Fall term.

Prerequisites: Geol 107Nx or Geol 113Tx and completion of, or concurrent enrollment in, Chem 150.

### **Geol 208 Optical Mineralogy (2-6) 4**

Procedures for identification of minerals in thin section, with emphasis on the optical determination of rock-forming minerals. Winter term.

Prerequisites: Geol 207.

### **Geol 210 Petrology (2-3) 3**

The megascopic study of igneous, sedimentary, and metamorphic rocks with emphasis on the physical and chemical conditions governing the origins, occurrences, and associations of various rock types. Winter term.

Prerequisites: Geol 207.

### **Geol 323 Geomorphology (3-3) 4**

The classification, description, nature, origin, and development of present landforms and their relationships to underlying structures. Field trips. Fall term.

Prerequisites: Geol 202.

### **Geol 325 Introduction To Remote Sensing (3-3) 4**

Remote sensing is the study of the earth's land, water, atmospheric, and human-made features using imaging devices on both airborne and spaceborne platforms. The course includes the study of electromagnetic energy and the application of remote sensing in geology, urban geography, meteorology, archaeology, agriculture, hydrology, etc. Lab work involves image interpretation using aerial photographs and computer-based digital image processing. Winter term of even-numbered years.

Prerequisites: Geol 107Nx or Geol 113Tx, Math 110, and junior standing.

### **Geol 332 Plate Tectonics (3-0) 3**

An introduction to crustal plates, their boundaries, and their interactions given in terms of classic geological settings throughout the world. Fall term. Alternate years.

Prerequisites: Geol 107Nx or Geol 113Tx, Math 121Q.

### **Geol 333 Introductory Paleontology (2-3) 3**

The systematic study of fossils, primarily invertebrate fossils, used in the identification and correlation of geologic formations. Winter term, alternate years.

Prerequisites: Geol 114 or consent of instructor.

### **Geol 337 Structural Geology (3-3) 4**

The geometric, kinematic, and dynamic analysis of structural features in the Earth's crust. Techniques in field mapping will be emphasized throughout the course. Fall term.

Prerequisites: Math 121, Geol 113Tx and 202.

### **Geol 361 Stratigraphy And Sedimentation (3-3) 4**

Sediments and sedimentary rocks-their characteristics and classification; sedimentary processes, tectonics, and sedimentation. Stratigraphy--its history, stratigraphic nomenclature, facies relationships, and correlation. Fall term.

Prerequisites: Geol 207 and 210.

### **Geol 363 Sedimentary Petrology (3-2) 4**

The origin, occurrence, and classification of sedimentary rocks. On demand.

Prerequisites: Geol 208, 210, and 361.

### **Geol 364 Igneous And Metamorphic Petrology (3-3) 4**

The origin, occurrence, classification, and petrography of igneous and metamorphic rocks. Winter term. On demand.

Prerequisites: Geol 208 and 210.

### **Geol 380W Technical Writing In Geology (3-0) 3**

Technical writing in the geological sciences will focus on the preparation of geological reports, analysis of data, resumes, proposals, and bibliographic documentations. Winter term.

Prerequisites: Comp 150, Lib 150, and junior standing.

### **Geol 401 Natural Resources And The Environment (3-0) 3**

A critical study of the need for development of fossil fuel and industrial mineral deposits and the need to preserve regions in their natural state. Fall term.

### **Geol 405 Geologic Data Analysis And Modeling By Computer (2-6) 4**

Use of the computer to help transform geologic data into information. Covers computer fundamentals, univariate and multivariate statistics, contouring/mapping algorithms, trend surface analysis, variograms, and kriging. Winter term.

Alternates with Geol 420.

Prerequisites: Geol 202 and junior or senior standing.

### **Geol 420 Introduction To Geochemistry (3-0) 3**

Behavior of the common rock-forming oxides in endogenic and exogenic processes; isotope geochemistry; geochemical exploration. Winter term. Alternates with Geol 405.

Prerequisites: Geol 207, 210 and 405, or consent of the instructor.

### **Geol 430 Engineering Geology (3-0) 3**

Application of geological sciences to the location, design, construction, operation, and maintenance of engineering works. Winter term. Alternates with Geol 435.

Prerequisites: Geol 210, Math 121.

### **Geol 435 Groundwater Geology (3-3) 4**

The qualitative and quantitative aspects of the occurrence of water in the ground. Winter term. Alternates with Geol 430.

Prerequisites: Geol 361.

### **Geol 441 Field Geology 6**

The fundamental procedures and practices in geologic mapping. Summer term.

Prerequisites: Geol 114, 202, 210, and 337, or consent of instructor.

### **Geol 442 Field Studies 5**

Intensive field work on various geological problems emphasizing interpretation of petrologic and structural relationships. Summer term.

Prerequisites: Senior standing in geology or consent of instructor.

### **Geol 461 Depositional Systems (2-3) 3**

Modeling of sedimentary deposits with respect to time and the development of stratigraphic sequences. On demand.

Prerequisites: Geol 361.

### **Geol 496 Senior Seminar I - Research (1-0) 1**

Preparatory to Geol 497, students initiate and conduct independent, original research as part of a senior thesis project. Students work with faculty advisors and produce written and oral progress reports.

Prerequisites: Geol 380W and senior standing.

### **Geol 497 Senior Seminar - Thesis (2-0) 2**

Emphasis on the preparation, writing, and public presentation of the senior thesis project. A component of original research is central to the project and must be completed prior to the course.

Prerequisites: Geol 496.

### **Geol 499 Independent Study 1-6**

Individual research under the supervision of a faculty member. Offered on demand.

Prerequisites: Consent of department chair.





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## Geographic Information Systems

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### Geographic Information Systems (GIS) Minor Program Coordinator

W. Scott White

Geographic Information Science (GIS) is a map-based computer decision support system. The field of geographic information science merges theoretical aspects of GIS across many different disciplines, such as archaeology, biology, agriculture, engineering, geology, computer science, business administration, and geography.

A GIS is used to build map databases, create attributes for map information, analyze spatial relationships in the mapped information, and provide a means of geographic visualization that has not been traditionally present in manual mapping procedures. Students in GIS and surveying courses gain experience using PC-based GIS software, as well as familiarity with various modern field mapping procedures, including GPS (Global Positioning Systems).

Completion of the minor will provide the student with skills and experience that are in great demand in today's workplace.

#### REQUIREMENTS FOR A MINOR IN GEOGRAPHIC INFORMATION SYSTEMS (GIS):

##### Courses:

Credits:

##### 1. GIS Courses:

Geog 250T Introduction to Computer Mapping and GIS	4
Geog 300 Intermediate GIS: Vector-Based Analysis	3
Geog 400 Advanced GIS: Network and Spatial Analysis	4
Geog 499 Independent Study	1-3

##### **Subtotal Total GIS**

**12-14**

##### 2. Surveying Courses:

Engr 205 Surveying I	4
Engr 305 Surveying II	4

##### **Subtotal Surveying**

**8**

##### 3. Computer Courses:

CSIS 106 Introduction to Programming in Visual Basic	4
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OR	
CSIS 110 Introduction to Programming in C++	4
OR	
Engr 104 Computer Programming for Scientists and Engineers	3
<b><i>Subtotal Computer Science</i></b>	<b>3-4</b>
<b>Total Hours for the Minor</b>	<b>23-26</b>
Additional courses recommended as good electives but not counting toward the minor:	
**Geol 107Nx Earth Systems Science	4
**Geol 113Tx Physical Geology	4
Geol 325 Introduction to Remote Sensing	3
Geol 405 Geologic Data Analysis and Modeling by Computer	4
Engr 103 Computer Aided Drafting	3
CSIS 230 Object-Oriented Programming in C++	4
CSIS 350 Database Management Systems	3
**Math 201Q, **BA 253Q, or **Psyc 241Q Statistics	4



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## History

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### Course listings for History

#### **Professors**

Doreen Hunter  
Neil McHugh  
Duane A. Smith

#### **Associate Professors**

James K. Ash  
Robert R. Bunting  
Michael F. Fry

#### **Visiting Instructor**

Katherine A. Clark

The Department of History offers a wide variety of courses that enhance students' understanding and appreciation of the human past. The study of history promotes tolerance between peoples and helps make the world and our lives more intelligible. We are the wiser for knowing that our belief systems, institutions, and conflicts have their roots in the past. Courses in the history of Africa, East Asia, Latin America, and the Middle East introduce the creative achievements of other civilizations. Through the exploration of our own national experience and the history of western civilization, students gain a deeper understanding of the historic foundations underlying the challenges we face in our own time.

Students of history learn to collect and interpret data, develop logical and convincing arguments, and to write with clarity and economy. A degree in history provides a solid foundation for students seeking careers in teaching, archival management, library science, law, politics, international affairs and governments, as well as the training needed for success in graduate school.

Courses numbered 100 are broad topical courses designed for students seeking to meet their general education requirements. 200-level courses are "survey" courses providing overviews of the history of regions and periods. These are the foundation courses for history majors and ideal courses for those seeking to meet their general education requirements. Courses designated 300 explore more specialized topics and assume background in lower-division history courses. 400-level courses are conducted as seminars and provide the advanced instruction required for the

## Senior Research Seminar.

The courses described are those offered on a regular basis. From time to time the department offers new courses. Students should check the full list of courses published by the department at the time of registration.

History majors are required to take 14 history courses totaling 44-48 credits. Majors must concentrate in one of the areas listed below. Under special circumstances, a student may propose a student-constructed concentration. This special option requires the approval of the department chair.

Students majoring in history may be certified to teach social studies at the secondary level. To obtain requirements for teacher certification, please contact the Department of Teacher Education.

### **Goals and Objectives:**

1. Familiarize students with the history of human experience in at least three regions of the world.
2. Provide students with particular competence in their area of concentration including a factual base of information, familiarity with the important historiographical and interpretive concerns of historians of that area, and an ability to synthesize their understanding around recurrent historical themes.
3. Encourage an understanding of how different societies in different times and places have constructed class, race, and gender.
4. Develop critical thinking-rigorous, fair-minded, nuanced.
5. Foster the research and writing skills that enable students to define a suitable topic, conduct thorough and resourceful searches for relevant information, and write up their findings in a clear, persuasive, and interesting fashion.
6. Cultivate in students an understanding of the complex epistemological challenges involved in doing history.
7. Help students appreciate that a historical understanding of the human experience can contribute in vital ways to a responsible and reflective life.

### **Areas of Concentration**

#### **Courses:**

#### **African and Middle Eastern History**

#### **Choose from among:**

#### **Credits:**

\*\*Hist 140R Survey of African History I  
\*\*Hist 141R Survey of African History II  
Hist 305 Mesopotamian Myth/Religion  
Hist 340 Contemporary Africa  
Hist 342 West Africa  
Hist 343 Ancient Nile Valley  
Hist 344 Northeast Africa  
Hist 346 South Africa  
Hist 348 Africans in the Americas  
Hist 349 Islam in History  
Hist 440 Advanced Studies in African History

### **East Asian History**

#### **Choose from among:**

\*\*Hist 170R Survey of East Asian Civilization I  
\*\*Hist 171R Survey of East Asian Civilization II  
Hist 351 U.S.-East Asian Relations  
Hist 352 Modern China  
Hist 353 Pacific War  
Hist 357 World Since 1945  
Hist 450 Advanced Studies in East Asian History

### **European History**

#### **Choose from among:**

\*\*Hist 160R Survey of Western Civilization I  
\*\*Hist 261S Western Civilization II, 1350 to Present  
Hist 306 Ancient Women's Religions  
Hist 308 Rise of Christianity  
Hist 359 Medieval Europe  
Hist 360 Renaissance Europe  
Hist 361 Russia in Revolution to 1924  
Hist 362 Soviet Union: Stalin to Gorbachev  
Hist 363 Collapse of the Soviet Union  
Hist 364 Germany, Roman Times to 1919  
Hist 365 Germany, 1919 to Present  
Hist 366 Hitler and the Holocaust  
Hist 367 Medieval England and Ireland  
Hist 368 Medieval Women  
Hist 381 France and Spain: Middle Ages to Modern  
Hist 382 Reformation Europe and Wars of Religion  
Hist 465 Advanced Studies in European History

## **Latin American History**

### **Choose from among:**

Hist 175 Introduction to Latin American History  
\*\*Hist 270R Colonial Latin America  
\*\*Hist 271S Latin America Since Independence  
Hist 371 History of Central America  
Hist 372 U.S.-Latin American Relations  
Hist 373 History of Mexico  
Hist 475 Advanced Studies in Latin American History

## **United States History**

### **Choose from among:**

\*\*Hist 181N U.S. Environmental History  
Hist 280 Survey of U.S. History, 1600-1877  
\*\*Hist 281R Survey of U.S. History, 1877-Present  
Hist 311 Colonial and Revolutionary America, 1492-1789  
Hist 314 Inventing America, 1789-1850  
Hist 315 Irish, Catholic, American  
Hist 316 Civil War America  
Hist 318 Emergence of Modern America, 1893-1939  
Hist 320 Western/Southwest American History  
Hist 322 Western American Mining  
Hist 324 Colorado History  
Hist 326 Baseball and the American Dream  
Hist 328 Christianity in U.S. History  
Hist 332 Women in American History  
Hist 333 America Since 1945  
Hist 334 United States and Vietnam  
Hist 337 Cultural and Intellectual History in the 20th Century  
Hist 338 Modern Women's Movement  
Hist 339 Women and the "West"  
Hist 482 Topics in Colorado History  
Hist 485 Advanced Studies in United States History

## **Student-Constructed Concentration**

Approval of a History Faculty Advisor and the Department Chair

### **REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN HISTORY:**

#### **General Education**

**35-46**

\*\* Courses marked with double asterisks may also be counted toward TS 1 requirements.

#### **Lower-Division History Requirements:**

Survey sequence in the area of concentration	6
Three additional survey courses	9
Non-U.S. history majors must take at least one U.S. history survey course.	
U.S. history majors must take three non-U.S. history survey courses.	
<b>Upper-Division History Requirements:</b>	
Four courses at the 300- or 400-level in the area of concentration, at least one of which must be at the 400-level, other than Hist 496.	
Three additional 300- or 400-level courses taken outside the concentration in a least two areas.	
Hist 396W, The Philosophy and Methods (4 credits). This course should be taken in the last term of the sophomore year or during the junior year.	
Hist 496 Research Senior Seminar	
<b><i>Subtotal Specific Departmental Requirements</i></b>	<b>44-48</b>
<b>Writing Course Within Discipline:</b>	
Included in Departmental Requirements above.	
<b>Auxiliary Requirements:</b>	
<i>Two courses in one modern language</i>	6-8
<b>Four courses selected among three of the following disciplines:</b>	
Anthropology (except Anth 301, 350, 496, and 499)	
Art 162, 262R**, 263R**, 265, and 365	
Economics (except Econ 201)	
English 173R**, 174R**, 175R**, 221R**, 230, 240R**, 280R**, 320, 336, 337, 345, 346, 370, 380, 430, 432, 461	
Geography 271R**	
Philosophy (except Phil 496 and 499)	
Political Science (except PS 350, 450, 496, and 499)	
Psychology 157, 387, 425, and 499	
Sociology (except Soc 353, 496, and 499)	
<b><i>Subtotal Auxiliary Requirements</i></b>	<b>18-24</b>
<i>Free Electives (variable)</i>	
<b>TOTAL REQUIRED FOR GRADUATION</b>	<b>120</b>
Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.	
<b>REQUIREMENTS FOR A MINOR IN HISTORY:</b>	
A total of 6 courses is required from at least two different instructors.	



Three courses (9 credits) should be lower-division and three courses (10-12 credits) should be upper-division.

See the department chair for further information.



# School of Arts and Sciences

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### **Hist 140R Survey Of African History I (3-0) 3**

An overview of important historical trends in Africa from ancient times to the 19th century. Themes of technological innovation, social change, state and empire building, the spread of Islam, international commerce, and the slave trade receive emphasis. Fall term.

### **Hist 141R Survey Of African History II (3-0) 3**

A study of 19th and 20th century Africa. Special attention is paid to the growing importance of Africa in world affairs and to links with the peoples of African descent in the Americas. Winter term.

### **Hist 160R Survey Of Western Civilization I (3-0) 3**

Examines the origins of the institutions and beliefs of western civilization from the earliest civilizations in Mesopotamia and Egypt, tracing the development of these beliefs and institutions through Greece and Rome, and their preservation and enhancement in the early medieval period of European history.

### **Hist 170R Survey Of East Asian Civilization I (3-0) 3**

This course surveys the history of East Asia (China, Japan, and Korea) from ancient times to the mid-nineteenth century. It includes an introduction to Asian philosophies, religions, cultures, politics, and societies. Students will gain a general understanding of a region that is the longest surviving human civilization still in existence. Fall term.

### **Hist 171R Survey Of East Asian Civilization II (3-0) 3**

This course studies modern East Asia from the mid-19th century to the present. It examines the interactions between Western power and influence and Asian nationalism. An important theme is to discover why Japan and China took different paths in modern times. Winter term.

### **Hist 175 Introduction To Latin American History (3-0) 3**

A broad survey of key issues essential to an understanding of Latin American history from the 15th century unto the present: the conquest, ethnic relations, African slavery, Creole nationalism, mercantilism, scholasticism, the Church, the Bourbon reforms, political independence, liberalism, caudillaje, the military, economic dependency, revolutionary movements, and inter-American relations. The course is designed as an introduction to Latin America for both those who intend to continue to study the subject and those who want a general knowledge of the history of the region. Fall term.

### **Hist 181N U.S. Environmental History (3-0) 3**

This course explores the environmental history of the U.S. from pre-European contact through today. The course will look at how the land and culture(s) interacted to reorganize and redefine one another, the relationship between environmental and cultural change, and how the present is linked to past. Fall term. This course is the same as SW 181; credit will be given for only one of these courses.

### **Hist 261S Western Civilization II, 1350 To Present (3-0) 3**

A study of the transition of European society from medieval times through the Renaissance to the modern era, noting the profound economic, social, and political changes that are expressed in cultural, political, and intellectual revolutions, dominance of Europe and America in the world, and devastating war on a scale unknown before. Fall and winter terms.

### **Hist 262S Tolerance and Persecution in the Middle Ages (4-0) 4**

Is persecution an ever-present function of organized society, or does it have specific historical catalysts? We will investigate this question using examples from early Europe, looking closely at the development of anti-Semitism as well as changing attitudes in authorities' and "ordinary" people's perceptions of marginal groups-such as gays, heretics, and witches-from the rise of Christianity to the Reformation.

### **Hist 263 Middle Ages Then and Now: Medieval Life in Modern Film and Literature (4-0) 4**

This course covers aspects of the historical European Middle Ages (nobility, knighthood, religion, gender relations, etc.) through modern films and texts, using these resources to pose questions both about the medieval past and our modern need to revisit it in our own media.

### **Hist 270R Colonial Latin America (3-0) 3**

An overview of important historical trends in the Spanish and Portuguese empires in the Americas. The course will focus on the cultural developments that resulted from the contact and integration of the European and American civilizations in the 16th century, and it will give particular emphasis to those sectors of colonial society that have

continued to play a vital role unto the present, thus setting the stage for an examination of the events and conditions that led to the movements for independence in the early 19th century and the formation of the modern nations of the region. Recommended as a foundation course in Latin American history. Fall term.

### **Hist 271S Latin America Since Independence (3-0) 3**

An examination of the major cultural and political developments in Latin America from the late 18th century to the present. The course will focus by necessity on the larger and more influential countries of the region in an attempt to identify and understand historical patterns common to all areas. Recommended as a foundation course in 19th and 20th century Latin American history. Winter term.

Recommended preparation: Hist 270.

### **Hist 280 Survey Of U.S. History, 1600-1877 (3-0) 3**

A survey of topics in American history from the founding of the first successful English colony through Reconstruction. The course will explore the European settlement of North America, the Revolution, the creation of the republic, the reforms, and cultural renaissance of the 1840s, the Civil War, Reconstruction, and the Indian wars of the 1860s and 1870s. Fall and winter terms.

### **Hist 281R Survey Of U.S. History, 1877 To Present (3-0) 3**

A survey of American History from the age of enterprise to the present. The topics covered include the modernization of the economy, the development of American foreign policy, the evolution of the liberal state, and the emergence of modern conservatism, and the cultural and social movements that have shaped contemporary America. Fall and winter terms.

### **Hist 302 Ancient Rome (4-0) 4**

Introduction to Ancient Rome from its Etruscan beginnings to the end of Empire. Topics include Republican government, Imperial expansion, daily life, Roman ideas about morality and sexuality, education, and the arts. We will also look at the "lighter" side of Rome, including gladiators, baths and brothels-pastimes that characterized ordinary life in the Eternal City and its provinces.

### **Hist 305 Mesopotamian Myth/Religion (3-0) 3**

A study of ancient Near Eastern myth/religion from the beginning of written history in Sumer (Mesopotamia) around 3000 B.C. into the early post-exilic period of the Hebrew Bible (Old Testament) in Israel around 500 B.C. Interconnections, influences, and innovations will be explored. This course is the same as RS 305; credit will only be

given for one of these courses. Summer term.

### **Hist 306 Ancient Women's Religions (4-0) 4**

A study of ancient women's religious practices and beliefs from Neolithic Europe, Sumer and the ancient Near East, the Greco-Roman world, and early Christianity. Fall term. This course is the same as RS 306; credit will only be given for one of these courses.

### **Hist 308 Rise Of Christianity (4-0) 4**

A study of the historical Jesus of Nazareth, Judaism, and the first century Jewish Palestine under Roman domination. The development of Pauline Christianity and the struggle between orthodox and Gnostic Christians culminating in the final orthodox victory around 400 A.D. will be studied in depth. Winter term. This course is the same as RS 308; credit will only be given for one of these courses.

### **Hist 311 Colonial And Revolutionary America: 1492-1789 (4-0) 4**

The course focuses on colonial America from European exploration to the ratification of the United States Constitution. The course will look at the ways in which Colonial American pattern of conflict and cohesion took shape, how those structures created a distinctly American people, led to an era of Revolution, the consequences of the American Revolutionary era, and the establishment of the United States. Fall term, alternate years.

### **Hist 314 Inventing America, 1789-1850 (4-0) 4**

This course will explore the economic, political, social, religious, cultural, and environmental changes that made this such a period of transformation, and how this foundational era gave shape to the rise of modern America. Winter term, alternate years.

### **Hist 315 Irish, Catholic, American (4-0) 4**

This course will use the Irish experience in America to highlight the general course of United States history, and the complex way in which ethnic and religious identity both shaped the American landscape while being in turn shaped by the American environment. The course will consequently explore immigration, politics, religion, education, women, family and urban history, and grapple with important issues like nativism, acculturation, cultural maintenance, and identity. Summer session.

### **Hist 316 Civil War America (4-0) 4**

The 20 years that changed America, 1848-1868. The causes, campaigns, people, and significance of the Civil War

era. Taught once a year.

### **Hist 318 Emergence Of Modern America, 1893-1939 (4-0) 4**

In these colorful and sometimes desperate decades, modern America was forged. The topics covered will include the Populist and Progressive movements, World War I, the cultural tumult of the 1920s, the Great Depression, and the New Deal. Fall term.

### **Hist 320 Western/Southwest American History (3-0) 3**

This course will focus on the 19th century American west. Using the theme of expansionism, the course will look at the interaction between cultures and people in the West, the forces that produced a unique section of the country, the creation of the mythic West and its enduring legacy, and how the present is linked to the past in the trans-Mississippi West. Winter term, alternate years. This course is the same as SW 320; credit will only be awarded for one of these.

### **Hist 322 Western American Mining (4-0) 4**

Starting with the Spanish explorations, the course sketches the history of the industry and its impact on the region and people through the early 20th century. Winter term, alternate years. This course is the same as SW 482; credit will be given for only one of these courses.

### **Hist 324 Colorado History (3-0) 3**

This course traces the story of Colorado and its people from the Anasazi to the present day. This course is the same as SW 481; credit will be given for only one of these courses. Fall and winter terms.

### **Hist 326 Baseball And The American Dream (4-0) 4**

Examines the impact of baseball on such varied topics as urbanization, literature, business, and racial relations. Baseball from the inside and outside. Winter term.

### **Hist 328 Christianity In U.S. History (4-0) 4**

This course covers the role of Christianity in United States history from the nation's creation until today. The class will look at how mainline Christian denominations have shaped U.S. history and been in turn shaped by the American experience. Within this broad historical sweep of linking the past to the present important issues like the separation of church and state and how the nation has gone from Protestant establishment to secularism, as well as how law and politics have come to impact religion, will be examined. Fall term, alternate years. This course is the

same as RS 328; credit will only be given for one of these courses.

### **Hist 332 Women In American History (4-0) 4**

An analysis of women's experience from the colonial period to the present. Focusing on the way gender has been defined and redefined, the course considers such issues as work, friendship, and marriage, reproduction, the struggles for equality, and women's culture. The influence of class, race, and ethnicity on women's experiences will also be considered. Fall term. This course is the same as WS 332; credit will be given for only one of these courses.

### **Hist 333 America Since 1945 (4-0) 4**

An exploration of the forces that have shaped America since the end of World War II. Topics include the history of the Cold War from the dropping of the atomic bomb and the war in Vietnam to the uncertain interventions of today, the contest between liberals and conservatives over the national identity and the role of government, the Civil Rights movement, the women's movement, and environmentalism. Winter term.

### **Hist 334 The United States And Vietnam (4-0) 4**

No conflict so dramatizes the contradictions of the Cold War or so exposes the dynamics of government policy-making as the United States' involvement in the conflict in Southeast Asia. The course analyzes the history of America's intervention, the struggle of the Vietnamese people for control of their land, and the domestic turmoil that was an essential accompaniment to this war. Winter term, alternating with Hist 337 Cultural and Intellectual History.

### **Hist 337 Cultural And Intellectual History Of America In The 20th Century (4-0) 4**

This course explores the shifting currents of American thought and belief from pragmatism to postmodernism. Topics include the Darwinian revolution, the culture and cult of science, literary and political radicalism, the culture and crisis of capitalism, feminist theory, and postmodernism. Winter term, alternating with Hist 334 The United States and Vietnam.

### **Hist 338 The Modern Women's Movement (3-0) 3**

This course provides an in-depth exploration of the "second wave" of the women's movement from the late 1950s to present. We will study the reasons for the emergence of the "second wave," the lives and ideas of the women who shaped its agenda, the practical work of modern feminists, and the contemporary debate on the future of feminism. Summer session.

### **Hist 339 Women And The "West" (3-0) 3**

Women experienced the American "West" as a place of beauty and personal possibilities as well as a place of hardship. Through art, autobiography, fiction, and historical narrative, the course explores the ways Native American, Hispanic, and Anglo women lived, worked, and perceived the land beyond the 100th Meridian. Summer session.

### **Hist 340 Contemporary Africa (4-0) 4**

Trends and issues in African society, politics, and economy since decolonization (around 1960). Offered on demand.

### **Hist 342 West Africa (4-0) 4**

Basic trends and selected issues in the history of the region bounded by the Sahara and the Atlantic seaboard. Themes include commercial networks and urbanization, the influence of Islam, slavery and the slave trade, European colonization, nationalism, the environmental crisis. Fall term, alternate years.

### **Hist 343 Ancient Nile Valley (4-0) 4**

Survey of developments in Ancient Egypt and Nubia from the origins of agriculture through the Pyramid Age, Egyptian imperialism, Nubia's golden era, the impact of Hellenism, and down to the extinction of the last outpost of Pharaonic civilization at Meroe. Winter term, alternate years.

### **Hist 344 Northeast Africa (4-0) 4**

Historical trends and questions affecting the Nile Basin and the Horn, with emphasis on the period since 1800. Topics include the shaping of ideologies (nationalism, socialism, Islamic fundamentalism,) the Ethiopian Revolution, hydrogeopolitics, the roots of famine, social change, the Somali civil war. Fall term, alternate years.

### **Hist 346 South Africa (4-0) 4**

A survey of the present Republic of South Africa from Iron Age culture through European settlement, the 19th-century Mfecane upheaval, the gold rush, and apartheid, to the election of 1994. Winter term, alternate years.

### **Hist 348 Africans In The Americas (4-0) 4**

The dispersion of Africans to the Americas during the slave trade and the subsequent history of people of African descent in the Western Hemisphere, with particular reference to cultural developments and to the pan-African movement. Winter term.

### **Hist 349 Islam In History (4-0) 4**

The emergence of the Islamic religion in 7th century Arabia, the development of Islamic institutions and civilization in Asia and Africa, and the significance of Islamic cultures in the History of sciences, arts, literature, technology, and historiography. Fall term.

### **Hist 351 U.S.-East Asian Relations (4-0) 4**

This course examines the ever-changing relationship between the United States and East Asia. It analyzes American motivations and policies toward East Asia and explains the purposes and actions taken by East Asian nations in their efforts to deal with the United States. Fall term.

### **Hist 352 Modern China (4-0) 4**

This course concentrates on 20th-century China. It explores the social issues that led to the rise of Chinese Nationalism and Communism. It analyzes the current changes that are making China a world economic power. Summer term.

### **Hist 354 Women, Family & Gender in Chinese History (4-0) 4**

In this course we explore the Chinese family structure and gender roles, in theory and practice, over the past millennium. Readings range from memoirs and biographies, to scholarly essays, to fictional writings by men and women. Paintings, crafts and films will also provide important sources as we examine the visual images of women and men throughout this period.

### **Hist 355 East Asian Popular Religion (4-0) 4**

This course examines East Asian popular religious practices in their historical, social and economic contexts. We begin with theoretical works and introductory lectures on ritual, sacred space, pilgrimage, and various East Asian philosophical and religious traditions, including Confucianism, Daoism, Buddhism and Shinto. We will then focus on specific East Asian pilgrimages, sacred sites, rituals and myths, progressing from ancient to modern periods. This course is the same as RS 355; credit will only be given for one of these courses.

### **Hist 356 History of Japan (4-0) 4**

This class examines institutional and cultural developments in Japan from the development of a centralized state to the present. We will particularly focus on the Tokugawa period, Japan's reaction to Western encroachment, its meteoric rise as an imperial power, the post-WWII economic miracle, and Japan's role in the contemporary world. In addition to political changes, we will also examine changing social and gender roles, religious developments, and

the importance of arts and crafts.

### **Hist 359 Medieval Europe (4-0) 4**

An examination of culture, society, politics, religion, and gender in the historical development of medieval Europe using both primary and secondary written source material with reference to the art, music, and philosophy of the period as well. Fall term, alternate years.

### **Hist 360 Renaissance Europe (4-0) 4**

Using the history of Europe from 1400-1600 as a framework, students of Renaissance Europe will consider the further development of western society through the examination of primary written source material with reference to the art, music, and philosophy of the period as well. Fall term, alternate years.

### **Hist 361 Russia In Revolution To 1924 (4-0) 4**

A study of the Russian past in order to understand from a historical perspective the events, personalities, ideas, and significance of the Russian revolutions and the Soviet Regime to 1924. Fall term.

### **Hist 362 Soviet Union: Stalin To Gorbachev (4-0) 4**

A study of the Soviet Union seeking an understanding of why and how it arose, and ultimately collapsed, the nature of the state and society of the Soviet Union, and its relationship with the rest of the world. Winter term.

### **Hist 363 Collapse Of The Soviet Union (3-0) 3**

An exploration of the collapse of the Soviet Union and of how the ethnic groups of the old Soviet Union, particularly Russians, are seeking to establish themselves as new states within a federation, the Commonwealth of Independent States. Summer session.

### **Hist 364 Germany, Roman Times To 1919 (4-0) 4**

A study of the German past focusing particularly on the efforts of Germans and others to define Germany: who are Germans, where is Germany, and what is Germany politically and culturally. Fall term.

### **Hist 365 Germany, 1919 To Present (4-0) 4**

Study of German history seeking an appreciation of German achievements and an understanding of the disaster of German politics in the first half of the 20th century.

### **Hist 366 Hitler And The Holocaust (3-0) 3**

A study of the racial ideology of National Socialism and how it became state policy in Germany, 1933-45, and resulted in the Holocaust. Usually offered as a summer course.

### **Hist 368 Medieval Women (4-0) 4**

This course explores the frustrations as well as the power women had in Western Europe between the 6th and 14th centuries. Fall term.

### **Hist 371 History Of Central America (4-0) 4**

A close examination of important historical trends in the areas known today as Belize, Guatemala, El Salvador, Nicaragua, Honduras, and Costa Rica since the late 15th century. Some time will be spent on the pre-conquest period, but most of the course will focus on those aspects of colonial society that have remained vital unto the present, the aftermath of political independence from Spain, the prominent role of British and North American interests in the region, the unique economic developments within each country, and the revolutionary turmoil of the late 20th century. Winter term.

### **Hist 372 United States-Latin American Relations (4-0) 4**

An overview and analysis of the historical development of political and economic relationships between the United States and Latin America since the late 18th century. The course focuses on United States policy toward the rest of the western hemisphere and the reactions of various countries and regions of those policies. Particular emphasis is given to the Latin American movements for independence, United States-British rivalry in the Caribbean, the Mexican War, United States economic expansion in the late 19th century, the Spanish-American War, the Panama Canal, United States involvement in the Mexican and Cuban revolutions, and the effects of the Cold War on relationships among the countries of the Americas. Fall term.

### **Hist 373 History Of Mexico (4-0) 4**

An analysis of important trends in the history of Mexico since the late 15th century. Although some time is spent on the pre-conquest era, the bulk of the class focuses on those aspects of colonial society that have remained significant unto the present, the peculiar development of Mexican independence, the disastrous clash between Liberals and Conservatives in the 19th century, the Mexican revolution, and the turbulent years after the Second World War. Winter term.

### **Hist 382 Reformation Europe And The Wars Of Religion (4-0) 4**

An examination of culture, society, politics, religion, and gender in the historical development of 16th and 17th century Europe using primary written source material with reference to the art, music, and philosophy of the period as well. Winter term, alternate years.

### **Hist 396W Philosophy And Methods (4-0) 4**

An introduction to the study of history, this course serves as the Writing Course for the History Department. The course explores the ways historians, past and present, think about and practice the craft of writing history. It introduces students to new fields of historical research and multi-disciplinary approaches to the past. Special emphasis is placed on developing skills necessary for becoming successful writers in the field. This course is required for all majors and should be taken in the second term of the sophomore year or during the junior year. Fall and winter term.

### **Hist 440 Advanced Studies In African History (3-0) 3**

A consideration of fundamental themes in African history through the study of primary and secondary written sources, oral accounts and other types of evidence, and the application of different historiographical approaches. Offered every second or third year depending on student demand.

### **Hist 446 Ancient Israel And Judah (3-0) 3**

This seminar covers ancient Israel from its beginnings around 1250 B.C. to the execution of Jesus of Nazareth around 35 A.D. Major topics include the origins of Israel and Judah, biblical composition and authors, relations with Egypt and Assyria, the Dead Sea Scrolls, and Jesus in Jewish historical context. An historiographical approach is emphasized, Winter term.

### **Hist 450 Advanced Studies In East Asian History (3-0) 3**

An examination of selected historical topics and issues pertaining to the East Asian world. A senior-level research paper will be required. Offered every second or third year depending on student demand.

### **Hist 465 Advanced Studies In European History (3-0) 3**

A research seminar that examines topics in European history. The seminar will explore historiographical issues and research strategies. Students will write a research paper. Topics will vary. Students may not take courses under this number more than once. Topics include the Reformation and Modern Europe. Offered every year as needed.

### **Hist 475 Advanced Studies In Latin American History (3-0) 3**

A research seminar that examines selected topics in Latin American history and may include "Spanish Frontier in North America" or "Colonial New Mexico." The seminar will explore historiographical issues and research strategies. Students will write a research paper. Topics will vary. Students may not take courses under this number more than once. Offered every second or third year as needed.

### **Hist 482 Topics In Colorado History (3-0) 3**

A research and reading seminar designed to prepare students for Senior Research Seminar. Discussion, readings, book reports, and a research paper on various topics in Colorado history. Offered every second or third year as needed.

### **Hist 485 Advanced Studies In United States History (3-0) 3**

A research seminar that examines selected topics in United States history. The seminar will explore historiographical issues and research strategies. Students will write a research paper. Students may not take courses under this number more than once. Topics may include America since 1945, Western/Southwestern history, and Colorado history. Offered every year.

### **Hist 496 Research Senior Seminar (4-0) 4**

A capstone course in the preparation of a senior history research paper with a public presentation and defense. Fall and winter terms.

Prerequisites: Hist 396 and senior standing in history, or humanities with primary history concentration.

### **Hist 499 Independent Study 1-6**

Research project conducted under the supervision of a faculty member. Offered on demand.



# School of Arts and Sciences

## Humanities

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### Humanities Coordinators

Associate Professor Michael C. Anziano  
Professor Gordon P. Cheesewright  
Associate Professor Kathryn Moller

### Humanities Advisors

#### **Anthropology**

Professor Susan M. Riches

#### **Art**

Professor Laurel C. Vogl

#### **Economics**

Professor Vernon E. Lynch, Jr.

#### **English**

Professor Larry K. Hartsfield  
Professor Paul N. Pavich  
Associate Professor Jennifer A. Gehrman

#### **Music**

Professor Rochelle G. Mann

#### **Philosophy**

Associate Professor Dugald L. Owen

#### **Political Science**

Professor Byron Dare

#### **Psychology**

Professor Thomas A. Skurky  
Associate Professor Michael C. Anziano

#### **Sociology**

Associate Professor Dennis W. Lum

The humanities major consists of a primary concentration of 30 credits in one of the disciplines listed below and two secondary concentrations of 12 credits each in two other of these disciplines.

*At least half of the credits constituting the primary concentration and half of the total credits in the*

*secondary concentrations must be for upper-division courses.*

Students majoring in humanities must choose advisors from the disciplines of their primary concentrations. Humanities majors seeking Elementary Teaching Certification should also choose an advisor in the Teacher Education Department. Humanities majors choosing to take the senior seminar within their primary concentration should consult carefully with their advisors to be sure they complete the departmental prerequisites for that course. As an alternative, students may choose to take an interdisciplinary senior seminar (GS 496). Students may not count courses used in their primary concentrations toward second majors in the disciplines of their primary concentrations. Courses used in a primary or secondary concentration may count toward both the humanities major and the General Education Requirements. The disciplines from which students may choose concentrations within the humanities major area listed below.

*Please note any restrictions, requirements, or exceptions indicated for each discipline.*

Courses:

Credits:

**Anthropology:**

Anth 301 does not count

**Art:**

Two history courses and two studio courses required for Primary Concentration

**Economics:**

Econ 201 does not count

**English:**

Engl 215, 250, 251, 252, 304, 306, 350, 351, 352, 450, 451, 452, 453, and 483 do not count

**History Modern Language:**

In addition to all Modern Language courses, Ed 333 is allowed

**Music:**

Allowed as a secondary concentration only. Mu 331 and 332 required; all additional credits must be chosen from among Mu 120, 128, 129, 228, 229, or 337.

**Philosophy / Political Science:**

PS 301, 350, and 450 do not count

**Psychology:**

No more than a total of six Psychology credits of off-campus coursework, innovative month, or independent study combined may be counted toward a primary or secondary concentration.

**Sociology / Southwest Studies:**

Courses for primary or secondary concentrations are to be selected from the list of "Approved Courses for Southwest Studies"

**Theatre:**

Thea 101, 121, and 210 do not count; only nine credits allowed from among Thea 100, 200, 300, and 400 (four credits for secondary concentration)

**REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN HUMANITIES:**

**General Education**

**35-46**

\*\* Courses marked with double asterisks may also be counted toward TS 1 requirements.

**Specific Departmental Requirements:**

Primary Concentration (includes Tier 2 Writing course and 496 Senior Seminar or GS 496. 15 credits must be upper division): 30

Two Secondary Concentrations (12 credits each. A total of 12 of the 24 credits must be upper division): 24

\*\*Note that Thematic Studies I courses may also count toward Primary and Secondary Concentration requirements.

12-16 credits of Thematic Studies I could be counted toward the Departmental Requirements.

***Subtotal***

**54**

**Auxiliary Department Requirements:**

Two trimesters of one college-level modern language 6-8

*Free Electives (variable)*

**TOTAL REQUIRED FOR GRADUATION**

**120**

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.



# School of Arts and Sciences

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### Independent Study 499 1-6

All major fields required either independent study or a seminar at the senior level. Independent study may be undertaken in a field other than the student's major. To do so, the student must have the approval of his or her advisor, department chair, the department chair in whose area the study will be made, and the professor who will supervise the study. However, independent study in the field outside of the student's major cannot be substituted for the requirement of independent study or seminar in his or her major field.



# School of Education

## Interdisciplinary Studies

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### Interdisciplinary Studies Coordinator

Cheryl Clay

The Interdisciplinary Studies Major provides a foundation in a variety of topics as well as the opportunity to make thematic connections between the major content areas. Interdisciplinary study allows for the recognition of the inter-relatedness of our social and physical world. The primary purpose of this degree is to provide Fort Lewis students with the option of pursuing a broad based interdisciplinary program of study. A second purpose is to provide an academic foundation for students seeking either the Colorado Early Childhood (pre-3) or the Colorado Elementary Teacher Licensure (Grades K-6).

### REQUIREMENTS FOR ACCEPTANCE INTO THE MAJOR

Each applicant must present a well-conceived Interdisciplinary Studies Plan. Successful plans will detail:

- 1) the rationale for selecting the major
- 2) a list of selected courses from the content areas of math, science, social studies, and language arts
- 3) the rationale for the courses selected in each content area

Course choices should be consistent with the overall reason for choosing the Interdisciplinary Studies Major.

### REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN INTERDISCIPLINARY STUDIES:

The Interdisciplinary Studies Major is organized in three parts:

- 1) courses required of all FLC students (General Education)
- 2) a specified number of courses from each of four content areas
- 3) electives; the teacher licensure requirements serve as the electives for students seeking licensure.

**Courses:****Credits:****General Education****35-46**

\*\* Courses marked with double asterisks may also be counted toward TS 1 requirements.

**Required credits from each content area:**

	<b>Elementary</b>	<b>Early Childhood</b>
<b>Math</b>	10	3
<b>Science</b>	12	3
<b>Social Studies</b>	10	20
<b>Language Arts</b>	12	18
<b>Sub totals</b>	<b>44</b>	<b>44</b>

**CONTENT AREAS:**

List of courses required and approved as electives in each content area.

**MATH****Required**

\*\*Math 110Q College Algebra or equivalent 4

Note: Early Childhood students may enroll in Psyc 241Q, Math 201Q or BA 253Q to fulfill Math 110Q requirement.

**Elective courses in Math**

\*\*Math 121Q Pre-calculus 4

\*\*Math 135Q Mathematical Concepts 3

\*\*Math 201Q Elementary Statistics 4

\*\*Math 215Q Math for the Elementary Teacher I 3

\*\*Math 310Q Math for the Secondary Teacher 3

\*\*Math 315Q Real Numbers and Geometry 3

\*\*Math 318Q Math for the Elementary Teacher II 3

**SCIENCE****Required**

At least one course in this area must contain a lab. Courses must be from at least two disciplines.

**Elective Courses in Science**

\*\*Bio 105T Biology and Contemporary Social Issues 4

\*\*Bio 121BTx Human Anatomy and Physiology and Lab 3

\*\*Bio 110Tx Survey of Life Science 3

\*\*Bio 141N Global Ecological Issues 3

**Chem 123T Chemistry for Consumers	3
Chem 150 Foundations of Chemistry	4
**Geol 107Nx Earth Systems Science	4
**Geol 113Tx Physical Geology	4
**Geol 150N Geology of the Southwest	3
Geol 401 Natural Resources & the Environment	3
**PhySc 105T The Physical Sciences	3
**PhySc 106Tx The Physical Sciences with lab	4
**PhySc115Nx Environmental Physical Science	3
**PhySc 205T Introductory Astronomy	4
**PhySc 206Tx Introductory Astronomy with lab	4

## **LANGUAGE ARTS**

### **Required**

Ed 317W Professional Writing and Editing for Educators	3
Ed 327 Children's Literature	3
Ed 335 Linguistics for Teachers	3
Elective Courses in Language Arts	
**Engl 174R African American Literature	4
**Engl 221R Classical Literature	4
**Engl 240R Survey of American Literature	4
**Engl 265S Semantics	2
Engl 378 Young Adult Literature	4
Engl 366 Teaching Writing	4
**Engl 280R Literature of the Southwest	4
Soc 376 Language and Social Behavior	4
Thea 323 Children's Theater	4
Psyc 372 Language, Mind and Brain	4

## **SOCIAL STUDIES**

### **Required**

Psych 254 Life Span Human Development	4
Note: Students pursuing a teaching license in Early Childhood will not take Psyc 254 but will take Ed 353 OR Psyc 354.	

### **Elective courses in Social Studies**

**Econ 170S Current Economic Issues	4
-------------------------------------	---

Ed 331 SW Minority Child in the Classroom	3
**Geog 271R World and Regional Geography	4
**Hist 181N US/Southwest History	3
Hist 280 Survey of U.S. History 1600-1865	3
**Hist 281R Survey of U.S. History 1865 - Present	3
Hist 320 Western/Southwest American History	3
Hist 324 Colorado History	3
**PS 110S U.S. National Government	3
**Soc 275S Families, Marriages and other Sex Role Systems	4
**Soc 279R Ethnicity, Gender and Class in the SW	4
Soc 375 Sociology of Education	4
SW 323 SW Indian History	3
<b>Auxiliary Requirements:</b>	
GS 496 Interdisciplinary Senior Seminar	2
Free Electives (variable)	

**NOTES:**

1. Courses from a content area may also count for Thematic Study I credit.
2. Those students electing to also work toward a teaching license will complete the required teacher education courses as electives.

**TOTAL HOURS FOR THE INTERDISCIPLINARY STUDIES MAJOR 120**



# School of Arts and Sciences

## International Studies

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### International Studies Program Coordinator

Professor Jan E. Sallinger-McBride

The intent of this curricular program is to offer the student an interdisciplinary introduction to the multifaceted nature of international and inter-state relations. Students wishing to complete this major must follow the format for a student-constructed major. The student-constructed major form may be obtained from the Advising Center, Miller Student Center 140. Shown below is a suggested model program, but it can be modified to meet individual needs. The core courses in the student-constructed international studies major are appropriate courses in history, political science, and anthropology of a given region or several geographical regions. In addition, courses proposed for the major should reflect sufficient exposure to contemporary cultures and societies from the viewpoints of language, business, economics, and sociology.

Typically, the student is expected to either stipulate a geographical region of concentration having a coherence in terms of specific course selection from those disciplines that offer courses relevant to the geographical orientation (for example a European concentration will have appropriate courses from history, modern language, political science, etc.), or design a broader, non-region specific, worldview emphasis. Successful completion of a well-designed international studies major will give the student a broader, more analytical understanding of the international community in terms of bilateral and multilateral relations that affect the decisions of the individual and their governments.

### EXPECTATIONS

Regardless of the specific orientation, each student is expected to choose courses from among the following disciplines.

**Courses:**

***Language***

**Credits:**

Listed below are the possible geographical designations with the appropriate language courses. The language section includes a total of 12 or 16 hours of intermediate and advanced work in a single language. There is an exception in the Asian field because of limited course offerings.

***Europe:***

6 hours of intermediate French, German, or 8 hours of Spanish

6 hours of upper-level French, German, or 8 hours of Spanish

***Latin America:***

8 hours of intermediate Spanish

8 hours of upper-level Spanish

***Asia:***

6 hours of beginning Japanese

6 hours of cultural Japanese

***Africa:***

6 hours of intermediate French

6 hours of upper-division French

***Total***

**12-16**

***Geography***

Each student in International Studies should take:

Geog 271R World Geography

3

***History***

The listing of courses for the history department is by geographical area and course title. The student is encouraged to select the appropriate courses relating to the specific focus of the major. Moreover, it is understood that the courses selected from this discipline are contemporary in scope. Each student should select two or more courses from among those listed below in order to satisfy this component of the major. This applies to all students in the program.

Hist 340 Contemporary Africa

4

Hist 342 West Africa

4

Hist 344 Northeast Africa

4

Hist 346 South Africa

4

Hist 349 Islam in History

4

Hist 351 U.S.-East Asian Relations

4

Hist 352 Modern China

4

Hist 362 Soviet Union: Stalin to Gorbachev

4

Hist 363 Collapse of the Soviet Union

3

Hist 365 Germany, 1919 to Present

4

Hist 371 History of Central America	4
Hist 372 United States-Latin American Relations	4
Hist 373 History of Mexico	4
Hist 440 Advanced Studies in African History	3
Hist 450 Advanced Studies in East Asian History	3
Hist 465 Advanced Studies in European History	3
Hist 475 Advanced Studies in Latin American History	3
<b><i>Political Science</i></b>	
Each student should select at least three courses from the political science area regardless of geographical designation. All students are strongly urged to take PS 280S and PS 320.	
PS 280S Introduction to Comparative Politics	4
PS 300 Religion and Politics	4
PS 305 Environmental Politics	3
PS 320 International Politics	4
PS 322 International Political Economy	4
PS 325 Middle East Politics	4
PS 337 U.S. Foreign Policy	4
PS 360 Revolution and the Modern World	3
PS 365 Women and Development	3
PS 370 Latin American Politics	4
PS 372 African Politics and Development	4
PS 374 Pacific Rim Politics and Issues	4
PS 380 Comparative Communist Systems	4
PS 385 Twentieth-Century Socialisms	3
<b><i>Business</i></b>	
Each student is urged to take one of the following as part of the program in International Studies.	
BA 309W International Management	3
BA 349W Global Marketing	4
BA 271 Principles of International Business	2
BA 389 International Finance	4
BA 375 Studies in European Business (Trimester Abroad)	3-18
<b><i>Economics</i></b>	

Each student, regardless of specific area of focus, is urged to select from the following courses offered by the Department of Economics.

Econ 370 Topics in International Economics	1-6
Econ 371 International Economics	4
Econ 410 Economics, A Radical Perspective	4

### ***Anthropology***

Each student in International Studies should take Anthropology 210R and Anth 217R regardless of geographical area of concentration.

Anth 210R Introduction to Cultural and Social Anthropology	4
Anth 217R Cultural Images of Women and Men	4

Each student is urged to select one of the following, and where appropriate, the course should be in accord with the area of concentration selected:

Anth 350 Ethnology of Mesoamerica	4
Anth 351 Ethnology of Andean South America	4
Anth 353 Ethnology of India	4
Anth 355 Anthropology of Gender	4
Anth 356 Ecological Anthropology	4
Anth 371 Ethnology of Amazonian South America	4

### ***Sociology/Human Services***

Each student, regardless of geographical area of concentration, is urged to take the following courses in Sociology/Human Services.

Soc 301 Comparative Societies	4
Soc 376 Language and Social Behavior	4

### ***Writing Course:***

*Writing course in appropriate discipline/department	2-4
Independent Study or Senior Seminar in appropriate discipline/department	2-4

A minimum of 44 semester credits must apply toward the major, including at least two credits of 496 or 499.

Forty percent of the major courses must be numbered 300 or above.

***General Education*** **35-46**

NOTE: 12-16 credits of TS 1 courses may also count toward major requirements.

***TOTAL REQUIRED FOR GRADUATION*** **120**

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.





# School of Arts and Sciences

## Course Listings for Mathematics

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### Mathematics Examination and Placement Policy

Placement into mathematics courses at FLC is based on standardized test scores and high school records. Students without scores or transfer credit should take a placement exam during their initial advising session. This will be administered by the New Student Advising and Registration Office. Students who believe their placement is inappropriate are encouraged to take a challenge exam, which will be given the week before classes start and again during the first week of class.

A prerequisite course must be completed with a grade of C- or better, or the student must have the consent of the instructor to take the course. Students will not receive credit for a mathematics course that is a prerequisite for a previously completed course.

Most mathematics courses require the student to have a graphing calculator. For advice on which model to buy, contact the course instructor or the Chair of the Department. At the present, the TI-83 is commonly used.

### Math 110Q College Algebra (4-0) 4

This course covers the topics in algebra necessary for students who plan to enroll in Math 210Q Calculus for Business and the Biological Sciences or Math 121Q Precalculus. The use of technology to aid in problem solving is an integral part of the course. Specific topics covered are simplification of algebraic expressions, complex numbers, solutions of equations (including systems of linear equations) and inequalities, and functions, including polynomial, root, rational, exponential, and logarithmic. Fall, winter, and summer terms.

Prerequisites: Placement into Math 110Q or completion of TRS 92 with a grade of C- or better.

### Math 121Q Pre-Calculus (4-0) 4

This course covers the topics in algebra and trigonometry necessary for students who plan on enrolling in Math 221Q Calculus I. Technological methods, in addition to symbolic methods, are essential in solving problems. The course will include an in-depth analysis of the topics covered in Math 110Q, with additional emphasis on symbolic methods. In addition, other topics include trigonometric functions, vectors, polar coordinates, parametric equations, and the conic sections. The concept of function, with its multiple representations, will be emphasized. Fall, winter, and summer.

Prerequisites: Placement into Math 121Q or completion of Math 110Q with a grade of C- or better.

### **Math 130Q Mathematics For Liberal Arts (3-0) 3**

This course contains an introductory survey of a variety of topics such as theory and history of mathematics, logic, problem solving, number theory, consumer applications, and probability. Fall and winter terms.

Prerequisites: 19 on Math ACT or completion of TRS 92 with a grade of C- or better.

### **Math 135Q Mathematical Concepts (3-0) 3**

Students develop familiarity with concepts of number and measurement, both exact and approximate; number sense; patterns and representations of numbers, including estimations of solutions; geometric figures; functions and connections between variables using algebraic, tabular, and graphical representations; probability and statistical relations, with elementary analysis of data.

Prerequisites: 19 on Math ACT or completion of TRS 92 with a grade of C- or better.

### **Math 201Q Elementary Statistics (4-0) 4**

An introduction to basic ideas in statistics including descriptive statistics, measure of central tendency and dispersion, probability, sampling distributions, estimation, hypothesis testing, regression and correlation, and statistical software application. Credit will be given for only one of BA 253Q, Psyc 241Q, or Math 201Q. Fall and winter terms.

Prerequisites: Completion of Math 110Q with a grade of C- or better or consent of instructor.

### **Math 210Q Calculus For Business And The Biological Sciences (4-0) 4**

An introductory calculus course intended for students majoring in business administration, economics, or the biological sciences. Topics include limits, differential and integral calculus of one variable, and an introduction to calculus of two variables. Fall and winter terms.

Prerequisites: Placement into Math 210Q or completion of Math 110Q with a grade of C- or better.

### **Math 215Q Mathematics For The Elementary School Teacher (2-2) 3**

This course is designed primarily for the elementary school teacher. It includes a study of sets, set operations, construction of numeration systems, whole and integer and rational number arithmetic, ratio and proportion,

decimals, percent, selected topics in geometry, the metric system, and an introduction to the real number system. Fall, winter, and summer terms.

Prerequisites: 19 on Math ACT or completion of TRS 92 with a grade of C- or better; and completion of, or concurrent enrollment in, Ed 200.

### **Math 221Q Calculus I (4-0) 4**

Limits, continuity, derivatives and integrals of functions of one variable including polynomial, root, rational, exponential, logarithmic, trigonometric, and inverse trigonometric functions. Applications of Calculus are included. Fall and winter terms.

Prerequisites: Placement into Math 221Q or completion of Math 121Q with a grade of C- or better.

### **Math 222Q Calculus II (4-0) 4**

A continuation of Math 221Q. Techniques and applications of integration, introduction to differential equations and applications, sequences and series, applications using polar and parametric coordinate systems.

Prerequisites: Completion of Math 221 with a grade of C- or better.

### **Math 223Q Calculus III (4-0) 4**

Vectors and multivariable calculus with applications. Fall and winter terms. Prerequisites: Completion of Math 222Q with a grade of C- or better.

### **Math 300W Writing In Mathematics (3-0) 3**

Writing and interpretation associated with problem statements and solutions, proof structures, modeling experiments, exposition and technical reports. Winter term.

Prerequisites: Completion of Math 221Q with a grade of C- or better and Comp 150 and Lib 150.

### **Math 301Q Foundations For Advanced Mathematics (4-0) 4**

A study of mathematical systems and the forms and techniques of proofs. Included are logic, set theory, and an introduction to elementary number theory. These are studied in some depth and with careful attention to forms of proofs. This course is a prerequisite for most upper-division courses in mathematics. It is often taken concurrently with Math 222Q or 223Q. Fall term.

Prerequisites: Completion of Math 221Q with a grade of C- or better.

### **Math 305Q Discrete Mathematical Structures (3-2) 4**

A study of sets, graphs, trees, combinatorics, probability, recursion, algorithms, mathematical reasoning and modeling computation with applications to computer science. Winter term. Prerequisites: Completion of Math 221Q or Math 210Q, and CSIS 110 with a grade of C- or better; or consent of instructor.

### **Math 310Q Methods Of Teaching Mathematics In The Secondary School (3-0) 3**

This course is for students who are planning to be secondary or middle school teachers. It will include concepts from discrete math, geometry, algebra, and data collection and analysis. It will include uses of technology, in particular the graphing calculator and software used in geometric investigations. Prerequisites: Acceptance into teacher education program.

### **Math 311Q Matrices And Linear Algebra (4-0) 4**

A study of the properties and applications of matrices, including systems of equations, determinants, similarity, and eigenvalues. An introduction to the theory of vector spaces and linear transformations. Fall term.

Prerequisites: Completion of Math 221Q with a grade of C- or better.

### **Math 315Q Real Numbers And Geometry (3-0) 3**

This course is intended for those seeking teacher certification at the elementary or junior high school level. Topics will include real numbers, points, lines, planes, the continuum, the role of axioms and proof, and the basic concepts of Euclidean geometry. Fall term of odd-numbered years.

Prerequisites: Completion of Math 215Q with a grade of C- or better.

### **Math 316Q Topics In Number Theory (3-0) 3**

Some of the topics to be presented in this course are: modular arithmetic, finite fields, basic prime number theorems, congruences, and combinations. Winter term of even-numbered years.

Prerequisites: Completion of Math 315Q or 221Q with a grade of C- or better.

### **Math 318Q Mathematics For The Elementary School Teacher II (2-2) 3**

A continuation of Math 215Q. Topics will include the use of calculators and computers, discrete math, data analysis, and an introduction to algebra. Winter term.

Prerequisites: Completion of Math 215Q with a grade of C- or better.

### **Math 320Q Numerical Analysis (3-0) 3**

An introductory course in developing and using numerical techniques for solving problems in mathematics, the physical sciences, engineering, and in other quantitative fields. Topics include approximation of functions by computable functions, zeros of functions, linear algebra and matrix calculations, and difference equations. The use of the computer will be included. Fall term of odd-numbered years.

Prerequisites: Completion of Math 222Q and one of CSIS 150 or CSIS 110 with a grade of C- or better.

### **Math 325 History Of Mathematics (3-0) 3**

The development of selected mathematical concepts will be traced from the Greek era. The course will focus on mathematical creation as a human endeavor done within a cultural context. Fall term of even-numbered years.

Prerequisites: Completion of Math 121 with a grade of C- or better.

### **Math 327Q Differential Equations (4-0) 4**

An introduction to ordinary differential equations. Topics will include methods of solving first order nonlinear equations, basic theory and methods of solving n-th order linear equations, including infinite series methods. Further topics will include an introduction to systems of linear ordinary differential equations and the Laplace transform. Applications will be emphasized. Winter term.

Prerequisites: Completion of Math 223Q with a grade of C- or better.

### **Math 342Q Modern College Geometry (3-0) 3**

A course in college geometry that includes topics in Euclidean and non-Euclidean geometries. Winter term of odd-numbered years.

Prerequisites: Completion of Math 301Q with a grade of C- or better.

### **Math 345Q Data Analysis (4-0) 4**

A second course in statistics covering techniques most widely used in the sciences, including multiple regression models, analysis of variance, and non-parametric methods. Emphasis is placed on underlying assumptions, purposes, advantages and disadvantage, valid interpretation, and computer software implementation. Fall term.

Prerequisites: Completion of Math 201Q or BA 253Q or Psys 241Q with a grade of C- or better.

### **Math 360Q Introduction To Operations Research (4-0) 4**

Overview of optimization techniques used in operations research. Topics include linear programming, network flow, transportation problems, queuing theory, inventory models, PERT and CPM, dynamic programming, use of statistical computer packages. Winter term of odd-numbered years. (This course is the same as BA 360.)

Prerequisites: Completion of Math 210Q or 221Q and Math 201Q or BA 253 with a grade of C- or better.

### **Math 387Q Algebraic Structures (4-0) 4**

A course in abstract algebra including topics from the theories of groups, rings, and fields. Applications will be discussed. Winter term.

Prerequisites: Completion of Math 301Q with a grade of C- or better.

### **Math 403Q Probability And Mathematical Statistics (4-0) 4**

Topics include probability functions, conditional probability, independence, random variables, order statistics, expected values, moment generating functions, probability distributions, properties of estimators, maximum likelihood, estimation, and hypothesis testing. Winter term of even-numbered years.

Prerequisites: Completion of Math 201Q with a grade of C- or better; and completion of, or concurrent enrollment in, Math 222Q.

### **Math 424Q Advanced Calculus (4-0) 4**

Topics include structure of the real number system and Euclidean spaces, general theory of limits, continuity, derivatives, Riemann integrals, series and sequences, coordinate systems transformations, physical fields, Divergence and Stokes theorem. Fall term.

Prerequisites: Completion of Math 223Q and Math 301Q with a grade of C- or better.

### **Math 430Q Complex Variables (3-0) 3**

This course will cover topics in complex numbers, analytic functions, elementary functions and associated mappings, integrals, series, residues and poles, and conformal mappings. Fall term of even-numbered years.

Prerequisites: Completion of Math 223Q with a grade of C- or better.

### **Math 496 Mathematics Senior Seminar (3-0) 3**

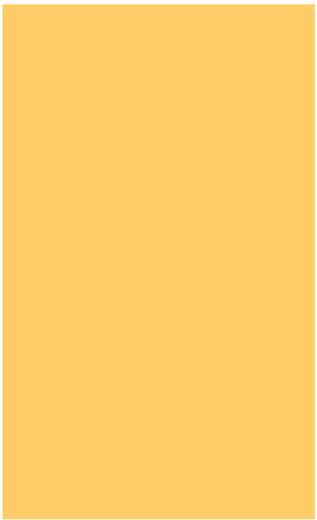
Advanced study and research in selected topics. Will include written and oral presentations of a project involving library research. Activities relate to various mathematical careers and students participate in seminars given by visiting mathematicians. Winter term.

Prerequisites: Senior standing.

### **Math 497 Mathematics Education Senior Seminar (3-0) 3**

Advanced study and research in selected topics. Will include written and oral presentations of a project involving library research. Activities relate to career in mathematics education. Winter term. Prerequisites: Senior or junior standing and enrollment in a program of teacher certification. Math 499 Independent Study 1-6 Individual research conducted under the supervision of a faculty member. Written and oral presentation of research results required if this course is used to satisfy the Math 496/497 graduation requirement. On demand.

Prerequisites: Consent of instructor.





# School of Arts and Sciences

## Mathematics

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### Course listings for Mathematics

#### **Professors**

Evans J. Adams  
Gregory W. Bell  
Laszlo Szuecs

#### **Associate Professors**

Deborah L. Berrier  
Richard C. Walker  
James A. Wixom

#### **Assistant Professors**

Carl F. Lienert  
Pamela K. Smith

#### **Visiting Instructors**

Allen F. Greenwood  
James L. Lapp  
Dorothy D. McShan

### **MATHEMATICS MAJOR**

Society is increasingly dependent upon solving complex problems of a numerical, quantitative, and statistical nature. These all require logical thought. The Mathematics Department major is a solid introduction to all aspects of mathematics. It helps students prepare for the exciting challenges of today and tomorrow.

Many graduates have chosen to be teachers in the public schools. Others have chosen graduate study or careers in such fields as computer science, statistics, engineering, business, biometrics, the actuarial sciences, and other areas involving mathematics. Additionally, for those students who are undecided about a career, a mathematics major proves an excellent background in critical thinking and problem-solving.

### **TEACHER EDUCATION**

Those students seeking certification to teach in a senior high school must complete all the general requirements for the math major, while including the following specific courses: Math 310Q, 325, and 342Q.

To obtain all the requirements for teaching licensing, please contact the Department of Teacher Education.

## **MATHEMATICS MINORS**

Minors are available in mathematics and in probability and statistics. Requirements for these are listed at the end of this section.

### **REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN MATHEMATICS:**

<b>Courses:</b>	<b>Credits:</b>
<b><i>General Education</i></b>	<b>35-46</b>

\*\* Courses marked with double asterisks may also be counted toward TS 1 requirements.

#### **Specific Departmental Requirements:**

**Math 201Q Elementary Statistics	4
**Math 221Q Calculus I	4
**Math 222Q Calculus II	4
**Math 223Q Calculus III	4
Math 300W Writing in Mathematics	3
**Math 301Q Foundations for Advanced Mathematics	4
**Math 387Q Algebraic Structures	4
**Math 424Q Advanced Calculus	4
**Math 311Q Matrices and Linear Algebra	3
OR	
**Math 430Q Complex Variables	4
Three additional Math courses above 300, except 315Q and 318Q 9-12 Math 496 or Math 497	3
<b><i>Subtotal Specific Departmental Requirements</i></b>	<b>46-50</b>

#### **Auxiliary Department Requirements:**

CSIS 106 Introduction to Programming in Visual Basic	4
OR	
CSIS 110 Introduction to Programming (C++)	4
<b><i>Subtotal Auxiliary Requirements</i></b>	<b>4</b>

*Free Electives*

20-35

**TOTAL REQUIRED FOR GRADUATION****120**

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

**REQUIREMENTS FOR MINORS IN MATHEMATICS AND PROBABILITY AND STATISTICS:****Mathematics Minor:**

\*\*Math 221Q, \*\*222Q Calculus I, II

8

Three additional mathematics courses at upper-division level.

One course must emphasize the concept of proof (e.g., Math 301Q, 305Q, or 316Q)

10-12

**Total****18-20****Probability and Statistics:**

\*\*Math 201Q Elementary Statistics

4

CSIS 106 Introduction to Programming in Visual Basic

4

A minimum of 12 credits in upper-division statistics courses such as Math 403Q, 345Q, 360Q, or BA 353.

BA 253Q may be substituted for Math 201Q.

CSIS 110 may be substituted for CSIS 106.

Upper division courses may be substituted for lower-division requirements.

**Total****20**



# School of Arts and Sciences

## Course Listings for Modern Language

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### **ML 100/SW 100 Fundamentals Of Navajo Language I (3-0) 3**

A course in the basic fundamentals of the Navajo language on the oral-aural approach. The instructor is a native speaker, and much use is made of tapes, etc.

### **ML 101/SW 101 Navajo Language II (3-0) 3**

Continuation of Navajo I. Whereas Navajo I emphasized speaking, this course will center on reading and writing the Navajo language.

Prerequisites: ML 100/SW 100 or consent of instructor.

### **ML 109 Introductory Latin I (4-0) 4**

An introduction to the Latin Language. Fall term.

### **ML 110 Introductory Latin II (4-0) 4**

Continuation of ML 109. Winter term.

Prerequisites: ML 109 or equivalent.

### **ML 115 Elementary Spanish I (4-0) 4**

A course in grammar, prose composition, reading, and conversation. Beginning Spanish for students with no previous exposure to Spanish. Development of all four language skills, especially listening and speaking. Fall and winter terms.

### **ML 116 Elementary Spanish II (4-0) 4**

Continuation of ML 115. Fall and winter terms.

Prerequisites: ML 115 or equivalent.

### **ML 118R Spanish Of The Southwest (4-0) 4**

This course will teach Spanish by studying the Spanish language and culture of the Southwest. It is especially appropriate for students who have lived in a Spanish-speaking or bilingual environment. Students will be prepared in reading, prose composition, speaking, and grammar.

### **ML 123 Elementary German I (4-0) 4**

A course in grammar, pronunciation, reading, and conversation. Fall term.

### **ML 124 Elementary German II (4-0) 4**

Continuation of ML 123. Winter term.

Prerequisites: ML 123 or consent of instructor.

### **ML 128 Conversation I - German (1-0) 1**

Instruction in everyday conversation. Optional.

Prerequisites: Students must be enrolled in ML 123 Elementary German I, or obtain consent of instructor.

### **ML 129 Conversation II - German (1-0) 1**

Continuation of ML 128. Optional.

Prerequisites: Students must be enrolled in ML 124 Elementary German II, or obtain consent of instructor.

### **ML 130 Mexican Readings (4-0) 4**

This course is offered as part of the Human service program in Mexico, which is offered through the Sociology Department. Students read, discuss, and write about Mexican literature and poetry as well as newspaper and magazine articles while they live and do human service work in Mexico. Students enroll at the appropriate level.

### **ML 135 Introductory Japanese I (4-0) 4**

An introduction to the Japanese language. Development of all four-language skills. A course in pronunciation, listening, prose composition, reading, and writing in Hiragana, Katakana, and Kanji. Fall term.

**ML 136 Introductory Japanese II (4-0) 4**

Continuation of ML 135 with emphasis on grammar, reading, writing, and speaking. Winter term.

Prerequisite: ML 135 or consent of instructor.

**ML 147 Elementary French I (4-0) 4**

A course in grammar, prose composition, reading and conversation.

**ML 148 Elementary French II (4-0) 4**

Further study of French with emphasis on reading, composition, and conversation.

Prerequisites: ML 147 or consent of instructor.

**ML 215 Intermediate Spanish I (4-0) 4**

A course in second-year Spanish with emphasis on grammar review, reading, and conversation. Fall and winter terms.

Prerequisites: ML 116 or equivalent.

**ML 216R Intermediate Spanish II (4-0) 4**

Continuation of ML 215, with greater emphasis on reading and writing. Fall and winter terms.

Prerequisites: ML 215 or equivalent.

**ML 219 Intermediate Spanish Conversation (4-0) 4**

Students will engage in practical every day situations, as well as discussions on current issues and events through interaction. Fall and winter terms.

Prerequisites: ML 215 or concurrently with ML 216.

### **ML 223 Intermediate German I (3-0) 3**

Second-year German with emphasis on reading, composition, and conversation. Fall term.

Prerequisites: ML 124 or consent of instructor.

### **ML 224R Intermediate German II (3-0) 3**

Study of Germany as a multicultural society. Continuation of ML 223. Winter term.

Prerequisites: ML 223 or consent of instructor.

### **ML 235 Intermediate Japanese I (4-0) 4**

Second-year Japanese with emphasis on grammar, composition, reading, listening, speaking, and writing in Hiragana, Katakana, and Kanji. Fall term.

Prerequisite: ML 136 or consent of instructor.

### **ML 236 Intermediate Japanese II (4-0) 4**

Continuation of ML 235 with greater emphasis on grammar, composition, reading, listening, and speaking. Winter term.

Prerequisite: ML 235 or consent of instructor.

### **ML 247 Intermediate French I (3-0) 3**

A course in second-year French with emphasis on grammar review, reading, writing, and conversation.

Prerequisites: ML 148 or consent of instructor.

### **ML 248 Intermediate French II (3-0) 3**

Continuation of ML 247.

Prerequisites: ML 247 or consent of instructor.

### **ML 301W French Composition And Syntax (3-0) 3**

Emphasis on advanced reading, grammar, and composition.

Prerequisites: ML 248 or consent of instructor.

### **ML 303 French Conversation (3-0) 3**

Emphasis on speaking everyday French to increase students' abilities in maintaining ordinary conversations concerning current events and French Culture.

Prerequisites: ML 248 or consent of instructor.

### **ML 305 Survey Of French Literature (3-0) 3**

An historical and literary survey of the principal French works of literature from the Middle Ages to the 20th century.

Prerequisites: ML 248 or consent of instructor.

### **ML 308 Topics In French Literature (3-0) 3**

Topics will vary; the course may be repeated for a different topic. Offered on demand.

Prerequisites: ML 248 or consent of instructor.

### **ML 309 Business French (3-0) 3**

The goal of this course is to familiarize students with the forms and vocabulary of the French business world such as economics, accounting, manufacturing, tourism, business correspondence, reports, marketing, and transportation.

Prerequisites: ML 301 or consent of instructor.

### **ML 318 Advanced Spanish Of The Southwest (4-0) 4**

This course will teach Spanish by studying the Spanish language and culture of the Southwest. It is especially appropriate for students who have lived in a Spanish-speaking or bilingual environment. Students will be prepared in reading, prose composition, speaking, and grammar. Students at this level will do extensive reading and writing of literature of the Southwest in Spanish. They will also do oral presentations in Spanish on selected class themes.

### **ML 319 Advanced Spanish Conversation And Composition I (4-0) 4**

A course designed to develop a higher level of proficiency in spoken Spanish based on critical analysis of literary works, cultural aspects, and current issues. Repeatable for credit. Fall and winter terms.

Prerequisites: ML 216R or ML 219.

### **ML 320W Advanced Spanish Conversation And Composition II (4-0) 4**

A course designed to improve the student's writing skills in Spanish through the use of original essays, description, composition, letters, and the organization and delivery of research papers. This cannot be taken concurrently with ML 496. Winter term.

Prerequisites: ML 215, ML 216R, and ML 319.

### **ML 330 Mexican Readings (4-0) 4**

This course is offered as part of the human service program in Mexico, which is offered through the Sociology Department. Students read, discuss, and write about Mexican literature and poetry as well as newspaper and magazine articles while they live and do human service work in Mexico. Students enroll at the appropriate level.

### **ML 331 Chicano Literature (4-0) 4**

A course on the essays, novels, poetry, and theater of Chicanos in the Southwest. Literature is included from both rural and urban areas with an emphasis on contemporary literature.

Prerequisites: ML 216R or consent of instructor.

### **ML 332 German Culture (3-0) 3**

German culture is an inquiry course exploring the question of German national identity through an examination of German culture. The course includes a historical overview of important trends in German culture and politics, but concentrates on present-day unified Germany.

Prerequisites: Sophomore standing.

### **ML 333 Advanced German Composition And Conversation (3-0) 3**

Emphasis on advanced reading and conversation as well as on grammar and composition.

Prerequisites: ML 224R or consent of instructor.

### **ML 334 Topics In German Literature (3-0) 3**

Topics will vary; may be repeated for a different topic.

Prerequisites: ML 224R or consent of instructor.

### **ML 335 Seminar In German (3-0) 3**

Advanced reading and research in selected areas of German Studies.

Prerequisites: ML 224R or consent of instructor.

### **ML 336 Survey Of Spanish Literature (4-0) 4**

A survey of Spanish Peninsular literature from the 10th century to the present. Fall term.

Prerequisites: ML 319 and ML 320W or consent of instructor.

### **ML 337 Survey Of Spanish American Literature (4-0) 4**

A course in the literature of Spanish America from the colonial period through Romanticism, Realism, Naturalism, Modernism, and 20th century literature with emphasis on the Mexican Revolution and the contemporary Spanish American writers.

Prerequisites: ML 319 and ML 320W, or consent of instructor.

### **ML 345 Hispanic Culture And Civilization I: Spain (4-0) 4**

An integrated, interdisciplinary study in Spanish of the culture of Spain as reflected in its history, language, philosophy, psychology, religions, and arts. This course gives students an appreciation of the ways of life and attitudes of contemporary Hispanic people. Fall term.

Prerequisites: ML 216R or consent of the instructor.

### **ML 346 Hispanic Culture And Civilization II: Latin America (4-0) 4**

An integrated, interdisciplinary study in Spanish of the cultures of Latin America as reflected in their history,

language, philosophy, psychology, and arts. This course gives students an appreciation of the ways of life and attitudes of contemporary Hispanic American people. Winter term.

Prerequisites: ML 319 and ML 320W or consent of the instructor.

### **ML 350 Spanish For The Professions: Topics (4-0) 4**

The goals of this course are to familiarize students with the forms and vocabulary of Spanish for the professions such as Business Spanish, Spanish for Education, Spanish for the Sciences, Spanish for the Social Sciences, or other professions. Repeatable under different topics.

Prerequisites: ML 215 and 216R or consent of the instructor.

### **ML 405 Seminar In French (3-0) 3**

Advanced reading and research in selected areas of French Studies.

Prerequisites: ML 301 or consent of instructor.

### **ML 426 20th Century Hispanic Literature (4-0) 4**

A course on contemporary Hispanic authors.

Prerequisites: ML 320W.

### **ML 427 Hispanic American Novel And Poetry (4-0) 4**

A course on the contemporary novel, as well as the poetic masterworks of Spanish.

Prerequisites: ML 320W.

### **ML 429 Mexican Literature (4-0) 4**

A survey of Mexican literature with emphasis on the works of the Revolution of 1910 and contemporary Mexican authors. Alternate years.

Prerequisites: ML 320W.

### **ML 496 Senior Seminar In Spanish (4-0) 4**

Advanced study and research in selected topics. Winter term.

Prerequisites: Two literature courses, ML 320W. No exceptions.

**ML 499 Independent Study In Spanish, French, Or German 1-6**

Individual research conducted under the supervision of a faculty member. Offered on demand for seniors only.

Prerequisites: Approval of department chair and senior standing.



# School of Arts and Sciences

## Modern Language

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### [Course listings for all Modern Languages](#)

#### **Professors**

Lourdes M. Carrasco  
James Fitzgerald (jointly with Sociology/Human Services)  
Ingrid W. Ryan

#### **Instructor**

Kathleen Aguilar

#### **Visiting Instructor**

Isabelle Pertant

The Department of Modern Languages offers work in French, German, Japanese, Latin, Navajo, and Spanish as an important element of a well-rounded liberal arts education (see Course Listings). Occasionally other modern languages are taught under Special Topics. A Bachelor of Arts degree with a major in Spanish is offered. (See statement under SPANISH below.)

### **GUIDELINES FOR GRANTING CREDIT FOR FOREIGN LANGUAGE COMPETENCE**

Fort Lewis College has two methods of granting credit for foreign language competence. One method is based upon the transfer of college credits from a fully accredited college or university. The second method is by examination. A student may pass subject examinations of the College Level Examination Program (CLEP), Advanced Placement (AP), or International Baccalaureate (IB). Also, a student may challenge a foreign language course for credit through the Credit by Examination procedure, provided the challenged course is not more than one step below the student's present level. Except for transfer credits, credit will be granted for competence in a foreign language only for courses taught at Fort Lewis College.

Further information concerning foreign language competence is available through the Modern Languages Department or the Records Office.

Minors are available in Spanish, French, and German for students majoring in other disciplines. A minor in French or

German requires at least 23 credits or equivalent knowledge in the appropriate language, nine credits of which must be 300- or 400-level courses. A minor in Spanish requires 24 credits, 12 of which must be 300- or 400-level courses.

### **REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN SPANISH:**

To earn a major in Spanish, a student is required to complete the equivalent of 40 credits of coursework in the language. 100-level courses do not count toward the major. A student with previous study may be placed on the appropriate level. Please refer to the Department web page for additional information.

A student electing Spanish as a major will devise a plan of study in consultation with a member of the Spanish faculty. Students intending to acquire a teaching credential at the elementary or secondary level should consult with an advisor in the School of Education. At the elementary level, a bilingual/bicultural concentration is offered. Students desiring to pursue a major in Southwest Studies requiring courses in Spanish should consult with the Chair of the Department of Southwest Studies and the Chair of the Department of Modern Languages.

#### **Courses:**

**Credits:**

#### **General Education**

**35-46**

\*\* Courses marked with double asterisks may also be counted toward TS 1 requirements.

#### **Specific Departmental Requirements:**

ML 215 Intermediate Spanish I 4

\*\*ML 216R Intermediate Spanish II 4

ML 319 Advanced Spanish Conversation and Composition I 4

ML 320W Advanced Spanish Conversation and Composition II 4

#### **Choose one of the two following sequences:**

ML 336 Survey of Spanish Literature 4

AND

ML 345 Hispanic Culture and Civilization I: Spain 4

OR

ML 337 Survey of Spanish American Literature 4

AND

ML 346 Hispanic Culture and Civilization II: Latin America 4

ML 496 Senior Seminar in Spanish 4

#### **Writing Course within Discipline:**

Included in Specific Departmental Requirements above.

#### **Other Departmental Requirements:**

12 credits to be taken from 300- or 400-level Spanish courses 12

<b>Total</b>	<b>40</b>
<i>Free Electives (variable)</i>	
<b>TOTAL REQUIRED FOR GRADUATION</b>	<b>120</b>
<b>REQUIREMENTS FOR A MINOR IN SPANISH, FRENCH, OR GERMAN:</b>	
<b>Spanish:</b>	
Completion of 24 credits in Spanish, 12 credits of which must be 300- or 400-level courses.	
<b>Total</b>	<b>24</b>
<b>French:</b>	
ML 147 Elementary French I	4
ML 148 Elementary French II	4
ML 247 Intermediate French I	3
ML 248 Intermediate French II	3
300- or 400-level courses	9
<b>Total</b>	<b>23</b>
<b>German:</b>	
ML 123 Elementary German I	4
ML 124 Elementary German II	4
ML 223 Intermediate German I	3
**ML 224R Intermediate German II	3
300- or 400-level courses	9
<b>Total</b>	<b>23</b>
When planning a minor in Spanish, French, or German, students should consult with an appropriate faculty member in the Department of Modern Languages. Students may also pursue a student-constructed major in French or German under the supervision of the appropriate faculty member (See <a href="#">Academic Programs</a> ). For French, German, Japanese, Latin, and Navajo, see Modern Language <a href="#">course listings</a> .	



# School of Arts and Sciences

## Music

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### Course listings for Music

#### **Professors**

Linda S. Mack  
Rochelle G. Mann

#### **Associate Professors**

John C. Pennington  
Mark A. Walters

#### **Assistant Professors**

Eleanor A. Elkins  
Timothy P. Farrell  
Katherine D. Jetter Tischhauser

In today's complex society, the need persists for the educated person to be aware of the important role played by the arts. The Fort Lewis College Music Department, an accredited member of the National Association of Schools of Music, provides an opportunity for all students to be actively involved in the expansion of their understanding of music. The discipline and sensitivity developed by the study of music provides an excellent background for many and varied careers. The Music Department awards both majors and minors in music.

For the student interested in majoring in music, the department offers a comprehensive curriculum. Three different courses of study, each leading to the Bachelor of Arts degree in Music, allow concentrations in General Music Studies, Performance, or Music Education.

#### General Music Studies

The General Music Studies concentration is designed for students interested in a liberal arts education with an emphasis in music.

#### Music Performance

The Music Performance concentration is designed for students who have demonstrated a strong commitment to music performance and who wish to use some of their elective hours to further concentrate in this area. The performance concentrations are limited to the areas of expertise represented by the music faculty. The areas of concentration are Piano, Voice, Brass, Woodwinds, Percussion, and Strings. A specific instrument must be chosen from within the brass, woodwinds, and strings.

### Music Education

The Music Education concentration is designed for students planning to teach music in the public schools.

### **REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN MUSIC:**

All music majors must satisfy the following Special Departmental Requirements as well as the listed Common Requirements.

#### **Special Departmental Requirements:**

##### **Piano Proficiency Requirements:**

All music majors must satisfy a piano proficiency requirement before taking Mu 349 Conducting I or Mu 423 Orchestration. The requirement includes sight-reading, harmonization of a simple melody, and demonstrated ability to perform easier piano compositions (such as Clementi: Sonatina Op. 36 #1; Bach: Two Part Invention). Students with adequate skills may petition to take the examination and may receive credit for the appropriate courses. (See Credit by Examination.) Those with less background must take a piano Placement test and, in their freshman year, enroll in the proper course in the Piano class sequence 103, 104, 203, and 204. Successful completion, with a grade of A or B, of this sequence also satisfies the piano Proficiency requirement.

##### **Music Literature Requirement:**

Concert Attendance. Attendance at scheduled recitals and concerts and at regularly scheduled listening labs required each trimester.

##### **Major Ensemble Requirement:**

At least 6 credits from Mu 105, 110, 117, 305, 310, and 317 are required with a maximum of 12 credits allowable toward graduation in any combination of these courses. Students will be assigned to the appropriate major ensemble by the applied music instructor(s). At least one of the above is required each trimester of residency with the exception contained within the following:

Music Education concentration - A Major Ensemble is not required during the trimester of student teaching. Mu 110, 117, 310, or 317 is required for the instrumental specialization, and Mu 105 or 305 for the choral specialization.

##### **Applied Music Requirement:**

One applied course is required each trimester of residency except during the trimester of student teaching (Music Education Concentration). The following guidelines pertain to the Performance Concentration: Students must obtain music faculty approval before declaring the Performance Concentration and subsequently register for 2 credits of applied music on their major instrument each trimester of residency. A maximum of 16 credits in a single applied music area is allowable toward graduation.

### **Foreign Language Requirement:**

Two trimesters of foreign language, either German or French, are strongly recommended for the General Music Studies and for the Instrumental Performance Concentration. The voice specialization within the Performance concentration requires three trimesters of German or French, including at least one trimester of each language.

### **Common Requirements:**

<b>Courses:</b>	<b>Credits:</b>
Mu 128 Theory and Musicianship I	5
Mu 129 Theory and Musicianship II	5
Mu 228 Theory and Musicianship III	5
Mu 229 Theory and Musicianship IV	5
Mu 331 History of Music I	3
Mu 332 History of Music II	3
Mu 349 Conducting I	2
Mu 350 Conducting II	2
Mu 423 Orchestration	1
Mu 496 Senior Seminar	2
<b><i>Total Common Requirements</i></b>	<b>33</b>
<b>General Music Studies:</b>	
<b>General Education</b>	<b>35-46</b>
** Courses marked with double asterisks may also be counted toward TS 1 requirements.	
<b>Common Requirements</b>	<b>33</b>
<b>Special Departmental Requirements:</b>	
Music Literature/Concert Attendance	0
Major Ensemble	8
Applied Music	8
<b><i>Subtotal</i></b>	<b>16</b>
<b>Writing Course Within Discipline:</b>	
Mu 415W Literature and Conversation: Writing About Music	3
<b>Total</b>	<b>52</b>

**Additional Requirements:**

Students must present a half recital of at least thirty minutes duration during the junior or senior year.

*Free Electives (variable)*

**TOTAL REQUIRED FOR GRADUATION 120**

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

**Music Performance:**

**General Education 35-46**

\*\* Courses marked with double asterisks may also be counted toward TS 1 requirements.

**Common Requirements 33**

**Special Departmental Requirements:**

Music Literature/Concert Attendance 0

Major Ensemble 8

Applied Music 16

**Subtotal Specific Departmental 24**

**Writing Course Within Discipline:**

Mu 415W Literature and Conversation: Writing About Music 3

**Total 60**

**Additional Requirements:**

Students must present a half recital of at least 30 minutes duration during the junior year and a full recital of at least one hour duration during the senior year.

*Free Electives (variable)*

**TOTAL REQUIRED FOR GRADUATION 120**

**Music Education:**

The required classes are in compliance with the Teacher Certification Act of 1975, which outlines three areas of specialization: General Music, Instrumental Music, and Choral Music. Those who elect piano as their primary applied area and who do not have a secondary instrumental area should select the choral music specialization.

**General Education 35-46**

\*\* Courses marked with double asterisks may also be counted toward TS 1 requirements.

**Common Requirements 33**

**Additional Departmental Requirements:**

Mu 103 Voice in Class 1

Mu 103 Brass in Class 1

Mu 103 Woodwinds in Class 1

Mu 103 Percussion in Class	1
Mu 103 Strings in Class	1
Mu 314 Methods and Principles of Teaching Vocal Music	3
Mu 315 Methods and Principles of Teaching Instrumental Music	3
Mu 316 Music in the Elementary School	3
<b>Subtotal</b>	<b>14</b>
<b>Special Departmental Requirements:</b>	
Music Literature/Concert Attendance	0
Major Ensemble	7
Applied Music	6-7
<b>Subtotal</b>	<b>13-14</b>
<b>Writing Course Within Discipline:</b>	
Mu 415W Literature and Conversation: Writing About Music	3
<b>Total</b>	<b>60-61</b>
<b>Additional Requirements:</b>	
Students must complete the following courses for teacher licensure. Consult the Teacher Education Department for specific requirements. All Music Majors must also have an advisor from the Teacher Education Department.	
Ed 200 Introduction to Education in America	4
**Ed 210S Culture of Childhood and Youth	4
Ed 421 Individualized Instruction in a Pluralistic Society	6
Ed 494 and 495 Laboratory Experience (8 credits Ed 494-Elementary/8 credits Ed 495-Secondary)	16
<b>Subtotal</b>	<b>30</b>
Auxiliary Requirements:	
Psyc 157 Introduction to Psychology	3
Psyc 254 Life Span of Human Development	4
<b>Subtotal</b>	<b>7</b>
Students must present a half recital of at least 30 minutes duration during the junior or senior year.	
<b>MINIMUM REQUIRED FOR GRADUATION</b>	<b>128-141</b>
<b>REQUIREMENTS FOR A MINOR IN MUSIC:</b>	
1. A minimum of 19 credits of music with at least six credits in upper-division courses	
2. A core curriculum that includes:	
Mu 128 Theory and Musicianship I	5

Mu 129 Theory and Musicianship II

5

Mu 331 Music History I

3

OR

Mu 332 Music History II

3

Three years of Applied Music, Mu 109, 209, and 309

Interested students should consult with their applied professor or the department chair.



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### **Mu 101R The Musical Experience (3-0) 3**

A course in music appreciation designed for the general student. The intent of the course is to prepare students for informed and active listening experiences. Fall and winter terms.

### **Mu 102R Blues/Jazz/Rock (3-0) 3**

This course is designed to be an introduction to popular music, which will lead the student toward intelligent, meaningful listening. It is assumed that listening to and understanding the content and structure of music as an art form will be beneficial in the development of a better understanding of music as part of human cultural heritage. The format of this course is to survey varied examples of popular music while investigating the circumstances surrounding the performers and their compositions. The course is intended to develop those aural skills that can provide a basis for critical and intelligent listening.

### **Mu 103 Instrumental, Vocal, And Piano Class Instruction (Piano, Voice, Brass, Woodwinds, Percussion, Strings) (0-2) 1**

These classes are all designed to provide the student with the basis elements and techniques of performance in each of the media. Piano Class (Mu 103 Piano) is specifically designed for the music major lacking in keyboard skills. Emphases include fluent reading of simple piano music and elementary technique. Successful completion with a grade of A or B satisfies Part II of the Piano Proficiency Requirement. Piano class instruction includes group activities and individual instruction. Piano Class is offered fall terms. Voice Class is offered fall term; Brass, Woodwinds, Percussion, and Strings classes are offered alternate years.

Prerequisites: Consent of instructor.

### **Mu 104 Piano Class Instruction II (0-2) 1**

Continuation of Mu 103 Piano and mandatory for music majors who desire to complete the Piano Proficiency Requirement in this manner. Emphases include performance of easier piano music, scales, triads, sevenths, and harmonization of simple melodies. Successful completion with a grade of A or B satisfies part II of the Piano Proficiency Requirement. Piano class instruction includes group activities and individual instruction. Winter term.

Prerequisites: Consent of instructor or Mu 103 Piano.

### **Mu 105 Concert Choir (0-3) 1**

Thorough study and performance each trimester of larger choral compositions. Open to all students. Course is repeatable. Fall and winter terms.

### **Mu 106 Chamber Choir (0-2) 1**

An ensemble specializing in the performance of small scale choral works. By audition only. Course is repeatable. Fall and winter terms.

Prerequisite: Consent of instructor and enrollment in concert choir.

### **Mu 107 Special Choirs (0-2) 1**

Requests for developing special choirs will be considered, upon written request to the Department of Music, as adjuncts to any on-campus organization. Under competent, organized supervision these choirs may function and receive 1 credit during any one term. Open to all students. Course is repeatable. Fall and winter terms.

### **Mu 108 Introduction to Guitar (1-3) 2**

This course is designed to give every student, from absolute beginner to more experienced, a broad and thorough introduction to guitar playing. While emphasizing the reading of a variety of notation types, we explore proper playing technique, basic chord theory, chord progressions and corresponding scale patterns (including major, minor, and pentatonic) and some basic arranging techniques. We will work to read, practice, arrange and play/perform music.

### **Mu 109, 209, 309, 409 Applied Music (Piano, Voice, Brass, Woodwinds, Percussion, Strings) 1 or 2**

Individual instruction scheduled, at the discretion of the instructor, either privately or in a small class. The course is open to all students. Each of these courses may be repeated once for credit up to 4 total credits for each course. No student may register for more than two different applied lessons during any one trimester. Students may register for two credit hours only with approval of the music faculty. Two credit hours are required for a Performance Concentration. Students who register for two credit hours will receive longer lessons in proportion to the amount of time spent in preparation.

Prerequisites: Placement audition, enrollment in Band Concert Choir or Orchestra (the large ensemble appropriate to the applied area) and consent of instructor.

### **Mu 110 Band (0-4) 1**

Designed to provide every student who plays a musical instrument the opportunity to pursue his or her musical interests. A variety of musical literature will be provided as well as the opportunity to perform in concert both on campus and on tour. Open to all students. Course is repeatable. Fall and winter terms.

### **Mu 111 Brass Ensemble (0-3) 1**

A survey, through performance, of the literature written for this medium. Literature from the baroque period through the contemporary period will be studied and performed. Course is repeatable. Fall and winter terms.

Prerequisites: Consent of instructor and enrollment in band.

### **Mu 112 Woodwind Ensemble (0-3) 1**

A survey, through performance, of the literature composed for woodwind instruments from the Renaissance through avant-garde schools of composition. May include the use of ancient instruments where applicable. Course is repeatable.

Prerequisites: Consent of instructor and enrollment in band.

### **Mu 113 String Ensemble (0-3) 1**

A survey, through performance, of the literature written for the medium. Literature from the baroque period through the contemporary period will be studied and performed. Course is repeatable. Fall and winter terms.

Prerequisites: Consent of instructor and enrollment in symphony orchestra.

### **Mu 116 Accompanying (0-3) 1**

A course designed to provide ensemble and accompanying experience for piano students.

Prerequisites: Consent of piano instructor.

### **Mu 117 Symphony Orchestra (0-3) 1**

Offered in conjunction with the San Juan Symphony Orchestra at no extra fee. This course provides an opportunity for the study and performance of major orchestral works. Two hours of rehearsal are held on Tuesday evenings and the third is arranged at the convenience of the instructor and students. Open to all string students; wind and percussion students by audition only. Course is repeatable. Fall and winter terms.

### **Mu 118 Percussion Ensemble (0-3) 1**

A survey, through performance, of the literature written for this medium. Course is repeatable. Fall and winter terms.

Prerequisites: Consent of instructor and enrollment in band.

### **Mu 119 Jazz Ensemble (0-3) 1**

A survey, through performance, of the literature written for this medium. Course is repeatable. Fall and winter terms.

Prerequisites: Consent of instructor and enrollment in band.

### **Mu 120 Fundamentals Of Music (3-0) 3**

Open to all students. A course in musical literacy intended to help laymen acquire the basic skills necessary to participate fully in musical activities. No prior musical background is assumed. Fall and winter terms.

### **Mu 128 Theory And Musicianship I (5-0) 5**

A course in basic musicianship designed to teach aural, analytical, and compositional skills. Daily sight-singing and ear-training activities will supplement study of scales, key, modes, triads, melody, tonality, cadences, functional harmony, and basic four-part writing including figured bass. Theory Placement Examination is required for admission. Open to music majors and music minors only. Others must have consent of instructor. Fall term.

### **Mu 129 Theory And Musicianship II (5-0) 5**

Continuation of Theory and Musicianship I, expanded to include nonharmonic tones, dominant sevenths, secondary dominants, and modulation. Formal analysis will include binary, ternary, rondo, theme and variations, chaconne/passacaglia, fugue, and sonata-allegro. Winter term. Open to music majors and minors only. Others must have consent of instructor.

Prerequisites: Mu 128 with a grade of C- or better.

### **Mu 203 Piano Class Instruction III (0-3) 1**

Continuation of Mu 104 and mandatory for music majors who desire to complete the Piano Proficiency Requirement in this manner. Emphases include expanded performance of piano literature and elementary sight reading. Successful completion with a grade of A or B satisfies Part III of the Piano Proficiency Requirement. Piano class instruction includes group activities and individual instruction. Fall term.

Prerequisites: Consent of instructor or Mu 104 Piano.

### **Mu 204 Piano Class Instruction IV (0-3) 1**

Continuation of Mu 203 and mandatory for music majors who desire to complete the Piano Proficiency Requirement in this manner. Students will be expected to perform compositions at the level of Clementi: Sonatina, Op. 36 #1; Bach: Two Part Inventions, all scales, arpeggios, and cadences. Successful completion with a grade of A or B satisfies part IV of the Piano Proficiency Requirement. Piano class instruction includes group activities and individual instruction. Winter term.

### **Mu 228 Theory And Musicianship III (5-0) 5**

Extensive study of chromatically altered chords typical of the 19th century. Harmonic analysis, formal analysis, ear training, and compositions incorporating altered chords are primary emphases. Open to music majors and minors only. Others must have consent of instructor. Fall term.

Prerequisites: Mu 129 with a grade of C- or better.

### **Mu 229 Theory And Musicianship IV (5-0) 5**

Exploration of 20th century theoretical and compositional techniques. Examples will include derivatives from the end of the 19th century, nationalist influences, serial and aleatoric music, extended techniques, and electronic music. Open to music majors and minors only. Others must have consent of instructor. Winter term.

Prerequisites: Mu 228 with a grade of C- or better.

### **Mu 299 Individual Study 1-6**

Individual research is conducted under the supervision of a faculty member.

### **Mu 300 Vocal Ensemble (0-2) 1**

A survey, through performance, of the literature for vocal ensemble. Course is repeatable. Fall and winter terms.

Prerequisite: Consent of instructor and enrollment in Concert Choir.

### **Mu 305 Concert Choir (0-3) 1**

Thorough study and performance of larger choral compositions. Students are expected to take responsible roles in the ensemble such as: soloists, section leaders, conductor/managers, or accompanists. Course is repeatable. Open to all students. Fall and winter terms.

### **Mu 306 Chamber Choir (0-3) 1**

An ensemble specializing in the performance of small scale choral works. Students are expected to take responsible roles in the ensemble such as soloist, section leaders, conductor/managers, or accompanists. Course is repeatable. By audition only. Fall and winter terms.

Prerequisites: Consent of instructor and enrollment in Concert Choir.

### **Mu 310 Band (0-4) 1**

Designed to provide every student who plays a musical instrument the opportunity to pursue his/her musical interests. A variety of musical literature will be provided as well as the opportunity to perform in concert both on campus and on tour. Students are expected to take responsible roles in the ensemble such as soloist, section leaders, or conductor/managers. Course is repeatable. Fall and winter terms.

### **Mu 311 Brass Ensemble (0-3) 1**

A survey, through performance, of the literature written for this medium. Literature from the baroque period through the contemporary period will be studied and performed. Students are expected to take responsible roles in the ensemble such as: soloists, section leaders, or conductors/managers. Course is repeatable. Fall and winter terms.

Prerequisites: Consent of instructor and enrollment in band.

### **Mu 312 Woodwind Ensemble (0-3) 1**

A survey, through performance, of the literature composed for woodwind instruments from the Renaissance through avant-garde schools of composition. May include the use of ancient instruments where applicable. Students are expected to take responsible roles in the ensemble such as soloists, section leaders, or conductors/ managers. Course is repeatable. Fall and winter terms.

Prerequisites: Consent of instructor and enrollment in band.

### **Mu 313 String Ensemble (0-3) 1**

A survey, through performance, of the literature written for this medium. Literature from the baroque period through the contemporary period will be studied and performed. Students are expected to take responsible roles in the ensemble such as soloists, section leaders, or conductors/managers. Course is repeatable. Fall and winter terms.

Prerequisites: Consent of instructor and enrollment in symphony orchestra.

### **Mu 314 Methods And Principles Of Teaching Vocal Music (3-0) 3**

A course designed to provide music majors with contemporary teaching skills and techniques for secondary vocal/choral music, including vocal pedagogy, classroom management, rehearsal preparation, and audition and placement procedures. Fall term of alternate years.

Prerequisites: Admission to teacher education program or consent of instructor.

### **Mu 315 Methods And Principles Of Teaching Instrumental Music (3-0) 3**

A course designed to provide music majors with contemporary teaching skills and techniques in the teaching of instrumental music in the public schools, including program development, classroom management, rehearsal preparation and use of audio/visual materials. Fall term of alternate years.

Prerequisites: Admission to teacher education program or consent of instructor.

### **Mu 316 Music In The Elementary School (3-0) 3**

A course designed for music teachers to provide practical skills in pedagogy, lesson planning, folk music, dance/movement, musical literacy, and classroom management. Attention will be given to the philosophies of Kodaly, Orff, and Dalcroze within a laboratory setting often involving elementary-age children from local schools. Winter term of alternate years.

Prerequisites: Admission to teacher education program or consent of instructor.

### **Mu 317 Symphony Orchestra (0-3) 1**

Offered in conjunction with the San Juan Symphony Orchestra at no extra fee. This course provides an opportunity for the study and performance of major orchestral works. Two hours of rehearsal are held on Tuesday evenings and the third is arranged at the convenience of the instructor and students. All string students are invited; wind and

percussion students by audition only. Students are expected to take responsible roles in the ensemble such as soloists, section leaders, or conductors/managers. Course is repeatable. Fall and winter terms.

### **Mu 318 Percussion Ensemble (0-3) 1**

A survey, through performance, of the literature written for this medium. Students are expected to take responsible roles in the ensemble such as soloists, section leaders, or conductors/managers. Course is repeatable. Fall and winter terms.

Prerequisites: Consent of instructor and enrollment in band.

### **Mu 319 Jazz Ensemble (0-3) 1**

A survey, through performance, of the literature written for this medium. Students are expected to take responsible roles in the ensemble such as soloists, section leaders, or conductors/managers. Course is repeatable. Fall and winter terms.

Prerequisites: Consent of instructor and enrollment in band.

### **Mu 320 Mallet Ensemble (0-3) 1**

Keyboard Mallet Ensemble is a class in which repertoire, specifically written for mallet ensemble, will be rehearsed, learned, and performed. Transcriptions from the Baroque, Classical, Romantic, Contemporary, and Jazz periods will be assimilated with particular attention devoted to music of the ragtime era, post World War I through the 1940s. We will also perform music from Africa, Mexico, and Guatemala where the marimba is the national instrument.

Prerequisites: Mu 105 or Mu 110.

### **Mu 331 Music History I (3-0) 3**

Study of the history of music from classical antiquity to 1750. Fall term of alternate years.

### **Mu 332 Music History II (3-0) 3**

Study of the history of music from 1750 through the 20th century. Winter term of alternate years.

### **Mu 349 Conducting I (3-0) 2**

A course in basic instrumental and choral conducting including baton technique, score reading, and various cueing

and rhythmic aspects concerned with ensemble control. Fall term of alternate years.

Prerequisites: Piano Proficiency Requirement.

### **Mu 350 Conducting II (3-0) 2**

Continuation of Conducting I. Conducting techniques in addition to directing larger musical scores and advanced techniques. Winter term of alternate years.

Prerequisites: Mu 349.

### **Mu 415W Literature And Conversation: Writing About Music (3-0) 3**

The purpose of this course is to help students develop an understanding of what constitutes literacy within the discipline of music, and to integrate critical analysis with writing and creative performance. Students will be required to read and discuss examples of scholarly writing that will include program notes, journal articles, grant proposals, and concert reviews. They will then be required to practice and refine their own writing skills using these formal models. The process will include multiple drafts and extensive feedback as well as individual guidance and instruction. This course will fulfill the Group W Writing requirement for music majors.

### **Mu 423 Orchestration (2-0) 1**

A technology-based course designed to equip music majors with the skills and techniques of arranging for instrumental ensembles. Fall term of alternate years.

Prerequisites: Mu 229 and Piano Proficiency Requirement.

### **Mu 496 Senior Seminar (2-0) 2**

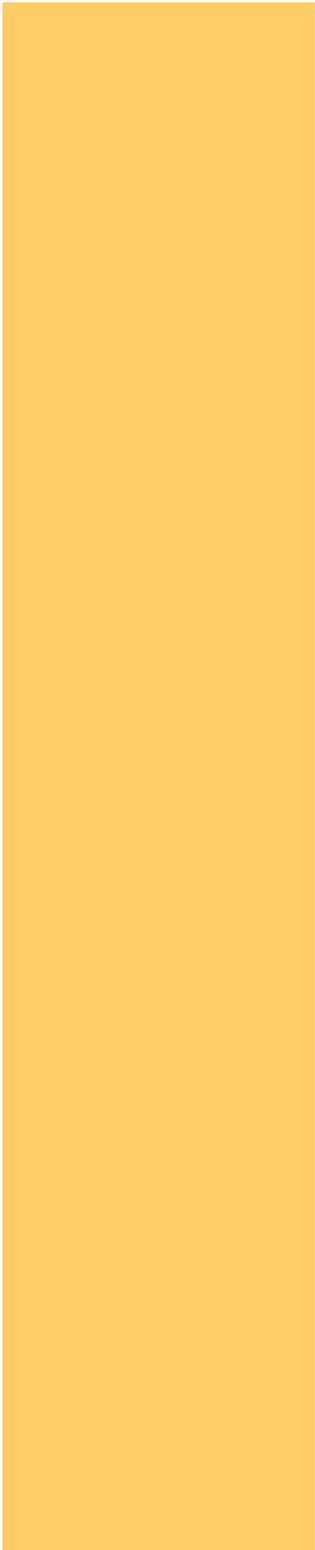
Advanced study and research in music and musical performance. The student will prepare and perform a senior recital approved by the applied area instructor and the department chair.

Prerequisites: Senior standing and consent of instructor.

### **Mu 499 Independent Study 1-3**

Individual research conducted under the supervision of a faculty member. Offered on demand.

Prerequisites: Approval of instructor and department chair.







# School of Arts and Sciences

## Philosophy

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### Course listings for Philosophy

#### **Professor**

Reyes R. Garcia

#### **Associate Professor**

Dugald L. Owen

#### **Assistant Professors**

Sean E. Cridland

Sarah Roberts

The purpose of the Philosophy curriculum at Fort Lewis College is not only the study of traditional and contemporary philosophical issues and positions for their intrinsic interest and importance, but also the demonstration that these age-old but continuing efforts to understand ourselves and our relation to the world are important to everyone. It is the mark of a liberally educated person to understand the conclusions of the specialized sciences in terms of their basic assumptions, to think seriously about the nature of such assumptions, and to be aware of the way in which our views of reality are influenced by our cultural heritages and by the very structures of our languages. Perhaps the most important function of philosophy as part of the liberal education is the destruction or at least the recognition of the complacency and provincialism of much of our thinking.

A major in philosophy will provide a sound foundation for graduate studies in philosophy and will also serve as an excellent preparation for law school or for theological studies. For its majors, as well as for those majoring in other disciplines and minoring in philosophy and for those taking several philosophy courses as electives, the program is designed to provide a systematic acquaintance with humankind's most fundamental attempts at self-knowledge and a concomitant basis from which students can formulate their own views of themselves and the world.

#### **REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN PHILOSOPHY:**

##### **Courses:**

##### **General Education**

**Credits:**

**35-46**

\*\* Courses marked with double asterisks may also be counted toward TS 1 requirements.

Major Requirements:	
**Phil 251S Moral Philosophy	4
OR	
Phil 264 Social and Political Philosophy	4
Phil 271 Logic	4
**Phil 274R Ancient and Medieval Philosophy	4
Phil 305W Writing Philosophy	4
Phil 379 Modern Philosophy	4
Phil 380 Nineteenth Century Philosophy	4
Phil 496 Seminar in Philosophy	4
<b>Subtotal Major Requirements</b>	<b>28</b>
<b>Other Departmental Requirements:</b>	
Two other courses in philosophy (a minimum of 6 credits), including at least one course in non-western philosophy.	
PS 386 and PS 387 may be credited toward this requirement.	
<b>Subtotal Other Departmental Requirements</b>	<b>6-8</b>
<b>Total Departmental Requirements</b>	<b>34-36</b>
<b>Auxiliary Requirements from Other Departments:</b>	
Two trimesters of one modern language	6-8
<i>Free Electives (variable)</i>	
<b>TOTAL REQUIRED FOR GRADUATION</b>	<b>120</b>
Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.	
<b>REQUIREMENTS FOR A MINOR IN PHILOSOPHY:</b>	
**Phil 141S Introduction to Philosophy	4
OR	
**Phil 274R Ancient and Medieval Philosophy	4
**Phil 251S Moral Philosophy	4
Phil 271 Logic	4
Phil 379 Modern Philosophy	4
OR	
Phil 280 Nineteenth Century Philosophy	4
At least one other 4-credit philosophy course numbered 300 or above.	4



**Total**

**20**



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### **Phil 141S Introduction To Philosophy (4-0) 4**

An introduction to the philosophical enterprise through discussion and analysis of representative readings from the history of philosophy. Issues considered include the nature of reality, the relation of mind and body, the possibility of proving that God exists, the nature and origin of morality and beauty, and the relation of knowledge to experience. Fall and winter terms.

### **Phil 151 Film And Philosophy (4-0) 4**

An examination of the ways in which philosophy is manifested in the making and content of film. This course will include the viewing of several films that portray philosophical themes on the nature of humor, drama, and fear in contemporary film and attempt to answer questions regarding the nature of voyeuristic emotional catharsis in the making of the human being. Finally, the course hopes to address issues of cultural diversity by looking at the way various western and non-western cultures address these issues. The course will also include philosophical readings on film and the nature of philosophical problems. Summer terms.

### **Phil 244R Chinese Philosophy (3-0) 3**

A study of Confucianism, Taoism, and Buddhism, with consideration of some dissenting views to these dominant schools of Chinese thought, such as Maoism and Legalism. We will investigate the theories of human nature, knowledge, and reality embraced by these philosophies, as well as their conceptions of ethics and politics. This course is the same as RS 244; credit will be given for only one of these courses.

Prerequisites: Comp 150, Lib 150 or consent of instructor.

### **Phil 251S Moral Philosophy (4-0) 4**

A broad review of the history of attempts since classical Greece to identify morality and to establish standards for making and assessing moral judgments. Alternate winter terms.

### **Phil 252N Environmental Ethics (4-0) 4**

This course offers an overview of world environmental problems, focuses on conceptual investigations into their historical, social, political and cultural sources, examines various methods of resource conservation, and finally attempts to envision a philosophy of nature based on a "land ethic." Fall and summer terms.

### **Phil 261R Philosophy Of Religion (4-0) 4**

An examination of different philosophical approaches to problems raised by religion. Readings are selected from sources representing widely differing points of view, e.g., those of phenomenology, feminism, and liberation theology. Alternate fall terms. This course is the same as RS 261; credit will be given for only one of these courses.

### **Phil 264 Social and Political Philosophy (4-0) 4**

This course offers an introductory, selective review of major theories and empirical studies, from classical to contemporary, of social relations and human interactions while exploring the political contexts in which social philosophies emerge. It also provides an overview of how organization of governments has been conceptualized and practiced, how law and policy originate and evolve, and how social and political ideals are formulated, transformed, and institutionalized. Alternate Fall terms. This course is the same as PS 264; credit will only be given for one of these courses.

### **Phil 271 Logic (4-0) 4**

A broad treatment of different methods of assessing the validity of deductive and inductive arguments. The course covers syllogistic logic, elementary truth-functional logic, quantification and brief discussions of informal logic and of inductive logic. Fall and winter terms.

### **Phil 274R Ancient and Medieval Philosophy (4-0) 4**

An examination of the history of philosophy from the origins of scientific thought in Asia Minor through the synthesis of Christianity and Greek philosophy in the thought of St. Augustine and the medieval scholastics. A major emphasis of the course will be the systems of Plato and Aristotle, which provide many of the roots of modern thought. This course is a suitable beginning course in philosophy. Alternate fall terms.

### **Phil 281 Theory of Knowledge (4-0) 4**

This course explores philosophical controversies concerning knowledge and skepticism: What is truth? What is it for a belief to be justified? Do we know anything? Does knowledge represent objective reality or merely a culturally constructed conception of reality? Traditional and current answers to these and related questions are scrutinized. Alternate winter terms.

### **Phil 297RS Tibetan Buddhism: Philosophy and Situation (0-15) 6**

This course is designed to investigate the history, cosmology, and politics of Tibetan Buddhism-as well as some of the challenges it faces in the contemporary world-through readings, discussions, and the experience of visiting sites of significance to these issues. It presents Tibetan Buddhism as a metaphysical system through which a cultural/ ethnic group sees and lives the world and the ways in which that metaphysics has come in conflict or has been adopted an adapted. The course looks at the ways Tibetan Buddhism (based on a metaphysics of "emptiness") comes in conflict with the political ideology and philosophy of materialism championed by Marxism and Capitalism, as well as the ways it has had to adapt to the contemporary world, and the ways in which it has been mystified and romanticized. This course is the same as PS 297 and RS 297; credit will be given for only one of these courses.

### **Phil 305W Writing Philosophy (4-0) 4**

An introduction to the techniques, conventions, and styles of philosophical writing through the critical reading and analysis of selected books and journal articles on a topic central to the field, writing analyses of, and responses to, these readings, and presenting and defending a position on this topic in a carefully researched term paper. Offered on demand.

Prerequisites: Phil 141S and Phil 271, Comp 150, Lib 150.

### **Phil 320 Indigenous Worldviews (4-0) 4**

A survey of selected regional belief systems outside the major religious traditions treated in Phil 321. Emphasis is on philosophical foundations of religious cultures native to the Americas, Africa, Asia, Australia, and Old Europe. Special attention is given to the mythic and other symbolic expressions of archaic consciousness in contemporary societies. Alternate fall and summer terms. This course is the same as RS 320; credit will be given for only one of these courses.

### **Phil 321 World Religions (4-0) 4 A**

study of the nature and history of the major contemporary religions of the world. Alternate fall and summer terms. This course is the same as RS 321; credit will be given for only one of these courses.

### **Phil 328 Philosophy Of Science (4-0) 4**

An examination of the scope, structure, methodology, and spirit of science with special attention to such topics as the relation between the presuppositions and the conclusions of science, the nature of scientific revolutions and the social responsibilities of the scientist. Alternate fall terms.

Prerequisites: 4 credits in philosophy other than Phil 271 or consent of instructor.

### **Phil 352 Ecology And Morality (4-0) 4**

An in-depth focus on contemporary theories and practices, including myth and ritual, which integrate moral, social, political, and cultural philosophies with scientific ecologies. Recent academic efforts by regional thinkers and scholar/activists of color will also be reviewed. Alternate winter terms and summer.

Prerequisites: Phil 252N or consent of instructor.

### **Phil 361 Philosophy Of Art (4-0) 4**

An examination of nature and purposes of art through the study of several traditional and contemporary philosophies of art such as those of Plato, Aristotle, Marx, Tolstoy, Collingwood, and Merleau-Ponty. Topics include the nature of the art object, the distinction between art and craft, the role of imitation, representation, expression and creativity, the social function and responsibility of the artist, and the nature of aesthetic experience. Alternate winter terms.

### **Phil 363 Philosophy Of History And Culture (4-0) 4**

An examination of the nature and methodology of historical knowledge and various conceptions of culture through the study of several traditional and contemporary philosophies of history and culture. Readings will include recent work from Africa and the Americas as well as traditional European perspectives. Alternate winter terms.

Prerequisites: 4 credits of philosophy other than Phil 271 or consent of instructor.

### **Phil 365 Philosophy And Feminism (4-0) 4**

An examination of gender bias in its various guises, such as androcentrism, gender polarization, and biological essentialism. Explanations of the source and maintenance of sexism are explored through feminist theories: liberal, radical, Marxist, existential, psychoanalytic, and postmodern. Feminist theory itself is critically evaluated.

Prerequisites: Comp 150 and Lib 150 or consent of instructor.

### **Phil 377 Contemporary European Philosophy (4-0) 4**

An examination of trends and issues in 20th century continental philosophy. Readings will focus on the development of phenomenology and existentialism, and on their contributions to existential Marxism, structuralism, and deconstructionism. Winter term.

Prerequisites: 4 credits in philosophy other than Phil 271 or consent of instructor.

### **Phil 379 Modern Philosophy: 17th and 18th Centuries (4-0) 4**

An examination of the roots of the Enlightenment, including studies of rationalism, the origins of scientific thought, ethical modes of thought grounded in reason and empiricism, and social and individual notions of self-identity. This course examines the origins of enlightenment as a rebirth of the Renaissance and as the beginnings of contemporary Western notions of metaphysics, epistemology, and ethics. Thinkers to be discussed will include Descartes, Spinoza, Hume, Locke, Berkeley, Kant, Rousseau, and others of the period. Alternate winter terms.

Prerequisites: 4 credits in Philosophy or consent of instructor.

### **Phil 380 Nineteenth Century Philosophy (4-0) 4**

In this course students will examine the major movements in nineteenth century European and American philosophy. The course will focus on the work of Hegel and its influence on Marx, Nietzsche, and Kierkegaard. In addition, some attention will be given to the developments of American pragmatist philosophy.

Prerequisite: Phil 274.

### **Phil 381 Metaphysics (4-0) 4**

An examination of traditional and contemporary attempts to understand the nature of reality. Alternate fall terms.

Prerequisites: 4 credits in philosophy other than Phil 271 or consent of instructor.

### **Phil 382 Philosophies Of The Southwest (3-0) 3**

An examination of the various philosophical underpinnings of the three dominant cultures of the Southwest. This course will move beyond examining the kinds of differences found amongst the cultures of the Southwest to examine the philosophical assumptions that inform and contribute to the emergence of these differences. The course will also examine the kinds of misunderstandings which can emerge from the interactions of these cultures when cultural philosophical assumptions go unexamined. Summer term.

### **Phil 384 Philosophy of Mind and Language (4-0) 4**

This course explores puzzles raised by the existence of minds, making special use of contemporary theories of meaning in order to address them. What is a mind? How are minds related to bodies? What is it to have thoughts? Is language necessary for thinking? How does language represent reality? How do we know what others mean by

their words? Alternate winter terms.

Prerequisites: Four credits in philosophy other than Phil 271 or consent of instructor.

### **Phil 451 Studies In Great Philosophers (4-0) 4**

An examination in depth of the writings of a major philosopher such as Plato, Aristotle, Kant, Marx, Heidegger, or Sartre. This course may be repeated as long as the topics are different.

Prerequisites: 4 credits in philosophy other than Phil 271 or consent of instructor.

### **Phil 480W Contemporary Political Thought (4-0) 4**

An examination of the philosophical and political origins of the political formation of the self, interactions between dominant and minority cultures, and legitimation and consensus in a post-Marxist, post-Capitalist, and post-Colonial world. Focuses on 20th century thinkers such as Foucault, Deleuze and Guattari, Said, Lyotard, Braidotti, and others. PS 387 recommended. This course is the same as PS 480W; credit will be given for only one of these courses.

### **Phil 496 Senior Seminar (4-0) 4**

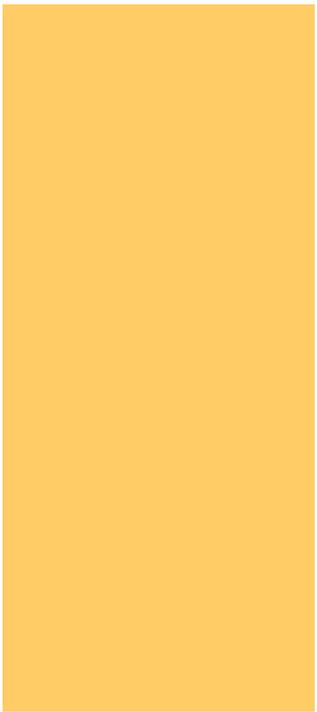
Advanced study and research in selected topics. Alternate winter terms, even years.

Prerequisites: Senior standing and consent of instructor.

### **Phil 499 Independent Study 1-6**

Individual research is conducted under the supervision of a faculty member. Offered on demand.

Prerequisites: 12 credits in philosophy and approval of instructor.





# School of Arts and Sciences

## Course Listings for Physical Science

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### **PhSc100 Physical Science Laboratory (0-2) 1**

Work covers experiments in the fields of physics. Laboratory techniques and scientific processes are emphasized. Students cannot receive credit for both PhSc 100 and PhSc 106Tx. Fall and winter terms.

### **PhSc 105T The Physical Sciences (3-0) 3**

History, processes, and methods of science. Study is made of the development of some of the most important concepts of science, modern developments, problems in science, and problems from science. Students cannot receive credit for both PhSc 105T and PhSc 106Tx. Fall and winter terms.

### **PhSc 106Tx The Physical Sciences (3-2) 4**

History, processes, and methods of science. Study is made of the development of some of the most important concepts of science, modern developments, problems in science, and problems from science. Students cannot receive credit for both PhSc 105T and PhSc 106Tx or for both PhSc 100 and PhSc 106Tx. Fall and winter terms.

### **PhSc 115Nx Environmental Physical Science (3-2) 4**

Students will explore foundational concepts in the physical sciences, focusing on how these concepts provide a better understanding of current environmental issues. The accompanying laboratory will stress scientific methodology and reinforce concepts learned in class. It is required that it be taken at the same time as the course.

### **PhSc 200 Introductory Astronomy Laboratory (0-2) 1**

Work is aimed toward a greater appreciation of the universe through selected observational laboratory experiments in astronomy. Students cannot receive credit for both PhSc 200 and PhSc 206T. Fall and winter terms.

### **PhSc 205T Introductory Astronomy (3-0) 3**

A course for students interested in elementary astronomy. A survey of modern observations of astronomy including

the moon, planets, stars, and their formations. The history and social implications of astronomy are also addressed. Students cannot receive credit for both PhSc 205T and PhSc 206Tx. Fall and winter terms.

### **PhSc 206Tx Introductory Astronomy (3-2) 4**

A course for students interested in elementary astronomy. A survey of modern observations of astronomy including the moon, planets, stars, and their formations. The history and social implications of astronomy are also addressed. PhSc 206 has a required lab. Students cannot receive credit for both PhSc 205T and PhSc 206Tx or for both PhSc 200 and PhSc 206Tx. Fall and winter terms.

### **PhSc 405 Cosmic Time Place (3-0) 3**

Modern science has or will profoundly alter our view of ourselves and our place and time in physical reality. This course describes in non-technical terms the recent developments in cosmology, quantum physics, pre-biotic evolution, and artificial intelligence-these seem likely to have the largest impact on human world views. Format, readings from some lay expositional works, and class discussion.

Prerequisites: Junior standing or instructor permission.



# School of Arts and Sciences

## Course Listings for Physics

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### **Phys 201 College Physics (Non Calculus) I (4-2) 5**

An introductory course in physics covering the basic concepts of mechanics (motion, energy, fluids, materials), heat and thermodynamics, wave motion and sound. Calculus is not used. The course is intended to meet college physics requirements and also satisfy the curiosity of all students whose major interest is not in engineering, physical science, or mathematics. Students who take Physics 217Tx will not receive credit toward graduation for Phys 201. This course includes an introductory physics laboratory with experiments in mechanics, heat, and sound.

Prerequisites: High school algebra and trigonometry.

### **Phys 202 College Physics (non Calculus)II (4-2) 5**

An introductory course in physics covering the basic concepts of electricity, magnetism, and optics. Calculus is not used. Students who take Phys 218 will not receive credit toward graduation for Phys 202. This course includes an introductory physics laboratory with experiments in optics, electricity, electronics, and magnetism. Fall and winter terms.

Prerequisites: Phys 201.

### **Phys 217Tx Physics For Science And Engineering I (4-2) 5**

An introductory course in physics covering the basic concepts of classical mechanics (motion, energy, fluids, materials), heat and thermodynamics, wave motion and sound. Differential and integral calculus is used throughout the course. Phys 217Tx is required of engineering students and strongly recommended to all general science majors. This course includes an introductory physics laboratory with experiments in mechanics, heat, and sound. Fall and winter terms.

Prerequisites: Math 221Q.

### **Phys 218 Physics For Science And Engineering II (4-2) 5**

An introductory course in physics covering the basic concepts of electricity, magnetism, and optics. Phys 218 is

required of engineering students and strongly recommended to all general science majors. This course includes an introductory physics laboratory with experiments in optics, electricity, electronics, and magnetism.

Prerequisites: Phys 217Tx and Math 222Q.

### **Phys 301 Introduction To Electronics (2-2) 3**

A survey course of the theory and design of various electronic circuits and devices used in scientific instrumentation.

Prerequisites: Phys 218.

### **Phys 320 Modern Physics (3-0) 3**

A study in the modern theories of atomic and nuclear physics that have developed since 1900. An introduction to special relativity and elementary quantum mechanics is included.

Prerequisites: Phys 202 or 218 and Math 222Q.

### **Phys 340 Optics (3-3) 4**

A study of classical and modern theories of geometrical and physical optics including matrix methods for optical systems, diffraction theory, and an introduction to Fourier optics.

Prerequisites: Phys 202 or 218 and Math 222Q.

### **Phys 354 Theoretical Mechanics (3-0) 3**

The theoretical formulation of the kinematics and dynamics of particles and rigid bodies with an introduction to Lagrangian and Hamiltonian mechanics. An introduction to vector and tensor analysis is also included.

Prerequisites: Phys 202 or 218 and Math 223Q.

### **Phys 361 Principles Of Electricity And Magnetism (4-0) 4**

The mathematical theory of static electric and magnetic fields, time-dependent fields, and electromagnetic radiation.

Prerequisites: Phys 202 or 218 with Math 327Q taken concurrently.

### **Phys 370 Heat And Thermodynamics (3-0) 3**

A study of classical thermodynamics which includes the first and second laws of thermodynamics and their application in energy conversion.

Prerequisites: Phys 201 or 217Tx and Math 223Q.

### **Phys 380 Advanced Physics Laboratory I (0-3) 1**

Work will stress experiments in modern physics with emphasis on electronic instrumentation and subsequent data analysis.

Prerequisites: Phys 320 taken concurrently or equivalent.

### **Phys 381 Advanced Physics Laboratory II (0-3) 1**

Work will stress experiments in electricity and magnetism with emphasis on data collection and analysis.

Prerequisites: Phys 361 or concurrent enrollment.

### **Phys 397W Writing Techniques In Physics (3-0) 3**

Advanced study, research, and writing in selected topics. Designed to train students to write proposals, research reports, and semi-technical description in the field of physics. Prerequisites: Junior standing or consent of instructor.

### **Phys 400 Science And Human Values (2-0) 2**

A course designed to investigate the interaction between science and the world community. The course will be conducted on a seminar basis with interdisciplinary instructors and/or invited instructors from other areas of the College. Scientific, social, and human values will be discussed.

Prerequisites: At least 6 credits in the natural sciences.

### **Phys 420 Quantum Mechanics I (3-0) 3**

An introduction to Schrodinger's formulation of wave mechanics including potential wells, harmonic oscillators, and energy momentum operators.

Prerequisites: Phys 202 or 218 and Math 223Q.

### **Phys 421 Quantum Mechanics II (3-0) 3**

A continuation of the study of quantum systems via approximation techniques, theory of many electron atoms, identical particles, and spin.

Prerequisites: Phys 420.

### **Phys 454 Advanced Topics In Physics 1-4**

Advanced material in various areas of physics at the senior level. The course will treat one area of physics, such as nuclear physics, thermal physics, statistical physics, or solid state physics. Class schedules will indicate the area. This course may be repeated for credit if topics are different.

Prerequisites: Advanced standing in physics.

### **Phys 496 Senior Seminar (2-0) 2**

Advanced study and research in selected topics. Prerequisites: Senior standing and consent of instructor. Phys 499 Independent Study 1-3 Individual research is conducted under the supervision of a faculty member.

Prerequisites: Consent of instructor.



# School of Arts and Sciences

## Physics

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### Course listings for Physics

#### **Professor**

Gerald Crawford

#### **Associate Professors**

Martha S. Iverson

Ashley Shultz

The Bachelor of Science degree in Physics is designed to allow students to attain their professional goal of entering graduate work in physics or astrophysics; to obtain technical positions in industry in such areas as energy science, engineering, and electronics; or to obtain preparation for secondary certification in teaching physics in public schools. The geologist, engineer, chemist, and biologist all deal with matter and energy in their various forms. Since physicists probe the physical laws underlying all physical processes, the study of physics becomes the cornerstone for all the natural sciences.

The physics curriculum is predicated upon the role physicists play in a modern, technological world society that is currently experiencing shortages of trained personnel in various scientific areas and in science education. Coursework in physics will provide the student pursuing entrance to graduate school in physics or astronomy with a strong grounding in mathematics and physics, while being immersed in an atmosphere of a broad, liberal education in the humanities and social sciences. This curriculum also will enable a student to enter applied technical fields in industry such as electronics, optics, and aerospace, where there is currently a high demand. Students seeking a degree in physics should consult early in their college career with staff members of the Physics Department.

Fort Lewis College offers three options to the BS degree in physics: traditional Physics, Engineering-Physics and preparation for secondary education teachers in physics. A minor in physics is available for students majoring in other disciplines. Requirements for each option and the minor are listed at the end of this section.

#### **REQUIREMENTS FOR A BACHELOR OF SCIENCE DEGREE IN PHYSICS:**

**Courses:**

**Credits:**

**Physics Option:**

**General Education****35-46**

\*\* Courses marked with double asterisks may also be counted toward TS 1 requirements.

All courses listed under Specific Departmental Requirements, Additional Departmental Requirements, and Auxiliary Requirements from other departments must be passed with a grade of C- or higher.

**Specific Departmental Requirements:**

**Phys 217Tx, 218 Physics for Science and Engineering I, II	10
Phys 320 Modern Physics	3
Phys 354 Theoretical Mechanics	3
Phys 361 Principles of Electricity and Magnetism	4
Phys 380 Advanced Lab I	1
Phys 381 Advanced Lab II	1
Phys 397W Writing in Physics	3
Phys 400 Science and Human Values	2
Phys 420 Introductory Quantum Mechanics I	3
Phys 496 Senior Seminar	2

***Subtotal Specific Departmental Requirements*** **32**

**Additional Departmental Requirements:****Additional physics courses numbered above 300 to be chosen from:**

Phys 301 Introduction to Electronics	3
Phys 340 Optics	4
Phys 370 Heat and Thermodynamics	3
Phys 421 Quantum Mechanics II	3
Phys 454 Advanced Topics in Physics	1-4

***Subtotal Additional Departmental Requirements*** **6**

**Auxiliary Requirements from Other Departments:**

Chem 150 Fundamentals of Chemistry I	4
**Chem 151Tx Fundamentals of Chemistry II	4
**Math 221Q, 222Q, 223Q Calculus I, II, III	12
**Math 327Q Differential Equations	4
Engr 104 Computer Programming for Scientists and Engineers	3
Engr 201 Electric Networks I	4
Engr 202 Electric Networks II*	4

***Subtotal Auxiliary Requirements*** **35**

\*Can substitute Phys 301.

**Recommended Additional Math - Choose one:**

\*\*Math 311Q Matrices and Linear Algebra

\*\*Math 320Q Numerical Analysis

\*\*Math 401Q Probability and Statistics

Other math courses numbered 300 or 400 as recommended by a physics advisor.

*Major Totals* 73

*Free Electives (variable)*

**TOTAL REQUIRED FOR GRADUATION** **120**

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

**Engineering Physics Option:**

**General Education** **35-46**

\*\* Courses marked with double asterisks may also be counted toward TS 1 requirements.

**Specific Departmental Requirements:**

\*\*Phys 217Tx Physics for Science and Engineering I 5

Phys 218 Physics for Science and Engineering II 5

Phys 320 Modern Physics 3

Phys 354 Theoretical Mechanics 3

Phys 361 Princ. of Electricity and Magnetism 4

Phys 380 Advanced Physics Lab I 1

Phys 381 Advanced Physics Lab II 1

Phys 397W Writing in Physics 3

Phys 400 Science and Human Values 2

Phys 420 Introductory Quantum Mechanics I 3

Phys 496 Senior Seminar 2

***Subtotal Specific Departmental Requirements*** **32**

**Specific Departmental Requirements in Engineering:**

Engr 104 Computer Programming for Scientists and Engineers 3

Engr 103 Computer Aided Drafting 3

OR

Engr 105 Engineering Principles 3

An additional 16 credits of engineering courses at 200-level or higher 16

**Subtotal Specific Departmental Engineering Requirements 22****Auxiliary Requirements:**

Chem 150 Fundamentals of Chemistry I 4

\*\*Math 221Q, 222Q, 223Q Calculus I, II, III 12

\*\*Math 327Q Differential Equations 4

**Subtotal Auxiliary Requirements 20****Major Totals 74***Free Electives (variable)***TOTAL REQUIRED FOR GRADUATION 120**

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

**Physical Science For Secondary Teachers Option:****General Education 35-46**

\*\* Courses marked with double asterisks may also be counted toward TS 1 requirements.

**Specific Departmental Requirements:**

\*\*Phys 217Tx Physics for Science and Engineering I 5

Phys 218 Physics for Science and Engineering II 5

Phys 320 Modern Physics 3

Phys 340 Optics 4

Phys 380 Advanced Physics Lab I 1

Phys 381 Advanced Physics Lab II 1

Phys 397W Writing in Physics 3

Phys 496 Senior Seminar 2

\*\*PhSc 206Tx Astronomy 4

PhSc 405 Cosmic Time Place 3

**Subtotal Specific Departmental Requirements 31****Auxiliary Requirements:**

\*\*Math 221Q Calculus I 4

\*\*Math 222Q Calculus II 4

\*\*Bio 112N Introduction to Org/Pop Bio 4

Chem 150 Fundamentals of Chemistry I 4

\*\*Chem 150Tx Fundamentals of Chemistry II 4

**Technical Electives:**

Chosen from Physics, Chemistry, or Geology at the 300- or 400-level, or from Biology at the 200-,300-, or 400-level	8
Ed 421 Individualized Instruction in a Pluralistic Society	6
Ed 424 Language and Math Literacy	4
Ed 495 Student Teaching	15
<b>Subtotal Auxiliary Requirements</b>	<b>53</b>
<b>Major Total</b>	<b>84</b>

(See Teacher Education section of catalog for Teacher Licensing requirements).

*Free Electives (variable)*

**TOTAL REQUIRED FOR GRADUATION** **120**

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

**REQUIREMENTS FOR A MINOR IN PHYSICS:**

**Phys 217Tx, 218 (with departmental approval Phys 201, 202)	10
Phys 320 Modern Physics	3
Phys 380 or 381 Advanced Physics Lab I or II	1
Two additional physics courses from the following:	
Phys 301, 340, 354, 361, 370, 420, 421	6-7
<b>Total</b>	<b>20-21</b>



# School of Arts and Sciences

## Political Science

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### Course listings for Political Science

#### **Professor**

Byron Dare

#### **Associate Professors**

Kenyon D. Bunch

Jan E. Sallinger-McBride

#### **Assistant Professor**

Sean E. Cridland

The study of political science is concerned with the relationship between the governed and the government, the nature of the political process, and the role of the citizen in a democratic society.

The political science major provides excellent training for the person who (1) plans a career in law, journalism, or government; (2) hopes to work abroad; (3) plans to enter graduate school and later teach or serve as an administrator at the college level; or (4) expects to enter politics, either as a candidate or as an administrative aide to a public official.

Political science course offerings are also available to the student who is majoring in another area but who wants to learn something about politics and government.

Students majoring in political science may be certified to teach in the broad area of social studies at the secondary level. To obtain requirements for teacher certification, please contact the Department of Teacher Education.

A minor in political science is available for students majoring in other disciplines. Requirements for a minor in political science are listed at the end of this section.

### **REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN POLITICAL SCIENCE:**

**Courses:**

**Credits:**

**General Education****35-46**

\*\* Courses marked with double asterisks may also be counted toward TS 1 requirements.

**Specific Departmental Requirements:**

\*\*PS 101S Introduction to Political Science 4

\*\*PS 110S U.S. National Government 4

PS 250W Introduction to Political Analysis 4

PS 251W Advanced Research Methods 4

PS 386 Ancient Political Thought 4

PS 387 Modern Political Thought 4

**Option A:**

PS 495 Pro-Seminar in Political Science 2  
and

PS 496 Senior Seminar 2

OR

**Option B:**

PS 480W Contemporary Political Thought 4  
and

PS 495 Pro-Seminar in Political Science 2

OR

**Option C:**

PS 499 Independent Study (exceptional circumstances) 2  
and

PS 495 Pro-Seminar in Political Science 2

**Subtotal Specific Departmental Requirements****28-30****Other Departmental Requirements:**

20 additional hours, with at least one upper-division course from each of the following subfields I-III, and not more than 8 credits in internships:

**I. U.S. Politics**

\*\*PS 120S State and Local Government 4

PS 310 American Political Behavior 4

PS 330 Public Administration 4

PS 337 U.S. Foreign Policy 4

PS 421 The American Presidency 4

PS 422 Legislative Process	4
<b>II. Public Law</b>	
PS 140 Introduction to Law and Legal Systems	4
PS 241 Introduction to Criminal Justice Systems	4
PS 340 Constitutional Law: Bill of Rights	4
PS 341 Constitutional Law: Federalism and the Separation of Powers	4
PS 400 Native American Law and Politics	4
PS 425 Prisons and Prisoners	4
<b>III. Comparative Politics and International Relations</b>	
**PS 205N Environmental Politics	3
**PS 280S Introduction to Comparative Politics	4
PS 320 International Politics	4
PS 322 International Political Economy	4
PS 325 Middle East Politics	4
PS 360 Revolution and the Modern World	3
PS 365 Women and Development	3
PS 370 Latin-American Politics	4
PS 372 African Politics and Development	4
PS 374 Pacific Rim Politics and Issues	4
PS 380 Comparative Communist Systems	4
<b>IV. Theory and Methods</b>	
The Theory and Methods subfield requirement is included in Specific Departmental Requirements above (PS 250W, PS 251W, PS 386, and PS 387), but the following courses may be used to fill the 20 additional hours requirement:	
PS 300 Religion and Politics	4
PS 385 20th-Century Socialism	3
PS 460 American Political Thought	4
PS 480 Contemporary Political Thought	4
<b><i>Subtotal Other Departmental Requirements</i></b>	<b>20</b>
<b><i>Total required in major</i></b>	<b>48-50</b>
<b>Auxiliary Requirements from Other Departments:</b>	
Hist 280 Survey of U.S. History, 1600-1877	3
**Hist 281R Survey of U.S. History, 1877 to present	3
OR	

2 courses in one modern language

6-8

***Subtotal Auxiliary Requirements***

**6-8**

*Free Electives (variable)*

**TOTAL REQUIRED FOR GRADUATION**

**120**

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

**REQUIREMENTS FOR A MINOR IN POLITICAL SCIENCE:**

1. At least 24 credits in political science, exclusive of internship hours.
2. At least 12 of those credits must be upper-division.



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### **PS 101S Introduction To Political Science (4-0) 4**

An introduction to the study of politics; an examination of the relationship of society and government; and a study of the nature of the state, of the forms of rule evolved from the past, and of contemporary political systems. Fall and winter terms.

### **PS 110S U.S. National Government (4-0) 4**

A study of the policies, procedures, politics, and problems of the U.S. national government. Fall and winter terms.

### **PS 120S State And Local Government (4-0) 4**

A study of the history, nature, organization, and operation of state and local government in the United States. Fall and winter terms.

### **PS 140 Introduction To Law And Legal Systems (4-0) 4**

An introduction to legal systems' treatment of disputes between citizens, citizens and business, and citizens and government, with special emphasis on disputing in the legal system of the United States. Consideration given to the influence of legal systems on competition for a society's benefits. Fall terms, even years.

### **PS 205N Environmental Politics (3-0) 3**

An introduction to a wide range of global environmental issues. Global warming, overpopulation, natural resource depletion, deforestation in Latin America, Africa, and Asia, potable water crises in Asia and desertification in Africa are all indicators of ongoing major environmental changes. Global environmental change raises profound moral, political, and economic questions with which society has only begun to grapple. This course addresses regional and international environmental problems and proposes solutions. Summer terms.

### **PS 241 Introduction To Criminal Justice Systems (4-0) 4**

The nature of crime, the role of police, attorneys, courts and corrections in our criminal justice system. Fall, winter, summer terms.

### **PS 250W Introduction To Political Analysis (4-0) 4**

Analysis of contemporary behavioral theories and research methods of politics and preparation for critical reading of professional literature. Writing intensive course. Fall terms.

Prerequisites: PS 101, Comp 150, Lib 150.

### **PS 251W Advanced Research Methods (4-0) 4**

An advanced course in the methods and tools of research including both qualitative and quantitative approaches. Emphasis is on the design of political research, data collection techniques, statistical analysis and interpretation. Writing intensive course. Winter terms.

Prerequisites: PS 250W.

### **PS 264 Social and Political Philosophy (4-0) 4**

This course offers an introductory, selective review of major theories and empirical studies, from classical to contemporary, of social relations and human interactions while exploring the political contexts in which social philosophies emerge. It also provides an overview of how organization of governments has been conceptualized and practiced, how law and policy originate and evolve, and how social and political ideals are formulated, transformed, and institutionalized. Alternate Fall terms. This course is the same as Phil 264; credit will be given for only one of these courses.

### **PS 280S Introduction To Comparative Politics (4-0) 4**

A comparative study of the political systems of selected modern states. An emphasis is placed on the historical, cultural, social, and economic environments as well as on political structures, participation, policymaking and evaluating the effectiveness of political action. Winter terms, even years.

### **PS 297RS Tibetan Buddhism: Philosophy and Situation (0-15) 6**

This course is designed to investigate the history, cosmology, and politics of Tibetan Buddhism-as well as some of the challenges it faces in the contemporary world-through readings, discussions, and the experience of visiting sites of significance to these issues. It presents Tibetan Buddhism as a metaphysical system through which a cultural/ ethnic group sees and lives the world and the ways in which that metaphysics has come in conflict or has been

adopted and adapted. The course looks at the ways Tibetan Buddhism (based on a metaphysics of "emptiness") comes in conflict with the political ideology and philosophy of materialism championed by Marxism and Capitalism, as well as the ways it has had to adapt to the contemporary world, and the ways in which it has been mystified and romanticized. This course is the same as Phil 297 and RS 297. Credit will be given for only one of these courses.

### **PS 300 Religion And Politics (4-0) 4**

A comparative exploration of dominant and minority political interactions in social and cultural settings. This course examines how, and with what consequences, religion and politics interact as frameworks for freedom and oppression in Central America, Asia, and the United States. Winter terms, odd years.

### **PS 301 Local Government Internship 8-16**

Practical half-time or full-time work at the regional, county, or municipal government level. Requires a detailed journal and completion of a research paper on a local government topic. May be repeated once for a total of 16 credits provided that the internship is taken with different agencies. Fall, winter, and summer terms, on demand.

Prerequisites: Three courses selected from PS 101S, 110S, 120S, 241, 310, 330, and consent of instructor.

### **PS 310 American Political Behavior (4-0) 4**

An empirical inquiry into the dynamics of political activity in the United States, with emphasis on the electorate and the roles of political parties, the news media, public opinion, and political interest groups. Fall terms, even years.

### **PS 320 International Politics (4-0) 4**

An examination of the international struggle for power, with special emphasis on nationalism, economic objectives, armaments, multinational corporations, and North-South issues. Fall terms.

Prerequisites: PS 101S.

### **PS 322 International Political Economy (4-0) 4**

A study of the interplay of economics and politics in the world arena. The course covers a wide range of political and economic issues and concepts, and introduces students to the many players at the international level (financial institutions, multinational organizations, nation-states, etc.). The course also provides a theoretical background to issues of political and economic interaction at the international level. PS 320 recommended. Winter terms, even years.

### **PS 325 Middle East Politics (4-0) 4**

An examination of the forces shaping the governments and politics of modern Arab states in North Africa and Southwest Asia, with emphasis on Islam, Islamist politics, regional geopolitics and current economic, natural resource, and social issues affecting the Arab world. Fall terms, odd years.

### **PS 330 Public Administration (4-0) 4**

Role of administration in government policymaking and implementation. Course uses case study method from a variety of policy areas. Winter terms, odd years.

### **PS 337 U.S. Foreign Policy (4-0) 4**

A study of the United States' foreign policy from the American Revolution to the present day, with emphasis on current policy and how it is made. Fall terms, odd years.

### **PS 340 Constitutional Law: Bill Of Rights (4-0) 4**

Rights of citizens as elaborated through the Bill of Rights and Fourteenth Amendment to include freedom of speech and press, freedom of religion, privacy, discrimination, and criminal rights. Recommended for political science majors and advanced general students. Fall terms.

### **PS 341 Constitutional Law: Federalism And The Separation Of Powers (4-0) 4**

Powers and limitations of the national judiciary, Congress and the presidency. Course also addresses the relationship between the national government and state governments. Winter terms, odd years.

### **PS 350 State Legislative Internship 16**

Practical, full-time work in the Colorado General Assembly as a legislative intern. Each student works for a lawmaker in either the State Senate or the State House of Representatives. Requires the keeping of a detailed journal and the completion of a research paper. Winter terms.

Prerequisites: PS 101S, 110S, 120S, 310, and consent of instructor.

### **PS 360 Revolution And The Modern World (3-0) 3**

Analyzes the origins, tactics, ideologies, and results of leftist, bourgeois, and rightist revolutionary movements, stressing a comparative and historical approach. Summer terms.

### **PS 365 Women And Development (3-0) 3**

An overview of the central role women play in the development process in non-Western societies, and of their struggle to gain access to the most basic levels of power and governance around the world. The focus will be on women in developing countries, but reference to women in developed countries will also be made. PS 280 recommended. Summer terms. This course is the same as WS 365; credit will be given for only one of these courses.

### **PS 370 Latin-American Politics (4-0) 4**

An inquiry into specific political problems shared by many nations in contemporary Latin America. Emphasis will be placed on such issues as forms of government, i.e., populism, military dictatorships, bureaucratic-authoritarianism, economic development and social movements. On demand.

### **PS 372 African Politics And Development (4-0) 4**

A general survey of the forces shaping the governments and politics of African nations. While the emphasis will be on sub-Saharan Africa, Northern Africa will also be included in the course. Recent attempts at democratization, regional military conflicts, environmental challenges, and the AIDS epidemic will all be covered in the course. PS 280S is recommended. Winter terms, odd years.

### **PS 374 Pacific Rim Politics And Issues (4-0) 4**

An exploration of the concept of a "Pacific Rim" region. The course explores the intersection of economic, political, cultural, and environmental issues that affect the region. Historical and current relationships between areas as diverse as Seattle, Singapore, and Santiago are addressed. PS 280S recommended. On demand.

### **PS 380 Comparative Communist Systems (4-0) 4**

A comparative study of the dynamics of communist systems focuses on the Soviet Union and People's Republic of China, including dimensions of continuity and change in pre-and post-communist environments. Similarities and differences are analyzed, along with an examination of factors working for and against decentralization. Fall terms, odd years.

### **PS 385 Twentieth-Century Socialisms (3-0) 3**

An inquiry into the place of modern socialist thought in the western intellectual tradition. Intellectual and historical influences on Marxism are clarified, along with the ambiguities in the legacy left by Marx and Engels. The stillbirth of

Marxism is traced from these ambiguities through the major discrepancies in the thought of Lenin, Bernstein, Kautsky, and Mao. Summer terms.

### **PS 386 Ancient Political Thought (4-0) 4**

A study of western political thought from pre-Socratic Athens to the 16th century. Readings in the works of philosophers including Plato, Aristotle, Machiavelli, Luther, and others. Fall terms.

Prerequisites: PS 101S.

### **PS 387 Modern Political Thought (4-0) 4**

An examination of the main currents of western political thought from the 17th century to the present. Readings in the works of philosophers including Hobbes, Locke, Rousseau, Marx, and others. Winter terms.

Prerequisites: PS 386.

### **PS 400 Native American Law And Politics (4-0) 4**

A study of political and legal issues that involve American Indians, both from a historical and contemporary perspective. On demand.

### **PS 421 The American Presidency (4-0) 4**

Study of the American presidency, including historical development and current structure, organization, behavior, processes and policy implications; examination of executive bureaucracy. Winter terms, odd years.

### **PS 422 Legislative Process (4-0) 4**

Study of American legislatures at the federal and state level including structural, behavioral, and policy implications of the legislative process in contemporary American government. Winter terms. even years.

### **PS 423 Law And The Judicial Process (4-0) 4**

Explores the debate about the role of the courts, the nature and limits of law and the meaning of concepts such as justice, liberty, morality, and responsibility in a constitutional republic. The impact of judicial processes on this debate is analyzed. Winter terms, even years.

### **PS 425 Prisons And Prisoners (4-0) 4**

An inquiry into imprisonment as a punishment for criminals. Historical perspectives on crime and punishment and contemporary issues facing prisons and prisoners are clarified and analyzed. Fall terms.

Prerequisites: PS 241.

### **PS 450 National Government Internship 16**

Practical, full-time intern work in Washington, D.C., in the national government. Requires the keeping of a detailed journal and the completion of a research paper. Fall, winter, and summer terms, on demand.

Prerequisites: PS 101S, 110S, 422, and consent of instructor.

### **PS 480W Contemporary Political Thought (4-0) 4**

An examination of the philosophical and political origins of the political formation of the self, interactions between dominant and minority cultures, and legitimization and consensus in a post-Marxist, post-Capitalist, and post-Colonial world. Focuses on 20th century thinkers such as Foucault, Deleuze and Guattari, Said, Lyotard, Braidotti, and others. PS 287 recommended. This course is the same as Phil 480; credit will be given for only one of these courses. Winter terms.

### **PS 495 Proseminar In Political Science (2-0) 2**

This course provides an opportunity to engage in a critical examination of the discipline of political science and its relationship to career opportunities. It encourages students to think seriously about political science as a component of liberal arts education as well as a vocation. It devotes time to preparing an assessment portfolio and identifying a research topic for the senior seminar. Fall terms.

Prerequisites: PS 251W.

### **PS 496 Senior Seminar (2-0) 2**

Advanced study and research in selected topics. Winter terms.

Prerequisites: PS 251W, senior standing, and PS 495.

### **PS 499 Independent Study 1-6**

Individual research is conducted under the supervision of a faculty member. Offered on demand.

Prerequisites: Approval of the instructor and the department.





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## Course Listings for Psychology

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### **Psychology Psyc 110S Human Relations (3-0) 3**

This psychology course focuses on the relationship between the self and the social world. We begin by looking at the person as a system, exploring topics such as personality, motivation and stress. We will link these concepts to an understanding of how the intrapersonal system interacts with interpersonal system such as social groups, the family and the workplace. This course is concerned with how we create and are created by our social contexts and how we maintain and change them. This course is intended for students seeking a general studies class. Psychology majors are encouraged to take Introduction to Psychology instead.

### **Psyc 157 Introduction To Psychology (3-0) 3**

An introduction to the scientific study of behavior, including the concepts of learning, motivation, perception, emotions, personality and sexuality. Abnormal, social, developmental, cognitive, and physiological psychology will also be discussed. Fall and Winter terms.

### **Psyc 218 Psychological Foundations Of Education (2-0) 2**

An introduction to the psychological principles relevant to education. Topics include learning theories, teaching-learning processes, individual differences, human intelligences and issues of educational and cultural diversity. The psychological principles underlying educational practices (e.g. cooperative learning, testing, performance assessments, etc.) are also discussed. Note: This course last 7 weeks (1/2) of the trimester.

Prerequisite: Psyc 157.

### **Psyc 233 Personality (4-0) 4**

This course provides an introduction to the major theories of personality, including psychoanalytic, learning, humanistic, biological, cognitive and trait theories. Emphasis will be placed on an understanding of personality structure and the ways that personality is manifested in behavior. Fall and Winter terms.

Prerequisite: Psyc 157.

### **Psyc 241Q Basic Statistics For Psychologists (4-0) 4**

An introduction to the collection, organization and analysis of data from human and animal populations. Methods of

sampling, treatment of data and reporting are covered. Descriptive statistics and statistical inference are taught, as are decision factors and error analysis. Students are introduced to the use of statistical computer software. This course is the same as Math 201 and BA 253; credit will be given for only one of these courses. Fall and Winter terms.

Prerequisite: Successful completion of TRS 92 and/or placement into Math 110Q or higher.

### **Psyc 254 Life Span Human Development (4-0) 4**

This course applies psychological principles to human perspectives of development. The first portion of the course is devoted to studying principles, processes, theories and research methodology. The second part applies these concepts to each stage of the human life span from conception through aging and death and dying, with emphasis on child, preadolescent and adolescent development. Community resources are used for field trips, guest speakers, etc., throughout the second part of the course. Fall and Winter terms.

Prerequisite: Psyc 157 or Psyc 110S.

### **Psyc 265S Global Community Psychology (4-0) 4**

This course will explore the impact of Western globalization on indigenous cultures. Specifically, we will examine how Western psychology, technology, and free market economic systems affect traditional and collective lifestyles and sustainable ecologies of people around the world. Student activities will be evaluated to determine their level of competence in communication, critical thinking, and holistic views toward and community development. This course will enhance the students' abilities to critically evaluate the cultural and psychological implications of Western globalization and will provide opportunity to expand experiences with culture and systems aspects of General Education.

Prerequisite: One college semester.

### **Psyc 270 Psychology Of Gender (4-0) 4**

An investigation of women's and men's experience of gender as well as the ways that gender influences how people are perceived by others. We will explore a variety of explanations for the similarities and differences between females and males. These will include cultural, social, cognitive, developmental and biological approaches. The application of psychological theory to current gender issues will be considered. The course will include a critique of psychological theory and research on gender. Offered on demand.

Prerequisite: Psyc 157.

### **Psyc 296W Psychological Research Methods (3-2) 4**

Introduction to the basic assumptions, concepts and methodology of experimental and non-experimental psychological research. Includes the study of scientific principles, critical evaluation of published research, and

discussion of research ethics. Technical topics such as operational definitions, independent and dependent variables, measurement, techniques of observation and experimental design are presented. The laboratory is designed to provide skill in implementing experiments in a variety of psychological fields. This course also introduces students to the discourse and written conventions of APA-style experimental reports. Fall and Winter terms.

Prerequisites: Comp 150, LiB 150, Psyc 157 and Psyc 241Q.

### **Psyc 300 Methods Of Inquiry (4-0) 4**

This course emphasizes qualitative research skills and methods of inquiry. Topics include case studies, observational methods, interview techniques, questionnaires and surveys. Students will also be exposed to information about self-assessment, creating and maintaining client files, confidentiality, legal concerns, minority and affirmative action issues, demographic trends and actuarial systems, agency policies, advocacy, and interfaces of service agencies with other community resources. Students will learn inquiry and writing skills and hermeneutic research approaches via laboratory experiences, community agency activities, and cross-disciplinary collaborations. Methods of inquiry for use with culturally diverse groups will also be addressed. Fall and Winter terms.

Prerequisite: Psyc 296W.

### **Psyc 305 Psychology Of Intuition (4-0) 4**

Students will study and write about the psychology and philosophy of intuition. This writing intensive interdisciplinary course applies the methods of psychology, especially cognitive science, and of philosophy to intuition, especially that of writers. Offered on demand.

Prerequisite: Comp 150 and Psyc 157.

### **Psyc 310 The Psychology Of Religion (4-0) 4**

In this course, we will explore the psychology of spirituality and religious experience. Topics will include: the history of Psychology of Religion; the motivational basis of religious participation; the relationship between mental health and religion; development of religious ideas across the lifespan; and social-psychological factors in religious conversion and commitment. This course is the same as RS 310; credit will be awarded for only one of these.

Prerequisites: Psyc 110S or Psyc 157.

### **Psyc 325 Group Dynamics (4-0) 4**

In this course we will explore the psychology of groups. Topics will include group structure, interpersonal communication, leadership and group decision making. Students will participate in a variety of group exercises and will relate their experiences to the theory and research of the field of group dynamics.

Prerequisite: Psyc 157.

### **Psyc 327 Physiological Psychology (3-2) 4**

This course will focus on establishing a basic understanding of physiological mechanisms that influence behavior. Introductory neuroanatomy, neurophysiology, and neuropsychology will be presented. Current findings that emphasize neurotransmitter and endocrine influences on behavior will be discussed. Laboratory experiences will include dissection, physiological modeling, and experimental demonstration. . Offered on demand.

Prerequisite: Psyc 296W.

### **Psyc 328 Industrial/Organizational Psychology (4-0) 4**

This course explores the ways that psychology can help us to understand the behavior of people in the workplace. It includes study of the motivation and development of the individual employee as well as the group dynamics of the organization in which the employee functions. Equal emphasis will be placed upon understanding relevant psychological theory and learning how to apply psychology in practical situations.

Prerequisite: Comp 150 and Psyc 157.

### **Psyc 330 Animal Behavior (2-4) 4**

This course emphasizes the field of ethology. The course will describe the behavior of a wide range of animal species (including various insects, birds, reptiles, amphibians, and mammals). Human behavior will not be emphasized. The course will require students to understand and implement various behavioral techniques such as estimation, classification, and analysis. Theoretical orientation will be based on historic ethological and evolutionary perspectives. The lab will require both laboratory and field work. Offered on demand.

Prerequisite: Psyc 296W.

### **Psyc 333 Expressive Arts Therapy In The Community (2-0) 2**

This course is for juniors and seniors who are interested in and/or have experience with special needs populations. After training, art, dance and movement processes will be developed with a group of adults with chronic mental illness. Usually offered in the Winter term.

Prerequisite: Consent of instructor.

### **Psyc 340 Creativity (4-0) 4**

An interdisciplinary inquiry course exploring biopsychosocial expressions of creative process through study of theory and applications to current social issues. Areas for exploration include the creative brain, paradigm shifts, the creativity of change, and specific student interest in creativity through movement, visual arts, improvisation, free

writing and dialogue. Offered on demand.

Prerequisite: Consent of the instructor.

### **Psyc 342 Psychological Testing (4-0) 4**

A course designed to introduce the student to the area of psychological tests and measurements, providing training in the concepts and applications of intelligence tests, personality inventories, and projective techniques, as well as aptitude and interest scales. Students take, score, interpret and discuss some of the most commonly used psychological tests.

Prerequisite: Psyc 241Q and Psyc 233.

### **Psyc 354 Topics In Child Psychology (4-0) 4**

This course offers a more concentrated focus on child psychology than Psyc 254 (Life Span Human Development). The course will cover interesting aspects of developmental psychology including biosocial, socioemotional and cognitive growth. Current methods, theories and empirical findings on child development will be examined with a focus on child and adolescent psychopathology. The course explores how factors such as genetics, culture and parenting influence various dimensions of infancy, childhood and adolescence.

Prerequisite: Psyc 254.

### **Psyc 372 Language, Mind And Brain (4-0) 4**

This interdisciplinary course focuses on the unconscious processes occurring in our minds that allow us to understand and produce language. Topics include animal communication, evolution of language, dyslexia, use of sign language, bilingualism, childhood language acquisition, language disorders caused by brain damage, and hemispheric differences in language processing.

Prerequisite: Psyc 157.

### **Psyc 375 Multicultural Psychology (4-0) 4**

This course will present an overview of multicultural viewpoints in developmental, clinical and research psychology. Predominant western European psychological theory will be compared and contrasted with thinking from non-Western constructs and ideology. Multiculturalism as a psychology of people will be explored from a global perspective and from the perspective of various ethnic and minority groups within the United States. Students will attempt to integrate culturally diverse thinking and research to explore ways to increase cultural sensitivity and tolerance of difference in community, workplace and human service contexts.

Prerequisites: Comp 150 and Psyc 157.

### **Psyc 383 History Of Psychology (4-0) 4**

Classroom activities make this course a hands-on experience. We focus on the people who have created clinical and experimental psychology, including Wundt, James, Skinner, Chomsky, Piaget, Freud, Jung, Erikson, Maslow, and Rogers, to name only a few. We also consider the systemic context within which different schools of thought emerged, which helps to integrate different areas of psychology.

Prerequisite: Psyc 157.

### **Psyc 386 Psychology of Fatherhood (4-0) 4**

This course will examine fathers' roles in the family within a cross-cultural perspective. Initially, we will look at various theoretical views to understand fathers; we later focus on the importance of studying fathers; socioeconomic, intellectual, and clinical implications of fathers' roles; cultural belief structures in fathering; and level of fathers' participation in the family. Finally, we will conduct a cross-cultural examination of fathering behaviors and discuss the degree of fathers' participation in childrearing and other household tasks.

Prerequisite: Psyc 241Q.

### **Psyc 387 Abnormal Psychology (4-0) 4**

A study of historical, cultural, and contemporary approaches to understanding and treating psychopathology. Use of the DSM IV classification system is taught and case studies of psychopathology are analyzed. Offered in the Fall and Winter.

Prerequisite: Psyc 233.

### **Psyc 392 Foundations Of Clinical Psychology (4-0) 4**

The course provides a foundation in the applications of psychological theory and research, toward a variety of intrapsychic, interpersonal and organizational problems in our society. Fall term. This course does not count for general distribution.

Prerequisites: Psyc 387, junior standing and consent of instructor.

### **Psyc 393 Health Psychology (4-0) 4**

A study of the specific educational, scientific, and professional contributions of the discipline of psychology to the promotion and maintenance of health, the prevention and treatment of illness, the identification of diagnostic correlates of health, wellness and illness, and the interaction of personal, interpersonal and community aspects of wellness. Topics covered include the biopsychosocial model, family and community systems, the health care system and alternate methods of health care delivery.

Prerequisites: Psyc 157 and junior standing.

### **Psyc 394 Field School In Clinical Psychology 6**

A one-month participation with a psychiatric team at a state hospital for mentally disturbed persons. Experiences include admission interviews, staffings, diagnostic techniques, treatment planning and implementation including occupational and recreational therapy. Offered in the first summer term.

Prerequisite: Psyc 387 and consent of instructor. Recommended, Psyc 342.

### **Psyc 395 Seminar + Practicum In Clinical Psychology (4-0) 4**

The course provides an opportunity for students to engage in a supervised practicum in cooperation with an area health or human services organization. Weekly seminars will deal with professional issues and ethics common to all settings.

Prerequisites: Psyc 392 or Psyc 393, Psyc 420, and consent of the instructor.

### **Psyc 406 Case Studies In Neuropsychology (4-0) 4**

This course explores the world of cognitive neuropsychology by looking into true stories of individuals how have suffered brain injuries or disorders that lead to very specific deficits. For example, we consider the artist whose visual world turned grey overnight, the amputee whose phantom arm sensations were remapped onto his cheek, the hippie whose memory left him stranded in the 60s, the attorney who couldn't recognize her own face in the mirror, and the surgeon who twitched uncontrollably with Tourette syndrome. Cases like these deepen our understanding of the inner workings of the human brain.

### **Psyc 420 Counseling Skills (4-0) 4**

This course develops various counseling skills, processes, and abilities in students through academic and applied instruction. Prerequisites: Psyc 387 and consent of the instructor.

### **Psyc 425 Social Psychology (4-0) 4**

This course provides an introduction to the many ways in which our thoughts, emotions and behavior are influenced by the people around us. We will explore topics such as aggression, attitude change, group dynamics and self-presentation. Emphasis will be placed upon theories of social behavior and the scientific research that supports them.

Prerequisite: Psyc 296W.

### **Psyc 426 Sensation And Perception (4-0) 4**

This course examines human vision, hearing, smell, taste, and touch. While studying these sensory systems, we also consider the perception of art, music, illusions, speech, and pain. Numerous demonstrations and experiments are included in the lab and lecture so that abstract principles can be applied in meaningful, interesting ways. Usually offered in the fall term.

Prerequisite: Psyc 157.

### **Psyc 441 Memory, Learning And Cognition (4-0) 4**

Principles of cognitive psychology explain how humans remember, learn, and think. Topics include attention, working memory as consciousness, autobiographical memory, remembering in infancy and childhood, semantic frameworks for learning, memory disorders and amnesias, problem-solving, creativity, and cognitive ways to improve learning, as well as the effects of emotion and trauma on memory for events. Class activities and demonstrations illustrate many concepts.

Prerequisite: Psyc 157.

### **Psyc 496 Senior Seminar (4-0) 4**

Advanced study and research in selected topics. Fall and winter terms.

Prerequisites: Psyc 296W, Psyc 300 and consent of instructor.

### **Psyc 498 Thesis 1-6**

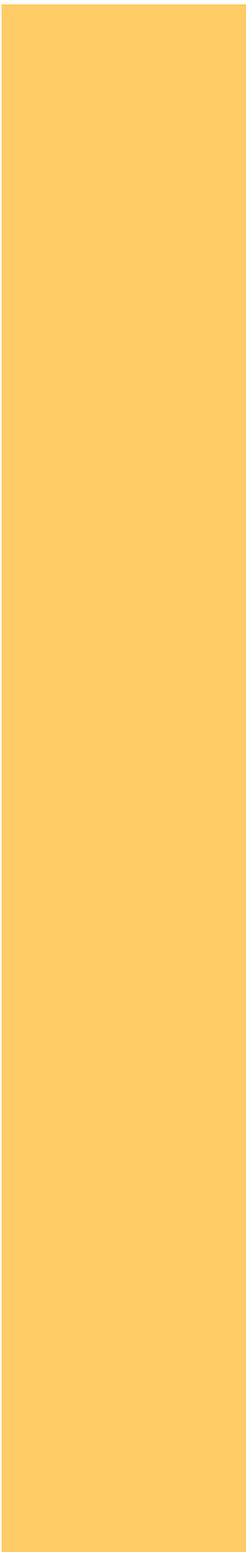
Each student will be involved in the development and completion of a quantitative research project, a qualitative research experience, a comprehensive literature review, or a community-based agency experience. The focus of this course is to provide students with an opportunity to explore and expand their individual interests within the field of psychology under the direct supervision of a member of the psychology faculty. A research proposal may be required prior to receiving professor's consent. This course can be repeated for a maximum of six credit hours. Fall and winter terms.

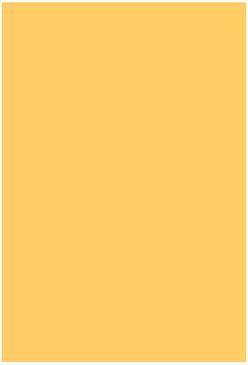
Prerequisites: Psyc 296W, 300, senior standing and consent of instructor.

### **Psyc 499 Independent Study 1-6**

Individual research is conducted under the supervision of a faculty member.

Prerequisite: Consent of instructor.







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## Psychology

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### Course Listings for Psychology

#### **Professors**

Beverly R. Chew  
Janet L. Jones  
Thomas A. Skurky

#### **Associate Professors**

Michael C. Anziano  
Alane S. Brown  
Betty J. Dorr  
Ziarat Hossain  
Marilyn S. Leftwich

The psychology major is designed to meet the needs of many students, all of whom have an interest in the scientific study of behavior and its causes, which is the most general definition of modern psychology. Some students may wish to pursue psychology in depth; others may prefer to approach psychology from a more general interdisciplinary perspective within the liberal arts tradition.

The needs of all psychology students are addressed by a major that is demanding, yet flexible; a major that ensures exposure to current thinking and techniques of modern psychology, but at the same time allows students to explore their own interests and set their own goals. As they become more familiar with the field of psychology and more aware of individual interests, students are encouraged to redefine their goals. Students are encouraged to work closely with their advisor to meet their academic and professional goals.

If you are interested in graduate school and planning to take the Graduate Record Examination (GRE) in the content area of psychology, the following psychology classes are strongly recommended as your psychology electives:

Social Psychology, Sensation and Perception, Physiological Psychology, Abnormal Psychology, Psychological Testing, Lifespan/Human Development, Memory and Cognition, History of Psychology

**REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN PSYCHOLOGY:****Courses:****Credits:****General Education****35-46**

\*\* Courses marked with double asterisks may also be counted toward TS 1 requirements.

**Specific Departmental Requirements:****1. Core Program (ALL required; complete in the order listed):**

Psyc 157 Introduction to Psychology	3
Psyc 241 Basic Statistics for Psychologists	4
Psyc 296W Psychological Research Methods	4
Psyc 300 Methods of Inquiry	4
Psyc 496 Senior Seminar	4

**Core Subtotal****19****2. Foundations of Psychology-16 credits (any 4 courses) from the following group:**

Psyc 327 Physiological Psychology	4
Psyc 330 Animal Behavior	4
Psyc 342 Psychological Testing	4
Psyc 354 Topics in Child Psychology	4
Psyc 375 Multicultural Psychology	4
Psyc 383 History of Psychology	4
Psyc 387 Abnormal Psychology	4
Psyc 425 Social Psychology	4
Psyc 426 Sensation and Perception	4
Psyc 441 Memory and Cognition	4

**Foundations Subtotal****16****3. Psychology Electives****8**

The student must complete an additional 8 credits in psychology. The remaining 8 credits required for the major may be selected from any courses offered in the department, including Foundational Courses. No more than four credits of Independent Study (Psych 229/Psych 499) will be accepted.

No more than six credits of off campus coursework or innovative month will be accepted. Students are urged to work closely with their advisor in choosing the most appropriate array of courses for the student's interests and plans.

**Total Departmental Requirements****43****Writing Course Within Discipline:**

Included in Specific Departmental Requirements above.

Free Electives (variable)

**TOTAL REQUIRED FOR GRADUATION****120**

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

**A minor in psychology is available for students majoring in other disciplines.**

**Requirements for a minor in psychology are described below:**

**REQUIREMENTS FOR A MINOR IN PSYCHOLOGY:**

**A minor in psychology consists of at least 20 credits, distributed as follows:**

Psych 157, Psych 241Q, Psych 296W, and three additional psychology courses, two of which must be upper-division.

**HUMANITIES MAJORS**

Humanities majors with a primary concentration in psychology should note that Psych 296W is the writing course in this discipline.

Prerequisites for Psych 296W are Psych 157 and Psych 241Q. The Senior Seminar, Psych 496, requires the following prerequisites: Psych 157, Psych 241Q, Psych 296 and Psych 300.

No more than a combined total of six credits in psychology from off campus coursework or innovative month or independent study (Psych 299/Psych 499) may be counted toward a primary or secondary concentration.

**Suggested Sequence of Courses for a Psychology Major****Fall Freshman Year**

Writing course if needed (TRS 91, Comp 125)

Math course if needed (TRS 92)

Psych 157 Intro to Psych

ES 100 (plus one PE Activity)

Lib 150

Thematic Studies 1 course

(Possible Free Elective)

**Fall Sophomore Year**

Psychology 241

Thematic Studies 1 course

Psychology Elective

(Possible Free Elective)

**Fall Junior Year****Winter Freshman Year**

Writing course (finish Comp 125, Comp 150)

Thematic Studies 1 course

Psychology Elective

PE Activity

(Possible Free Elective)

**Winter Sophomore Year**

Psychology 296

Thematic Studies 1 course

Psychology Elective

(Possible Free Elective)

**Winter Junior Year**

Psychology 300  
 Thematic Studies 2 course  
 Psychology Elective  
 (Possible Free Elective)

**Fall Senior Year**

Thematic Studies 2 course  
 Psychology Elective  
 (Possible Free Elective)

Thematic Studies 2 course  
 Psychology Elective  
 (Possible Free Elective)

**Winter Senior Year**

Thematic Studies 2 course  
 Psychology Elective  
 (Possible Free Elective)  
 Psychology 496 either term

**Suggested Sequence of Courses for a Psychology Major with a Counseling and Clinical Emphasis**

**Fall Freshman Year**

Writing course if needed (TRS 91, Comp 125)  
 Math course if needed (TRS 92)  
 Psych 157 Intro to Psych  
 ES 100 (plus one PE Activity)  
 Lib 150  
 Thematic Studies 1 course  
 (Possible Free Elective)

**Fall Sophomore Year**

Psychology 241  
 Thematic Studies 1 course  
 Psychology Elective (Psy 233)  
 (Possible Free Elective)

**Fall Junior Year**

Psychology 300  
 Thematic Studies 2 course  
 Psychology Elective (Psy 342, Psy 387, Psy 383)  
 (Possible Free Elective)

**Fall Senior Year**

Thematic Studies 2 course  
 Psychology Elective  
 (Psy 420\*, Psy 375)  
 (Possible Free Elective)

**Winter Freshman Year**

Writing course (finish Comp 125, Comp 150)  
 Thematic Studies 1 course  
 Psychology Elective  
 PE Activity  
 (Possible Free Elective)

**Winter Sophomore Year**

Psychology 296  
 Thematic Studies 1 course  
 Psychology Elective (Psy 254)  
 (Possible Free Elective)  
 Summer: Psy 394  
 Field School in Psychology

**Winter Junior Year**

Thematic Studies 2 course  
 Psychology Elective  
 (Psy 393, Psy 392, Psy 333, Psy 406)  
 (Possible Free Elective)

**Winter Senior Year**

Psy 392 is pre-req  
 Thematic Studies 2 course  
 Psychology Elective  
 (Possible Free Elective)  
 Psy 496 either term

**Suggested Sequence of Courses**

For A Psychology Major With a Human Development Emphasis

**Fall Freshman Year**

Writing course if needed (TRS 91, Comp 125)  
Math course if needed (TRS 92)  
Psych 157 Intro to Psych  
ES 100 (plus one PE Activity)  
Lib 150  
Thematic Studies 1 course  
(Possible Free Elective)

**Fall Sophomore Year**

Psychology 241  
Thematic Studies 1 course  
Psychology Elective (Psy 254, Psy 383)  
(Possible Free Elective)

**Fall Junior Year**

Psychology 300  
Thematic Studies 2 course  
Psychology Elective (Psy 340, Psy 342)  
(Possible Free Elective)

**Fall Senior Year**

Thematic Studies 2 course  
Psychology Elective (Psy 385)  
(Possible Free Elective)

**Winter Freshman Year**

Writing course (finish Comp 125, Comp 150)  
Thematic Studies 1 course  
Psychology Elective (Psy 218)  
PE Activity  
(Possible Free Elective)

**Winter Sophomore Year**

Psychology 296  
Thematic Studies 1 course  
Psychology Elective (Psy 270, Psy 372)  
(Possible Free Elective)

**Winter Junior Year**

Thematic Studies 2 course  
Psychology Elective (Psy 354, Psy 375)  
(Possible Free Elective)

**Winter Senior Year**

Thematic Studies 2 course  
Psychology Elective (Psy 441)  
(Possible Free Elective)  
Psychology 496 either term



# School of Arts and Sciences

## Course Listings for Religious Studies

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### **RS 244 Chinese Philosophy (3-0) 3**

A study of Confucianism, Taoism, and Buddhism with consideration of some dissenting views to these dominant schools of Chinese thought, such as Maoism and Legalism. We will investigate the theories of human nature, knowledge, and reality embraced by these philosophies, as well as their conceptions of ethics and politics. This course is the same as Phil 244; credit will be given for only one of these courses.

### **RS 261 Philosophy Of Religion (4-0) 4**

An examination of different philosophical approaches to problems raised by religion. Readings are selected from sources representing widely differing points of view, e.g., those of phenomenology, feminism and liberation theology. Alternate fall terms. This course is the same as Phil 261; credit will be given for only one of these courses.

### **RS 297RS Tibetan Buddhism: Philosophy and Situation (0-15) 6**

This course is designed to investigate the history, cosmology, and politics of Tibetan Buddhism-as well as some of the challenges it faces in the contemporary world-through readings, discussions, and the experience of visiting sites of significance to these issues. It presents Tibetan Buddhism as a metaphysical system through which a cultural/ethnic group sees and lives the world and the ways in which that metaphysics has come in conflict or has been adopted an adapted. The course looks at the ways Tibetan Buddhism (based on a metaphysics of "emptiness") comes in conflict with the political ideology and philosophy of materialism championed by Marxism and Capitalism, as well as the ways it has had to adapt to the contemporary world, and the ways in which it has been mystified and romanticized. This course is the same as Phil 297 and PS 297. Credit will be given for only one of these courses.

### **RS 305 Mesopotamian Myth/Religion (3-0) 3**

A study of ancient Near Eastern myth/religion from the beginning of written history in Sumer (Mesopotamia) around 3000 B.C. into the early post-exilic period of the Hebrew Bible (Old Testament) in Israel around 500 B.C. Interconnections, influences, and innovations will be explored. Summer term. This course is the same as Hist 305; credit will be given for only one of these courses.

### **RS 306 Ancient Women's Religions (4-0) 4**

A study of ancient women's religious practices and beliefs from Neolithic Europe, Sumer, and the ancient Near East, the Greco-Roman world and early Christianity. Fall term. This is the same as Hist 306; credit will be given for only one of these courses.

### **RS 308 Rise Of Christianity (4-0) 4**

A study of the historical Jesus of Nazareth, Judaism, and first century Jewish Palestine under Roman domination. The development of Pauline Christianity and the struggle between orthodox and Gnostic Christians culminating in the final orthodox victory around 400 A.D. will be studied in depth. Winter term. This is the same as Hist 308; credit will be given for only one of these courses.

### **RS 310 Psychology Of Religion (4-0) 4**

In this course, we will explore the psychology of spirituality and religious experience. Topics will include the history of Psychology of Religion; the motivational basis of religious participation; the relationship between mental health and religion; development of religious ideas across the lifespan; and social-psychological factors in religious conversion and commitment. On demand. This is the same as Psyc 310; credit will be given for only one of these courses.

Prerequisites: Psyc 110S Human Relations or Psyc 157 Introduction to Psychology.

### **RS 320 Indigenous Worldviews (4-0) 4**

A survey of selected regional belief systems outside the major religious traditions treated in Phil 321. Emphasis is on philosophical foundations of religious cultures native to the Americas, Africa, Asia, Australia, and Old Europe. Special attention is given to the mythic and other symbolic expressions of archaic consciousness in contemporary societies. Alternate fall and summer terms. This course is the same as Phil 320; credit will be given for only one of these courses.

### **RS 321 World Religions (4-0) 4**

A study of the nature and history of the major contemporary religions of the world. Alternate fall and summer terms. This course is the same as Phil 321; credit will be given for only one of these courses.

### **RS 328 Christianity In U.S. History (4-0) 4**

This course covers the role of Christianity in United States history from the nation's creation until today. The class will look at how mainline Christian denominations have shaped U.S. history and been in turn shaped by the

American experience. Within this broad historical sweep of linking the past to the present important issues like the separation between church and state, and how the nation has gone from Protestant establishment to secularism as well as how law and politics have come to impact religion, will be examined. Fall term, alternate years. This course is the same as Hist 328; credit will be given for only one of these courses.

### **RS 355 East Asian Popular Religion (4-0) 4**

This course examines East Asian popular religious practices in their historical, social and economic contexts. We begin with theoretical works and introductory lectures on ritual, sacred space, pilgrimage, and various East Asian philosophical and religious traditions, including Confucianism, Daoism, Buddhism and Shinto. We will then focus on specific East Asian pilgrimages, sacred sites, rituals and myths, progressing from ancient to modern periods. This course is the same as Hist 355; credit will be given for only one of these courses.

### **RS 385 Historical Jesus (3-0) 3**

This course investigates Jesus as an historical figure in the context of the religion, politics, economic, and culture of his time in Roman dominated Jewish Palestine. Historical critical methods will be employed to evaluate the major scholarly debates among secular, Christian, and Jewish scholars. Summer term.

### **RS 446 Ancient Israel And Judah (3-0) 3**

This seminar explores ancient Israel from its beginnings around 1250 B.C. to the crucifixion of Jesus of Nazareth around 33 A.D. Topics include the historical and archaeological origins of Israel and Judah, Biblical composition and authors, the Babylonian exile, the Dead Sea Scrolls, and Jesus in Jewish and Christian historical context. Historiography and critical scholarship are emphasized. This course is recommended as a senior capstone course in Religious Studies. Winter term.



# School of Arts and Sciences

## Religious Studies

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### Course listings for Religious Studies

#### **Director**

James K. Ash

#### **Professors**

Reyes Garcia

Neil McHugh

Mary Jean Moseley

Paul N. Pavich

#### **Associate Professors**

James K. Ash

Alane Brown

Robert R. Bunting

David L. Kozak

Dugald L. Owen

Richard M. Wheelock

#### **Assistant Professors**

Sean E. Cridland

Kalin L. Grigg

Religion is one of the most powerful influences on both individual and collective human behavior throughout history, yet it is often neglected as a unified area of critical study in higher education. The minor in Religious Studies is an interdisciplinary approach to the study of various religious traditions and their impact on modern society. This minor examines religious experience within a framework of economic, political, gender, historical, class, and ethnic concerns. Coursework in Religious Studies may be used in practical application such as faith-based service in a church, synagogue, or mosque, as well as involvement with activist, social justice initiatives. This program will also provide a foundation for those students who wish to proceed to more advanced studies in seminaries and graduate schools.

#### **REQUIREMENTS FOR THE MINOR IN RELIGIOUS STUDIES:**

1) At least 18 hours of coursework from the listing below, at least nine of which must be in upper-division courses.

2) Coursework for the minor must represent at least four different disciplines.

Some of the following courses carry Religious Studies (RS) designations. These courses may only be taken once for credit. For example, Hist 328 may not be repeated under its RS 328 designation.

**Note: No more than one course from your major department will count toward this minor.**

**Possible course choices for the minor:**

**Courses:**

**Credits:**

**Anthropology**

\*\*Anth 215R Magic and Religion

3

**English**

\*\*Engl 221R Classical Literature

4

Engl 380 Native American Literature: Topics

4

Engl 126 Bible as Literature

2

Engl 127 Bible as Literature

2

**History**

Hist 306 Ancient Women's Religions

4

This is the same as RS 306.

Hist 308 Rise of Christianity

4

This is the same as RS 308.

Hist 315 Irish, Catholic, American

4

Hist 328 Christianity in U.S. History

4

This is the same as RS 328.

Hist 349 Islam in History

4

Hist 355 East Asian Popular Religion

4

This is the same as RS 355.

**Philosophy**

Phil 244 Chinese Philosophy

3

This is the same as RS 244.

Phil 261 Philosophy of Religion

4

This is the same as RS 261.

Phil 297 Tibetan Buddhism: Philosophy and Situation

6

This is the same as PS 297 and RS 297.

Phil 320 Indigenous Worldviews

4

This is the same as RS 320.

Phil 321 World Religions	4
This is the same as RS 321.	
<b>Political Science</b>	
PS 297 Tibetan Buddhism: Philosophy and Situation	6
This is the same as Phil 297 and RS 297.	
PS 300 Religion and Politics	4
<b>Psychology</b>	
Psyc 310 Psychology of Religion	4
This is the same as RS 310.	
<b>Religious Studies</b>	
RS 244 Chinese Philosophy	3
This is the same as Phil 244.	
RS 261 Philosophy of Religion	4
This is the same as Phil 261.	
RS 297 Tibetan Buddhism: Philosophy and Situation	6
This is the same as PS 297 and Phil 297.	
RS 305 Mesopotamian Myth/Religion	3
This course is the same as Hist 305.	
RS 306 Ancient Women's Religions	4
This is the same as Hist 306.	
RS 308 Rise of Christianity	4
This is the same as Hist 308.	
RS 310 Psychology of Religion	4
This is the same as Psyc 310.	
RS 320 Indigenous Worldviews	4
This is the same as Phil 320.	
RS 321 World Religions	4
This is the same as Phil 321.	
RS 328 Christianity in U.S. History	4
This is the same as Hist 328.	
RS 355 East Asian Popular Religion	4
This is the same as Hist 355.	
RS 382 Dead Sea Scrolls	3

RS 385 Historical Jesus	3
RS 391 Dead Sea Scrolls	3
RS 446 Ancient Israel & Judah	3
<b>Sociology</b>	
Soc 340 Religion and Social Life	4
<b>Southwest Studies</b>	
SW 322 American Indian Philosophies	3

Also appropriate are Special Topics courses 190/390s, 191/391s and Independent Study 499 with a focus on religious studies in any of the disciplines. These courses must be approved by the Director. It is possible for a student to construct a major in Religious Studies. Please consult with the Director of Religious Studies.



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DR. JOHN NINNEMANN, DEAN

[Noble Hall 289](#)  
[247-7264](#)

DR. ROBERT BUNTING, ASSISTANT DEAN

[Noble Hall 208](#)  
[382-6926](#)

## Departments and Programs:

Anthropology

◆ *David L. Kozak, Chair*

Art

◆ *Laurel C. Vogl, Chair*

Asian Studies

◆ *Sean Cridland, Coordinator*

Biology, Agriculture, and Forestry

◆ *Lee Preston Somers, Chair*

Chemistry

◆ *Robert E. Milofsky, Chair*

Community Services

◆ *Kenneth Francis, Director*

Computer Science Information Systems

◆ *Evans Adams, Coordinator*

English

◆ *Faron Scott, Chair*

Environmental Policy

◆ ***Robert R. Bunting, Coordinator***

Geosciences

◆ ***James D. Collier, Chair***

History

◆ ***Neil McHugh, Chair***

Humanities

◆ ***Michael C. Anziano, Gordon Cheesewright, and Kathryn Moller, Co-coordinators***

International Studies

◆ ***Jan Sallinger-McBride, Coordinator***

Mathematics

◆ ***Deb Berrier, Chair***

Modern Languages

◆ ***Ingrid W. Ryan, Chair***

Music

◆ ***Rochelle Mann, Chair***

Physics and Engineering

◆ ***Don May, Chair***

Physical Science

Political Science and Philosophy

◆ ***Dugald Owen, Chair***

Religious Studies Minor

◆ ***James K. Ash, Director***

Sociology and Human Services

◆ ***Dennis Lum, Chair***

Southwest Studies

◆ ***Richard N. Ellis, Chair***

Theatre

◆ ***Ginny Davis, Chair***

Women's Studies

◆ ***Jennifer A. Gehrman, Coordinator***

Writing Program

◆ ***Carol L. Smith, Director***

The programs in the School of Arts & Sciences are administered through its academic departments, but for easy reference the separate curricula are listed alphabetically.



# School of Business Administration

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JOHN (Skip) E. CAVE, DEAN  
[132 Education/Business Hall](#)  
[247-7294](#)

ROY A. COOK, ASSISTANT DEAN  
[136 Education/Business Hall](#)  
[247-7550](#)

## Departments and Programs:

[Accounting](#)

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**MISSION**

The School of Business Administration's faculty works as a team to provide innovative undergraduate business and professional education that challenges traditional pedagogical models and integrates the business and liberal arts disciplines to prepare students for a dynamic, globally competitive business environment.

## **VALUES**

We provide high quality undergraduate programs with a commitment to developing a liberally educated and professionally competent student. We reach out to attract and serve a culturally diverse community of scholars and students to help them achieve their full potential. We help students gain a maturity of commitment, a sense of social responsibility, and integrity. Our success depends upon maintaining a quality faculty dedicated to teaching and scholarship, a critical mass of committed students, a sense of community focused on our common goals, and adequate funding from public and private sources.

Realizing the need for quality and continuous improvement in all that we do, we strive to maintain a dedicated team of teacher-scholars with concern for our students, for the quality of our faculty, and for the success of our graduates. Additionally, we strive to prepare our students and faculty to meet the needs of organizations and communities operating in a globally competitive environment with diverse economic systems.

## **GOALS AND OBJECTIVES**

### **Teaching**

To be leaders in learning, pedagogy, curriculum, and student-oriented service-delivery systems, we position ourselves as a distinguished value-added undergraduate school by focusing attention on enhancing students' use of information as a competitive tool through life-long learning, knowledge of business content, tools, skills and applications. Achievement of these goals will include developing analytical, computer and decision making skills; leadership/interpersonal, communication, planning and organizing skills; and risk taking, experimentation, and complex-systems-thinking proficiency. Further, we will develop students with responsible/ethical attitudes and actions, and international/multicultural/gender sensitivity.

### **Visibility And Reputation**

To enhance the School's regional and national visibility and reputation for exceptional value-added undergraduate business and professional education and service, we facilitate student employment opportunities, improve graduate school admission opportunities and provide community/regional service. Achievement of these goals and objectives requires continuing research and publication. We will maintain AACSB accreditation.

### **Resource Support**

To provide adequate resources to support the mission, goals and objectives of the School, we seek and maintain sources of both internal and external funding. Achievement of these goals and objectives requires us to be efficient stewards of society's resources.

## **Commitment To Excellence**

To support our goals and objectives, we are committed to developing and maintaining a curriculum that is responsive to society's needs and to increasing learning both inside and outside the classroom. This requires more emphasis on interdisciplinary/industry-focused curricula, creating a more effective physical environment for learning, and focusing our efforts on pedagogical innovations.

The School of Business Administration degree programs are designed to provide a balanced combination of the arts and sciences and professional business education.

The more specific objectives of the Bachelor of Arts degree programs offered by the School of Business Administration are:

◆ To provide, as a base, a general understanding of the principles of modern business and organizational practices.

◆ To develop balanced thinking and understanding of the economic, political, and social environments in which modern business and government are conducted.

◆ To ensure that students are skilled in the use of analytical tools and techniques for decision making.

◆ To develop the capacity for critical thought, leadership and the ability to work with others.

◆ To enhance each student's appreciation for international customs and cultural values, and for one's responsibilities in modern society.

The School is characterized by its professional attitude, the diversity of its largely work-experienced faculty and its close student-faculty relationship. In addition to concern for good classroom instruction, the faculty believe that much learning takes place through personal and informal contacts with and among students.

The Business Club, Students in Free Enterprise, American Indian Business Leaders, Beta Alpha Psi, the accounting professional fraternity, and Beta Gamma Sigma, the national honorary business fraternity, are active campus groups that promote such interactions.

## **DEGREE PROGRAMS AND OPTIONS**

The curricula offered by the School lead to the Bachelor of Arts degree with a major in Accounting, Economics or Business Administration. Within the Business Administration major, options are offered in Agricultural Business, Business Administration, Engineering Management, Finance, International Business, Management, Marketing, Operations Management, and Tourism and Resort Management.

## **ACCEPTANCE OF TRANSFER CREDITS**

It is recommended that students planning to transfer into the Fort Lewis College School of Business Administration do so by the end of their sophomore year. Students must complete their final 30 credit hours in residence at Fort Lewis College.

Students taking their first two years of work at a junior or community college or at another four-year institution should take only those business courses that are offered at the freshman or sophomore level at Fort Lewis College. To be exempt from the School of Business Administration sophomore-level writing requirement, students should take a business writing or business communications course at their junior or community college. Business courses taught at junior or community colleges may not be used to satisfy upper-division course requirements (courses at the 300- and 400-level) of the School of Business Administration.

### **PREREQUISITE REQUIREMENT**

Students who enroll in a business course without having satisfactorily completed the required prerequisite(s), or received consent of the instructor, are subject to administrative withdrawal from the course.

### **NON-BUSINESS STUDENTS**

Students who are not working toward a baccalaureate degree in business are prohibited from taking business credits that will exceed 25 percent of their total program. This provision is in accordance with the accreditation standards of the American Assembly of Collegiate Schools of Business.

### **TRIMESTER ABROAD**

The Trimester Abroad courses are offered through the Junior Trimester Abroad program (JTA) and are taught by a Fort Lewis College Business School faculty member in Europe during the winter trimester. The schedule provides for two five-week sessions with two courses offered during each session. Spring Break provides the opportunity to travel in Britain or the Continent, or take advantage of a Spring Break short course. The trimester ends around the first week in April, allowing about three weeks of independent travel for those who wish to take advantage of that opportunity before the summer trimester begins at Fort Lewis College in Durango.

Generally, the course offerings include at least two junior-level core business courses, as well as an international business course and either a third core course or an upper-division business elective for a total of 12-14 credit hours. There are additional opportunities to earn credit through Independent Study and Non-Scheduled courses and the Spring Break course.

Costs of this program are kept low through the use of Fort Lewis College faculty and the minimal cost of facilities in Europe. While the program costs for any given year are a function of airline fares, the exchange rate, and room and board charges, in past years, it has cost students an additional \$1,600 including airfare, room and board for the trimester. This does not include the student's personal spending, nor costs of travel during Spring Break or at the conclusion of the course. Details for any given year regarding location, cost, climate, travel arrangements, etc., may be obtained from the International Program Coordinator or the JTA faculty.

Students who are interested in this program should contact the Assistant Dean of the School before taking any upper-division SOBA courses to design trimester schedules so they don't conflict with the JTA program of study.

### Trimesters in France, Spain, Germany, and Norway

The College has exchange agreements with:

École Supérieure de Commerce de La Rochelle (SupDeCo)

Ecole Supérieure des Sciences Commercial (ESSCA)

Norwegian School of Management (BI)

University of Northumbria (Newcastle, England)

University of Savoie (Chambery, France)

Abo Akademi University (Finland)

Amsterdam School of Business (HES)

Fachhochschule Regensburg (FSR)

Orebro University (Sweden)

University of Southern Denmark

University of Basque Country (Spain)

While the studies are completed at the partner school, credit and grades are awarded by Fort Lewis College, eliminating transferability problems. Fort Lewis College tuition and fees are charged so the only additional cost is that associated with travel to host institution and whatever additional living expenses that might be incurred. In addition, the School of Business Administration offers programs in China, England, France, Germany, Ireland, and Mexico.

### ACCOUNTING/BUSINESS/ECONOMICS/ MARKETING MINORS

Requirements for minors in Accounting, Business Administration, Economics and Marketing are given at the end of the School of Business Administration section of this catalog.

### SCHOOL OF BUSINESS ADMINISTRATION FACULTY

#### Professors

John E. Cave  
James P. Clay  
Roy A. Cook  
Lawrence S. Corman  
William B. Dodds  
Robert Dolphin, Jr.  
Kenneth A. Hunt  
Vernon E. Lynch, Jr.  
Reed H. McKnight  
Iqbal A. Memon  
Richard A. Podlesnik

#### Associate Professors

Dale E. Lehman  
Frederick H. Mull  
Nancy A. Oppenheim  
Keith F. Sellers  
Carol L. Smith  
Charles O. Tustin

#### Visiting Professors

Patrick McKenzie  
Charles J. Yoos, II

#### Assistant Professors

Doug Lyon  
Stephanie Owings  
Herbert Snyder  
Suzanne Wilhelm

#### Visiting Instructors

Chris Ann Lyon  
Ray Schmudde  
Steven Stovall

### THE CURRICULUM

The School of Business Administration (SOBA) offers Bachelor of Arts degrees in Accounting, Business

Administration and Economics. The Business Administration degree offers options in Agricultural Business, Engineering Management, Finance, Information Management, International Business, Management, Marketing, and Tourism and Resort Management. These majors provide excellent education in business within the broad context of a liberal arts curriculum. The programs offer a concentration of courses in which the students take a cross section of "Common Requirement" courses and 15 to 25 credit hours in a concentration in one of the areas of business. Programs are designed to meet the needs of students wishing to continue their education in graduate school or to work in their chosen professional area.

Minors in accounting, business administration, economics, entrepreneurship and small business management, or marketing are available for students majoring in other disciplines. Requirements for minors are listed at the end of this section.

A student who majors in one of the three Bachelor of Arts degree programs in the School of Business Administration must complete:

<b>Courses:</b>	<b>Credits:</b>
<b>General Education</b>	<b>35-46</b>
** Courses marked with double asterisks may also be counted toward TS 1 requirements.	
<b>COMMON SOBA REQUIREMENTS:</b>	
Acc 225 Introduction to Financial Accounting	4
Acc 226 Introduction to Managerial Accounting	4
**Econ 266S Principles of Economics	4
BA 221 Writing in the Business World	3
**BA 253Q Business Statistics	4
**BA 260S Legal Environment of Business	3
BA 301 Management and Organizational Behavior	4
BA 340 Marketing	4
BA 353 Operations Management	4
BA 380 Financial Management	4
BA 496 Senior Seminar in Strategic Management	4
<b>Subtotal Common SOBA</b>	<b>42</b>
<b>Quantitative Reasoning Requirement:</b>	
<b>Complete one of the following:</b>	
BA 446 Marketing Research	4
BA 485 Investments and Portfolio Management	4
Econ 361 Managerial Economics	4
**Math 210Q Calculus for Business and the Biological Sciences	4
**Math 221Q Calculus I	4

**Math 345Q Data Analysis	4
**Math 360Q Introduction to Operations Research	4
<b><i>Subtotal Q Requirement</i></b>	<b>4</b>
NOTE: BA 446 and BA 485 are not accepted for Quantitative Reasoning Requirement with Accounting major.	
<b>Auxiliary Requirement (outside SOBA):</b>	
CSIS 322 Management and Information Systems	4
<b>TOTAL COMMON SOBA REQUIRMENTS</b>	<b>50</b>

Each candidate for graduation must complete a minimum of 120 credits, with at least a minimum cumulative grade point average of 2.0 and a minimum grade point average of 2.0 for those courses accepted to meet the requirements for the major course of study.

For majors in Accounting, Business Administration and Economics, a minimum of C- must be earned in 300- and 400-level Accounting, Business Administration, Computer Science and Information Systems, or Economics courses to count toward graduation.

It is the responsibility of the student to know and complete all graduation requirements. At least 50% of the business credit hours for a School of Business major must be earned at Fort Lewis College. Additional requirements are listed on the following pages under each major or option.

At least 50 percent of the student's total credits must be taken outside of the School of Business Administration.



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VIRGINIA ENGMAN, DEAN  
236 Education Business Hall  
247-7157

## Departments:

Teacher Education

◆ *Maggie Cason, Chair*

Exercise Science

◆ *Paul Peterson, Chair*

Interdisciplinary Studies

Psychology

◆ *Betty Dorr, Chair*



# School of Arts and Sciences

## Course Listings for Sociology

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### **Soc 100S Social Issues (4-0) 4**

This introductory course seeks to examine the extent to which the crisis of institutions creates personal problems in our everyday lives. Conversely, it will explore the degree to which our personal troubles foster institutional contradictions. Topics for study may include the workplace, the environment, inequality, sexism, racism, health care, criminal justice, education, alienation, and social services. Fall and winter terms.

### **Soc 101 American Society (1-0) 1**

This course introduces international students to contemporary American society through a sociological analysis of the changing patterns of family, community, work, gender, and education in the U.S. and Japan. This sociological perspective on U.S. society will deepen students' understanding of the society in which they will be living and attending college. This course is taught in English. This course is repeatable for up to 2 credits.

Prerequisite: Consent of the instructor.

### **Soc 200 Social Change And Human Services (4-0) 4**

This course is designed to facilitate critical understanding of, and commitment to, processes of social change in modern society. Using historical and theoretical analysis of social change efforts, students are encouraged to embrace and develop models of change that take seriously the personal and social dimensions of human struggle. The role and responsibility of human service agencies in social change/community development is also considered. Field work is required.

### **Soc 210W Social Inquiry And Research Methods (4-0) 4**

An introduction to quantitative methods used in social science this course serves as one of the Writing Courses for the Department of Sociology/Human Services. The appropriateness and application of various methods will be emphasized. Data collection, reduction, analysis and interpretation will be covered. Emphasis will also focus on interviewing, participant observation, and ethnographic approaches to data collection, and the development of descriptions and interpretations of social settings.

Prerequisites: Consent of instructor and concurrent registration in Soc 320 and Soc 421.

### **Soc 250R Social Issues In Contemporary Native Societies (4-0) 4**

An examination of the social, political, and economic circumstances of both urban and rural native societies worldwide. Emphasis will be on the United States. Topics may include indigenous peoples in cities, tribal councils, environmental racism, criminal justice, social services, youth, international indigenous issues and networks.

### **Soc 275S Families, Marriages, And Other Sex-Role Systems (4-0) 4**

Analysis of changing patterns of family life and sex roles in contemporary society, of the social sources of these changes, and of their societal and individual consequences.

### **Soc 279R Ethnicity, Gender, And Class In The Southwest (4-0) 4**

A descriptive analytic inquiry into the historical, social, and economic position of the Hispanics, Native Americans, and women of the Southwest.

### **Soc 280S Popular Culture And Mass Communication (4-0) 4**

An inquiry into both the production and the consumption of popular culture. Attention will be paid to cultural power as a force for domination as well as a condition for collective affirmation and struggle. Topics include popular music, radio and television programs, news media, comic strips, and pulp fiction.

### **Soc 300W Theories Of Social And Personal Life (4-0) 4**

This course will critically examine the classical and contemporary theories of self and society. The major paradigms of functionalism, Marxism, symbolic interactionism, structuralism, ethnomethodology, and critical and feminist theory will be evaluated. This course serves as the Writing Course for Humanities majors seeking a primary concentration in Sociology/Human Services.

### **Soc 301 Comparative Societies (4-0) 4**

A comparative study of the social structures of selected countries and regions within the first, second, and third worlds. Comparisons will be made of societies within selected regions as well as their relationships to US. society. Selected countries and regions will include: Cuba and the Caribbean, the Andean countries, China, Japan, etc. Students may repeat the course for credit provided the topic is different on each occasion.

### **Soc 310 Ecology And Society (4-0) 4**

This course will examine environmental issues and the natural world from a cultural and socioeconomic perspective. It will attempt to study the ideas, conceptions, practices, and beliefs that relate people to the land and their collective environment. Finally, it will look at environmental concerns from the perspective of workers, minorities, and rural and urban communities both in America and worldwide.

### **Soc 311 Ecology And Society Field School 8**

This course offers a field experience in the relationship between people and the land. Students will work on farms and in the U.S. National Forest. They will meet with Anglos, Hispanics, and Native Americans in rural communities. One week will be spent in the National Forest learning to identify wildlife and its habitat.

### **Soc 320 Community Service Practicum 4-8**

This course provides the student with experience in applied sociology. Students will be involved in human services, applied social research or other activities approved by the advisor and practicum coordinator. The emphasis is upon gaining experiential knowledge through active participation in sociological practice and sharing this in a classroom experience. Practicum may be taken for 4 or 8 credits per term and for a maximum of 16 credits. A maximum of 8 credits can be applied toward the major in Sociology.

Prerequisites: Consent of instructor.

### **Soc 330 Mind, Self, And Society (4-0) 4**

An examination into the ways in which society influences the self and the individual produces society. The relationship between consciousness and social structure will be discussed. Theoretical focus may include symbolic interactionism, ethnomethodology and/or a Marxist perspective.

### **Soc 340 Religion And Social Life (4-0) 4**

An examination of, principally, contemporary religious phenomena from the viewpoint of social science. The course will also examine the significance of religious studies in the development of reasoning about society.

### **Soc 345 Art And Society (4-0) 4**

An inquiry into the relationship between any historically specific art and the social setting in which it was created. The idea that art is a way of seeing a world view, or a theoretic, will be explored. The focus of the course may be literature, the visual arts, music, theater, or film.

### **Soc 350 Search For Intimacy (4-0) 4**

This course will examine the cultural and institutional obstacles to intimacy. Class, gender, and race as historical categories will play their part in discussion and analysis. The idea that intimacy is something that only applies to romantic relations but not to larger social and community concerns will be examined.

### **Soc 353 Medical Sociology (4-0) 4**

A study of the social practices and beliefs which define and constitute the phenomena of health and illness. The current health care delivery system, including professional roles, patient participation, administration, medical education and planning, will be critically reviewed, and alternatives will be explored. This course is recommended for pre-health majors as well as social science majors.

### **Soc 361 Deviance (4-0) 4**

An examination of the traditional versions of deviance followed by modern critiques which emphasize "labeling" and the more phenomenological approaches to understanding human conduct.

### **Soc 362 Criminology And Criminal Justice (4-0) 4**

An examination of the major "positivist" theories of crime and criminality (individual, familial, subcultural) followed by the modern critique of positivist criminology emphasizing the part played by the administration of criminal justice as an integral part of the characterizing and structuring of crime.

### **Soc 363 Juvenile Delinquency (4-0) 4**

A review of contemporary thinking about the development of juvenile delinquency and the linkages between juvenile delinquency and the administration of juvenile justice.

### **Soc 375 Sociology Of Education (4-0) 4**

Study of the organization and practices of educational institutions and of the transformation these institutions are now undergoing. Special attention to the nature of these changes and their impact on the learning process as well as their consequences for the larger society will be explored.

### **Soc 376 Language And Social Behavior (4-0) 4**

A concentrated look at the social function of language use in society. The extent to which languages create social reality will receive scrutiny. Particular topics may include language and social class, language and sex, linguistic

politics, language and culture, or language cognition and development.

### **Soc 380 Work And Authority In Society (4-0) 4**

This course will explore the extent to which meaningful work is possible in any society. It will seek to account for the forms of authority in work and describe the impact that hierarchical structures have on the individual.

### **Soc 383 Women In Society (4-0) 4**

This course focuses on where American women in various class and ethnic categories stand in society now, compared not only to men but also to their mothers and grandmothers. It takes into account economic status, educational and job opportunities, family responsibilities, physical well-being and reproductive rights. It includes a significant portion of feminist theory, which serves as the vehicle for an ongoing analysis of the ways in which political, economic, and other social structures, as well as psychological factors such as gender attitudes, have effected the status of women, historically.

### **Soc 421 Contemporary Social Analysis In The Southwest (4-0) 4**

A seminar in the application of theories of social change, social knowledge, and research into regional issues in the Southwest. Topics may vary but will critically address issues of water, energy, agriculture, urbanization, inequality, public morality, politics, education, and community.

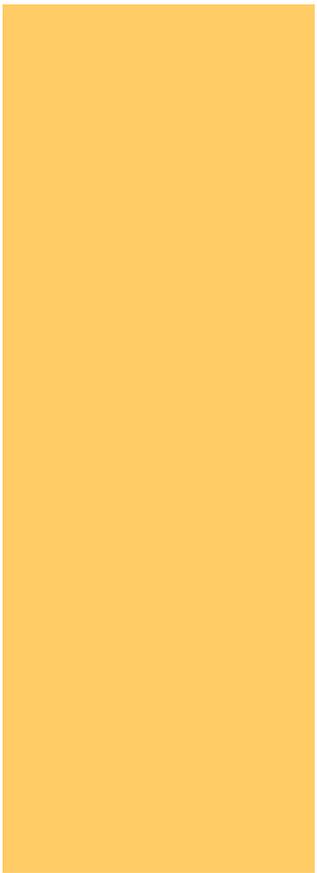
Prerequisites: Concurrent registration in Soc 210W and Soc 320 and consent of instructor.

### **Soc 496 Senior Seminar (4-0) 4**

Advanced study and research in selected topics. The student will prepare and submit a senior seminar research paper to qualify for graduation.

### **Soc 499 Independent Study 1-6**

Tutorial or individual research conducted in consultation with a member of the Sociology/Human Services faculty. Topic must be clearly defined in a written contract between student and faculty member.





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### Course listings for Sociology/Human Services

#### **Professor**

James Fitzgerald (jointly with Modern Languages)

#### **Associate Professors**

Janine M. Fitzgerald

Dennis W. Lum

Mark C. Seis

#### **Assistant Professors**

Kalin L. Grigg

Patricia Sanchez-Flavian

Carey N. Vicenti

Sociology seeks to explore how our individual and collective biographies intersect history within society. The relationships between social structure and individual consciousness, historical processes and everyday life, and collective interests and individual prerogatives provide the sociological substance by which we become self-conscious. It is through the study of sociology that we become aware of the meaning of our everyday lives and recognize the extent to which we participate in the construction of social formations.

The sociological task of comprehending the relationships among individuals and groups is a significant part of any student's educational experience. Extensive work in sociology is recommended for students planning careers in human services. Health services administration, family case work, community planning and development, and criminal justice work are typical human service careers. Moreover, an emphasis in sociology provides foundational preparation for graduate work in sociology, social work, public administration, law, journalism, and other fields.

In order to cultivate critical consciousness and active participation in processes of development and change in society, the Sociology/Human Services curriculum is organized to facilitate the integration of theory (reflection) and practice (action). While participation in the human service and practicum courses forms the nucleus of the praxis experience, the Block Internship, Latin American, Community Services and Service Learning programs all provide further opportunities for engaging in field experience.

A minor in Sociology/Human Services is available for students majoring in other disciplines. Requirements for a minor in Sociology/Human Services are listed at the end of this section.

### **REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN SOCIOLOGY/ HUMAN SERVICES:**

<b>Courses:</b>	<b>Credits:</b>
<b>General Education</b>	<b>35-46</b>

\*\* Courses marked with double asterisks may also be counted toward TS 1 requirements.

#### **Specific Departmental Requirements:**

**Soc 100S Social Issues	4
Soc 200 Social Change and Human Services	4
Soc 210W Social Inquiry and Research Methods	4
Soc 300W Theories of Social and Personal Life	4
Soc 320 Community Service Practicum	8
Soc 421 Contemporary Social Analysis in the Southwest	4
Soc 496 Senior Seminar	4
<b><i>Subtotal Specific Departmental Requirements</i></b>	<b>32</b>

#### **Writing Course Within Discipline:**

Included in Specific Departmental Requirements above.

#### **Other Departmental Requirements:**

A minimum of 12 additional credits in Sociology/Human Services	12
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<b><i>Total Departmental Requirements</i></b>	<b>44</b>
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Free Electives (variable)

<b>TOTAL REQUIRED FOR GRADUATION</b>	<b>120</b>
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Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

#### **REQUIREMENTS FOR A MINOR IN SOCIOLOGY/HUMAN SERVICES:**

Completion of 20 credits in Sociology/Human Services of which a minimum of 12 credits are in upper-division courses.



# School of Arts and Sciences

## Southwest Studies

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### Course listings for Southwest Studies

#### **Professors**

Richard N. Ellis  
Andrew J. Gulliford  
Mary Jean Moseley  
Duane A. Smith

#### **Associate Professor**

Richard M. Wheelock

The Southwest Studies major is designed to be a truly interdisciplinary program that introduces students to a variety of academic disciplines. The interdisciplinary nature of the program permits it to be tailored to the needs of individual students. Students are required to take approved coursework in a minimum of four different departments. Students majoring in Southwest Studies must receive advising from one of the faculty members of the department.

A major in Southwest Studies will consist of 45 hours of coursework with at least 27 credit hours at the 300- and 400-levels. Courses on the Southwest must be taken in at least four different subject areas such as anthropology, art, history, language, literature, sociology, economics, geology, and Southwest Studies. At least 18 credit hours must have a Southwest prefix. Students will also take a three-hour senior seminar in Southwest Studies.

All majors are required to take at least one year of Spanish or one year of a southwestern Indian language.

A major in Southwest Studies prepares students for careers in state and local governments, museum work, and other occupations as well as admission to graduate school. Students majoring in Southwest Studies may be certified to teach in the broad area of social studies at the secondary level. To obtain requirements for teacher certification, please contact the Department of Teacher Education.

A minor in Southwest Studies will consist of 18 hours of coursework on the Southwest in at least three subject areas. At least nine hours will be upper division. A minor in Native American Studies and a minor in Heritage Preservation are administered within the Department of Southwest Studies. Requirements for those two minors are detailed below.

**REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN SOUTHWEST STUDIES:**

<b>Courses:</b>	<b>Credits:</b>
General Education	35-46

\*\* Courses marked with double asterisks may also be counted toward TS 1 requirements.

**Specific Departmental Requirements:**

Southwest courses must be taken in at least four of the following subject areas: anthropology, art, history, modern languages, literature, sociology, economics, geology, and southwest studies.

Courses from these areas that are approved for this purpose are listed below.

At least 27 credit hours must be at the 300 and 400 level. At least 18 credit hours must have a Southwest prefix.

SW 301W "Writing in SW Studies Discipline," OR a "W" course in a field related to Southwest Studies and Southwest 496 Senior Seminar in Southwest Studies are required.

Subtotal Southwest Studies Requirements	45
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**Language Requirement**

At least one year of Spanish or one year of a Southwest tribal language	6-8
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Free Electives (variable)

<b>TOTAL REQUIRED FOR GRADUATION</b>	<b>120</b>
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Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

**Approved Courses for Southwest Studies**

Anth 220 Colorado Archaeology

Anth 259 Field Training in Archaeology (if on a Southwest topic)

Anth 330 Archaeology of the Southwest

Anth 350 Ethnology of Mesoamerica

Anth 360 Legal and Ethical issues in Archaeology

Anth 388 Ethnology of the Southwest

Anth 403 Advanced Archaeological Field Techniques (if on a Southwest topic)

Anth 406 Ethnobotany of the Southwest

Anth 430 Advanced Studies in Southwestern Archaeology

Art 154/SW 154 Indian Arts and Crafts I

Art 265/SW 265 Art History of the Southwest

Art 365 Mesoamerican Art History

\*\*Bio 250Nx/\*\*SW 250Nx Ecology of the Southwest

Bio 385 Desert Biology

Bio 471 Field Ecology (if on a Southwest topic)  
\*\*Engl 280R Literature of the Southwest  
Engl 380/SW 380 Native American Literature: Topics  
\*\*Geol 150N Geology of the Southwest  
Hist 181/SW 181 U.S./Southwest Environmental History  
\*\*Hist 270R Colonial Latin America  
\*\*Hist 271S Latin America Since Independence  
Hist 320/SW 320 Western American History  
Hist 322/SW 482 Western American Mining  
Hist 324/SW 481 Colorado History  
Hist 373 History of Mexico  
ML 100SW 100 Fundamentals of Navajo Language I  
ML 101/SW 101 Navajo Language II  
ML 115 Elementary Spanish I  
ML 116 Elementary Spanish II  
ML 215 Intermediate Spanish I  
\*\*ML 216R Intermediate Spanish II  
ML 318 Advanced Spanish of the Southwest  
ML 330 Mexican Readings  
ML 331 Chicano Literature  
ML 337 Survey of Spanish American Literature  
ML 427 Hispanic American Novel and Poetry  
ML 429 Mexican Literature  
Phil 320 Indigenous Worldviews  
Phil 382 Philosophies of the Southwest  
PS 400 Native American Law and Politics  
\*\*Soc 250R Social Issues in Contemporary Native Societies  
Soc 279 Ethnicity, Gender, and Class in the Southwest  
Soc 421 Contemporary Social Analysis in the Southwest  
SW 100/ML 100 Fundamentals of Navajo Language I  
SW 101/ML 101 Navajo Language II  
SW 115 Native American Newsletter

\*\*SW 123R American Indian History  
SW 125 History of Hispanos in the Southwest  
\*\*SW 131N Southwest History and Culture  
SW 135 The Southwest I  
SW 136 The Southwest II  
SW 181/Hist 181 Southwest Environmental History Survey  
SW 154/Art 154 Indian Arts and Crafts I  
SW 155 Indian Arts and Crafts II  
\*\* SW 250Nx/Bio 250Nx Ecology of the Southwest  
SW 255 Introduction to Heritage Preservation  
SW 256 Introduction to Museums  
SW 265/Art 265 Art History of the Southwest  
SW 280 Native American in the Modern World  
SW 282 Hispano Culture of the Southwest  
SW 315 Native American Newswriting  
SW 317 History of American Indians in Film  
SW 320/Hist 320 Western American History  
SW 322 American Indian Philosophies  
SW 323 Southwest Indian History  
SW 326 West and Southwest in Film and Fiction  
SW 327 American Indians and the Mass Media  
SW 330 Cowboys, Cattlemen, and Popular Culture  
SW 340 Archival Theory and Practice  
SW 341 Oral History: Theory and Practice  
SW 342 Interpretation of Cultural Resources  
SW 355 Development of United States Indian Policy  
SW 360/Art 365 Mesoamerican Art History  
SW 365 Hispanic Civilization  
SW 375 Hispanic-American Civilization  
SW 380/Engl 380 Native American Literature: Topics  
SW 381 Chicano Literature  
SW 383 Southwest History to 1868

SW 384 Southwest History, 1868 to Present  
 SW 402 Contemporary Art and Literature of the Southwest  
 SW 450 Tribal Preservation  
 SW 481/Hist 324 Colorado History  
 SW 482/Hist 322 Mining in the American West  
 SW 491 Practicum in Southwest Studies  
 SW 493 Internship in Southwest Studies  
 SW 496 Senior Seminar in Southwest Studies  
 SW 499 Independent Study

### **Heritage Preservation Minor In the Department of Southwest Studies Coordinator**

Professor Andrew J. Gulliford

#### **Departments of Southwest Studies and History**

The minor in Heritage Preservation will allow liberal arts majors at Fort Lewis College to explore career options in the fields of public history, cultural resources interpretation and management, and archival and museum studies. Students will utilize the vast collections of the Center of Southwest Studies in the new \$7.6 million building for their coursework. Structured internships and practicums that are both local and regional will provide one-on-one mentored relationships with area professionals and with staff from federal agencies such as the U.S. Forest Service, the National Park Service, and the Bureau of Land Management.

Note: No more than one course from your major department will count toward this minor.

**A total of 18 credits are required; at least nine credits must be upper division.**

#### **Required courses:**

SW 255 Introduction to Heritage Preservation  
 SW 491 Practicum in Southwest Studies

#### **Credits:**

3  
 3

#### **Electives:**

12 credits selected from the following with the approval of the Heritage Preservation coordinator.

SW 256 Introduction to Museums  
 SW 340 Archival Theory and Practice  
 SW 341 Oral History Theory and Practice  
 SW 342 Interpretation of Cultural Resources

3  
 3  
 3  
 3

SW 450 Tribal Preservation	3
SW 493 Internship in Southwest Studies	3
SW 499 Problems in Southwest Studies	3
<b>Electives from the Department of Anthropology:</b>	
Anth 330 Archaeology of the Southwest	3
Anth 388 Ethnology of the Southwest	3
Anth 390 Historical Archaeology	3
<b>Electives from the Department of Southwest Studies:</b>	
SW 323 Southwest Indian History	3
SW 383 Southwest History to 1868	3
SW 384 Southwest History Since 1868	3
SW 481 Colorado History	3
SW 482 Western American Mining	3
<b>TOTAL CREDITS REQUIRED FOR THE MINOR</b>	<b>18</b>

At least nine credits must be upper division.

Native American Studies Minor In the Department of Southwest Studies Coordinator Richard M. Wheelock, Associate Professor Department of Southwest Studies

Native American Studies is an interdisciplinary minor that is intended to provide important support for any major a student might select that could lead to a career in or near Indian Country. For those who live and work there, the unique conditions created by the long history of Indian affairs and the present policy of Indian self-determination warrant a special orientation to the cultural, social, political, and economic aspirations and potential of America's indigenous people.

Students who minor in Native American Studies will be required to take a total of 15-19 credits, including the core courses for the minor listed below and at least one course from each of the study areas listed below. In doing so, they may select courses that complement their major and contribute to their preparation for careers that demand an understanding of the dynamics of Indian communities.

Students who wish to complete a minor in Native American Studies should consult their advisor and a member of the Department of Southwest Studies, in which the minor is located.

A total of 18 credits are required; at least nine credits must be upper division. Note: No more than one course from your major department will count toward this minor.

**TWO REQUIRED COURSES:**

\*\*SW 123R American Indian History 3

AND

**one of the following two:**

\*\*Soc 250R Social Issues in Contemporary Native American Societies 4

OR

SW 280 Native American in the Modern World 3

**Choose at least one Course (literature, arts, & media):**

Art 365 Mesoamerican Art History 3

Art 154/SW 154 Indian Arts/Crafts I 3

Art 155 Indian Arts/Crafts II 3

Engl 380/SW 380 Native American Literature: Topics 4

SW 317 History of American Indians in Film 3

SW 327 American Indians and the Mass Media 3

SW 115 Native American Newsletter 3

SW 315 Native American Newswriting 3

Thea 382 American Indian Theatre 4

**Choose at least one Course (culture, language, & cosmology):**

Anth 306 Plains Archaeology 4

Anth 330 Archaeology of the Southwest 4

Anth 388 Ethnology of the Southwest 4

Anth 351 Andean South America 4

Anth 371 Amazonian South America 3

Anth 406 Ethnobotany of the Southwest 4

Ed 331 Southwest Minority Child in the Classroom 3

ML 100/SW 100 Fundamentals of Navajo Language I 3

ML 101/SW 101 Navajo Language II	3
SW 322 American Indian Philosophies	3
<b>Choose at least one Course (economics, politics, &amp; law):</b>	
PS 400 Native American Law and Politics	4
**Soc 250R Social Issues in Contemporary Native Societies	4
SW 323 Southwest Indian History	3
SW 355 Development of United States Indian Policy	3
SW 280 Native American in Modern World	3
<b>TOTAL CREDITS REQUIRED FOR THE MINOR</b>	<b>15-19</b>

At least nine credits must be upper division.



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### **SW 100ML 100 Fundamentals Of Navajo Language I (3-0) 3**

A course in the basic fundamentals of the Navajo language on the oral-aural approach. The instructor is a native speaker and much use is made of tapes, etc.

### **SW 101/ML 101 Navajo Language II (3-0) 3**

Continuation of Navajo I. Whereas Navajo I emphasized speaking, this course will center on reading and writing the Navajo language.

Prerequisites: SW 100/ML 100 or consent of instructor.

### **SW 115 Native American Newsletter (3-0) 3**

For lower-division students with good writing skills. Students will prepare six stories for publication in the Intercultural News, gaining basic skills in newswriting for a specific readership, Macintosh computer format, photo taking, and news layout and design. Coursework will include concepts pertinent to contributing to communications in "Indian Country." May be taken twice for credit.

### **SW 123R American Indian History (3-0) 3**

The history of Indians of the United States from contact to the present.

### **SW 125 History Of Hispanos In The Southwest (3-0) 3**

A study of the history of the Hispanos in the American Southwest from the period of exploration to the Chicano Movement in the 1960s and 1970s. For the purposes of this course the Southwest is defined as including the geographic area under Spanish and Mexican sovereignty before 1848.

### **SW 131N Southwest History And Culture (3-0) 3**

A broad introduction to Southwestern history and cultures with lectures on history, archaeology, literature, art, and other related topics.

### **SW 135R The Southwest I (4-0) 4**

The course will feature an interdisciplinary approach for examining the uniqueness of the Southwest. Students will examine the geological, biological, historical, and cultural diversity of the Southwest. Major problems confronting this region will be explored.

### **SW 136 The Southwest II (4-0) 4**

This course concentrates on contemporary practical and conceptual problems and issues such as indigenous land rights, the environment, tourism, economic development, water, racism, the U.S./Mexico border, labor, demographics, among others. Emphasis will also be given to creative problem solving that draws on multicultural and interdisciplinary sources.

### **SW 154 Indian Arts And Crafts I (0-6) 3**

This course is the same as Art 154; credit will be given for only one of these courses. For description of course, see Art. Fall and winter terms.

### **SW 155 Indian Arts And Crafts II (0-6) 3**

A course which may include such media as weaving, silversmithing, pottery work, leathercraft, bead work, and basketry. Offered on demand. Fall and winter terms.

### **SW 181 U.S./Southwest Environmental History (3-0) 3**

This course explores the environmental history of the U.S. from pre-European contact through today, with a focus on the West/Southwest. The course will look at how the land and culture(s) interacted to reorganize and redefine one another, the relationship between environmental and cultural change, and how the present is linked to the past. This course is the same as Hist 181; credit will be given for only one of these courses.

### **SW 250Nx Ecology Of The Southwest (3-2) 4**

This course provides an understanding of the scientific method by investigating the ecology of the Southwest. Through field trips and research projects, students learn to recognize major plant and animal species, and ecological factors that limit species distribution and abundance. Lectures and readings provide insights into major ecological processes, e.g., population growth, food webs, and natural disturbances. Fall term only. This course is

the same as Bio 250; credit will be given for only one of these courses.

### **SW 255 Introduction To Heritage Preservation (3-0) 3**

The Introduction to Heritage Preservation course will introduce students to a number of career paths in public history, archives, museums, and interpretation within federal agencies like the U.S. Forest Service, the National Park Service, the Bureau of Land Management and tribal cultural preservation programs. Field trips, guest speakers, and group projects will be featured.

### **SW 256 Introduction To Museums (3-0) 3**

Introduction to Museums will enable students to learn about a wide facet of museum careers in art, culture, and history museums and in the interpretation of culture and historic sites. Students will get hands-on experience with the numerous collections at the Center of Southwest Studies. Field trips, guest speakers, and group projects will be featured.

### **SW 265 Art History Of The Southwest (3-0) 3**

This course is the same as Art 265; credit will be given for only one of these courses. For description of course, see Art.

### **SW 280 Native American In The Modern World (3-0) 3**

An advanced study of contemporary affairs that involve the American Indian. The historical beginnings, development, and current significance of issues will be studied.

### **SW 282 The Hispano Culture Of The Southwest (3-0) 3**

This course examines the culture of the Hispanos in the Southwest. The material is studied from an ethnohistorical perspective, i.e., how the culture developed from the Spanish colonial period to the present. Ideal culture and real culture are contrasted in the course in order to understand the dynamics of culture and its constant evolution.

### **SW 301W Writing In The Southwest Studies Discipline (3-0) 3**

This course fulfills the writing requirement for the Southwest Studies major. Students will study methods of writing of established scholars in the field and produce their own written materials appropriate for Southwest Studies. Offered on demand.

Prerequisites: Comp 150, Lib 150.

### **SW 315 Native American Newswriting (3-0) 3**

For upper-division students with good writing skills. In addition to the requirements for the SW 115 level course, students will work with and edit stories for students in the 115 class. May be taken twice for credit.

Prerequisites: Comp 150, Lib 150, and consent of instructor.

### **SW 317 History Of American Indians In Film (3-0) 3**

An analysis of the treatment of American Indians in film. It also will relate film images to images in literature and other media.

Prerequisites: Comp 150, Lib 150.

### **SW 320 Western/Southwest American History (3-0) 3**

This course will focus on the 19th century American west. Using the theme of expansionism, the course will look at the interaction between cultures and people in the West, the forces that produced a unique section of the country, the creation of the mythic West and its enduring legacy, and how the present is linked to the past in the trans-Mississippi West. Winter term, alternate years. This course is the same as Hist 320; credit will be awarded for only one of these courses.

### **SW 322 American Indian Philosophies (3-0) 3**

The course will look at the various aspects of American Indian philosophies and the manifestations of those philosophies. The course will study both traditional philosophies and those which have been changed through contact with American society.

Prerequisites: Comp 150, Lib 150.

### **SW 323 Southwest Indian History (3-0) 3**

Studies the history and culture of Native American groups in the Southwest.

Prerequisites: Comp 150, Lib 150.

### **SW 326 West And Southwest In Film And Fiction (3-0) 3**

An analysis of the treatment of the West and Southwest in film and fiction.

Prerequisites: Comp 150, Lib 150.

### **SW 327 American Indians And The Mass Media (3-0) 3**

The Native Peoples of North America have been the subjects of a virtual war of misinformation since first contacts with Europeans. American mass media still cast images of Indian people that serve to trivialize their concerns and confound their attempts to remain culturally distinct and sovereign peoples. Students in this course will appraise the process and effects of stereotyping of Indian people in the mass media and learn of the responses of today's Indian media professionals. Issues of cultural dominance and new media technologies will also be examined. Students will evaluate media materials through written research and oral presentations and produce media products to counter the problems created for Indian people by the mass media.

Prerequisites: Comp 150, Lib 150.

### **SW 330 Cowboys, Cattlemen, And Popular Culture (3-0) 3**

This course focuses upon the cattle industry in the United States. The approach is interdisciplinary and will include history, folklore, music, art, and literature. Contemporary issues such as those related to grazing policies, image of the cowboy, and rodeo will also be included.

Prerequisites: Comp 150, Lib 150.

### **SW 340 Archival Theory And Practice (4-0) 4**

The tools and approaches taught in this course should be useful to anyone who aims at making a difference in today's information age. In addition to learning organizational principles from the archival profession, students will examine and implement effective and efficient ways of storing, accessing, and selectively preserving data. Classes are supplemented by archival work in the Center of Southwest Studies.

### **SW 341 Oral History: Theory And Practice (3-0) 3**

This course uses interactive listening to provide an understanding of the theory and practice of producing oral histories. It will benefit a budding historian, anthropologist, folklorist, sociologist, or archivist, and anyone wanting to improve listening skills and desiring to preserve an otherwise undocumented aspect of our past. Participants practice oral history interviewing and transcription. The final product is a transcribed oral history interview of sufficient historical research value to warrant inclusion in the Center of Southwest Studies collection.

### **SW 342 Interpretation Of Cultural Resources (3-0) 3**

This course is designed to prepare students in the interpretation of cultural resources and to create awareness of Native American perspectives regarding cultural resources.

### **SW 355 Development Of United States Indian Policy (3-0) 3**

This course traces the development of United States policy toward the American Indians. Beginning with the policies inherited from European colonizers, the federal government developed expedient policies to balance the desires of its own citizens with the Indian peoples' legal rights and hopes for continued tribal survival. The course documents the opposing concepts of assimilation and segregation that have led to the present philosophy of pluralism and self-determination in United States Indian policy.

Prerequisites: Comp 150, Lib 150.

### **SW 360 Mesoamerican Art History (3-0) 3**

This course is the same as Art 365; credit will be given for only one of these courses. See Art 365 for course description.

Prerequisites: Comp 150, Lib 150.

### **SW 365 Hispanic Civilization (3-0) 3**

Contributions of Spain and Portugal to the building of western civilization. Topics include: Great Age of Exploration, golden Age of Spanish-Portuguese Civilization, Masterworks of Literature, and History of Ideas. Offered on demand.

Prerequisites: Comp 150, Lib 150.

### **SW 375 Hispanic-American Civilization (3-0) 3**

The literature, culture, thought, art, anthropology, history, geography, and contemporary position of Hispanic-American civilization. Offered on demand.

Prerequisites: Comp 150, Lib 150.

### **SW 380 Native American Literature: Topics (4-0)**

4 A study of traditional and contemporary Native American expression as seen through oration, tales and legends,

chants and songs, poetry, drama, autobiography and the novel. Fall and winter terms. This course is the same as Engl 380; credit will be awarded for only one of these courses.

Prerequisites: Comp 150, Lib 150.

### **SW 381 Chicano Literature (3-0) 3**

This course is the same as ML 331. See ML 331 for course description.

Prerequisites: Comp 150, Lib 150.

### **SW 383 Southwest History To 1868 (3-0) 3**

This course will cover the Spanish, Mexican, and early territorial periods in the Southwest, concluding with the end of the Civil War and the Navajo treaty of 1868.

Prerequisites: Comp 150, Lib 150.

### **SW 384 Southwest History, 1868 To Present (3-0) 3**

This course will cover the political, social, and economic history of the Southwest from 1868 to the present.

Prerequisites: Comp 150, Lib 150.

### **SW 402 Contemporary Art And Literature Of The Southwest (3-0) 3**

The course will conceptualize the Southwestern artist in terms of spirit and place, or broadly speaking, the effect the landscape has upon art and the artists. In addition, the course will focus on critical issues such as marketing of ethnicity, repatriation, looting of archaeological sites and the artifact black market, curating major exhibits, and displaying of and writing about the sacred.

Prerequisites: Comp 150, Lib 150.

### **SW 450 Tribal Preservation (3-0) 3**

Tribal Preservation will introduce students to all aspects of tribal historic preservation and cultural resource management on Indian lands. Using a case study approach, students will learn how to preserve and protect sacred objects and sacred places and explore career options with native programs. Field trips and guest speakers will be featured.

Prerequisites: SW 131 or 135; SW 250Nx.

### **SW 481 Colorado History (3-0) 3**

The history and peoples of Colorado from the preterritorial days through the present. This course is the same as Hist 324; credit will be given for only one of these courses.

Prerequisites: Comp 150, Lib 150.

### **SW 482 Mining In The American West (3-0) 3**

From the days of the Spanish to today, a history of mining and its impact, with special emphasis on the Southwest. This course is the same as Hist 322; credit will be given for only one of these courses.

Prerequisites: Comp 150, Lib 150.

### **SW 491 Practicum 3**

As an integral part of a heritage preservation certificate, the Southwest Studies practicum will provide valuable work-related experience in the Durango area for a minimum of 120 contact hours. Students may work on campus, in area museums, or with federal agencies involved in cultural preservation. This is a formal, mentored relationship to allow students to pursue career goals in the preservation field.

### **SW 493 Internship In Southwest Studies 3-6**

The internship offers instruction and hands-on experience in museology and archival management.

Prerequisites: Permission of instructor.

### **SW 496 Senior Seminar (3-0) 3**

Senior seminar in Southwest Studies.

Prerequisites: Comp 150, Lib 150.

### **SW 499 Independent Study 1-6**

A senior-level individual research project based on the needs and interests of the individual. Offered on demand.



Prerequisites: Comp 150, Lib 150, and consent of committee director.



# Student Responsibilities

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Students assume the responsibility to read the catalog, complete a minimum of 120 credits as outlined by the degree program, and maintain a minimum grade point average of 2.0 for those courses accepted to meet the requirements for the major.

Students will be assigned an advisor to help them with the appropriate course selections, but students assume the ultimate responsibility to know and complete all graduation requirements.

As a prospective student to Fort Lewis College, you have a right to request and annual report of campus crime statistics and security practices. This report includes specific crime statistics relating directly to the Fort Lewis College campus, as well as campus security policies on crime prevention and reporting procedures.

A full copy of the report is available [here](#), or if you would like a full copy of this report, please notify the Vice President for Student Affairs Office, Fort Lewis College, 1000 Rim Drive, Durango, Colo., 81301-3999.

Fort Lewis College does not discriminate on the basis of age, race color, sexual orientation, religion, national origin, sex, veteran status or disability in admission or access to, or treatment of employment in, its education programs or activities. Inquiries concerning Title VII, Title IX, Section 504, and Americans With Disabilities Act (ADA), may be referred to the Human Resources/Equal Opportunity Director, Fort Lewis College, 970-247-7428 or to the Office for Civil Rights, U.S. Department of Education, 1244 Speer Blvd., Suite 310, Denver, Colo., 80204, 303-844-5695.



# School of Education

## Course Listings for Teacher Education

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### Education Ed 200R Introduction To Education In America (4-0) 4

A study of the history, role, and governance of education in the United States, the role of schools in our society, the role of society in our schools, and basic foundations in educational thought. Students are introduced to basic methods and planning strategies. The course is prerequisite to acceptance into the Teacher Education licensure program and includes a minimum of thirty hours of field study. Field study will focus on the "career exploration" theme of the course, exposing students to the breadth of organizations, roles, and functions involved with the concept of schooling. This course requires 30 field study hours, 15 of which will be completed during the scheduled course time.

### Ed 210S Culture Of Childhood And Youth (4-0) 4

This course examines the experience of children and youth in America in the 21st Century and in American schools. It will explore the behaviors, beliefs, and influences of childhood and adolescence as young people mature into adulthood. Of prime importance are influences such as health care, nutrition, infectious disease, substance abuse, family influence, educational opportunity, social and ethnic status, juvenile justice, popular culture, and access to technology. The course requires a minimum of 30 hours of field study, 15 of which will be completed during the scheduled course time.

### Ed 289 Practicum In College Teaching (2-6) 1-3

Students establish a mentor relationship with a Fort Lewis College faculty member and assist in teaching a course. At least 30 hours of work are required for each credit. All work must be carefully monitored and discussed with the mentor.

Prerequisites: Consent of instructor.

### Ed 307 Introduction, Methods, And Practicum In Early Childhood (4-0) 4

An overview of the field of early childhood education, historical influences and present trends in teaching methodologies. Designed to provide students with a working knowledge of early childhood curriculum (birth-age eight) with an emphasis on assessment, curriculum planning and teaching strategies. Practicum includes 25 hours of observations and aiding in preschool/kindergarten settings.

### Ed 317W Professional Writing And Editing For Educators (3-0) 3

A course designed to teach writing and editing techniques common to the field of education. Through individual and collaborative activities students explore philosophical issues related to their future roles in the field. Emphasis is placed on effective communication and critical thinking activities.

Prerequisites: Comp 150, Lib 150.

### **Ed 327 Children's Literature (3-0) 3**

A study of all types of literature for children, development of criteria for evaluating books, and methods of creating in children a love of good books through a sound literature program in the elementary school. Fall and winter terms.

### **Ed 330 Human Relations In The Classroom (3-0) 3**

Designed to increase teacher effectiveness in the realm of interpersonal relations and group dynamics; analysis of individual and group behavior in a classroom setting; theoretical concepts and skill training in classroom management. Offered on demand.

### **Ed 331 The Southwestern Minority Child In The Classroom (3-0) 3**

Course is designed to provide a systematic analysis of the forces that shape the behavior of the Native American, Hispanic, and other minority children in an educational setting. Major emphasis will be placed on the development of an understanding of the differences in culture, value systems, attitudes, and feelings of these minority students as they relate to the education system. The goal is a change in teacher behavior given adequate information to reflect upon education from the minority perspective. Fall term, summer on demand.

### **Ed 332 Materials And Methods Of Bilingual Education (3-0) 3**

This course covers specialized methodology and materials to empower teachers to serve the needs of linguistically different students in bilingual settings. Current methods for teaching cognitive areas in other languages and English as a second language are covered. Students make specialized materials to meet future classroom needs. Offered on demand. Prerequisites: Consent of instructor.

### **Ed 333 Southwest Language Immersion For Teachers 1-3**

Language immersion is designed for prospective teachers who may encounter Native American languages and/or southwest Spanish dialects in the school community. It provides the student with basic oral skills in the languages and the respective course is taught almost entirely in the target language. Students may enroll for one, two, or all of the courses for a total of 3 credits. Offered on demand.

### **Ed 334 Methods Of Teaching English As A Second Language (3-0) 3**

This course is designed to provide specialized techniques and materials to appropriately teach students whose first language is not English, either in special programs or in the regular classroom. Diagnosis of need and reflective

prescription are emphasized. Students make materials fitting their ESL teaching goals. Offered on demand.

### **Ed 335 Educational Linguistics (3-0) 3**

This course is designed for teachers, particularly bilingual and ESL teachers, who need to convert the science of language to practical classroom application. The student will become familiar with the three types of grammar, will explore how language is learned, and will apply the science to reading, writing, spelling, vocabulary, and grammar instruction. Further, the student will explore the phenomenon of dialect and improve personal language skills.

### **Ed 353 Growth And Development Of The Young Child (2-1) 3**

A critical study of the whole child (the physical, emotional, cognitive, and social development) conception through early childhood. A special emphasis is placed on analyzing developmental stages as they relate to children in the school setting. Offered on demand. This course requires 15 hours of field study; 7.5 of those hours will be completed during scheduled class time.

Prerequisites: Admission to the Teacher Education Program

### **Ed 355 Methods And Techniques For Teaching Preschool Children (3-0) 3**

Designed to acquaint the student with the preschool curricula and methods of teaching children ages 1-6. The student will have the opportunity to discover creative activities and their implementation in the classroom. An eclectic approach will be used. Offered on demand.

Prerequisites: Consent of instructor.

### **Ed 357 Language Arts For The Young Child (2-0) 2**

A dynamic course offered to acquaint students with the latest theory and practices of emergent literacy programs. Emphasis is placed on a critical analysis of holistic language teaching strategies as well as traditional approaches; recent research in listening, speaking, reading and writing is considered. Students take an active role in the learning process through modeling various teaching strategies. Offered on demand.

Prerequisites: Admission to the Teacher Education Program, Ed 307 and Ed 353.

### **Ed 359 Creative Arts For The Young Child (2-0) 2**

Designed to acquaint the student with creative arts for young children with emphasis given to visual arts, creative movement, music, and physical education. The process of creative arts and its relationship to the development of young children is considered as developmentally appropriate practices are stressed. Offered on demand.

Prerequisites: Admission to the Teacher Education Program and Ed 307.

### **Ed 420 Instructional Media (3-0) 3**

A study of the importance of instructional media in the learning process; advanced principles underlying the selection and use of materials for instructional purposes; exploration of visual and auditory aids available to teachers in the elementary and secondary schools; and demonstration and achievement of skills in the use of instructional media in teaching. Offered on demand.

### **Ed 421 Individualized Instruction In Pluralistic Society (4-4) 6**

This course focuses on teaching in America's ever-increasing pluralistic society. Emphasis is placed upon learning to honor, understand, and celebrate gender, ethnic, linguistic, socioeconomic, physical, intellectual, and emotional differences among students. Students examine theory, practice, and classroom management proven successful in educating students from diverse settings with unique needs. Sixty hours of field study are required for this course, 30 of which will be during the scheduled class time.

Prerequisites: Ed 200.

### **Ed 424 Language And Math Literacy In Secondary (2-4) 4**

The course provides secondary school teachers with the skills to teach reading, writing, and math across the various secondary disciplines. Emphasis will be placed on helping teachers recognize the opportunities in their classes where they can highlight improving basic skills in math and reading. Sixty hours of field study are required for the course; thirty of which will be during the scheduled class time.

Prerequisites: Ed 200.

### **Ed 425 Science And Technology Methods For Elementary School Teaching (3-2) 4**

This course focuses on the use of the Colorado Performance Based Standards for Teachers as well as Colorado Content Standards as they apply to teaching science and technology in an elementary school setting. In this students will learn exciting and challenging strategies for teaching science and technology concepts and skills; focusing on critical thinking, problem solving, inquiry, constructivism, and reflective practice. Students will plan, implement and assess science and technology lessons in an elementary school setting. The culminating assignment will be a well-developed unit plan for implementation in an elementary school setting. There are 30 hours of field study required for the course, 15 of which will be completed during the scheduled class time.

Prerequisites: Ed 200 and Ed 210S.

### **Ed 426 Mathematics And Social Studies Methods For Elementary School (3-2) 4**

This course focuses on the use of the Colorado Performance Based Standards for Teachers as well as Colorado Content Standards as they apply to teaching mathematics and social studies in an elementary school setting. Students will plan, implement and assess mathematics and social studies lessons in an elementary school setting.

This course has 30 hours of required field study; 15 of which will be completed during the scheduled course time.

Prerequisites: Ed 200 and Ed 210S.

### **Ed 451 Preschool Teaching Practicum And Multicultural Seminar (2-2) 3**

A minimum of 30 hours in a teaching role is spent in the preschool setting coupled with an on-campus seminar stressing multicultural education. Attention is given to developing the knowledge and skills needed to plan multicultural curriculums for young children. Offered on demand.

Prerequisites: Admission to the Teacher Education Program, Ed 307, Ed 359, and consent of instructor.

### **Ed 452 Nutrition For Young Children (3-0) 3**

The focus of this course is the health and nutrition of young children through providing adequate, appropriate and appealing meals and snacks in group settings. The course includes a study of Colorado DSS licensing requirements, special nutrition needs, food inventories, and planning a nutrition program (birth-8 yrs).

Prerequisites: Ed 200.

### **Ed 453 Cognitive Skills For The Young Child (3-2) 4**

A critical evaluation of teaching strategies for integrating mathematics, social studies, and science in early childhood classrooms. Learning experiences and materials are designed to develop sensory awareness as Piagetian theory of cognitive development is analyzed. Students become familiar with activities such as cooperative learning, thematic unit planning, direct teaching, Piaget's teaching-learning cycle, and the integrated teaching approach. This course requires 30 hours of field study; 15 of these hours will be completed during scheduled class time. Offered on demand.

Prerequisites: Admission to the Teacher Education Program, ED 200, Math 215.

### **Ed 456 Early Childhood Administration/Parent, Community Relations (2-1) 3**

An analysis and evaluation of current educational programs for young children as well as emphasis on development of skills to develop programs commensurate with the needs of children, curriculum, staffing, administration, and more. Also explores important and complex roles of parents in the educational development of young children. Assists prospective teachers in developing skills to aid parents in guiding their children. Community resources and services are included. This course requires 15 hours of field study; 7.5 of which will be completed during class time. Offered on demand.

Prerequisites: Admission to the Teacher Education Program and should be taken the semester prior to student teaching or consent of instructor.

### **Ed 457 Secondary Education Core Of Satellites 5**

The CORE integrates content from eleven education areas (satellites) for a comprehensive and cohesive establishment of a theoretical framework for teaching. Taken concurrently with Ed 458 and practica, the CORE provides the student with a foundation for effective practice.

Prerequisites: Admission to the Teacher Education Program.

### **Ed 458 Secondary Education Satellites Research 6**

Students concurrently enrolled in Ed 457 will select a minimum of six of the CORE satellites to study in-depth through reading and research. Students can make selection of the satellite (topics) based on needs/aspirations within the field of education.

Prerequisites: Admission to the Teacher Education Program.

### **Ed 459 Nutrition, Health And Safety Of Young Children (2-1) 3**

The focus of this course is the nutrition and health of young children through providing adequate, appropriate and appealing meals and snacks in group settings. The course includes a study of Colorado Department of Social Services licensing requirements, special nutritional needs, food inventories and planning a nutrition program (birth-8 years). In addition, safety needs and common safety issues for young children will be explored. This course requires 15 hours of field study, 7.5 of which will be completed during scheduled course time.

Prerequisites: Admission to the Teacher Education Program.

### **Ed 470 Middle School History And Philosophy (2-0) 2**

This course will provide the prospective middle school teacher with knowledge about the philosophy, historical development and characteristics of the middle school. Offered on demand. Prerequisites: Admission to the Teacher Education program Ed 308/309, and Middle School Advisor approval. Ed 471 Middle School Organization, Methods, And Materials (4-0) 4 This course will provide the prospective middle school teacher with knowledge concerning various organizational schemes, methods, and materials found at the middle school level. Offered on demand.

Prerequisites: Admission to the Teacher Education Program, Ed 308 or 309, and Middle School Advisor approval.

### **Ed 472 Communication Skills For Young Adolescents (3-0) 3**

This course will provide the prospective middle school teacher with knowledge concerning the development of oral and written communication skills at the middle school level.

Prerequisites: Admission to the Teacher Educating program, Ed 308/309, and Middle School Advisor approval.

### **Ed 473 Psychology Of Young Adolescents (3-0) 3**

The course will provide the prospective middle school teacher with knowledge about the characteristics and special needs of young adolescents.

Prerequisites: Admission to the Teacher Education program, Ed 308/309, and Middle School Advisor approval.

### **Ed 488 Seminar And Practicum In College Teaching (1-2 or 1-4) 2-3**

A course designed for students in all academic disciplines who are interested in gaining knowledge and experience in teaching at the college level, especially students planning to attend graduate school with a teaching assistantship. The seminar portion of the course includes discussion of such topics as: learner/student characteristics, characteristics of good teaching, course outline of syllabus, lesson planning, goals and objectives, teaching techniques and methods, instructional aids, testing and grading. The practicum portion of the course consists of a mentor relationship with a Fort Lewis College faculty member in which the student arranges to assist the instructor with a course in his/her academic discipline. The student spends a minimum of 40 hours during the term working with the instructor in all aspects of that course. Fall and winter terms. Repeatable once with consent of instructor.

### **Ed 489 Advanced Practicum In College Teaching (2-6) 1-3**

Students establish a mentor relationship with a Fort Lewis College faculty member and assist in teaching a course. At least 30 hours of work are required for each credit. All work must be carefully monitored and discussed with the mentor.

Prerequisites: Ed 289 or Ed 488 and consent of instructor.

### **Ed 490 Advanced Topics In Education (1-3)**

Designed to accommodate the needs or requests of school systems, teachers, or Fort Lewis College students who seek credit for topics of immediate concern. Course topic will be one not normally or regularly available through another course offering. Offered on demand.

### **Ed 492 Lab Experience And Seminar In The Kindergarten/Primary (1-2) Setting 1-15**

Includes observation, participation, teaching, and allied activities under the direction of a selected, regular teacher in an elementary school in consultation with college consultants. Periodic seminars are offered.

Prerequisites: Admission to student teaching.

### **Ed 494 Laboratory Experience And Seminar In The Elementary School (1-15)**

Includes observation, participation, teaching and allied activities under the direction of a selected regular teacher in an elementary school in consultation with college consultants. Periodic seminars are offered. Fall and winter terms.

Prerequisites: Admission to student teaching.

### **Ed 495 Laboratory Experience And Seminar In The Secondary School 1-15**

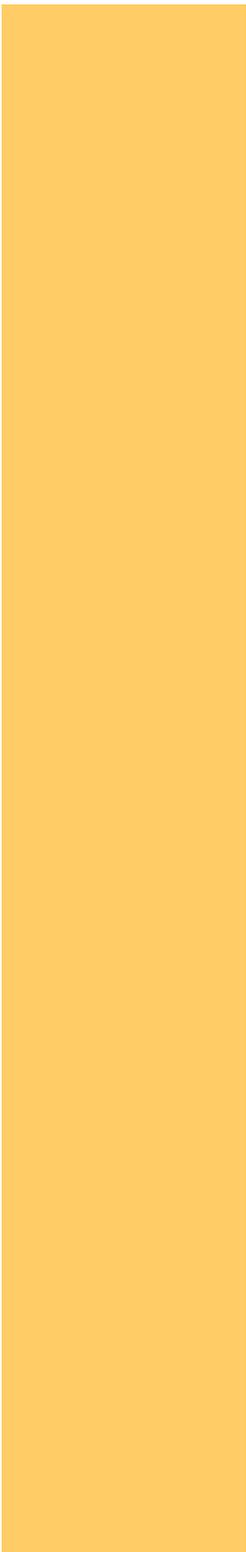
Includes observation, participation, teaching, and allied activities under the direction of a selected regular teacher in a secondary school in consultation with college consultants. Periodic seminars are offered. Offered every term.

Prerequisites: Admission to student teaching.

### **Ed 499 Independent Study 1-6**

Individual research is conducted under the supervision of a faculty member. Offered every term.

Prerequisites: Approval of instructor and department chair after submittal of formal request form available from the Teacher Education Department.







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## Teacher Education

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### Professors

Virginia A. Engman  
Stephen A. Roderick

### Associate Professors

Cheryl D. Clay  
Joe Lounge  
Linda L. Simmons  
Gene Taylor

### Assistant Professors

Tim Cashman  
Maggie Cason

### Visiting Instructors

Susan Martinez  
Jennifer Trujillo

### Teacher Licensing Officer

Judith B. Kennedy

Fort Lewis College has redesigned its Teacher Education Programs to meet the new statutory requirements, including the ability of a student to complete the graduation requirements in four academic years and 800 hours of field experience. It is essential that the students consult with their assigned Teacher Education Advisor, Major Advisor and the Teacher Licensing Officer regarding the Teacher Education Program, approved major and requirements necessary for licensure.

The FLC Teacher Education Department (TED) endeavors to attract individuals with a high potential for successfully completing teacher preparation courses and fieldwork. The Teacher Licensing Officer provides information, admits the student to the Teacher Education Program, assigns the Teacher Education Advisor and provides all information regarding licensure. Each faculty member serves as the contact person for curriculum advising. All department members relate closely with the Licensing Officer to provide timely and accurate information concerning admission,

coursework and fieldwork completion necessary to become a licensed teacher in Colorado.

### **TEACHER LICENSING PROGRAMS OFFERED AT FORT LEWIS COLLEGE INCLUDE:**

#### *Early Childhood Education:*

Students seeking teacher licensing at the early childhood level (Preschool-3rd grade) shall complete a baccalaureate degree and the early childhood licensing sequence. The major required for the baccalaureate degree is Interdisciplinary Studies. Consult an Early Childhood Program advisor for details (Cheryl Clay). The student must take and pass the Early Childhood PLACE content exam for licensure.

#### *Elementary Education (Middle Childhood):*

Students seeking teacher licensing at the elementary level (K-6) shall complete a baccalaureate degree and the elementary education licensing sequence. The major required for the baccalaureate degree is Interdisciplinary Studies. Consult a middle childhood education advisor for details (Maggie Cason, Susan Martinez, Linda Simmons, or Jennifer Trujillo). The student must pass the Elementary PLACE content exam for licensure.

#### *Secondary Education (Young Adult):*

Students seeking licensing at the young adult level (grades 7-12) shall complete a baccalaureate degree, the secondary professional sequence and Colorado Department of Education endorsement standards. Endorsement sheets are available in Room 244 or 246 Education Business Hall. Licenses are offered in Biology, Chemistry, Earth Science, English, Mathematics, Physics, Social Studies, and Spanish. Majors recommended for each of the Secondary licenses include: English, Mathematics, Biology for Secondary Education, Chemistry for Secondary Teachers, Earth Science for Secondary Education, History, Physical Science for Secondary, and Spanish. Consult a secondary education advisor for details (Tim Cashman, Joe Lounge or Gene Taylor). The student must pass the PLACE content exam for licensure.

#### *K-12 Education:*

Students may seek licensing for grades K-12 in Art, Music, and Physical Education. Students shall complete a baccalaureate degree, the K-12 licensing program, and the Colorado Department of Education Endorsement Standards. Endorsement sheets are available in Room 244 or 246 Education Business Hall. Majors currently recommended for each of the K-12 licenses include: Art, Music Education, and Exercise Science. Contact any education advisor and major advisor for details. The student must pass the PLACE content exam for licensure.

### **ADD-ON ENDORSEMENTS INCLUDE:**

#### *Bilingual:*

Students seeking licensure at any level can add on a bilingual education endorsement. The student must pass a

language competency exam in Spanish, Navajo, or another southwestern language in addition to the required bilingual courses. The student must pass the Bilingual PLACE content exam for licensure. Contact the Bilingual/ESL faculty for more details (Linda Simmons or Jennifer Trujillo). The endorsement sheets are provided by the Teacher Licensing Officer.

*English as a Second Language:*

Students seeking licensure at any level can add on an English as a Second Language (ESL) endorsement. Although no second-language competence is required, some facility in a non-English language is recommended. The ESL PLACE Content Exam must be passed for licensure. Contact the Bilingual/ESL faculty for more details (Linda Simmons or Jennifer Trujillo). The endorsement sheets are provided by the Teacher Licensing Officer. Early Childhood: Students may add on Early Childhood Endorsement to a middle childhood (elementary) license by completing the requirements for Middle Childhood Licensing and a minimum number of additional hours. The Early Childhood PLACE Content Exam must be passed for licensure. Consult an Early Childhood Program advisor for details (Cheryl Clay). The endorsement sheets are provided by the Teacher Licensing Officer.

**PERFORMANCE-BASED STANDARDS FOR COLORADO TEACHERS:**

The following shall serve as standards for the licensing of all teacher education candidates in Colorado and reflect the knowledge and skills required of beginning teachers.

*Standard One: Knowledge of Literacy.*

The teacher shall be knowledgeable about student literacy development in reading, writing, speaking, viewing, and listening.

*Standard Two: Knowledge of Mathematics.*

The teacher shall be knowledgeable about mathematics and mathematics instruction.

*Standard Three: Knowledge of Standards and Assessment.*

The teacher shall be knowledgeable about strategies, planning practices, assessment techniques, and appropriate accommodations to ensure student learning in a standards-based curriculum.

*Standard Four: Knowledge of Content.*

The elementary teacher is knowledgeable, in addition to literacy and mathematics, in the following content areas: civics, economics, geography, history, science, music, visual arts, and physical education. Secondary content teachers shall be knowledgeable in literacy and mathematics and expert in their content endorsement area(s).

*Standard Five: Knowledge of Classroom and Instructional Management.*

The teacher is knowledgeable about classroom practice in order to successfully manage time, communications, and record-keeping procedures that will support and enhance student learning.

*Standard Six: Knowledge of Classroom and Instructional Management.*

The teacher is responsive to the needs and experiences children bring to the classroom, including those based on culture, community, ethnicity, economics, linguistics, and innate learning abilities. The teacher is knowledgeable about learning exceptionalities and conditions that affect the rate and extent of student learning, and is able to adapt instruction for all learners.

*Standard Seven: Knowledge of Technology.*

The teacher is skilled in technology and is knowledgeable about using technology to support instruction and enhance student learning.

*Standard Eight: Democracy, Educational Governance, and Careers in Teaching.*

The teacher recognizes the school's role in teaching and perpetuating our democratic system. The teacher knows the relationships among the various governmental entities that create laws, rules, regulations, and policies that determine educational practices.

**ADMISSION TO THE TEACHER EDUCATION PROGRAM**

To be admitted to the Teacher Education Program, the student must:

- ◆ be admitted to Fort Lewis College and turn in a completed and notarized application to the Teacher Licensing Officer (Room 244 EBH)
- ◆ have completed at least 30 credit hours
- ◆ have acquired a 2.5 GPA (most recent 30 credit hours are calculated by the Teacher Licensing Officer)
- ◆ have documentation of experience with youth (may be met by Ed 200R or Ed 210S field study)
- ◆ be fingerprinted

Provide a Colorado Department of Education stamped fingerprint card and a \$36 money order (made out to the Colorado Department of Education) to the Teacher Licensing Officer (Room 244 EBH)

- ◆ declare his/her approved major with the Records Office

## ADMISSION TO TEACHER EDUCATION CANDIDACY

Completion of Ed 200R with a grade of B- or better with assignments leading to the completion of a formative portfolio. The formative portfolio is the culminating activity and strictly evaluated using a rubric common to all ED 200R sections. Applicants who do not take Ed 200R, on campus at FLC, must present a formative portfolio to a panel composed of Teacher Education faculty and pass the writing proficiency.

### CONTENTS OF FORMATIVE PORTFOLIO:

Students must provide a satisfactory writing sample. A rubric with passing scores will be provided, in a timely manner, to the Licensing Officer. If the student doesn't pass the writing test, they must take a group W course or a 300 level or above English composition course with B- or better.

A minimum of three written lesson plans.

Sign-off on applicable proficiency log by ED 200R professor, elements including:

- ◆ education profession (section 8.x)
- ◆ technology (section 7.x)
- ◆ preliminary plan for completion of major and Teacher Education courses (advisor sign off)
- ◆ evidence of 30 hours of field study completed (e.g. log) including the evaluation form signed by public school teacher or Teacher Education professor.
- ◆ evidence of reflection (e.g. journal).
- ◆ demonstration of ability to speak in front of a group.

**In order for students to be admitted to Teacher Education Candidacy, the Ed 200R professor will provide, at the end of the trimester, a roster indicating students who have passed the above conditions. This roster will be turned in to the Teacher Licensing Officer.**

### COLLATERAL SCREENING POLICIES

All Teacher Education students must either take a writing course or pass a writing assessment. Qualifying writing courses include a "W" course or a 300 level or above English composition course with grade of B- or better.

The writing assessment may be included as an assignment in any Teacher Education course (with the faculty member

completing the paperwork for the Teacher Licensing Officer). To serve those students who do not have the opportunity to take the writing assessment in a course, the Teacher Licensing Officer will administer the test twice per semester (with a \$5.00 fee).

Students entering Fort Lewis College in 2001-2002 must take college algebra. Early Childhood licensure students must take college algebra or the equivalent. Students entering in 2002-2003 must meet Q (Quantitative) requirements. Students admitted to Teacher Education prior to 2001 must pass the math proficiency as determined by the catalog at the time of admittance to Fort Lewis College. Undergraduates must take the ETS Academic Profile exam and complete a minimum of 30 college credits. If the student transferred from another institution and has not yet taken Ed 200R, the student must successfully present a Formative Portfolio to a panel of Teacher Education Professors.

### **ADMISSION OF TRANSFER OR POST-BACCALAUREATE (UNCLASSIFIED) STUDENTS**

Transfer or post-baccalaureate (unclassified) students will be accepted into the Teacher Licensing Program if prior preparation and scholastic achievement meet the requirements listed under "Admission to the Program." Written evaluation and acceptance of the student's content area preparation by the appropriate academic department of Fort Lewis College is required. Students should contact their assigned Teacher Education Advisor as soon as possible to plan their program. Post-baccalaureate students interested in the elementary education licensure program must meet with a Teacher Education Advisor and have a "Broad-Base" Form completed and placed in his/her file.

### **ADVISING**

Secondary teacher education students and K-12 licensing program students have two faculty advisors, one in the major field and one in Teacher Education. The Teacher Licensing Officer (TLO) will assign the Teacher Education Advisor. It is up to the student to be assigned an advisor in his/her discipline. Students choosing to pursue an Early Childhood (preschool-3rd grade) or Elementary (K-6) license must select the Interdisciplinary Studies Major.

Majors currently recommended for a Secondary license include English, Mathematics, Biology for Secondary Education, Chemistry for Secondary Teachers, Earth Science for Secondary Education, History, Physical Science for Secondary, and Spanish. Specific endorsement sheets are available in Room 244 or 246 Education Business Hall.

### **TEACHER EDUCATION PROGRAM CANDIDATES WITH A BACHELOR'S DEGREE**

Post-baccalaureate students interested in an Elementary License must have a "Broad-Base" form signed by the Teacher Education Advisor. All students must meet with their Teacher Education and Major Advisors. Post-baccalaureate students seeking K-12 or Secondary licensure must complete endorsement requirements and the teacher education licensing sequence. All post-baccalaureate students must meet with a Teacher Education advisor.

### **FIELD-BASED STUDY**

Field-based training (field experience) includes a variety of experiences in authentic, supervised, public school settings. Students attend college courses that include direct instruction of methods, practices, and procedures in their content. These courses include specific assignments for field study associated with predetermined learning standards.

Students and professors will work in area schools to complete specific assignments that address a variety of standards including Colorado K-12 Model Content Standards, CDE Performance-Based Standards for Colorado Teachers, and Section 8 in rules for the Administration of the Educators Licensing Act of 1991. All students are required to have fingerprints on file with the Colorado Department of Education before participating in field-based study.

### **PROGRAM ACCESS OPTIONS**

#### *Conventional Program:*

The conventional program enables regular contact with professors and interaction with fellow students on campus. Classes include field study in local schools connecting theory with classroom practice. Students have the option to complete this program either as full-time or part-time students.

The Conventional Program provides the opportunity to student teach outside of the Durango area if desired. There is an additional \$250 fee to student teach outside a 70 mile radius of Durango. This fee covers hiring a college consultant.

#### *Partnership Program:*

The partnership program integrates teacher education courses with field experience and student teaching into a field-based format. The Teacher Education students (interns) accepted into the program are immersed in the day-to-day operations of the school and act as partners to the regular faculty in the public school setting. Regular class sessions with the interns and a series of symposia on specific topics are conducted to ensure that partnership students have gained the knowledge required to successfully begin a career in teaching as well as that required for licensure.

Prerequisite courses are required for admittance to the Partnership Program. This program requires a full-time commitment. Partnership students are in the local schools for one full year, following the local school district calendar. The partnership program will enable you to complete all Teacher Education Program requirements, including student teaching, in one academic year.

Please note: It is highly recommended that you meet with a Teacher Education Advisor in order to determine which program (i.e. Conventional vs. Partnership) would best fulfill your needs.

### **REQUIREMENTS FOR ADMISSION TO STUDENT TEACHING** (The Conventional Program)

To be admitted to Student Teaching the student must:

- ◆ pass the screening process by Teacher Education Faculty.
- ◆ have senior or post-baccalaureate standing.

- ◆ pass the PLACE content exam before student teaching. q complete at least 80% of major and at least 80% of required endorsement courses for secondary or K-12 content areas.
- ◆ achieve a minimum grade point average (GPA) of 2.5 (in area) or 2.75 GPA (out-of-area-more than 70 miles from Durango) in the following: major, licensing program, the endorsement sequence and overall cumulative.
- ◆ complete 100 % of education and auxiliary courses with no grade lower than a C-.

Courses include those listed under "Departmental Requirements" and "Auxiliary Requirements."

- ◆ have a scheduled appointment with the Teacher Licensing Officer.

This will take place over a three-week period prior to the Student Teaching application deadline. The purpose of this is to see that all requirements will be met by the time the Student Teaching Semester arrives.

- ◆ have an approved application on file, which documents that he/she has completed all of the State of Colorado licensure and endorsement requirements.

Students also include biographical information, a resume, and a list of teaching strengths and weaknesses. Efforts are made to use this information so that each student teacher is placed with a supervising teacher who can best nurture and support his/her development as a teacher.

- ◆ submit the student teaching application no later than the second Friday of the fall term for winter student teaching, or no later than the second Friday of the winter term for fall student teaching.
- ◆ demonstrate proficient use of the English language by passing the Written English Proficiency exam, OR show completion of a college-level, upper-division (300-400 level) advanced writing course with a grade of B- or better.
- ◆ demonstrate competency in mathematics by passing the ETS Academic Profile exam, OR completion of an appropriate Math course with a grade of B- or better.
- ◆ complete all required field experience hours.
- ◆ have approved PERC (Performance Evaluation Review Committee) petition(s) on file, if needed.

Students not meeting the department criteria are subject to review by the Performance Evaluation Review Committee and may have possible stipulations in order to be allowed to student teach. Not all PERC requests are granted.

- ◆ be willing to move or commute to an area outside of Durango; many student teachers are placed outside of the city of Durango

◆ be recommended by the Teacher Education faculty, which considers each candidate in light of such factors as character, personal adjustment, physical condition, and human relations skills.

◆ A \$250 fee is required to teach out-of-area (greater than 70 miles from Durango).

### **ADMISSION TO THE PARTNERSHIP PROGRAM**

Students wishing to participate in the Partnership Program are required to complete an application that documents that they have completed 80% of their major and/or 80% of the endorsement requirements, and have met the required minimum grade point average. Students also include a resume, biographical information, and a list of teaching strengths and weaknesses. Efforts are made to use this information so that each student teacher is placed with a mentor teacher who can best nurture and support the student's development as a teacher.

Partnership students complete an application to the Partnership Program by the first week of March prior to the Partnership Program in August.

### **REQUIREMENTS FOR ADMISSION TO THE PARTNERSHIP PROGRAM**

1. Receive formal acceptance to the Teacher Education Department by the third week of May.
2. Complete at least 80% of major and at least 80% of required endorsement courses for secondary or K-12 content areas. Have senior or post-baccalaureate standing.
3. Complete all prerequisite/auxiliary courses prior to the start of the Partnership Program.
4. Have a minimum grade point average of 2.50 in the following areas: major, the endorsement sequence, and cumulative.
5. Demonstrate proficient use of the English language by passing the Written English Proficiency Exam OR show completion of a college-level, upper-division advanced writing course in Education or English with a grade of B- or better.
6. Demonstrate competency in mathematics by passing the ETS Academic Profile exam, OR completion of an appropriate Math course with a grade of B- or better.
7. Be recommended by the Partnership Selection Committee, which considers each candidate in light of such factors as character, personal adjustment, physical condition, and human relations skills.
8. Attend the orientation seminar scheduled several days prior to the Partnership Program. The dates will be announced.

## COMPLETION OF TEACHER EDUCATION PROGRAM

In addition to the required courses in the professional sequence, a successful summative portfolio presentation must be made and a proficiency log completed before a student is recommended for licensure.

### SUMMATIVE PORTFOLIO

A summative portfolio developed by the student teacher must be presented during the last three weeks of the student teaching term. A portfolio includes examples of the candidate's best work and illustrates the teaching skills acquired. Students are advised to keep samples of work completed during the professional education classes as well as during student teaching for possible inclusion in their portfolio. A current collection of portfolio assessment rubrics, detailing the expected content and format of the portfolio presentation, is included in the student teacher handbook. A successful portfolio presentation is required for completion of the Teacher Education Program and subsequent recommendation for licensure. The portfolio panel consists of members of FLC faculty and staff, K-12 educators, and community members. The student teacher is responsible for choosing one panelist for the portfolio review.

### PROFICIENCY LOG

Teacher Education faculty and master K-12 teachers verify proficiency on each of the forty-five elements of the Performance Standards for Colorado Teachers. The log is required of each pre-service teacher, and proficiency is verified with an approved signature. The data is electronically scanned at program completion and maintained in the Teacher Education database. Students will receive the Proficiency Log in Ed 200R (Introduction to Education in America).

### EXIT INTERVIEW

Immediately after the Summative Portfolio Presentation, the student will have a scheduled appointment with the Teacher Licensing Officer. During this appointment, the student will turn in the completed and signed Proficiency Log. The Portfolio Committee will inform the student and the Teacher Licensing Officer if he/she has passed the Portfolio. The Teacher Licensing Officer will check all paperwork to ensure that all compliance issues have been met. If everything is in order, including proof of passing the PLACE Content Exam, the student will be given the State Application for Provisional Licensure with instructions.

### RECOMMENDATION FOR LICENSURE

Upon successful completion of the Teacher Licensing Program, students may apply for licensure in any state. Requirements for certification/licensure will vary from state to state. The appropriate Department of Education should be contacted for information about requirements. Colorado requirements include:

- ◆ Successful completion of Bachelor's degree
- ◆ Successful completion of the Teacher Licensing Program

Successful completion of the teacher licensing course work

Successful completion of student teaching

Successful completion of a summative portfolio

Successful completion of the proficiency log

◆ Passing the required PLACE Content Exam(s).

◆ Submission of a completed application for Provisional License to The Colorado Department of Education

### **EARLY CHILDHOOD LICENSING PROGRAM** (preschool-3rd grade)

#### **Options:**

1. Conventional Program
2. Two-Year Partnership Program in selected schools

Specific Departmental Requirements: The following two courses may be taken prior to admission to the Teacher Licensing Program. The Introduction to Education in America (Ed 200R) serves as a prerequisite to the remaining courses in the Early Childhood Licensing Program. Ed 200R Introduction to Education in America 4 Ed 210S Culture of Childhood and Youth 4 The following courses require prior admission to the Teacher Licensing Program: Ed 421 Individualized Instruction in a Pluralistic Society 6 Ed 390 Language Arts, Music, Art and Movement Literacy 4 Ed 390 Language Arts Methods 4 Ed 453 Cognitive Development for the Early Learner 4 Ed 353 Growth and Development of the Young Child 2 OR Psyc 354 Child Psychology 4 Ed 456 Early Childhood Administration/Parent, Community Relations 3 Note: Ed 456 should be taken the semester prior to student teaching Ed 492 Lab Experience and Seminar in the Kindergarten/Primary School Setting 15 Program CORE credits 46-48 Auxiliary Requirements: Psyc 254 Life Span Human Development 4 Program Total 50-52

### **ELEMENTARY EDUCATION LICENSING PROGRAM** (Middle Childhood) **Grades K-6**

#### **Options:**

1. Conventional Program
2. One-Year Partnership Program in a selected school

#### **Specific Departmental Requirements:**

The following two courses may be taken prior to admission to the Teacher Licensing Program.

The Introduction to Education in America course (Ed 200R) serves as a prerequisite to the remaining courses in the Middle Childhood Licensing Program.

<b>Courses:</b>	<b>Credits:</b>
Ed 200R Introduction to Education in America	4
Ed 210S Culture of Childhood and Youth	4
The following courses require admission to the Teacher Licensing Program.	
Ed 421 Individualized Instruction in a Pluralistic Society	6
Ed 390 Language Arts, Music, Art and Movement Literacy	4
Ed 390 Language Arts Methods	4
Ed 425 Science and Technology Methods	4
Ed 426 Social Studies and Math Methods	4
Ed 494 Laboratory Experience and Seminar in the Elementary School	15
<b>Program CORE credits</b>	<b>45</b>
<b>Auxiliary Requirements:</b>	
Psyc 254 Life Span Human Development	4
<b>Program Total</b>	<b>49</b>

## **SECONDARY LICENSING PROGRAM** (grades 7-12)

### **Options:**

1. Conventional Program
2. One-Year Partnership Program in a selected school

### **Specific Departmental Requirements:**

The following two courses may be taken prior to admission to the Teacher Licensing Program.

The Introduction to Education in America course (Ed 200R) serves as a prerequisite to the remaining courses in the Secondary Licensing Program.

<b>Courses:</b>	<b>Credits:</b>
Ed 200R Introduction to Education in America	4
Ed 210S Culture of Childhood and Youth	4
The following courses require admission to the Teacher Licensing Program.	
Ed 421 Individualized Instruction in a Pluralistic Society	6
Ed 424 Language and Math Literacy in the Secondary School	4
Ed 495 Laboratory Experience and Seminar in the Secondary School	15

**Program Total****33**

Additional courses in the endorsement or subject area are also required to meet the Colorado Department of Education endorsement standards. Specific endorsement sheets are available in Room 244 or 246 Education Business Hall.

**K-12 LICENSING PROGRAM: Art or Physical Education****Options:**

1. Conventional Program
2. One-Year Partnership Program in a selected school

**Specific Departmental Requirements:**

The following two courses may be taken prior to admission to the Teacher Licensing Program.

The Introduction to Education in America course (Ed 200R) serves as a prerequisite to the remaining courses in the K-12 Art or Physical Education Licensing Program.

**Courses:****Credits:**

Ed 200R Introduction to Education in America

4

Ed 210S Culture of Childhood and Youth

4

The following courses require admission to the Teacher Licensing Program.

Ed 421 Individualized Instruction in a Pluralistic Society

6

Ed 424 Language and Math Literacy in the Secondary School

4

Ed 494 Laboratory Experience and Seminar in the Elementary School

7

Ed 495 Laboratory Experience and Seminar in the Secondary School

8

**Program CORE credits****33****Auxiliary Requirements:**

Psyc 254 Life Span Human Development

4

**Program Total****37****Music Education****Options:**

1. Conventional Program
2. One-Year Partnership Program in a selected school

**Specific Departmental Requirements:**

The following two courses may be taken prior to admission to the Teacher Licensing Program.

The Introduction to Education in America course (Ed 200R) serves as a prerequisite to the remaining courses in the K-12 Music Licensing Program

<b>Courses:</b>	<b>Credits:</b>
Ed 200R Introduction to Education in America	4
Ed 210S Culture of Childhood and Youth	4
The following courses require admission to the Teacher Licensing Program.	
Ed 421 Individualized Instruction in a Pluralistic Society	6
Ed 494 Laboratory Experience and Seminar in the Elementary School	7
Ed 495 Laboratory Experience and Seminar in the Secondary School	8
<b>Program CORE credits</b>	<b>29</b>
<b>Auxiliary Requirements:</b>	
Mu 314 Choral Methods	3
Mu 315 Instrumental Methods	3
Mu 316 Elementary/General methods	3
<b>Program Total</b>	<b>38</b>

Additional courses in Music are also required to meet the Colorado Department of Education standards. Specific Endorsement sheets are available at 244 or 246 Education Business Hall.

### **ADD-ON ENDORSEMENTS: EARLY CHILDHOOD ADD-ON ENDORSEMENT**

Students who complete the Middle Childhood Program (elementary) must complete the following courses to add on an Early Childhood Endorsement.

#### **Specific Departmental Requirements:**

The following courses require admission to the Teacher Licensing Program:

<b>Courses:</b>	<b>Credits:</b>
Ed 353 Growth and Development of the Young Child	2
Ed 390 Special Topics in Early Childhood Literacy and Creative Arts	2
Ed 453 Cognitive Skills for the Young Child	4
Ed 456 Early Childhood Administration/Parent, Community Relationships	3
*Ed 492 Lab Experience and Seminar in the Kindergarten/Primary (K-3) school setting.	
<b>Endorsement Total</b>	<b>11</b>

\*Students desiring to add on Early Childhood endorsement to the Middle Childhood (elementary) license will be required to complete

Ed 492 Lab Experience and Seminar in the Kindergarten/Primary (K-3) school setting.

### **ENGLISH AS A SECOND LANGUAGE**

(ESL)/BILINGUAL ENDORSEMENT (Available to all students seeking licensure.)

**Core Requirements:****Courses:****Credits:**

Ed 210S Culture of Childhood and Youth

4

Ed 421 Individualized Instruction in a Pluralistic Society

6

Ed 335 Southwest Language Immersion

3

Ed 390 Linguistics for Educators

3

OR

Cultural Emphasis: Culturally based art, literature, or social science courses

9

**ESL students must add:**

Ed 334 Methods of Teaching English as a Second Language

3

AND

Pass the ESL PLACE exam.

**Bilingual students must add:**

Ed 332 Materials and Methods of Bilingual Education

3

AND

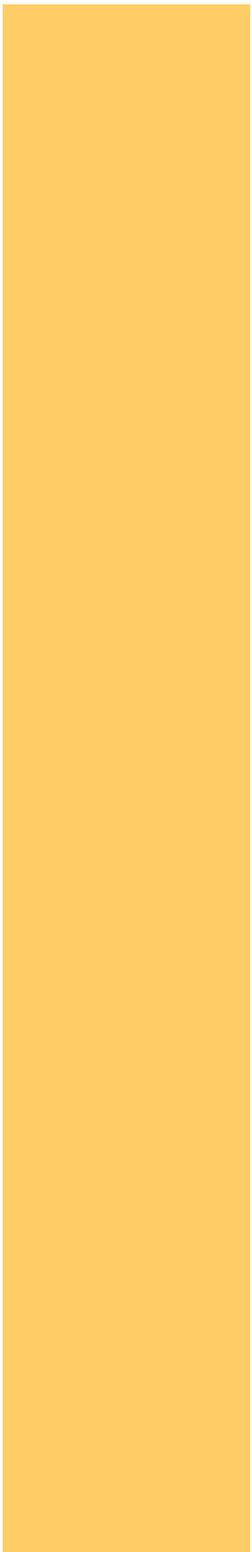
**Pass the Bilingual PLACE exam.**

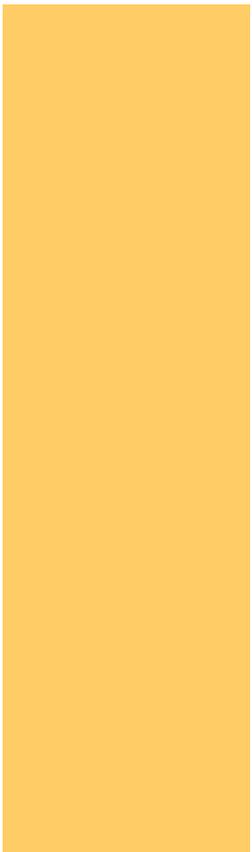
AND

**Pass a language proficiency test.**

ESL and Bilingual students must complete 30 hours of documented field experience with linguistically different children.

**Endorsement Total****18-25**







# School of Arts and Sciences

## Theatre

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### Course listings for Theatre

#### **Associate Professor**

Kathryn S. Moller

#### **Assistant Professor**

Ginny A. Davis

The Theatre major at Fort Lewis College enables students to fully explore their potential as literate, articulate, and humane members of society through a close study of the theory and practice of theatre. Students so trained are able to bring highly developed communication skills, flexibility, and creativity to a wide range of career opportunities.

The academic program in the theatre department is supported by a strong production program, which is the cornerstone of our work. Performing, technical theatre, and administrative opportunities are open to all students. Auditions and technical theatre interviews are held at the beginning of each term. Participation in production is considered an academic endeavor with course credit available.

Requirements for a minor in theatre are listed at the end of this section.

#### **REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN THEATRE:**

##### **Courses:**

**Credits:**

##### **General Education**

**35-46**

\*\* Courses marked with double asterisks may also be counted toward TS 1 requirements.

##### **Specific Departmental Requirements:**

Thea 135 Acting Techniques	4
**Thea 126R Intro to Dance	4
Thea 230 Stage Technology	4
Thea 240 Ancient and Classical Theatre	4
Thea 336 Creating Performance: Directing	4
Thea 340W Modern Theatre	4
Thea 496, 497 Senior Seminar	4
<b>Subtotal Specific Departmental Requirements</b>	<b>28</b>

Writing Course Within Discipline: Included in Departmental Requirements above.

**Theatre Studies Electives:****A total of 14-16 credits chosen from the following courses:**

Thea 231 Makeup for Stage	2
Thea 233 Audition Techniques	2
Thea 236 Styles in Acting	4
Thea 280 Interdisciplinary Studies	4
Thea 310 Design for Stage	4
Thea 366 Dance Techniques	2
Thea 382 American Indian Theatre	4
Thea 322 Creative Dramatics	4
Thea 323 Children's Theatre	4
Thea 381 Special Topics in Dramatic Lit	4
Thea 190/390 Special Topics	4
<b><i>Subtotal Electives</i></b>	<b>14-16</b>

**Other Department Requirements:**

A total of 6 credit hours chosen from Theatre Ensemble and Performance Studies.

At least two of these credits should be in technical theatre and two in performance.

Thea 300 Theatre Ensemble	2-4
Thea 400 Performance Studies	2-4

***Subtotal Other Departmental Requirements*** **6**

***Total Major Requirements*** **48-50**

Free Electives (variable)

**TOTAL REQUIRED FOR GRADUATION** **120**

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

**REQUIREMENTS FOR A MINOR IN THEATRE:****Departmental Requirements:****One of the following two courses:**

Thea 240 Ancient and Classical Theatre	4
Thea 340W Modern Theatre	4

**One of the following two courses:**

Thea 135 Acting Techniques	4
Thea 230 Stage Technology	4

A total of 4 credits from Thea 300 (Theatre Ensemble) and Thea 400 (Performance Studies).

Both courses are variable credit from 1-4.

**Theatre Electives:**

**A total of 8 credit hours from:**

**Thea 126R Introduction to Dance	4
Thea 135 Acting Techniques	4
Thea 190/390 Special Topics	4
Thea 230 Stage Technology	4
Thea 231 Stage Makeup	2
Thea 233 Audition Techniques	2
Thea 236 Styles in Acting	4
Thea 280 Interdisciplinary Studies	4
Thea 310 Design for the Stage	4
Thea 322 Creative Dramatics	4
Thea 323 Children's Theatre	4
Thea 336 Creating Performance: Directing	4
Thea 366 Dance Techniques	2
Thea 381 Special Topics in Dramatic Literature	4
Thea 382 American Indian Theatre	4
Thea 496/497 Senior Seminar	2/2
<b>Total for minor</b>	<b>20</b>



# School of Arts and Sciences

## Course Listings for Theatre

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### **Thea 100 Dramatic Theatre 1-4**

This course involves initial participation in theatrical production. It includes limited involvement in various areas of theatre from inception to presentation. Students with little or no theatre experience will gain a working knowledge of performance. Repeatable for up to 12 credits.

### **Thea 101R Introduction To Theatre (4-0) 4**

This course offers a general introduction to the theatre and to performance in the human experience. Students view and discuss films and live performances, and perform scenes in class. The course emphasizes an understanding of the processes of creating theatre, and of the role of theatre and performance in the context of cultures and contemporary society. Guest speakers from other disciplines introduce a variety of perspectives on performance as a human activity. There is a strong participatory component to the course. Fall and winter terms.

### **Thea 126R Introduction To The Dance (4-0) 4**

This course offers an exploration of the historical/theoretical bases of dance and its many variant forms. In addition to gaining a historical and theoretical knowledge of dance, this course includes the practical/technical overview of traditional and contemporary dance forms including African dance, folk dance, ballet, jazz dance, musical theatre, performance art, and dance improvisation. Students will gain a general knowledge of technical skills as well as a broad knowledge and appreciation of the art and history of dance. Fall term.

### **Thea 135 Acting Techniques (4-0) 4**

This course is the first in the performing sequence. It introduces students to basic performance techniques including: vocal and physical preparation, alignment and posture, movement for stage, improvisational skills, performance of literature, text analysis, and introductory scene work.

### **Thea 200 Theatrical Production 1-4**

This course constitutes involvement of the intermediate level student in theatrical production. Students with a developing dedication to theatre participate in selected areas including but not limited to dramaturgy, technical

theatre, performance administration, and performance. Repertoire includes classical, modern, musical theatre, and dance. Repeatable for up to 12 credits.

### **Thea 230 Stage Technology (3-2) 4**

This course provides students with a base working knowledge of the technical aspects of theatre including scenery construction, costume construction, prop construction, lighting equipment and its uses, and sound equipment and its uses. This course also offers an introductory knowledge of the aspects of stage design.

### **Thea 231 Make-Up For Stage (2-0) 2**

This hands-on course explores stage make-up techniques including old age, stylized, fantasy, disaster, and corrective make-up. In addition to this application, students will also explore make-up design from text to production.

### **Thea 233 Audition Techniques (2-0) 2**

An audition is the actor's primary tool for securing employment. This course explores the audition process in terms of text analysis, musical auditions, film auditions, choosing audition materials, and audition trends across the United States. The purpose of this course is to help students compile an audition repertoire in order to be competitive in both the professional and educational world of theatre.

### **Thea 236 Styles In Acting (3-2) 4**

This course is the second in the performing sequence. It further develops the student's performance skills through the theory and practice of various systems of acting. At this level the students will focus primarily on styles in acting. Thea 135 suggested, but not required. Winter term.

### **Thea 240 Ancient And Classical Theatre (4-0) 4**

This course is the first in the dramatic literature sequence (240, 340W, and 381). Students taking this course attain a breadth and depth of foundational knowledge of theatre and dramatic literature by examining the various styles and traditions of actors, playhouses, plays, and playwrights from Classical Greece and Asia through the age of enlightenment (1800). Focus is placed on reading and analyzing plays and attaining insight into the thinking and theatre conventions of times and places at a greater distance from our own. Time periods covered in this class include: Classical Greek and Roman, classical Asian theatre forms, Medieval drama, Italian Renaissance theatres, Elizabethan drama, Jacobean and Caroline theatre, Spanish theatre, French Neo-classic theatre, Restoration, and Theatre of the Enlightenment. Fall term.

### **Thea 280 Interdisciplinary Studies: (Title) (4-0) 4**

Students in this course study theatre forms in the context of the perspective of other disciplines, e.g., political science, philosophy, archaeology, sociology, theology, etc. A group of plays or a theatrical movement may be chosen as a point of focus. Significant readings from relevant literature of other fields are used for this study. The plays or the movement and the society and historical periods in which they arose will become occasions for study from an interdisciplinary perspective. Suitable "Topics" course for English majors.

### **Thea 300 Theatre Ensemble 1-4**

This course involves participation in a theatrical production, including various areas of technical theatre and performance. The maturing student is actively involved in theatre production (s) during the semester. Repeatable for up to 12 credits. Thea 310 Design For The Theatre (4-0) 4 This class provides an in-depth look at design for the stage. Emphasis will be placed on scenery, lighting, properties, and sound design. This course includes research in art history, time periods, and theatrical styles. Students will present a series of designs and models for those designs.

Prerequisites: Thea 230.

### **Thea 322 Creative Dramatics (4-0) 4**

Creative Drama uses a student's innate ability to "play" in the developmental process of becoming a productive well-adjusted human being. This course focuses on using drama as a teaching tool in multiple disciplines, using drama as a socializing tool for children and adults, and understanding drama as an art form.

### **Thea 323 Children's Theatre (4-0) 4**

In this performance-based course, students will explore dramatic literature appropriate for child audiences. Students will travel to area schools and perform for and with Durango area children.

### **Thea 336 Creating Performance: Directing (4-0) 4**

This course concentrates on the conceptual and practical application of performance in the form of creating a production from initial concept to closure. Students will develop and use the skills of analysis, strategic planning, directing, creating movement, organization, and administration.

### **Thea 340W Modern Theatre (4-0) 4**

This course, the second in the dramatic literature sequence (240 and 340W), surveys developments in theatre practice and dramatic literature from the beginning of the 19th through the mid-20th century. The development of

modern drama and the concurrent philosophical thinking in Western theatre history will be the focus of the course. Will also explore coinciding developments in Asian and African theatre and intercultural influences. May be taken as a "Topics" course for English majors. Winter term.

Prerequisites: Thea 240.

### **Thea 366 Dance Technique: (Style Of Dance) (2-0) 2**

This course is specifically dance technique, or the practical application of a specific dance form. In this course the student will be given the opportunity to learn and practice the technique of a specific style while concentrating on personal abilities, awareness, and ways to correctly train his or her body. The type of technique taught each session is predetermined by the department and may be chosen from many forms. Students taking this course to satisfy theatre studies electives will be required to take this course twice so as to experience two kinds of dance techniques. Repeatable for up to 12 credits.

### **Thea 369 Playwriting (4-0) 4**

In Playwriting, students develop their own creativity in theatrical forms. Students examine dramatic plots, characters, dialogue, exposition, setting, theme, new and traditional forms and other elements of drama through a series of exercises and writing practices. They will read a number of contemporary plays and attend local performances. All students will write a producible one-act play. Fall term.

### **Thea 381 Special Topics In Dramatic Literature (4-0)**

This course examines a group of plays chosen from the canon of dramatic literature which relates to a specific theme or topic. The theme or topic is changed regularly, e.g., war, women, marriage, the family, work, political change, etc. Suitable "Topics" course for English majors.

### **Thea 382 American Indian Theatre (4-0) 4**

This class will review the literature and history of American Indian Playwrights and theatre artists. Students will first examine the history of Euro-American representations of indigenous peoples; reviewing colonial culture will foreground subsequent readings of Native-centered plays, interviews, and criticism. The class will include videos of Native theatre and performances.

### **Thea 400 Performance Studies 1-4**

This course involves in-depth involvement in theatrical production, performance and technical theatre. The advanced theatre student will have the opportunity to build on his/her theatre skills in areas such as acting, dance,

technical theatre, costuming, dramaturgy, and theatre administration in both on and off-campus situations. Repeatable for up to 12 credits.

### **Thea 496, 497 Senior Seminar 2-2**

This course gives senior theatre majors the opportunity to demonstrate their abilities in connecting the analytical academic research process to performance. Significant research, on an approved topic, will result in a substantial paper. Each student's research combined with insightful performance knowledge, problem-solving techniques, and creative thinking, results in a public presentation. This is a full course and 496 must be taken in the fall, followed by 497 in the winter.

Prerequisites: Thea 340W, Thea 336, and senior standing.

### **Thea 499 Independent Study 1-6**

Individual research is conducted under the supervision of a faculty member. Offered on demand.

Prerequisites: Approval of Theatre Department faculty.



# School of Arts and Sciences

## Women's Studies

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### Course listings for Women's Studies

#### **Coordinator**

Jennifer A. Gehrman

#### **Professors**

Kathleen S. Fine-Dare

Doreen Hunter

#### **Associate Professors**

James K. Ash

Alane S. Brown

Janine M. Fitzgerald

Jennifer A. Gehrman

Kathryn S. Moller

Jan E. Sallinger-McBride

Carol L. Smith

The Women's Studies Minor takes an interdisciplinary approach to the study of women, sex, and gender. Informed by theories of feminism, Women's Studies addresses a variety of issues including a respect for sociocultural diversity; an understanding of systematic and historical forms of inequality; a concern for building social equality and justice; and the rethinking of methodological and pedagogical concerns while conducting research and teaching in any discipline. Women's Studies is committed to an honest and critical discussion about the ways that the individual, society, and culture intersect, and to exploring views about sex role and gender issues from a variety of disciplinary perspectives.

Students may therefore select from a variety of courses in Women's Studies and in several other disciplines to create a minor in Women's Studies that will complement and enhance their chosen major and/or their future career goals.

Students who plan to complete a minor in Women's Studies should consult with their regular faculty advisor and a member of the Women's Studies faculty, listed above.

Note: No more than one course from your major department will count toward this minor.

**REQUIREMENTS FOR A MINOR IN WOMEN'S STUDIES:****Courses:****Credits:****I. CORE COURSES (10 credit hours)**

**WS 101S Introduction to Women's Studies	4
WS 301 Feminist Studies: Theories and Methods	4
OR	
WS 332 Women in American History	4
WS 495 Capstone Colloquium in Women's Studies	2
OR	
WS 499 Individualized Study	2

**Total****10****II. CONTEMPORARY GENDER****(Choose one; 3-6 credit hours)**

WS 280 Issues in Women's Health	4
WS 351 Gender and Work	4
WS 355 Anthropology of Gender	4
WS 365 Women and Development	3
WS 320 Women's Studies Practicum*	4-6

\*NOTE: Students may take WS 320 only if they are enrolled in the Sociology Block Program. Students wishing to have an internship or practicum experience outside of sociology may sign up for an internship or practicum course in another department, as long as the project undertaken is gender-related. (See the Women's Studies Coordinator to receive approval before signing up.)

Examples of such courses include: 2-6

Anth 316 Internship in Anthropology	
BA 437 Internship in Business	
Engl 258/358 Service Learning Practicum in English	
ES 450 Internship in Fitness/Leisure	

Students should look closely at the prerequisites for any of these courses before attempting to sign up. Students may not apply more than 6 hours of internship or practicum experience to the Women's Studies minor.

**III. DISCIPLINARY INTERROGATIONS OF FEMINIST THOUGHT**

Choose two, one of which must be numbered above 300 6-8 credits

Courses numbered 190/390 and 191/391 may also count, if approved.

**Anthropology**

**Anth 217R Cultural Images of Women and Men	4
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Anth 355 Anthropology of Gender (same as WS 355; a student may receive credit for only one of these courses)	4
<b>English</b>	
**Engl 175R Women's Literature	4
Women's Studies approved topics courses in Engl 317, 337, 345, 346, 380 and 420 (A list of Women's Studies approved courses is produced each term.	
Examples include:	
Engl 380 Native American Literature: Contemporary Female Writers	
Engl 420 World Literary Traditions: Topics: Contemporary Latin American Women's Literature	4
<b>History</b>	
Hist 306 Ancient Women's Religions	4
Hist 332 Women in American History (same as WS 332; a student may receive credit for only one of these courses)	4
Hist 338 The Modern Women's Movement	4
Hist 368 Medieval Women	4
<b>Modern Languages</b>	
ML 308 Topics in French Literature (when topic is Women's Studies approved)	3
ML 334 Topics in German Literature (when topic is Women's Studies approved)	3
<b>Philosophy</b>	
Phil 365 Philosophy and Feminism	3
Political Science	
PS 365 Women and Development (same as WS 365; a student may receive credit for only one of these courses)	3
<b>Psychology</b>	
Psyc 270 Psychology of Gender	4
<b>Sociology</b>	
**Soc 275S Families, Marriages, and Other Sex Role Systems	4
Soc 279 Ethnicity, Gender, and Class in the Southwest	4
Soc 300 Theories of Social and Personal Life	4
Soc 383 Women in Society	4
<b>TOTAL FOR MINOR</b>	<b>19-24</b>





# School of Arts and Sciences

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### **WS 101S Introduction To Women's Studies (4-0) 4**

This course introduces students to the variety of multidisciplinary questions and practical concerns encompassed by Women's Studies. The course provides an introduction to the history of feminism and seeks to establish a fundamental understanding of how and why feminist theoretical critique has occurred.

### **WS 280 Issues In Women's Health (4-0) 4**

This course will examine women's health through the life span. Discussion will focus on the physical and emotional health of the maiden, woman, and crone. The course will also examine social and historical factors that have affected women as health care clients and providers. Though the course materials will concentrate on health in the United States, there will be some comparative readings about women and health in other cultures. Throughout the course particular attention will be paid to the interplay between women's status in society and their role definitions as participants in the health care system.

Prerequisites: WS 101S.

### **WS 301 Feminist Studies: Theories And Methods (4-0) 4**

This course provides an overview of the history and development of the project of feminist studies and an introduction to the concepts, methods, and discourse of feminist inquiry.

Prerequisites: Comp 150, Lib 150.

### **WS 320 Women's Studies Practicum 4-8**

This course provides students with experience in a community organization that serves the needs of women. Students will be involved in human services, applied feminist research, or other activities approved by the advisor and practicum coordinator. The emphasis is upon gaining experiential knowledge through active participation in feminist practice and analyzing this experience in a classroom setting. Practicum may be taken for 4 or 8 credits per term.

Prerequisites: WS 101S and consent of instructor.

### **WS 332 Women In American History (4-0) 4**

An analysis of women's experience from the colonial period to the present. Focusing on the way gender has been defined and redefined,

the course considers such issues as work, friendship and marriage, reproduction, the struggles for equality, and women's culture. The influence of class, race, and ethnicity on women's experiences will also be considered. This course is the same as Hist 332; credit will not be given for more than one of these courses. Fall term.

Prerequisites: Hist 280 or Hist 281 or consent of instructor.

### **WS 351 Gender And Work (4-0) 4**

Work-in the paid labor force and in the home-is an important site of 20th-century feminist activism and scholarship because historically grounded notions of what is "women's work" continue to powerfully condition women's and men's "places" in the paid labor force and in the home. Through an exploration of contemporary scholarship from Women's Studies and other disciplines, this course will examine the construct of "women's work" and the broad range of issues related to the gendering of work and work systems.

Prerequisites: WS 101S recommended; Comp 150, Lib 150 required.

### **WS 355 Anthropology Of Gender (4-0) 4**

An in-depth, cross-disciplinary analysis of the nature and origins of gender concepts cross-culturally, particularly as they relate to explaining gender hierarchy. Topics to be covered include the contributions of feminist thought to social scientific theories, the cultural construction of gender categories, and the relationship of gender to power. This course is the same as Anth 355; credit will not be given for more than one of these courses.

Prerequisites: Anth 210R, or WS 101S, or consent of instructor.

### **WS 365 Women And Development (3-0) 3**

An overview of the central role women play in the development process in non-Western societies, and of their struggle to gain access to the most basic levels of power and governance around the world. The focus will be on women in developing countries, but reference to women in developed countries will also be made. This course is the same as PS 365; credit will be given for only one of these courses.

Recommended: PS 280S.

### **WS 495 Capstone Colloquium In Women's Studies (2-0) 2**

Advanced reading, writing, and seminar discussion centered on integrating the Women's Studies experience with the student's entire undergraduate educational experience. Emphasis will also be placed on looking beyond the bachelor of arts or bachelor of science degree to incorporating the Women's Studies intellectual experience to practical life arenas. WS 499 Independent Study In Women's Studies 1-4 Individual research is conducted under the supervision of a faculty member.



# School of Arts and Sciences

## Writing Program

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### Course Listings for the Writing Program

#### **Director**

Carol L. Smith

#### **Assistant Director**

Bridget Irish

#### **Associate Professor**

Carol L. Smith

#### **Assistant Professor**

Shawn Fullmer

#### **Visiting Instructors**

Molly C. Costello

Ann Hartney

Bridget Irish

Susan Palko-Schraa

Ray C. Schmutde

At Fort Lewis College, writing is a liberal art. In the Writing Program, we consider ourselves one of the heirs of the ancient liberal art of rhetoric. The study of rhetoric began as the study of how to speak persuasively, but with the increasing importance of writing in the modern era, expanded to look at the features of writing that make it persuasive. What is effective writing is highly situational, and an educated person must know how to adapt. Although the Writing Program's emphasis is on teaching students to be effective academic writers, we also provide opportunities for students to learn to be effective writers in civic life and in the work place.

### **FIRST YEAR ACADEMIC WRITING REQUIREMENT**

Participating in scholarly discourse is a central activity in a liberal arts education. For this reason, Fort Lewis College faculty require students to fulfill an academic reading and writing requirement in their first two years of study. In the course or sequence of courses students take to fulfill this requirement, students will be asked to read scholarly texts in sophisticated and nuanced ways, to identify intellectual problems, and to write for the purpose of making an intellectual

contribution.

Writing placement, an important part of Advising and Registration, determines whether students will complete the academic writing requirement by taking one course, Comp 150 Reading and Writing in College, or two courses, Comp 125-Comp 126 Reading in College (Intensive) and Writing in College (Intensive). Colorado Law mandates that students must be at college level in reading and writing to enroll in academic writing requirement courses. College-readiness is determined by an assessment of basic skills based on standardized test scores. If students do not have an ACT Reading score of 16 or higher or an SAT Verbal score of 450 or higher, they must take TRST 90, Reading for Ideas. If students do not have an ACT English score of 18 or higher or an SAT Verbal score of 450 or higher, they must take TRST 91, Introduction to Academic Writing. These courses must be completed successfully (C- or better) before students begin coursework related to the academic writing requirements. Exemptions to the academic writing requirement are granted to students who earn a score of 650 or above on the SAT II Writing Test, score 4 or 5 on the Advanced Placement Test for English Literature and Composition or English Language and Composition, or score 4 or above on the English Exam of the International Baccalaureate Program.

### **MAJOR FIELD WRITING REQUIREMENT ("W" Courses)**

In addition to completing the academic writing requirement, each student is required to take the designated "W" course in his or her major field. The departments, not the Writing Program, teach these courses. Students should check the departmental requirements to identify the designated "W" course for a specific major. "W" courses introduce students to the specialized reading and writing practices in the major, and, in many cases, also cover significant conceptual content. Students may elect to take "W" courses out of their major fields of study, but they are recommended to contact the instructor first to discuss the way reading and writing instruction is incorporated in the course and to check the course descriptions for the prerequisites.

Here is a listing of the "W" courses offered by departments:

<b>Courses:</b>	<b>Credits:</b>
Acc 430W Income Tax Accounting	4
Acc 436W Auditing - Theory and Practice	4
Anth 303W Anthropological Debates	4
Art 385W Contemporary Art Process, Theory, and Criticism: Reading, Writing, and Making	4
Bio 380W Issues in Evolution and Biological Thought	4
BA 302W Human Resource Management	4
BA 309W International Management	3
BA 349W Global Marketing	3
BA 372W Global Business Seminar	4

BA 401W Entrepreneurship and Small Business Management	3
BA 407W Management Consulting	4
BA 445W Marketing Strategy and Policy	4
BA 481W Cases in Financial Management	4
Chem 300W At the Forefront of Chemical Research	3
CSIS 361W Computers and Human Issues	4
Econ 364W Macroeconomic Theory	4
Ed 317W Writing and Reading for Educators	3
Engl 268W Reading Texts/Writing Texts	4
ES 301W Current Issues in Sport	3
ES 302W Issues in Health and Well-Being	3
Geol 380W Technical Writing in Geology	4
Hist 396W Philosophy and Methods	4
Math 300W Writing in Mathematics	3
ML 320W Advanced Spanish Conversation and Composition II	4
Mu 415W Literature and Conversation: Writing about Music	3
Phil 305W Writing Philosophy	4
Phil 480W/PS 480W Contemporary Political Thought	4
Phys 397W Writing Techniques in Physics I	2
Phys 495W Writing Techniques in Physics II	2
PS 250W Introduction to Political Analysis	4
PS 251W Advanced Research Methods	4
PS 480W/Phil 480W Contemporary Political Thought	4
Psyc 296W Psychological Research Methods	4
Soc 210W Sociological Inquiry and Research Methods	4
Soc 300W Theories Of Social And Personal Life	4
SW 301W Writing in the Southwest Studies Discipline	3
Thea 340W Modern Theatre	4

### **WRITING ELECTIVES**

The Writing Program offers an intermediate academic writing elective: Comp 250 Academic Inquiry and Writing. This course guides students through the process of proposing, conducting, and presenting an independent academic research project.

Several elective courses are also offered each year under the experimental Comp 190/390 course number. For a current listing of elective offerings, see the course schedule under "Comp." Recent offerings have included "Writing as Environmental Action," "Writing as Witness," "Writing as Community Action," "Weird Texts," and "Polishing Your Writing."

### **SPEECH ELECTIVE**

The Writing Program offers Comp 115, Speech A Rhetorical Act. By combining the rhetorical arts of writing and speaking, this course teaches students to compose messages appropriate for the occasion, purpose, and audience.

### **WRITING ELECTIVES OFFERED BY DEPARTMENTS**

A number of departments offer writing electives that students may wish to take to broaden their exposure to different writing practices. Students should consult the catalog description to determine prerequisites. Here is a listing of writing electives offered by departments:

#### **Courses:**

#### **Credits:**

BA 221 Writing in the Business World	3
BA 348 Public Relations	3
Engl 215 News Media Writing	4
Engl 315 Media Writing: Topics	4
Engl 363 Advanced Composition	4
Engl 464 Creative Writing	4
SW 115 Native American Newsletter	3
Thea 369 Playwriting	4

### **THE WRITING CENTER**

The Writing Center's motto is "Building better writers!" Students can go to the Writing Center for help with any kind of writing assignment or project at any stage in the writing process (from generating ideas, to establishing an organizational structure, to polishing a final draft). The Writing Center, located at Sage 105B, is staffed by faculty and trained peer tutors. Its services are available to all FLC students at no charge.



# School of Arts and Sciences

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### **Lib 150 Information Literacy: Introduction To Research Methods (1-0) 1**

This course examines the role information plays in daily life, how information is generated, and how it is organized. Emphasis will be on accessing and critically evaluating information, especially within the context of conducting research in an academic library.

### **Composition Comp 115 Speech: A Rhetorical Act (3-0) 3**

Composing messages appropriate for the occasion, purpose, and audience is critical to being a successful speaker. In this course that combines the rhetorical arts of writing and speaking, students analyze others' presentations and compose and deliver presentations of their own.

### **Comp 125 Reading In College (Intensive) (3-0) 3**

This course introduces students to the purposes and practices of scholarship, with an intensive emphasis on the interplay of reading and writing in academic work. This course is designed for students who need a more closely guided and intensive introduction to academic reading and writing.

Comp 125 and Comp 126 are college-level courses; students who need remedial instruction should complete TRST 90 and/or TRST 91 (C- or better), as recommended, before enrolling in Comp 125.

Completion of Comp 125 and Comp 126 will fulfill the first-year academic writing requirement; a student may not receive credit for Comp 150 if s/he has received credit for Comp 125 and Comp 126.

Prerequisites: Placement into Comp 125 or completion (C- or better) of recommended remedial coursework.

### **Comp 126 Writing in College (Intensive) (3-0) 3**

In this course students analyze a variety of academic texts in different research literatures and complete an intensive series of writing assignments to teach them how to interpret arguments, identify constraints and bias, organize and present evidence, and compose their own contributions to intellectual dialogues. This course is designed for students who need a more closely guided and intensive introduction to academic writing.

Completion of Comp 125 and Comp 126 will fulfill the first-year writing requirement; a student may not receive credit for Comp 150 if s/he has received credit for Comp 125 and Comp 126.

Prerequisites: Comp 125 (C- or better).

### **Comp 150 Reading And Writing In College (4-0) 4**

This course emphasizes the interplay of reading and writing in an academic environment. Students will analyze a variety of academic texts and complete a series of writing assignments designed to teach them how to interpret arguments, identify constraints and bias, organize and present evidence, and compose their own contributions to intellectual dialogues.

Prerequisites: Placement in Comp 150.

### **Comp 250 Academic Inquiry And Writing (4-0) 4**

This course guides students through the process of proposing, conducting, and presenting an independent academic research project. Offered on demand. Prerequisites: Comp 126 or Comp 150. This prerequisite is waived for students admitted to the John F. Reed Honors Program who are enrolled in an Honors-designated section of this course.

