

## Fort Lewis College 2003-04 ACADEMIC CALENDAR

[Fall Trimester 2003](#)

[Winter Trimester 2004](#)

[First 5-Week Session 2004](#)

[Second 5-Week Session 2004](#)

[Third 5-Week Session 2004](#)

### FALL TRIMESTER 2003

\*Classes begin Monday, September 1

Deadline for adding classes (Census date)

**Tuesday,  
September 16**

Deadline for dropping individual classes without a recorded grade (Census date)

**Tuesday,  
September 16**

Mid-term grades due

**Monday,  
October 20, Noon**

Winter Trimester Registration:

Advising

**Monday-Friday,  
October 27-November 7**

Registration

**Monday-Friday,  
November 10-21**

Thanksgiving Break

**Monday-Friday,  
November 24-28**

\*\*Last Day of Classes

**Friday,  
December 12**

Final Exams

**Monday-Friday,  
December 15-19**

Commencement

**Saturday,  
December 20**

Final Grades Due	<b>Saturday, December 20, Noon</b>
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## **WINTER TRIMESTER 2004**

*Classes begin	<b>Monday, January 12</b>
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Deadline for adding classes (Census date)	<b>Tuesday, January 27</b>
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Deadline for dropping individual classes without a recorded grade (Census date)	<b>Tuesday, January 27</b>
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Mid-term grades due	<b>Monday, March 1, Noon</b>
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Spring Break	<b>Monday-Friday, March 8-12</b>
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Fall Trimester & Summer Registration:

Advising	<b>Monday-Friday, March 15-26</b>
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Registration	<b>Monday-Friday, March 29-April 9</b>
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**Last day of classes	<b>Friday, April 23</b>
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Final exams	<b>Monday-Friday, April 26-30</b>
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Commencement	<b>Saturday, May 1</b>
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Final grades due	<b>Monday, May 3</b>
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## **1ST 5-WEEK SESSION 2004**

*Classes begin	<b>Monday, May 3</b>
Deadline for adding classes (Census date)	<b>Friday, May 7</b>
Deadline for dropping individual classes without a recorded grade (Census date)	<b>Friday, May 7</b>
**Last day of classes	<b>Friday, June 4</b>
Final grades due	<b>Monday, June 7</b>

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## **2ND 5-WEEK SESSION 2004**

*Classes begin	<b>Monday, June 7</b>
Deadline for adding classes (Census date)	<b>Tuesday, June 11</b>
Deadline for dropping individual classes without a recorded grade (Census date)	<b>Tuesday, June 11</b>
**Last day of classes	<b>Friday, July 9</b>
Final grades due	<b>Monday, July 12</b>

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## **3RD 5-WEEK SESSION 2004**

*Classes begin	<b>Monday, July 12</b>
Deadline for adding classes (Census date)	<b>Tuesday, July 16</b>
Deadline for dropping individual classes without a recorded grade (Census date)	<b>Tuesday, July 16</b>

**\*\*Last day of classes**

**Friday,  
August 13**

**Final grades due**

**Monday,  
August 16**

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**\*This date is also deadline for submitting petitions for in-state residency and the date for withdrawing without tuition and fee charges**

**\*\*This date is also the deadline for withdrawing from the term (see the Pro-rata schedule in the Tuition & Fee brochure or [www.fortlewis.edu](http://www.fortlewis.edu))**

## **Fort Lewis College**

### **2003-04 Academic/Campus Policies**

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## **REQUIREMENTS FOR 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. Many students choose to use electives to complete the requirements for a minor or teacher licensing.

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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### **Senior Year Transfer Program**

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.

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## **Major**

Each student seeking a baccalaureate degree must select a major area of study for specialization. For a complete list of majors and descriptions, see the Majors, Minors, Options, and Licensing Programs.

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## **Double Major**

Double Major is defined as two majors earned simultaneously, with the same baccalaureate degree (i.e. both being a Bachelor of Arts or Bachelor of Science).

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 updated in the Records Office. Courses meeting auxiliary requirements may count in meeting curriculum requirements for both majors. Both majors must be completed prior to graduation.

Students wishing to complete a second major after the first major has been completed and conferred, must complete a minimum of 30 additional credits including the major requirements.

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## **Student-Constructed Major**

The College has established the student-constructed major to meet particular needs and purposes. Students interested in developing a Student Constructed Major should contact the Academic Advising Center. Student Constructed Majors differ substantially from course combinations and emphases that are available through majors in the established curriculum. Recent student-constructed majors have been completed in criminal justice, French, German, international studies, agricultural economics, women’s studies, and environmental

studies. Student-constructed major contracts need to be submitted to the Records Office no later than when a student Petitions to Graduate (completes 80 credits).

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## **Minors**

Minors, even though not required for graduation, are offered. Requirements for a minor are described in the Majors, Minors, Options, and Licensing Programs section of this catalog. No more than one course from the major department will count toward any minor. If a minor is chosen, it must be completed prior to graduation.

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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 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, BSN, BMA) 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.

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

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## **Four-Year Graduation Agreement**

Beginning in Fall 2003 qualified freshmen are invited to participate in Fort Lewis College's "Finish in Four" four-year graduation agreement program. Through this program, students are provided with a graduation plan and are ensured timely access to courses required for graduation. For more information, contact the New Student Advising & Registration Office at (970) 382-6985.

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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 a graduation checklist. At the same time, the student's account will be automatically assessed the graduation fee. The student will receive a second graduation checklist the term prior to their term of anticipated graduation.

Students with a Student Constructed Major must have their approved contract filed with the Records Office at the time they Petition to Graduate.

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## **Commencement and Graduation**

There are two commencement ceremonies each year: in December, following the fall term and in April or early May, following the winter term. A student may participate in only one commencement ceremony. Each student is assigned to the commencement ceremony that occurs at the end of the term in which the student completes ALL degree requirements. Students completing graduation requirements in any of the three summer sessions will be assigned to the April/May commencement ceremony.

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.

The graduation date will be based on all requirements being fulfilled by the following term's Census Date. Any requirements, grade changes, or adjustments submitted after Census Date will automatically change the graduation date to the next term.

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## **REGISTRATION PROCEDURES**

### **Academic Advising**

970-247-7085

All degree-seeking students must meet with their academic advisors at least once a term to review their progress towards 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. 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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## Registration

970-247-7350

The College requires all students to meet with their assigned faculty advisor prior to 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 new and currently registered continuing students using their student identification number, personal PIN number and alternate PIN number.

Registration is held in mid-November for the winter trimester and in late March for the fall trimester and summer terms.

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## Schedule Modification Procedures

Once students have registered for classes, they may process schedule modifications through WEBOPUS:

**Course Drop:** A course drop may be processed using WEBOPUS through census day of the term. After 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 add courses with available seats using WEBOPUS through the first five days of the fall or winter 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 fall and winter trimester 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 end of the first week of the course.

## ***Regularly scheduled courses cannot be added 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.

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. Through Census Day, courses may be dropped via Webopus from a student's registration and will not appear on the student's transcript.

After Census Day, a student may withdraw from individual classes using a 'Course Drop Form', available in the Records Office. The instructor must assign a grade of W or F. Students wishing to withdraw from an entire term should follow withdrawal procedures found on the Fort Lewis College Web Site.

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## **Registration 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. **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 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, 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 in WEBOPUS and also under “Your Right To Know” on Fort Lewis College’s homepage at **www.fortlewis.edu**. 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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**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:

<b>Freshman</b>	Fewer than 30 semester credits
<b>Sophomore</b>	30-59 semester credits
<b>Junior</b>	60-89 semester credits
<b>Senior</b>	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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## 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, 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 trimester. 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.

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## Catalog for Graduation

Normally 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 any subsequent catalog between then and the time of their graduation. Students may choose between the catalogs but may not combine them. 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.

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## Course Cancellations

The College reserves the right to cancel a class, for any trimester, if enrollment is not deemed sufficient.

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## Transcripts

Fort Lewis does not charge a fee for transcripts. 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 of 1974, also know as the Buckley Amendment, helps protect the privacy of student records. The Act provides for the right to inspect and review educational records, to seek to amend those records, and to limit disclosure of information from the records. The Act applies to all institutions that are the recipients of federal funding under any program administered by the Secretary of Education.

When a student reaches the age of 18 or begins attending a postsecondary institution, regardless of age or dependency status, FERPA rights transfer from the parent to the student. FERPA applies to all students who are currently enrolled, or were formerly enrolled, and does not apply to deceased students or persons who have applied but have not attended.

Institutions may disclose information on a student without violating FERPA if it has designated the information as “directory information.” At Fort Lewis College, this includes (as defined by the Student Handbook):

- student’s name, addresses, telephone numbers, and Fort Lewis College e-mail address
- date and place of birth
- major and minor fields of study
- dates of attendance
- degree information including degree and date conferred, honors and awards information
- class and enrollment status
- participation in recognized college activities and sports

most recent school attended

Students must be notified annually of what constitutes directory information. Students may, if they desire, request that directory information not be released. Such a request must be submitted in writing to the Records Office by the last day to add classes (Census Date).

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## ACADEMIC POLICIES

### Grading

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

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

**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.

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 receive a W or F, rather than an incomplete.

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 used to compute a 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.

**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.**

**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.

**Pass-Fail Electives.** 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 with the exception of Student Teaching and Study Abroad transfer credits. 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.

**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 audit a course and later wish to obtain regular credit for the same course may do so by special examination, for an additional fee, or by repeating the course for regular credit. Repeating a previously audited course does not count against the 12 repeatable credits.

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## Attendance

Regular class attendance is expected, with instructors determining the extent to which absences affect final grades.

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## Final Exams

Separate days are set aside for final examinations at the close of each trimester. It is the student’s responsibility to take all final examinations.

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## 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 less than 15 hours of college level work, 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:

<b>Summa Cum Laude</b>	Grade point average of 3.8 to 4.0
<b>Magna Cum Laude</b>	Grade point average of 3.6 to 3.79
<b>Cum Laude</b>	Grade point average of 3.4 to 3.59

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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 of Winter standings in May. Grades from courses completed during summer terms are not used in determining academic standing. The following table outlines the criteria used to decide academic standings.

<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)  Suspension the third consecutive term this occurs
0.99 or lower	Suspension

Less than 2.00 students who are readmitted from suspension or dismissal must complete their first term back in Good academic standing (term GPA 2.00 or higher) or they will be academically dismissed.

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## **Academic Dismissal**

Academic dismissal occurs when a student has a GPA of less than 2.00 after being readmitted from suspension or the first term following readmission from suspension.

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## **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. 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.

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 FLC. Detailed information on the process for petitioning for academic renewal may be found on the Fort Lewis College web site.

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## **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.

**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.

**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).

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## Communication Policy

**College use of electronic mail** - Electronic mail is an official means for communication within Fort Lewis College. Therefore, the College has the right to send communications to students via electronic mail and the right to expect that those communications will be received and read in a timely fashion.

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## ACADEMIC SUPPORT PROGRAMS

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

970-247-7569

**Colorado Louis Stokes Alliance for Minority Participation** - Since 1996, the CO-LSAMP 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. It is funded by a grant from the National Science Foundation.

Student opportunities provided by CO-LSAMP include tutoring, research opportunities, internships, scholarships, academic success skills, and other fun events.

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## Computing and Telecommunications Resources

ResNet Support Line: 247-6899

Computer Lab Support Line: 247-7119

Student Account Support Line: 247-7022

Student computer labs are located in each of the main classroom buildings. There are also many smaller clusters of computers in academic and support services departments. The labs are typically open seven days a week with one lab in Reed Library being open twenty-four hours a day.

Student computer accounts are created within twenty-four hours of registration that allow access to the Internet, electronic mail, and campus computer resources.

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

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## **Disability Services**

970-247-7459

In accordance with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990, Fort Lewis College makes reasonable accommodations on an individual basis. Students desiring accommodations must submit to Disability Services current and complete documentation, as specified in Fort Lewis College documentation guidelines, as early as possible after being admitted so that accommodations and services may be arranged in a timely manner.

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## **“El Centro” Latino Student Center**

970-247-7654

“El Centro” is located in #21 North Complex, just behind the Center of Southwest Studies. It 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. Comfortable space to study and socialize, computers, and a kitchen are available. Everyone is welcomed. Opportunities are provided to practice Spanish.

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

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## **Health Career Advising**

A great variety of exciting careers in human or animal medicine, health, and disease await well-prepared Fort Lewis College students. Today’s professional schools emphasize the importance of a liberal arts education and do not recruit students from one specific major or discipline. Therefore, students interested in careers in medicine, dentistry, veterinary medicine, optometry, pharmacy, and physical therapy, to name but a few options, will find themselves well prepared and competitive as the result of a Fort Lewis College liberal arts education.

The most popular majors for pre-med students are Biology and Chemistry, but pre-med

students have majored in a variety of disciplines including P.E. (Exercise/Sport Sciences), Psychology, History, Philosophy, Communications, Art, and Anthropology. While each professional school will list course prerequisites for admission, increasing emphasis is placed on communication and analytical skills, cumulative grade point average, letters of recommendation, extracurricular activities, and an interview. Thus, the undergraduate years offer an opportunity to explore many academic areas, to develop basic skills and knowledge, and to demonstrate achievement in a chosen major. Since most allied health and medical professions have similar preparation requirements at the undergraduate level, students have the option of fine-tuning or changing specific career paths along the way.

Students planning health careers should become familiar with the specific admissions requirements of the professional schools in which they have an interest. The Departments of Biology and Chemistry offer specialized advisement and graduate application assistance through an Allied Health Committee. You will find faculty members available and eager to assist you in determining a “best fit” on the basis of your natural strengths, abilities, and values. Contact Department Chairs for more information.

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## **Learning Assistance Center**

The Learning Assistance Center, located in Noble Hall, Room 280, helps students improve their academic skills in areas such as note-taking, time management, test-taking, studying for math courses, and studying for courses that emphasize memorization through workshops and individual appointments. The LAC also helps students improve their academic performance in specific courses by coordinating a peer tutor program. Workshops and tutoring schedules are available at the LAC office. LAC services are open to all students.

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## **Legal Career Advising**

Pre-law advising is important for students who are interested in entering law school after completing a Bachelor’s degree. Pre-law advisors are available to provide academic planning and career counseling.

Students may approach one of the following advisors directly:

Kenyon Bunch, Ph.D. Political Science Department, 219 Noble. 247-7357.

Haeryon Kim, J.D., Ph.D. Academic Advising Center, 140 Miller. 382-6985.

Nancy Oppenheim, J.D., M.A., Ph.D. School of Business Administration, 188 EBH. 247-7093.

Suzanne Wilhelm, J.D., LL.M. School of Business Administration, 154 EBH. 247-7307.

Unless one of the pre-law advisors is your major advisor as well you still need an advisor in your major department.

No specific major fields are required nor preferred by law schools. Law schools are looking for excellence in reading, writing, and analytical and critical thinking. Consult your pre-law advisor in selecting courses.

Since the admissions standards for law school vary significantly by the individual institutions, it is important to research admissions standards for the law schools to which you wish to apply. Grade point average (GPA) and Law School Admission Test (LSAT) score are the two numerical components that all schools take into consideration. Visit the Law School Admission Council's website. For more information on pre-law advising, contact the Advising Center at 970-247-7085.

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## **Library**

Circulation 970-247-7270/Reference 970-247-7551

John F. Reed Library is an open access library serving the campus and the region. Any community member is welcome to use the library's services. The public reference area has over 20 computer stations with Internet access and there is no charge for this access. To check out material or order items through Interlibrary Loan, a community member can fill out a Local Patron form and receive a Fort Lewis College library card.

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## **Math Center**

The Math Center, located in Noble Hall, Room 150, offers drop-in assistance to students enrolled in remedial and entry-level college mathematics courses. Many students do their homework at the Math Center. The Math Center is staffed by faculty from the Freshman Mathematics Program and the Mathematics Department and by peer tutors. The Math Center's services are open to all students.

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## **Native American Center**

970-247-7292

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 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.

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## **Program for Academic Advancement**

970-247-7692

The Program for Academic Advancement (PAA), a federally funded TRIO program, offers students the guidance and support they need to succeed at Fort Lewis College. PAA offers individualized services to program participants.

**Eligibility.** To be eligible for PAA, a student must meet certain requirements established by the U.S. Department of Education. Contact PAA for details.

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## **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 in Sage Hall, Room 105B, is staffed by faculty and trained peer tutors. The Writing Center's services are open to all students.

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## **SPECIAL ACADEMIC PROGRAMS**

### **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.

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.

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**Advanced Placement**

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 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 the College Entrance Examination Board, Box 592, Princeton, NJ 08550.

<b>Advanced Placement Test Course Title Credits</b>	<b>Fort Lewis College Equivalency</b>	
	<b><i>Course Title</i></b>	<b><i>Creds.</i></b>
<b><i>Art</i></b>	Art 190 Art	6
	Art 190 Art – Drawing	6
<b><i>Art-Drawing</i></b>	Art 262 Art History to the Renaissance	4
	Art 263 Art History from the Renaissance	4
<b><i>Art-History</i></b>	Bio 113 Intro Biology II	4
	Bio 190 Biology	2
<b><i>Biology</i></b>	Chem 191 Chemistry	4
	Chem 190 Chemistry	2
<b><i>Chemistry</i></b>		



<b>Computer Science A</b>	CSIS 106 Intro Prog in Visual	4
	Basic	2
	CSIS 190 Computer Science	
<b>Computer Science AB</b>	CSIS 110 Intro to Programming	4
	(Java)	2
	CSIS 190 Computer Science	
<b>Economics (Microeconomics)</b>	Econ 262 Microeconomics	2
	Econ 190 Economics	
<b>Economics (Macroeconomics)</b>	Econ 272 Macroeconomics	2
	Econ 190 Economics	4
<b>English (Score=3) (Lang and Comp)</b>	Engl 191 Language and	3
	Composition	3
	Engl 190 Language and	
<b>English (score=4+) (Lang and Comp)</b>	Composition	
	Comp 150 Reading & Writing	4
	College	2
<b>English (score=3) (Literature/Comp)</b>	Engl 190 Language and	
	Composition	
	Engl 191 Literature and	3
<b>English (score=4+) (Literature/Comp)</b>	Composition	3
	Engl 190 Literature and	
	Composition	
<b>Environmental Science</b>	Comp 150 Reading & Writing	4
	College	2
	Engl 190 Literature and	
<b>French</b>	Composition	
	Bio 120 Environmental	3
	Conservation	3
<b>German</b>	Bio 190 Environmental Science	
	ML 147 Elementary French I	4
<b>Government and Politics (United States)</b>	ML 148 Elementary French II	4
	ML 123 Elementary German I	4
	ML 124 Elementary German II	4
	PS 110 US National Government	4
	PS 190 Government and Politics	4

<b>History (United States)</b>	Hist 280 Survey US History 1600-1877	3
	Hist 281 Survey US History 1877-Present	3
<b>History (European)</b>	Hist 160 Survey Western Civ I	3
	Hist 261 Western Civ II	3
<b>Latin</b>	ML 109 Intro Latin I	4
	ML 110 Intro Latin II	4
<b>Mathematics (Calculus AB)</b>	Math 121 Pre-Calculus	4
	Math 190 Calculus	2
<b>Mathematics (Calculus BC)</b>	Math 221 Calculus I	4
	Math 190 Calculus	2
<b>Music Theory</b>	MU 128 Theory & Musicianship I	5
	MU 190 Music Theory	1
<b>Physics B</b>	PhSc 105 The Physical Sciences	3
	Phys 190 Physics	3
<b>Physics C</b>	Phys 201 College Physics	5
	Phys 190 Physics	1
<b>Psychology</b>	Psy 157 Intro to Psychology	3
	Psy 190 Intro to Psychology	3
<b>Statistics</b>	Math 201 Elementary Statistics	4
	Math 190 Statistics	2

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**ACT Credit**

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: ACTTest Fort Lewis CollegeEquivalency

English Engl 190 Special Topics 3  
Science PhySc 105 The Physical Sciences 3

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## CLEP

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:

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.[Return to Special Academic Programs](#)

## International Baccalaureate

4. Fort Lewis 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.

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## Cooperative Education Program

970-247-7321

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.

Students are eligible to participate in Co-op after they have completed their freshman year with a minimum 2.5 cumulative grade point average. The appropriateness and type of cooperative educational experience depends on the student's background as well as personal and career goals. The amount of co-op credit that counts toward graduation depends on the academic major.

Grading is on a credit (S) or no-credit (NC) basis.

For information and assistance contact the Cooperative Education Office, Room 260 EBH.

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## **English As A Second Language Programs (ESL)**

Fort Lewis College offers an Intensive English Program each summer for international students. The program 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 FLC.

For further information, contact the ESL Program Director, at 970-247-7615, or write to 278 Education/Business Hall, Fort Lewis College, 1000 Rim Drive, Durango, CO 81301.

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## **Enrichment Program**

Enrichment courses are one or two credit 'mini-courses' that are numbered 190 and/or 390 and, when offered, are announced after student census day each semester. Enrichment courses are graded pass/fail. No more than 12 Pass/Fail credits are allowed to be counted towards elective graduation credits. These courses cannot be counted as requirements for the major, but the credits will count as elective credits toward graduation. Students are limited to taking no more than two of these special courses per trimester.

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## **Honors Program**

For information about the John F Reed Honors Program, please contact Dr. Carol Smith at [smith\\_carol@fortlewis.edu](mailto:smith_carol@fortlewis.edu).

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## Independent Study

At Fort Lewis College, Independent/Individualized Studies (299 & 499) courses are defined as student learning experiences structured and supervised by a faculty member. Students formally enroll during the period of research or independent study. The Independent/Individualized Studies should be completed in the term in which they are approved.

The amount of credit earned for each independent study course will be based on the number of hours the student will take to complete it. Credit hours, and documentation of hours completed, will be determined and recorded by the instructor of record. There will be a maximum of 8 credits of 299/499 toward the degree.

Students will complete a minimum of 50 hours of work for each credit hour earned. Prior approval to assure that the independent project is commensurate with the above number of credits will be given by the respective instructor, department chair/area coordinator and dean. The appropriate form and directions may be obtained through the Records Office website.

Independent Study courses should not be used to take the place of a course not being offered.

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## INTERNATIONAL PROGRAMS

970-247-7650

### Exchanges

Exchanges are reciprocal agreements with partner institutions where 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 Students. Foreign students must apply through their home institutions for any financial assistance. Contact the International Student Exchange Office for details.

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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

970-247-7650

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 Fort Lewis College 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 FLC records and grade point average. Financial aid normally can be arranged as usual.

Information and applications may be obtained from the International Programs Office.

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## Mexico Programs

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 who are interested should contact the chair of the Sociology Department.

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## **Military Service Credit**

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.

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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 FLC 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 Business School students in their Junior year, it is open to all FLC students with junior standing 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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## **Service Learning, Center for**

970-247-7641

The Center for Service Learning is an academic support program which provides experiential and service oriented learning experiences for students. The Center staff assists faculty and students in linking academic study with engagement in a range of regional, community based needs and issues in areas of human service, environmental activism and community organizing. Because the Center serves as host to Volunteer Central, the Four Corner's only regional volunteer clearinghouse, students may access hundreds of service and volunteer opportunities according to areas of their interest. The Center provides placement advising and support, academic credit, community based (off campus) work-study opportunities and Americorps educational scholarships for participating students.

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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 and winter terms for the coming summer.

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## TRS – Transitional Studies

Transitional Studies courses 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 that can be applied to financial aid and housing requirements. Students receive letter grades for TRS coursework.

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## SCHOLASTIC HONOR SOCIETIES

Scholastic honor societies maintain chapters at the College to recognize outstanding academic achievement by Fort Lewis 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.

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**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.

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**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.

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**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.

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**Lambda Alpha (Chapter Beta of Colorado)** - The National Collegiate Honors Society for Anthropology was founded in 1968. The society encourages and stimulates scholarship and research in anthropology by recognizing and honoring superior achievement in the discipline among students and faculty engaged in the study of anthropology. Membership eligibility is at least 12 hours of anthropology coursework and a cumulative GPA of at least 3.25.

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**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.

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**Phi Alpha Theta** – Phi Alpha Theta is the national honor society that recognizes outstanding scholarship among history students. The Fort Lewis chapter was established in 1964-65 and is the College's oldest, continuously active honor society.

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**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.

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**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.

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**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.

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**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 to continue the effort of understanding human nature.

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**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.

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**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.

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**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.

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**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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## GENERAL EDUCATION

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

[\*I. Composition\*](#)

[\*II. Quantitative Reasoning\*](#)

[\*III. Thematic Studies 1 & 2\*](#)

[\*IV. Information Literacy\*](#)

[\*V. Physical Activity and Wellness\*](#)

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 may also count towards the major, students will have added opportunity to experience the goals and philosophy of a liberal arts education throughout their entire college career.

### 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 and Writing in College.

## 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 towards 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.

### *EXEMPTIONS (FOR COMP 150)*

Students who demonstrate outstanding writing ability may be exempted from Comp 150, entitled “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.

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## II. Quantitative Reasoning

Students may satisfy the Q – requirement in one of two ways:

1. They may take a traditional math or statistics course. This option is intended for students whose major includes quantitative reasoning. It is not any one course that provides quantitative reasoning skills to these students but rather their program of study as a whole. Effectively this will be measured by having taken one course on the Traditional Math or Statistics Course List:

Traditional Math or Statistics Course List:

BA 253Q Business Statistics

Math 110Q College Algebra OR any subsequent math course with a Q designation

Math 201Q Elementary Statistics

Psyc 241Q Basic Statistics for Psychologists

2. The second option is to take a course that specifically addresses quantitative reasoning skills and provides a general, meaningful quantitative experience. This will be measured by having taken a course on the Quantitative Reasoning Course List:

Quantitative Reasoning Course List:

Econ 201Q Personal Finance

Math 105Q College Mathematics

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### **III. 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 (x). After completing all four TS1 courses, the Quantitative requirement, Comp 150 or 126 and Lib 150 plus 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 catalog 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 catalog and course schedule.

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## **IV. 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.

## **V. Physical Activity and Wellness**

Three courses of 1 credit each are required: ES 100, 1 skills course, and 1 fitness course.

**General Education requirements look like this:**

Composition	Credits	
First-Year Writing	4-6	
Major Field Writing	3-4	
Information Literacy	1	
Quantitative Reasoning	3-4	
Thematic Studies	Level 1	Level 2
Culture, Identity & Expression (R)	3-4	3-4
Systems & Institutions (S)	3-4	3-4
Technology (T/Tx)	3-4	3-4
Natural Environment (N/Nx)	3-4	3-4
Physical Activity & Wellness		
Fitness & Wellness	1	
PE Skills course	1	
PE Fitness course	1	
Total General Education Credits	39-50	

## ACADEMIC FACULTY 2003-04

[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

**ARMENT, DONNA**, Librarian and Assistant Professor (2002)

B.A., Fort Lewis College, 1994

M.L.S., Drexel University, 1997

**AZUA, JUNE RODRIQUEZ**, Assistant Professor of Teacher Education (2000)

B.S., Texas Tech University, 1998

M.Ed., Texas Woman's University, 1993

Ph.D., Texas A & M University, 1998

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**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 Associate 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

**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

**BROOKS, ROBERT WILLIAM**, Assistant Professor of Biomechanics (2002)

B.S., University of Idaho, 1977

M.S., University of Wisconsin, Madison, 1979

Ph.D., Washington State University, 1993

**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**, 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 Southwest Studies (1994)

B.S., Eastern Oregon State College, 1969

M.A., Wichita State University, 1971

Ph.D., University of California, 1993

**BURKE, BRIAN ALLAN**, Visiting Instructor of Psychology, 2003

B.S., McGill University, 1997

M.A., The University of Arizona, 2001

**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

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**CAMPI, LISA CLARE**, Assistant Professor of Music (2002)

B.M., Indiana University, 1991

M.M., University of Maryland, 1993

D.M.A., Eastman School of Music, 2002

**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

**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**, Field School Director of Anthropology

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**, Assistant Professor of History (2002)

B.A., University of Richmond, 1991

M.A., Indiana University, 1995

Ph.D., Indiana University, 2002

**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

**COLBY, CHAD WILLIAM**, Assistant Professor of Art, 2003

B.F.A., Indiana University, 1994

M.F.A., American University, 1998

**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

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**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

**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

**DOTT, CYNTHIA E.**, Assistant Professor of Biology (2002)

B.A., The Colorado College, 1985  
M.S., University of Wisconsin, Madison, 1990  
Ph.D., University of Wisconsin, Madison, 1996

**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

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**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

**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

**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

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**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

FOX, JEFF, Assistant Professor of Political Science (2002)

B.A., Brigham Young University, 1992

M.A., University of Oklahoma, 1996

Ph.D., University of Oklahoma, 1998

**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**, Librarian 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

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

B.A., University of Colorado, 1974

Ph.D., University of Colorado, 1988

**GEHRMAN-SEIS, 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**, Assistant 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**, Associate Professor of Geology (1998)

B.S., Fort Lewis College, 1982

M.S., Northern Arizona University, 1988

Ph.D., The University of Kansas, 1997

**GOOLD, CHRISTINE KAYE**, Visiting Instructor of English

B.A., Fort Lewis College, 1981

M.A., Colorado State University, 1992

**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

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**HALE, ANA NANCY**, Developmental Studies Writing Specialist  
B.A., University of California, Berkeley, 1970

**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

**HELM, MONTE LEE**, Assistant Professor of Chemistry, 2003  
B.S., Minnesota State University, 1995  
Ph.D., University of Colorado, 2000

**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

**HUGGINS, ERIC L.**, Assistant Professor of Business Administration (2002)  
B.S., Harvey Mudd College, 1991  
M.S., University of Michigan, 1993  
Ph.D., University of Michigan, 2002

**HUNT, DAVID J.**, Associate Professor of Art (1978)  
B.A., Brigham Young University, 1967  
M.A., Brigham Young University, 1969

**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

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**IRISH, BRIDGET JANE**, Writing Program Director

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

[Return to Top](#)

**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

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**KENDALL, DEBORAH MARIE**, 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.**, Associate 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

**KORB, JULIE EDITH**, Assistant Professor of Biology (2002)

B.A., University of Colorado, Boulder, 1994

M.B.S., University of Colorado, Boulder, 1997

Ph.D., Northern Arizona University, 2001

**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

**KRAUS, SUSAN MARIE**

B.S., Penn State University, 1988

M.A., University of Colorado, Boulder, 1991

Ph.D., University of Colorado, Boulder, 1993

[Return to Top](#)

**LANCASTER, KURT WARREN**, Assistant Professor of English (2002)

B.A., Principia College, 1989

M.A., University of Maine, 1991

Ph.D., New York University, 1999

**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., Colorado University, 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

[Return to Top](#)

**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**, Associate 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

**McCORMICK, PETER**, Assistant Professor of Southwest Studies, (2003)

B.G.S., The University of Kansas, 1993

M.A., Northern Arizona University, 1995

PhD., University of Oklahoma, 1999

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

B.A., University of Kentucky, 1972

M.A., Indiana University, 1974

Ph.D., Northwestern University, 1986

**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

**MILOFSKY, ROBERT ERIC**, Professor of Chemistry (1992)

B.S., Bates College, 1987

Ph.D., University of Colorado, 1991

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

B.A., Mary Washington College, 1981

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**, Professor of Art (1991)

B.A., University of Iowa, 1979

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

M.F.A., University of Nebraska/Lincoln, 1991

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

B.A., Texas A&I University, 1977

M.B.A., Texas A&I University, 1982

Ph.D., University of Georgia, 1990

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**NINNEMANN, JOHN LOUIS**, Dean of Arts and Sciences and Professor of Biology (2000)

B.A., Saint Olaf College, 1966

M.S., North Dakota State University, 1968

Ph.D., Colorado State University, 1971

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**OPPENHEIM, NANCY ANN**, Associate Professor of Business Law (1997)

B.A., Claremont McKenna College, 1983

J.D., University of California/Los Angeles, 1986

M.A., University of Hawaii/Manoa, 1993

Ph.D., University of Texas/Austin, 1996

**ORR, DELILAH GAYLE**, Associate Professor of English (1991)

B.A., Fort Lewis College, 1971

M.Ed., Harvard University, 1975

Ph.D., Arizona State University, 1999

**ORTEGA, CATHERINE P.**, Associate Professor of Biology (1997)

B.A., University of Colorado, 1987

Ph.D., University of Colorado, 1991

**ORTEGA, JOSEPH C.**, Professor of Biology (1991)

B.A., University of California/Los Angeles, 1980

Ph.D., University of Colorado, 1988

**OWEN, DUGALD LEE**, Associate Professor of Philosophy (1990)

A.B., Stanford University, 1974

M.A., University of California/Berkeley, 1982

Ph.D., University of California/Berkeley, 1991

**OWINGS, STEPHANIE JANE**, Assistant Professor of Economics (2000)

B.A., University of Southern California, 1985

M.A., University of California, Los Angeles, 1988

Ph.D., George Mason University, 1996

[Return to Top](#)

**PALKO-SCHRAA, SUSAN MICHELE**, Visiting Instructor in the Writing Program

B.A., University of New Mexico, 1982

M.A., University of New Mexico, 1985

**PENNINGTON, JOHN CHARLES**, Associate Professor of Music (1993)

B.A., University of Arizona, 1986

M.M., University of Michigan, 1988

D.M.A., Arizona State University, 1996

**PERTANT, ISABELLE**, Visiting Instructor of Modern Language

B.A., Universite Lumiere, 1989

**PETERSEN, PAUL W.**, Professor of Exercise Science (1984)

B.A., University of Northern Iowa, 1972

M.A., University of Nebraska, 1976

Ph.D., University of New Mexico, 1995

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**REBER, MICK**, Professor of Art (1968-76, 1981)

B.F.A., Brigham Young University, 1966

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

**RICHES, SUSAN M.**, Professor of Anthropology (1971)

B.A., Eastern New Mexico University, 1964

M.A., University of Wisconsin/Madison, 1970

Ph.D., University of Wisconsin/Madison, 1976

**RIGGS, CHARLES ROSS, JR.**, Assistant Professor of Anthropology (2002)

B.A., University of Arizona, 1990

M.S., University of Arizona, 1994

Ph.D., University of Arizona, 1999

**ROBERTS-CADY, SARAH ELIZABETH**, Assistant Professor of Philosophy (2000)

B.A., Linfield College, 1994

Ph.D., Purdue University, 2000

**RODERICK, STEPHEN A.**, Vice President for Academic Affairs and Professor of Education (1980)

A.B., MacMurray College, 1966

M.A., University of Iowa, 1970

Ph.D., University of Iowa, 1973

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

Diplom-Dolmetsch, University of Vienna, 1961

M.A., Indiana University, 1965

Ph.D., University of Oregon, 1980

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**SALLINGER-McBRIDE, JAN ELIZABETH**, Associate Professor of Political Science and Women's Studies (1997)

B.A., University of Nebraska, 1984

M.A., University of California, 1987

Ph.D., University of California, 1995

**SALMON, ENRIQUE**, Assistant Professor of Anthropology (1998)

B.A., Western New Mexico University, 1984

M.A., Colorado College, 1990

Ph.D., Arizona State University, 1999

**SANCHEZ-FLAVIN, PATRICIA**, Assistant Professor of Sociology (2001)

B.A., Fort Lewis College, 1993

M.A., University of New Mexico, 1995

Ph.D., University of Kentucky, 2001

**SCHMUDDE, RAYMOND CHARLES**, Visiting Instructor in the Writing Program

B.A., Eastern Illinois University, 1974

M.A., Eastern Illinois University, 1977

**SCOTT, FARON LESLIE**, Associate Professor of English (1992)

B.A., Southern Illinois University, 1984

M.A., University of Missouri, 1986

Ph.D., University of Missouri, 1992

**SEIS, MARK CHARLES**, Associate Professor of Sociology (1997)

B.A., University of Wisconsin, 1987

M.S. University of Wisconsin, 1989

Ph.D., Indiana University of Pennsylvania, 1996

**SELLERS, KEITH FRAY**, Associate Professor of Accounting (2000)

B.S., University of Tennessee, 1980

D.B.A., Memphis State University, 1989

**SELLERS, MINNA DENT**, Librarian and Associate Professor (1995)

B.A., University of New Mexico, 1979

M.A., University of Chicago, 1987

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

B.S., University of Delaware, 1977

M.S. University of Kentucky, 1980

Ph.D., Oregon State University, 1991

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

B.A., Hastings College, 1990

M.S. Oregon State University, 1993

Ph.D., Oregon State University, 1996

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

B.A., University of California, 1975

M.A., California State University, 1983

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

A.B., University of California, 1971

C. Phil., University of California, 1977

Ph.D., University of California, 1980

**SLUSS, THOMAS P.**, Professor of Biology (1980)



B.A., Western Reserve University, 1963

M.A., Kent State University, 1972

Ph.D., University of Arizona, 1977

**SMITH, CAROL LYNN**, Associate Professor of Management/

Communications and Women's Studies and Assistant Vice President for Academic Affairs (1993)

B.A., University of South Florida, 1983

M.A., University of Wyoming, 1985

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

Ph.D., University of Iowa, 1990

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

B.A., University of Colorado, 1959

M.A., University of Colorado, 1961

Ph.D., University of Colorado, 1964

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

B.S., Brown University, 1983

M.A., Wheeling Jesuit University, 1989

Ed.D., Temple University, 2000

**SOIGNIER, JOANN**, Associate Professor of Exercise Science and Director of Intramurals (1986)

B.A., Fort Lewis College, 1984

M.A., Adams State College, 1987

Ed.D., University of Northern Colorado, 2002

**SOMMERVILLE, LESLIE EUGENE**, Associate Professor of Chemistry (1991)

B.S., Fort Lewis College, 1980

Ph.D., University of Minnesota, 1985

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

B.A., Hastings College, 1990

M.S. Oregon State University, 1993

Ph.D., Oregon State University, 1996

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

B.S., University of Pennsylvania, 1962

M.A., University of Pennsylvania, 1963

**STRYKER, RACHEL JOAN**, Visiting Instructor of Sociology (2002)

B.A., Macalester College, 1994

M.A., University of Oklahoma, 1996

Ph.D., University of Oklahoma, 1998

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**TAYLOR, RONALD GENE**, Associate Professor of Teacher Education (1994)

B.A., Southern Colorado State College, 1970

M.Ed., Central State University, 1971

Ed.D., University of Oklahoma, 1979

**THOMPSON-CHARLES, MONA CERISE**, Field School Director of Anthropology

B.A., University of Tennessee, 1976

M.A., University of Nebraska, 1981

**TISCHHAUSER, KATHERINE DAWN JETTER**, Assistant Professor of Music (1997)

B.M., East Carolina University, 1991

M.M., Florida State University, 1993

**TRUJILLO, JENNIFER LANE**, Assistant Professor of Teacher Education

B.A., Fort Lewis College, 1993

M.A., University of Northern Colorado, 1998

Ed.D., The Fielding Institute, 2002

**TYLER, CRAIG EDWARD**, Assistant Professor of Physics (2002)

B.S., University of Pennsylvania, 1996

M.S., University of Chicago, 2000

Ph.D., University of Chicago, 2002

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**VICENTI, CAREY NORLAND**, Assistant Professor of Sociology (1999)

B.S., Oregon State University, 1983

J.D., University of New Mexico, 1985

**VOGL, LAUREL C.**, Professor of Art Emerita

B.F.A., University of Southern California, 1964

M.F.A., Claremont Graduate School, 1968

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**WALKER, DEBORAH LOU**, Assistant professor of Economics (2002)

B.S., Arizona State University, 1980

M.B.A., Arizona State University, 1982

M.A., George Mason University, 1986

Ph.D., George Mason University, 1987

**WALLS, SIMON GEORGE**, visiting Instructor of Marketing (2003)

B.S., Brigham Young University, 1986

M.B.A., Western Washington University, 1988

**WALSTEDTER, ELAYNE SMITH**, Librarian and Associate Professor (1996)

B.A., Fort Lewis College, 1987

M.L.S., Emporia State University, 1995

**WALTERS, MARK ALAN**, Associate Professor of Music (1997)

B.M.E., Henderson State University, 1980

M.M., University of Central Arkansas, 1991

D.M.A., Arizona State University, 1997

**WELLBORN, KATHRYN C.**, Developmental Studies Math Specialist

B.S., Colorado State University, 1972

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

B.A., University of Mississippi, 1959

M.F.A., University of Mississippi, 1964

**WENDLAND, AMY KATHERINE**, Assistant Professor of Art (2000)

B.F.A., Rhode Island School of Design, 1987

M.A., University of Wisconsin, 1999

M.F.A., University of Wisconsin, 2000

**WHEELOCK, RICHARD M.**, Associate Professor of Southwest Studies (1985)

B.A., Fort Lewis College, 1972

M.A., University of Arizona, 1984

Ph.D., University of New Mexico, 1995

**WHITE, WILLIAM SCOTT**, Assistant Professor of Geology (1999)

B.S., Tennessee Technological University, 1987

M.S., Texas Christian University, 1991

Ph.D., University of Utah, 2001

**WILHELM, SARAH ANNE**, Visiting Assistant Professor of Economics

B.B.A., University of Michigan, 1990

Ph.D., University of Utah, 2000

**WILHELM, SUZANNE LYNN**, Assistant Professor of Business Law (2001)

B.S., Eastern Michigan University, 1983

J.D., University of Detroit Mercy School of Law, 1986

L.L.M., Columbia University School of Law, 1991

**WILLIAMS, CARLA C.**, Professor of Engineering (1984)

B.S.S.E., John Brown University, 1969

M.A., University of New Mexico, 1973

Ph.D., University of New Mexico, 1991

**WIXOM, JAMES A.**, Associate Professor of Mathematics and Computer Science (1983)

B.S., University of Utah, 1964

Ph.D., University of Utah, 1971

**WOO, CELESTINE**, Assistant Professor of English (2001)

B.A., Pomona College, 1989

M.A., New York University, 1993

Ph.D., New York University, 1999

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**YOOS, CHARLES JACOB, II**, Visiting Professor of Management

B.S., U.S. Air Force Academy, 1968

M.B.A., University of California, Los Angeles, 1969

D.B.A., University of Colorado, 1978

**YOUNG, CRAIG E.**, Director of Computing and Telecommunications and Assistant Professor (1983)

B.S., Fort Lewis College, 1975

M.S., Arizona State University, 1977

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# Accounting

<b>ACC 225</b>	<b>Intro to Financial Accounting</b>	<b>4</b>
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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. (4-0)

## ACC 226 Intro to Managerial Accounting 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. (4-0)

**Prerequisite:** ACC 225 AND  
(COMP 150 OR GS 151 OR COMP 126 )

**ACC 323W Intermediate Accounting I 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. (4-0)

**Prerequisite:** ACC 226

**ACC 324W Intermediate Accounting II 4**

Continuation of financial accounting theory and problems. In addition, partnership accounting and an introduction to business combinations are covered. (4-0)

**Prerequisite:** ACC 323

## ACC 430W Income Tax Accounting 3

A brief history of the income tax, income tax accounting and a study of current federal income tax provisions are presented. (4-0)

**Prerequisite:** ACC 323 AND BA 221

ACC 431	Income Tax Accounting II	3
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Federal income taxation of partnerships, corporations, S-corporations, estates and trusts, and gifts. (3-0)

**Prerequisite:** ACC 430

<b>ACC 436W</b>	<b>Auditing-Theory And Practice</b>	<b>4</b>
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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. (4-0)

**Prerequisite:** BA 221 AND ACC 323

**ACC 470      Governmental/Not for Profit Accounting      3**

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

**Prerequisite:** ACC 323



# 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:

## GENERAL EDUCATION

**39-50**

See pages 56-59 for General Education requirements.

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

## MAJOR REQUIREMENTS:

See pages 75-76 for SOBA Requirements.

Common SOBA Requirements (see pages 75-76)	42
Quantitative Reasoning Requirements	4
Auxiliary Requirements	4

### Other Departmental Requirements:

Acc 323 Intermediate Accounting I	4
Acc 324 Intermediate Accounting II	4
CSIS 425W Accounting Information Systems	3

Plus select at least 4 courses (only one can be a 4 credit hour course) from the following courses, at least one of which must be Acc 430W or Acc 436W\*:

Acc 430W Income Tax Accounting	3
Acc 431 Income Tax Accounting II	3
Acc 436W Auditing – Theory and Practice	3
Acc 470 Governmental/Not-For-Profit Accounting	3
Any 300 or 400 level accounting elective, including any Accounting 390.	3-4

**Total Other Departmental Requirements 23-24**

**TOTAL MAJOR REQUIREMENTS 73-74**

## FREE ELECTIVES (variable)

**TOTAL REQUIRED FOR GRADUATION 120**

\* In order to maintain the 74 hour maximum Total Major Requirements, only one 4 hour accounting elective may be selected.

<sup>1</sup> 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.*

**For information regarding CMA, CPA, and other professional certifications and requirements in states other than Colorado, please see an accounting professor.**

**Accounting Majors Suggested Course Sequence**

<b><u>First Year</u></b>			
	<b><u>Term 1</u></b>		<b><u>Term 2</u></b>
Econ 266 S	4	Comp 150	4
ES 100	1	LIB 150	1
PE Activity	1	TS 1 (R)	3-4
PE Skills	1	Math	4
TS 1 (N)	4	Elective	3
TS 1 (T)	4		
	<hr/>		<hr/>
	15		15-16

<b><u>Second Year</u></b>			
	<b><u>Term 3</u></b>		<b><u>Term 4</u></b>
ACC 225	4	ACC 226	4
BA 253	4	BA 301	4
BA 221	3	BA 312	3
BA 311	3	BA 340	4
	<hr/>		<hr/>
	14		15

<b><u>Third Year</u></b>			
	<b><u>Term 5</u></b>		<b><u>Term 6</u></b>
ACC 323	4	ACC 324	4
CSIS 322	4	BA 353	4
BA 380	4	CSIS 425	3
TS 2	4	TS 2	3-4
	<hr/>		<hr/>
	16		14-15

<b><u>Fourth Year</u></b>			
	<b><u>Term 7</u></b>		<b><u>Term 8</u></b>
ACC 430	3	ACC Elective	3-4
ACC 436	3	Elective	3-4
ACC Elective	4	BA 496	4
TS 2	4	TS 2	4
	<hr/>		<hr/>
	14		14-16

**Accounting Minor****REQUIREMENTS FOR A MINOR IN ACCOUNTING :**

A student majoring in any discipline other than Accounting may complete a minor in Accounting upon satisfactorily fulfilling the following requirements:<sup>1</sup>

Acc 225	Introduction to Financial Accounting	4
Acc 226	Introduction to Managerial Accounting	4
Acc 323	Intermediate Accounting I	4

**Total** **12**

**Electives:**

Any two upper division Accounting courses with ACC prefix.



<b>Total Elective hours</b>	<b>6-8</b>
<b>TOTAL REQUIRED FOR ACCOUNTING MINOR</b>	<b>18-20</b>

## **Admission**

[Application](#)

[Transfer of Credits](#)

[Transfer Guides for the Colorado Community College and Occupational Education System](#)

[Statewide Transfer Policy](#)

[Colorado Community/Junior College General Education Common Core](#)

[Transfer Agreements and Guides with Non-Colorado Colleges](#)

[Transferring from Fort Lewis College to Other Institutions](#)

[Transfer Inquiry/Appeals Process](#)

[Former Students](#)

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[Unclassified Students](#)

[Concurrent Students](#)

[Colorado Basic Skills Assessment Policy](#)

[Residency Classification for Tuition Purposes](#)

[Admission Delay/Admission Withdrawal Process](#)

## **APPLICATION**

[Application Deadlines](#)

[Freshmen Applicant Requirements](#)

[Recommended High School Coursework for Admission to Fort Lewis College](#)

[Fort Lewis College Admission Criteria](#)

[Transfer Applicant Requirements](#)

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.

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## **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.**

Fort Lewis College applications can be obtained from the Admission Office, **970-247-7184**, FAX **970-247-7179**, [www.fortlewis.edu](http://www.fortlewis.edu), or [admission@fortlewis.edu](mailto:admission@fortlewis.edu).

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## **Freshmen Applicant Requirements**

High school students should submit the application, ACT/SAT Test Scores, official transcripts and a non-refundable application fee to the Admission Office.

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## **Recommended High School Coursework for Admission to Fort Lewis College**

<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
<b>Total Units</b>	<b>15</b>

**These recommendations are based on four years of high school.**

**The work in English should emphasize both reading and writing. Past experience indicates that college freshmen are unprepared for the quantity of both expected of them.**

**College preparatory math should include algebra and geometry and, when a third year is taken, Algebra II.**

**An academic unit is a unit earned in English, modern language, mathematics, natural science, or social science.**

**A unit is accrued when a student takes a course five days a week for one academic year.**

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.

Freshmen are individually advised and registered by the New Student Advising & Registration Office either on campus or by telephone. Generally, advising and registration for Summer sessions and the Fall trimester begins in March and advising and registration for the Winter trimester begins in October. All freshmen must be assessed for basic skills under the Colorado Basic Skills Policy (described in detail at the end of this section). All freshmen are required to attend an orientation session. Orientations for Summer are held the Sunday before the term begins; orientations for Fall are held during the Summer; and orientation for Winter is held Thursday and Friday before the term begins.

Admitted students will be mailed a guide to the advising, registration, and orientation process by the Admission Office. For more information, contact the New Student Advising & Registration Office at (970) 382-6985.

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## **Transfer Applicant Requirements**

Transfer students should submit the application, official transcripts from each college attended and a non-refundable application fee to the Admission Office.

Transfer students who have earned fewer than 12 semester college credits should also have a high school transcript and ACT or SAT results forwarded to the Admission 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 students are individually advised and registered by the New Student Advising & Registration Office either on campus or by telephone. Generally, advising and registration for Summer sessions and the Fall trimester begins in March and advising and registration for the Winter trimester begins in October. All transfer students must be assessed for basic skills under the Colorado Basic Skills Policy (described in detail at the end of this section). All transfer students are required to attend an orientation session. Orientations for Summer are held the Sunday before the term begins; orientations for Fall are held the week before school begins, and orientation for Winter is held Thursday and Friday before the term begins. Admitted students will be mailed a guide to the advising, registration, and orientation process by the Admissions Office. For more information, contact the New Student Advising & Registration Office at (970) 382-6985.

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## **TRANSFER OF CREDITS**

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

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 and 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. 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. Approval will be required to obtain credits in the following areas for major, minor, or auxiliary requirements.

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 these 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 or the catalog indicated by the Articulation Agreement.

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## **TRANSFER GUIDES FOR THE COLORADO COMMUNITY COLLEGE AND OCCUPATIONAL EDUCATION SYSTEM**

Fort Lewis College has Transfer Guides for 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.

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## **STATEWIDE TRANSFER POLICY**

[\*Transfer of Associate of Arts and Associate of Science Degrees\*](#)

[\*Transfer of General Education\*](#)

[\*General Education Categories\*](#)

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### **Transfer of Associate of Arts and Associate of Science Degrees**

Fort Lewis College will honor the transfer of an Associate of Arts (A.A.) degree and the Associate of Science (A.S.) degree earned at a Colorado public institution that offers A.A. or A.S. degrees. A student who completes the graduation requirements for an A.A. and/or A.S. degree program(s) at a Colorado public college, will transfer with **junior standing** into any arts and science degree program offered by a Colorado public four-year college provided that the student earns a “C” or better in each course. This includes the general education courses that are state guaranteed general education. The credits earned in the associate degree program will apply, at minimum, to 35 credit hours of lower division general education and 25 credit hours of elective additional graduation credits. Because all

liberal arts and sciences degrees are designed to be completed in 120 credit hours, a transfer student with proper planning, can complete a four-year degree in the same time as a student attending only Fort Lewis College, 120 hours. Fort Lewis College will evaluate such credit for prior learning, Advanced Placement, and correspondence courses following its standard policy.

[Return to Statewide Transfer Policy](#)

## Transfer of General Education

Colorado's state guaranteed general education courses are designed to allow students to begin their general education courses at one Colorado public higher education institution and later transfer to another without loss of general education credits. That is, the state guaranteed general education may be applied to the general education graduation requirement or the graduation requirements of the declared major, whichever is in the student's best interest. Effective Fall 2003, Colorado policy ensures that students who successfully complete a state guaranteed general education course(s) will receive transfer credit(s) to be applied to graduation requirements in all majors at all public institutions unless a specific statewide articulation agreement exists.

The state's guaranteed general education is organized into 5 five categories: communication, mathematics, fine arts and humanities, social and behavioral sciences, and physical and life sciences. The state general education policy guarantees transfer of 11 state approved general education courses limited to the number of semester credit hours allowed in each general education category (below). Students must earn a C- grade or better in each course.

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## General Education Categories

Sem. Cr. Hr.	General Education Categories
6	<b>Communication:</b> 1 Intro. Writing course (3 semester credits) 1 Intermediate Composition (3 semester credits)
3-5	<b>Mathematics:</b> 1 course (3 to 5 semester credits)
9	<b>Humanities and Fine Arts:</b> Fine Arts and Expression Humanities Ways of Thinking

- 9            **Social and Behavioral Sciences:**  
Select 1 History course  
Select 2 courses from 2 different disciplines
- 8            **Physical and Life Sciences:**  
Select 2 laboratory courses

All state guaranteed general education courses in communication, mathematics, arts and humanities, social and behavior sciences, and physical and life sciences shall be identified by a state-assigned common number.

When evaluating a transfer student's transcript, Fort Lewis College will apply state guaranteed general education credits to its general education graduation requirements. Additional general education coursework may be required.

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## **COLORADO COMMUNITY/JUNIOR COLLEGE GENERAL EDUCATION COMMON CORE**

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 Library and at the various two-year colleges in Colorado under this articulation agreement.

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.

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## **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 College in Arizona. These guides are on the Fort Lewis College web site. Those published agreements and transfer guides govern transfer policies for those two-year colleges.

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

[\*Forestry\*](#)

[\*Engineering\*](#)

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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. If the student follows the prescribed program and maintains the required 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.

### **Forestry**

A transfer agreement in forestry between Fort Lewis College and Northern Arizona University is 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 also offers a 3-2 cooperative program in which the student spends three years at Fort Lewis 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.

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## **TRANSFER INQUIRY/APPEALS PROCESS**

## [Colorado Commission on Higher Education Procedures for Resolution of Student Transfer Disputes](#)

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The inquiry/appeals process is explained below and applies to transfer appeals from Colorado public colleges as well as all other accredited colleges.

#### **The student may appeal:**

a decision regarding the transferability of a specific course(s);  
a decision regarding the placement of a specific course(s);  
the institution's failure to provide a transcript evaluation within the designated thirty (30) calendar day period.

#### **1. The appeal must be submitted in writing to the Records Office . The decisions regarding course transferability and/or placement made in the initial transcript evaluation will be binding if the student fails to file a written letter of appeal within fifteen (15) calendar days.**

- a. The Records Office and appropriate department chair will review the written appeal submitted by the student.
- b. The appropriate department chair will have thirty (30) calendar days to review the student's appeal. The Records Office will inform the student in writing of the department's decision on the appeal, including the rationale for that decision. 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.
- c. If the Records Office fails to inform the student of the available appeal options, the departmental decision shall be null and void. The student's request prevails and cannot be overturned by any institutional administrator or committee.

#### **2. An opportunity to appeal the first appeal decision.**

- a. The student may appeal the first appeal decision by writing the Academic Vice-President of Fort Lewis College. 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.
- b. Fort Lewis College must hear and reach a decision on the appeal within (15) calendar days after the appeal is filed.
- c. 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, the institution shall inform the student that the student may appeal the decision by writing the governing board.

### **3. An opportunity to appeal the institutional appeal decision.**

- a. The student may appeal the institutional decision by writing the Academic Vice-President. 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.
- b. The governing board staff shall review and reach a decision on the appeal within five (5) calendar days after the appeal is filed.
- c. The student will be notified in writing by the governing board 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 letter notifying the student of the governing board's decision.

### **Colorado Commission on Higher Education Procedures for Resolution of Student Transfer Disputes**

The appeals process is to be initiated by the student after all remedies have been exhausted without resolution of the issue at the institutional level.

An appeal is initiated by the student who informs the Commission in writing of the situation and the reason for the appeal. Complete instructions regarding this level of appeal may be found on the CCHE website.

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### **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.

Former students are individually advised and registered for their "re-entry" term by the Academic Advising Center either on campus or by telephone. Generally, advising and registration for Summer sessions and the Fall trimester begins in March and advising and registration for the Winter trimester begins in October. For more information, contact the

Academic Advising Center at **(970) 247-7085**.

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## 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 Office.

Degree-seeking international students are individually advised and registered by the New Student Advising & Registration Office either by e-mail, on campus or by telephone. Consult the information earlier in this section for Freshmen and Transfer students.

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## 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 is required for such a student to apply for regular admission. Unclassified students may need to seek permission from professors to enroll in classes.

Unclassified students are individually advised and registered by the Academic Advising Center either on campus or by telephone. Generally, advising and registration for Summer sessions and the Fall trimester begins in March and advising and registration for the Winter trimester begins in October. Admitted students will be mailed a guide to the advising and registration process by the Admission Office. For more information, contact the Academic Advising Center at **(970) 247-7085**.

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## CONCURRENT STUDENTS

Qualified high school juniors and seniors may be admitted to take Fort Lewis College courses. Concurrent students, in order to be considered for regular admission, must reapply each trimester for admission. Students wishing to participate in this program should obtain further information from the Admission Office or their high school counselor.

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## **COLORADO BASIC SKILLS ASSESSMENT POLICY**

Degree-seeking students admitted after Fall 2001 must fulfill the requirements of Colorado Basic Skills Assessment Policy. The policy was created by the Colorado Commission on Higher Education to implement legislation passed in 2000 by the Colorado Legislature (HB 00-1464). The policy requires students to be assessed at matriculation to determine if they are college-level in reading, writing, and mathematics. Approved assessments are the ACT, the SAT, and Accuplacer. The Colorado Basic Skills Policy is administered by the New Student Advising & Registration Office, which issues Basic Skills Assessment reports to each new student upon registration for courses. Students who do not submit the documentation required for Basic Skills Assessment as specified by the New Student Advising & Registration Office will have a hold placed on their academic records.

There are three assessments possible in each competency area: exempt, college-level, remedial. Students are exempt from all assessment if they already have earned a bachelor's degree or a transfer-oriented associate's degree.

Students are exempt in assessment in reading if they have earned

- a) a C- or better in college composition;
- b) a C- or better in a college preparatory reading course; or
- c) have a documented reading disability.

Students are exempt from assessment in writing if they have earned

- a) a C- or better in college composition;
- b) a C- or better in a college preparatory writing course; or
- c) have a documented writing disability.

Students are exempt from assessment in mathematics if they have earned

- a) a C- or better in a college-level mathematics course;
- b) a C- or better in an intermediate algebra course; or
- c) have a documented disability in mathematics.

Students who are exempt do not need to take further action under the policy.

Students who are assessed as college-level in reading, writing, or mathematics are reported to the Colorado Commission on Higher Education as not needing remediation in the relevant competency area. Students who are college-level in a competency area do not need to take further action under the policy.

Students who are assessed as remedial in reading, writing, or mathematics are reported to the Colorado Commission on Higher Education as in need of remediation in the relevant competency area. Under the Colorado Basic Skills Assessment Policy, students are required to take the appropriate remedial coursework and earn a grade of C- or higher by

the time they earn 30 credits at Fort Lewis College.

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## **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. Residency classifications are determined in accordance with the Colorado Tuition Classification Law, CRS Section 23, Article 7, revised May 1995.

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, and
- (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 ever been denied in-state residency in the past wishes to be reconsidered for in-state residency, the student must submit 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.

**The Colorado Revised Statutes are available in the reference section of the John F. Reed Library at Fort Lewis College.**

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## **ADMISSION DELAY/ADMISSION WITHDRAWAL PROCESS**

New students who wish to delay or withdraw their admission must contact the Admission Office in writing with their request. Students who have reserved space in a residence hall need to contact the Housing Office in writing.

If the student has already registered for classes, the following steps must be followed:

**If the term has not yet started:** Use WebOPUS account to drop all classes in which student is registered. This is done through the Student Services/Registration/Add-

Drop menu. Each class must be dropped individually.

**If the term has started:** Use WebOPUS account to initiate an official withdrawal from the college. This is done through the Student Services/Registration/Withdraw from the Current Term menu. If the withdrawal is made after Census day, a grade of “W” or “F” is assigned by the instructor and this becomes part of the student’s official record.

For assistance with these processes, contact the Academic Advising Center, **970-247-7085**.

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# Fort Lewis College Admission Criteria

## Colorado Commission on Higher Education (CCHÉ) Admission Index

Test Scores			Overall GPA (on a 4.0 Scale)																																					
		GPA	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0								
SAT	ACT	Index	17	18	19	21	23	25	27	29	30	32	34	36	38	39	41	42	44	45	47	48	50	51	53	55	56	58	60	62	65	68								
400	590	11	23	40	41	42	44	46	48	50	52	53	55	57	59	61	62	64	65	67	68	70	71	73	74	76	78	79	81	83	85	88	91							
600	620	12	26	43	44	45	47	49	51	53	55	56	58	60	62	64	65	67	68	70	71	73	74	76	77	79	81	82	84	86	88	91	94							
630	660	13	27	44	45	46	48	50	52	54	56	57	59	61	63	65	66	68	69	71	72	74	75	77	78	80	82	83	85	87	89	92	95							
670	720	14	31	48	49	50	52	54	56	58	60	61	63	65	67	69	70	72	73	75	76	78	79	81	82	84	86	87	89	91	93	96	99							
730	730	15	32	49	50	51	53	56	57	59	61	62	64	66	68	70	71	73	74	76	77	79	80	82	83	85	87	88	90	92	94	97	100							
740	760	16	34	51	52	53	55	57	59	61	63	64	66	68	70	72	73	75	76	78	79	81	82	84	85	87	89	90	92	94	96	99	102							
770	820	17	37	54	55	56	58	60	62	64	66	67	69	71	73	75	76	78	79	81	82	84	85	87	88	90	92	93	95	97	99	102	105							
830	850	18	38	55	56	57	59	61	63	65	67	68	70	72	74	76	77	79	80	82	83	85	86	88	89	91	93	94	96	98	100	103	106							
860	900	19	41	58	59	60	62	64	66	68	70	71	73	75	77	79	80	82	83	85	86	89	89	91	92	94	96	97	99	101	103	106	109							
910	930	20	42	59	60	61	63	65	67	69	71	72	74	76	78	80	81	83	84	86	87	89	90	92	93	95	97	98	100	102	104	107	110							
940	990	21	45	62	63	64	66	68	70	72	74	75	77	79	81	83	84	86	87	89	90	92	93	95	96	98	100	101	103	105	107	110	113							
1000	1020	22	47	64	65	66	68	70	72	74	76	77	79	81	83	85	86	88	89	91	92	94	95	97	98	100	102	103	105	107	109	112	115							
1030	1050	23	48	65	66	67	69	71	73	75	77	78	80	82	84	86	87	89	90	92	93	95	96	98	99	101	103	104	106	108	110	113	116							
1060	1080	24	50	67	68	69	71	73	75	77	79	80	82	84	86	88	89	91	92	94	95	97	98	100	101	103	105	106	108	110	112	115	118							
1090	1120	25	52	69	70	71	73	75	77	79	81	82	84	86	88	90	91	93	94	96	97	99	100	102	103	105	107	108	110	112	114	117	120							
1130	1160	26	54	71	72	73	75	77	79	81	83	84	86	88	90	92	93	95	96	98	99	101	102	104	105	107	109	110	112	114	116	119	122							
1170	1190	27	56	73	75	76	77	79	81	83	85	86	88	90	92	94	95	97	98	100	101	103	104	106	107	109	111	112	114	115	117	119	122							
1200	1230	28	59	76	77	78	80	82	84	86	88	89	91	93	95	97	98	100	101	103	104	106	107	109	110	111	112	114	115	117	119	121	124							
1240	1270	29	61	78	79	80	82	84	86	88	90	91	93	95	97	99	100	102	103	105	106	108	109	111	112	114	116	117	119	121	123	126	129							
1280	1310	30	64	81	82	83	85	87	89	91	93	94	96	98	100	102	103	105	106	108	109	111	112	114	115	117	119	120	122	124	126	129	132							
1320	1370	31	67	84	85	86	88	90	92	94	96	97	99	101	103	105	106	108	109	111	112	114	115	117	118	120	122	123	125	127	129	132	135							
1380	1410	32	70	87	88	89	91	93	95	97	99	100	102	104	106	108	109	111	112	114	115	117	118	120	121	123	125	126	128	130	132	135	138							
1420	1510	33	74	91	92	93	95	97	99	101	103	104	106	108	110	112	113	115	116	118	119	121	122	124	125	127	129	130	132	134	136	139	142							
1520	1560	34	79	96	97	98	100	102	104	106	108	109	111	113	115	117	118	120	121	123	124	126	127	129	130	132	134	135	137	139	141	144	147							
1570	1590	35	83	100	101	102	104	106	108	110	112	113	115	117	119	121	122	124	125	127	128	130	131	133	134	136	138	139	141	143	145	148	151							
1600	1600	36	86	103	104	105	107	109	111	113	115	116	118	120	122	124	125	127	128	130	131	133	134	136	137	139	141	142	144	146	148	151	154							

## Agriculture

## AG 101Tx    Introductory Animal Science    4

Basic introduction to the aspects of animal science, concentrating on products, reproduction, genetics, anatomy, basic production in cattle, sheep, swine and dairy. (3-3)

## AG 102 Principles of Crop Production 4

Basic principles of crop production, concentrating on growth, development, management, utilization and cultural practices dealing mainly with the crops of Colorado. (3-3)

## AG 150 Farm Records and Accounts 3

This course is designed to give proficiency in keeping farm records for income tax and management purposes. (3-0)

## AG 180N Sustainable Agriculture 3

This course will introduce students to the theoretical and practical dimensions 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. (3-0)

## AG 202 Integrated Pest Management/Weed Control 4

Principles and practices of weed control and integrated pest management. The recognition of important weed and insect pests. (3-3)

<b>AG 203T</b>	<b>Introduction to Medicinal Crops</b>	<b>3</b>
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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. (3-0)

<b>AG 204</b>	<b>Forage Production &amp; Management</b>	<b>3</b>
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Principles and practices of forage production and management in the United States. (3-0)

<b>AG 235</b>	<b>Soils and Soil Fertility</b>	<b>4</b>
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A basic course dealing with soil formation, physical and chemical properties, fertility, management and conservation. (3-3)

## AG 240 Principles of Animal Nutrition 4

Digestive anatomy nutrient sources and requirements of livestock, including ration-balancing and analysis of feedstuffs. (3-3)

**Prerequisite:** AG 101

<b>AG 301</b>	<b>Range Management</b>	<b>4</b>
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Application of range science principles in managing rangelands. Major topics include ecology, grazing systems, management principles, range improvements, and range utilization. (3-3)

## AG 325 Beef Science 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. (3-0)

**Prerequisite:** AG 101

## AG 346 Agricultural Marketing 3

An introduction to grain, livestock, and agricultural product marketing in the U.S.. Basic marketing principles and practical marketing strategies will be discussed. (3-0)

**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.

**Prerequisite:** Sophomore standing and minimum 2.5 cumulative GPA required.

# Agriculture

Department Chair - Lee Preston Somers

Associate Professor - Philip E. Shuler;

Associate Professor - John W. Byrd;

Visiting Instructor - Beth A. 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 biology, economics, or chemistry, which would lead to a degree in Agricultural Economics, Agricultural Chemistry, Agricultural Science, or Organic Agriculture.

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:

<b><u>General Education</u></b>	<b><u>Credits</u></b>
Comp 150 Reading and Writing in College	4
Library 150 Information Literacy	1
ES 100 Fitness and Wellness	1
Quantitative Reasoning Q	3-4
Four courses to be selected from	
General Education T, N, S, R (one from each group)	12-16
<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>
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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
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	
TS2T 402 Agricultural Issues in Society	3	

<b>Subtotal Ag Science Electives</b>	<b>minimum 15</b>
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<b>Free Electives Subtotal</b>	<b>4-10</b>
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Suggested Electives:

\*\*Geog 250T Intro To Computer Mapping and GIS  
 Geog 300 Intermediate GIS: Vector-Based Analysis  
 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.

<b>TOTAL REQUIRED FOR GRADUATION</b>	<b>60</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.*

**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.

## Agriculture Minor

*Course listings for the Agriculture Minor begin on page 141.*

**REQUIREMENTS FOR A MINOR IN AGRICULTURE:**

One of the following:

**Ag 101Tx Introductory Animal Science	4	
Ag 102 Principles of Crop Production	4	
Ag 180 Sustainable Agriculture	3	

Additional courses (select three to five of the following):

Ag 150	Farm Records and Accounts	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	

**TOTAL REQUIRED FOR AGRICULTURE MINOR minimum 20<sup>1</sup>**

<sup>1</sup> 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.

## Agroecology/Sustainable Agriculture Minor

**REQUIREMENTS FOR A MINOR IN AGROECOLOGY/SUSTAINABLE AGRICULTURE :**

Specific Departmental Requirements:

Choose one of the following:

Ag 180	Sustainable Agriculture <u>or</u>	
**Ag 101Tx	Introductory Animal Science <u>or</u>	
Ag 102	Principles of Crop Production	3-4

Choose one of the following:

**Bio 250Nx/**SW 250Nx	Ecology of the Southwest <u>or</u>	
Bio 220	Fundamentals of Ecology	4

Choose one of the following:

Ag 370	Internship in Agriculture <u>or</u>	
Soc 320	Community Service <u>or</u>	
Bio 480	Internship in Biology <u>or</u>	
Ag/Bio 299-Ag/Bio 499	Independent Study	3

Other Departmental Requirements:

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	4	
Anth 406	Ethnobotany of the Southwest	4	
Bio 471	Field Ecology	5	
Econ 335	Environmental Economics	4	
**Geog 250T	Intro to Computer Mapping and GIS		4
**Geol 401N	Natural Resources and the Environment	3	
**TS2N 402	Water in the West	3	
Phil 252	Environmental Ethics	4	
Phil 352	Ecology and Morality	4	

PS 205	Environmental Politics	3
SW 330	Cowboys, Cattlemen, and Popular Culture	3
**SW 135R	The Southwest I	3
SW 136	The Southwest II	3

**TOTAL REQUIRED FOR AGROECOLOGY/SUSTAINABLE AGRICULTURE  
MINOR 19-23**

# Anthropology

## **ANTH 120S Anthropology of the Southwest 3**

This course explores the interacting systems of the Greater Southwest from the perspectives of historical, applied, ethnological, and archaeological anthropology. Students will not only examine the ways that the varied southwestern ecosystems have shaped political-economic activities, cultural practices, and geopolitics over time, but the ways that long-term field studies of the Southwest have shaped the discipline of anthropology.

## **ANTH 151S Introduction to Anthropology 4**

A comprehensive, systems-oriented study of general anthropology covering the four major sub fields (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. (4-0)

## **ANTH 171 World Archaeology 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. (4-0)

## **ANTH 201T Introduction to Archaeology 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. (4-0)

## **ANTH 208N Traditional Ecological Knowledge & Cultural Survival 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. (4-0)

## **ANTH 210R Intro Sociocultural Anthropology 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. (4-0)

## **ANTH 213S Peasant Societies 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. (4-0)

## **ANTH 215R Magic and Religion 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. (3-0)

## **ANTH 217R Cultural Images of Women & Men 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 underlie 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. (4-0)

**ANTH 220 Colorado Archaeology 3**

This course covers the prehistoric and historic archaeology of Colorado. It examines the historical development of archaeology in our state, our current state of knowledge and how Colorado archaeology has developed in relation to the wider goals of archaeology. (3-0)

**ANTH 225 Intro to Population Issues 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. (1-0)

**ANTH 236Tx Anthropology 4 Intro Physical & Biological**

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. (3-3)

**ANTH 243S Food: Systems of Production 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. (4-0)

**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.

**ANTH 300 Proseminar in Anthropology 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 of 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. (2-0)

**ANTH 302 Research Issues: Evolutionary Anthropology 2**

An exploration of the changing knowledge base of hominid and primate evolution. (2-0)

**ANTH 303W Anthropological Debates 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 and food and nutrition, among others. (4-0)

**Prerequisites:** (COMP 150 OR COMP 126 OR COMP 250 )  
AND (ANTH 210 OR ANTH 201 )

**ANTH 309 Archaeology of Britain 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. (4-0)

**ANTH 310 Geoarchaeology 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. (4-0)

**ANTH 313 Arch of Ancient Greece & Rome 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. This course counts toward the research and non-New World requirements in the major. (4-0)

**ANTH 314 Greece: Culture, Archaeology, and History 4**

This off-campus course introduces students to the rich culture, archaeology and history of Greece through an intensive study of some of the major archaeological, historical and cultural sites and locations in Greece and the Aegean islands. Students will be expected to participate in all activities and also conduct independent research on topics of their choice. This course requires that the class travel to Greece and the Greek islands and therefore requires additional fees.

**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.

**ANTH 330 Archaeology of the Southwest 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. (4-0)  
**Prerequisite:** ANTH 201

**ANTH 340 Ancient Egypt 3**

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. (4-0)

**ANTH 341 Prehistory Of Europe 4**

This course provides a survey of early cultures of Europe from the earliest evidence of humans until the development of civilizations.

(4-0)

**ANTH 348 North American Archaeology 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.

(4-0)

**Prerequisite:** ANTH 201

**ANTH 350 Ethnology of Mesoamerica 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. (4-0)

**ANTH 351 Ethnology of Andean South America 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. (4-0)

**ANTH 353 Ethnology Of India 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. (4-0)

**ANTH 355 Anthropology of Gender 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. This course is the same as WS 355; credit will be given for only one of these courses. (4-0)

**ANTH 356 Ecological Anthropology 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. (4-0)

**Prerequisite:** COMP 150 OR COMP 126 OR COMP 250

**ANTH 357 Medical Anthropology 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. (4-0)

**Prerequisite:** COMP 150 OR COMP 126 OR COMP 250

**ANTH 360 Legal/Ethical Issues in Archaeology 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. (4-0)

**Prerequisites:** ANTH 201 AND

(COMP 150 OR COMP 126 OR COMP 250 )

**ANTH 361 North American Indians 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. (3-0)

**ANTH 370 Quantitative Methods in Anthropology 3**

This course will examine the use of quantitative methods in anthropological research, through the application of traditional statistical techniques, exploratory data analysis, and GIS. Students will be introduced to various archaeological and ethnographic examples using the tools of SPSS statistical software, GIS, and ArcView. (2-2)

**Prerequisite:** (ANTH 201 OR ANTH 210 )

**ANTH 371 Ethnology Of Amazonian South America 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 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. (3-0)

**ANTH 388 Ethnology of the Southwest 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. (4-0)

**ANTH 395 History of Anthropological Thought 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 student's own intellectual autobiographies. (4-0)

**Prerequisite:** COMP 150 OR COMP 126 OR COMP 250

**ANTH 402 Adv Archaeological Lab Techniques 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. (4-0)

**Prerequisites:** ANTH 259 AND ANTH 403

**ANTH 403 Adv 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.

**Prerequisite:** ANTH 259

**ANTH 406 Ethnobotany of Southwest 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. (4-0)

**Prerequisite:** COMP 150

**ANTH 430 Adv Studies in Southwestern Archaeology 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. (4-0)

**Prerequisite:** ANTH 330

**ANTH 450    Adv Research-Latin American Anthropology        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. (2-0)

**Prerequisites:** ANTH 351 AND ANTH 371

**ANTH 455    Adv Research in Anthropology of Gender    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. (2-0)

**Prerequisite:** ANTH 355

**ANTH 496    Senior Capstone Sem in Anthro                    2**

This course provides a context for advanced reading, writing and seminar discussion centered on integrating the undergraduate 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. (2-0)

**Prerequisites:** ANTH 303 AND ANTH 395

# Anthropology

Course listings for Anthropology begin on page 142.

Department Chair - David L. Kozak  
Professors - Kendall A. Blanchard, Philip G. Duke, Kathleen S. Fine-Dare, Donald R. Gordon, and Susan M. Riches;  
Associate Professor - David L. Kozak;  
Assistant Professors - Enrique Salmón and Charles Riggs;  
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.

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:**

**General Education** **39-50**  
See pages 56-59 for General Education requirements.

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

<u>Specific Departmental Requirements:</u>		
**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 370	Quantitative Methods in Anthropology	3
Anth 395	History of Anthropological Thought	4
Anth 496	Senior Capstone Seminar in Anthropology	2
<b>Subtotal</b>	<b>Specific Departmental Requirements</b>	<b>27</b>

<u>Other Departmental Requirements:</u>		
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, 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, 310, 313, 353, 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

*NOTE: One of these research-based courses may count for two purposes, i.e., archaeology and research  
or sociocultural anthropology and research).*

**Subtotal                      Other Departmental Requirements                      12-20**

**TOTAL DEPARTMENTAL REQUIREMENTS                      39-47**

### **Free Electives (variable)**

Strongly recommended for students going to graduate school:

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.

## **Anthropology - Sociocultural Minor**

### **REQUIREMENTS FOR A MINOR IN SOCIOCULTURAL ANTHROPOLOGY :**

\*\*Anth 210R Introduction to Sociocultural Anthropology 4

\*\*Anth 201T Introduction to Archaeology 4  
OR

\*\*Anth 236Tx Introduction to Physical and Biological Anthropology 4

Two additional courses in sociocultural anthropology,  
one of which must be numbered 300 or above 6-8

Additional anthropology electives 4

**TOTAL REQUIRED FOR SOCIOCULTURAL MINOR                      18-20**

**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.*

**Note:** *No grade of less than C- will be accepted for the minor.*

## **Archaeology Minor**

### **REQUIREMENTS FOR A MINOR IN ARCHAEOLOGY**

\*\*Anth 201T Introduction to Archaeology 4

\*\*Anth 210R Introduction to Sociocultural Anthropology 4  
OR

**Anth 236Tx Introduction to Physical and Biological Anthropology	4
Two additional courses in archaeology, one of which must be numbered 300 or above	6-8
Additional anthropology electives	
OR	
Anth 259 or 403, archaeological field school	4-8
<b>TOTAL REQUIRED FOR ARCHAEOLOGY MINOR</b>	<b>18-20</b>

**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.*

**Note:** *No grade of less than C- will be accepted for the minor.*



# Art

Department Chair - Laurel C. Vogl

Professors - Laurel C. Vogl, and C. Gerald Wells;

Associate Professor - David Hunt and Susan Moss

Assistant Professors - Chad Colby, Michael Freeman and 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 art 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:

### Art Option

<b>General Education</b>	<b>39-50</b>
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See pages 56-59 for General Education requirements.

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

Specific Departmental Requirements:

Art 101	Drawing	4
Art 109	Basic Design	4
**Art 262R	Art History I: Ancient World to Middle Ages	4
**Art 263R	Art History II: Renaissance to Modern World	4
Art 296	Portfolio Review	1
Art 385W	Process, Theory, and Criticism	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>
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<b>Free Electives</b>	<b>31-42</b>
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<b>TOTAL REQUIRED FOR GRADUATION</b>	<b>120</b>
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### Business Art Major Option

Coordinator - Susan Moss, Associate Professor of Art

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>39-50</b>
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See pages 56-59 for General Education requirements.

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

Specific Departmental Requirements

Art 101	Drawing		4	
Art 109	Basic Design	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 271 was inadvertently omitted from the printed version of the course catalog, but it is required for this option.				
Art 296	Portfolio Review		1	
Art 385W	Process, Theory, and Criticism	4		
Art 496	Senior Seminar		3	
An additional 11 credits from the remainder of Art offerings with the exception of Art 162R and Art 273.				
Art 210	is recommended.		11	
Subtotal Specific Departmental Requirements			35	

Auxiliary Requirements from Other Departments<sup>1,2</sup>:

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	

One additional course selected from the following:

ACC 225	Financial Accounting		4	
BA 205	Small Business Venturing	3		
BA 342	Retailing		3	
BA 344	Advertising			3
BA 347	Consumer Behavior		3	

Subtotal Auxiliary Requirements 23-24

<sup>1</sup> Students may not take more than 30 credit hours in accounting, business, and economics.

<sup>2</sup> 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.

Free Electives 11-23

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.

ART CERTIFICATION K-12

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	

Anth 309	Archaeology of Britain	4	
Anth 330	Archaeology of the Southwest		4

Anth 340 Ancient Egypt	4	
Art 391            Appropriate Art History Topics Course		3-4
TS2R 408    Genius, Knowledge, and Representation	4	
Soc 345    Art and Society	4	
Phil 361            Philosophy of Art		4
<b>Subtotal Upper Division</b>	<b>9-12</b>	
<b>Total Required for Art History Minor</b>	<b>20-24</b>	

## Art

<b>ART 101</b>	<b>Drawing</b>	<b>4</b>
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Introduces students to the fundamentals of drawing. Includes traditional representational and imaginative drawing problems, perspective, spatial illusion and composition.(1-6)

<b>ART 109</b>	<b>Basic Design</b>	<b>4</b>
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Introduces design principles and color theory. Two- and three-dimensional design problems are explored. (1-6)

<b>ART 154</b>	<b>Indian Arts/Crafts I</b>	<b>3</b>
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A course that may include basketry, pottery, weaving, dying and other crafts media. Whenever possible, the projects are started with the raw material. This course is the same as SW 154; credit will be given for only one of these courses.(0-6)

<b>ART 162R</b>	<b>Art in the Humanities</b>	<b>3</b>
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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. (3-0)

<b>ART 201</b>	<b>Figure Drawing</b>	<b>3</b>
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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. Instructor permission or pre-reqs required. (0-6)

**Prerequisites:** ART 101 AND ART 109

<b>ART 210</b>	<b>Graphic Design-Desktop</b>	<b>3</b>
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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. (0-6)

**Prerequisite:** ART 109

<b>ART 213</b>	<b>Basic Sculpture</b>	<b>3</b>
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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. Pre-requisites or instructor permission required. (0-6)

**Prerequisites:** ART 101 AND ART 109

<b>ART 224</b>	<b>Basic Painting</b>	<b>3</b>
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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.) (0-6)

**Prerequisite:** ART 101 AND ART 109

<b>ART 226</b>	<b>Watercolor Painting</b>	<b>3</b>
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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. Suggested pre-reqs, Art 101 and Art 109. (0-6)

<b>ART 227</b>	<b>Beginning Mural Painting</b>	<b>3</b>
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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. (0-6)

**Prerequisite:** ART 224

**ART 231 Introduction to Printmaking 3**

A studio experience exploring the materials and methods basic to making prints. Relief, etching, collographic and silk-screen techniques will be emphasized. (0-6)

**Prerequisites:** ART 101 AND ART 109

**ART 243 Basic Photography 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. Consent of instructor or Pre-Reqs required. (0-6)

**Prerequisites:** ART 101 AND ART 109

**ART 250 Ceramics 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. Pre-requisites or instructor permission required. (0-6)

**Prerequisites:** ART 101 AND ART 109

**ART 253 Jewelry and Metalwork I 3**

This course covers the use of basic jeweler's tools such as saws, files, flexible shaft and buffers. Students will work with a variety of jewelry techniques such as overlay, bezel set stones, pieced metal and metal forming. Supplemental processes such as enameling, etching and metal patinating may also be included.

**ART 262R Art Hist I: The Ancient World To The Middle Ages 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. (4-0)

**ART 263R Art Hist II: The Renaissance to the Modern World 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. (4-0)

**ART 265 Art History of The Southwest 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.(3-0)

**ART 271 Art Institutions 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. (4-0)

**ART 273 Art For Elementary Teachers 3**

Contemporary concepts, practices, materials and methods used in the elementary school art program. (2-2)

**ART 292 Independent Media/Research 1-6**

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. (1-0)

**Prerequisite:** ART 201

## Problems and theory of design topics. (0-6)

**Prerequisite:** ART 213

**Prerequisites:** ART 101 AND ART 109

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 a ambitious exhibition schedule. Student experiences will be varied to include facets of gallery organization from public relations and publicity to installing an exhibition with emphasis on design and installation. Consent of instructor required.

**Prerequisite:** ART 224

**Prerequisite:** ART 226

**Prerequisite:** ART 227

Advanced development of printmaking skills with opportunity to do specialized work in one or more areas.

Using a regional approach, this course examines art by Native Americans from Alaska, the Northwest Coast of North America, Plains, Woodlands, California, Northeast, Southeast and Southwest regions of the United States. The influence of tourism, photography, and museums on art, as well as Native American influence on these forces is also examined. Art surveyed ranges from the archaic to the contemporary. This course is the same as SW 368. Credit will only be given for one of these courses.



**ART 385W Process, Theory, and Criticism 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. (4-0)

**Prerequisites:** ART 109 AND (COMP 150 OR COMP 126  
OR COMP 250 )AND LIB 150

**ART 401 Interpretive Drawing 3**

A class of interpretive drawing using skills acquired in previous drawing classes and based on a concept approach to drawing. All media and materials used. May be repeated once for an additional 3 credits. (0-6)

**Prerequisite:** ART 201

**ART 413 Advanced Sculpture II 3**

A continuation of Art 313. May be repeated once for and additional 3 credits. (0-6)

**Prerequisite:** ART 313

**ART 424 Advanced Painting II 3**

A continuation of Art 324. May be repeated once for an additional 3 credits. (0-6)

**Prerequisite:** ART 324

**ART 425 Adv Painting Portrait & Figure 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. (0-6)

**Prerequisites:** ART 224 AND ART 201

**ART 431 Advanced Printmaking II 3**

Continuation of Art 331. May be repeated once for an additional 3 credits. (0-6)

**Prerequisites:** ART 231 AND ART 331

**ART 443 Advanced Photographic Design 3**

Continuation of Art 343. May be repeated for an additional 3 credits. (0-6)

**Prerequisite:** ART 343

**ART 450 Advanced Ceramics II 3**

Continuation of Art 350. May be repeated for and additional 3 credits.(0-6)

**Prerequisite:** ART 350

**ART 492 Independent Media/Research 1-6**

In this course students will work independently on a variety of self-directed projects and/or research. Students may work with any Art faculty member, but must have that faculty member's permission. Students must have successfully completed at least one FLC Art Department course. This course is repeatable for additional credits.

**ART 496 Senior Seminar 3**

Advanced study and research in selected topics. Completion of senior portfolio and statement. (3-0)

# 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.

### Core requirements:

One course from the following two:

**Hist 170R Survey of East Asian Civilization I	3
**Hist 171R Survey of East Asian Civilization II	3

### Choose at least one language, culture, or cosmology course from the following:

Anth 353 Ethnology of India	4
ML 135, 136, 235, 236 Japanese Language	4-16
Phil 244R Chinese Philosophy	3
RS 321/Phil 321 World Religions	4
RS 355/Hist 355 East Asian Popular Religion	4
Soc 301 Comparative Societies (acceptable when one of the societies is Asian)	4
Innovative Month Courses on Tibet, Nepal, or India	

### Choose at least one business or economics course from the following:

BA 271 Principles of International Business	2
BA 315 International Business Law	3
Econ 371 International Economics	4

### Choose at least one upper-division history or political science course from the following:

Hist 334 United States and Vietnam	4
Hist 349 Islam in History	4
Hist 352 Modern China	4
Hist 354 Women, Family, and Gender in Chinese History	4
Hist 356 History of Japan	4
Hist 450 Advanced Studies in East Asian History	3
PS 300 Religion and Politics	4
PS 374 Pacific Rim Politics and Issues	4

PS 380	Comparative Communist Systems	4
PS 385	20 <sup>th</sup> Century Socialisms	3
<b>TOTAL REQUIRED FOR RELIGIOUS STUDIES MINOR</b>		<b>minimum 18</b>

**Index**

## Biology

### **BIO 105Tx Issues in Genetic Engineering 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. (3-3)

### **BIO 110Tx Modern Biological Issues 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. Credit not applicable to the Biology Major. (3-3)

### **BIO 112N Intro to Organismic & Evolutionary Bio 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. (4-0)

### **BIO 113 Intro to Cellular & Molecular Bio 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. (3-3)

**Prerequisites:** BIO 112 AND CHEM 150

### **BIO 120N Environmental Conservation 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. (3-0)

### **BIO 121Tx Human Anatomy & Physiology 3**

An introduction to the structure and function of the human body. (2-3)

### **BIO 132T Human Sexuality 3**

Biological aspects of human reproduction supplemented by discussion of medical, societal, psychological and ethical issues. Credit not applicable to the biology major. (3-0)

### **BIO 141N Global Ecological Issues 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. (3-0)

### **BIO 202Nx Plant and Human Affairs 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. (3-3)

**Prerequisites:** (COMP 150 OR COMP 126 OR COMP 250 )  
AND LIB 150

**BIO 206      General Botany      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 relation to humans of the fungi, algae, bryophytes, ferns, gymnosperms and angiosperms. (3-3)

**BIO 207      General Zoology      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.(3-3)

**BIO 210      Survey of Organismic Diversity      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. Intended for the Cellular and Molecular Biology Option. (3-3)

**Prerequisite:** BIO 113

**BIO 220      Fundamentals Of Ecology      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. (3-3)

**Prerequisites:** (BIO 206 OR BIO 207 ) AND MATH 121  
AND (MATH 201 OR PSYC 241 )

**BIO 250Nx      Ecology of the Southwest      4**

This course provides and 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. (3-2)

**BIO 260      Genetics      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.  
(3-3)

**Prerequisites:** BIO 113 AND CHEM 151

**BIO 270      Foundations of Molecular Biology      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.(3-3)

**Prerequisites:** BIO 260 AND BIO 210

**BIO 302      Systematic Botany      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. (2-6)

**Prerequisite:** BIO 206

**BIO 303      Histology      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. (3-3)

**Prerequisite:** BIO 207

**BIO 304      Field Zoology      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. (4-3)

**Prerequisite:** BIO 207

**BIO 305      Entomology      4**

A study of insect anatomy, physiology, identification, ecology and behavior. Laboratories will emphasize field work and insect family identification. (3-3)

**Prerequisite:** BIO 207

**BIO 310      Pollination Biology      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. (3-3)

**Prerequisite:** BIO 206 OR BIO 207

**BIO 315      Ichthyology      4**

Study of freshwater and marine fishes with emphasis on diversity, adaptations, evolution, ecology and species interrelationships. Laboratory work includes identification of important freshwater and marine species and investigation of behavioral and ecological mechanisms. (3-3)

**Prerequisite:** BIO 207

**BIO 321      General Physiology      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. (3-3)

**Prerequisites:** BIO 206 AND BIO 207 AND (MATH 121  
OR MATH 110 OR MATH 211 OR MATH 210 )  
AND (CHEM 303 OR CHEM 250 )

**BIO 324      Mammalogy      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. (3-3)

**Prerequisite:** BIO 207

**BIO 331      Microbiology      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. (3-3)

**Prerequisites:** BIO 206 AND (BIO 207 OR BIO 210 )  
AND CHEM 150 AND CHEM 151 AND  
(CHEM 303 OR CHEM 250 )

**BIO 334 Ornithology 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. (3-3)

**BIO 342 Embryology & Developmental Biology of the Vertebrates 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 on the basis of cellular and molecular events during ontogeny. (3-3)

**Prerequisite:** BIO 207

**BIO 350 Mycology 4**

A survey of the Kingdom Fungi, covering classification, physiology, development, ecology, genetics and environmental relationships peculiar to the fungi. (3-3)

**Prerequisites:** BIO 206 AND CHEM 151

**BIO 360 Bryophytes & Lichens 4**

A course treating the taxonomy, morphology, ecology, reproduction and evolution of the Bryophytes and Lichens. (3-3)

**Prerequisite:** BIO 206

**BIO 380W Issues in Evolution & Biological Thought 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 Ag 380W. (4-0)

**BIO 385 Desert Biology 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. (3-0)

**Prerequisites:** BIO 206 AND BIO 207 AND CHEM 150  
AND CHEM 151

**BIO 407 Evolution 3**

A survey of the current explanations of evolutionary mechanisms. (3-0)

**BIO 455 Cellular & Molecular Biology 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. (3-3)

**Prerequisite:** BIO 270 AND CHEM 251

**BIO 456 Cell Physiology 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. (3-3)

**Prerequisites:** BIO 321 AND BIO 455  
AND (CHEM 251 OR CHEM 311 )



**BIO 460      Immunology      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. (3-3)

**Prerequisites:** BIO 270 AND BIO 331 AND CHEM 251

**BIO 470      Wildlife Management      4**

This course examines the current principles of wildlife management, including populations, managing habitat, wildlife resources, behavior, wildlife diseases, predators, brood parasites, mitigation, hunting, introduced and endangered species, farming, grazing, laws and policies, balancing opposing views, and learning from mistakes of the past. A hands-on participatory approach is taken, and visits are made to on-the-ground projects with state and Federal agencies. (3-3)

**Prerequisites:** BIO 206 AND BIO 220

**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.

**Prerequisites:** BIO 220 AND BIO 302 AND BIO 304

**BIO 480      Internship in Biology      1-3**

Directed work experience in the biological sciences. Minimum requirements are that the 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.

**BIO 496      Senior Seminar      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. (2-0)

**Prerequisite:** MATH 201

**BIO 497      Senior Thesis      2**

Advanced study and individual field/lab research in a topic of the student's choosing. This course is a continuation of Bio 496. (1-3)

**Prerequisite:** BIO 496

# Biology

Department Chair - Lee Preston Somers

Professors - David W. Jamieson, Deborah M. Kendall, J. Page Lindsey, John L. Ninnemann, Joseph C. Ortega, Thomas P. Sluss, and Preston Somers;

Associate Professors - John W. Byrd, Sherell Kuss Byrd, John M. Condie, and Catherine P. Ortega;

Assistant Professors - Clare A. Beelman, Cynthia E. Dott and Julie Korb.

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:

### The General Biology Option

#### General Education

See pages 56-59 for General Education requirements.

\*\* 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	Issues in Evolution and Biological Thought	4	
Other biology courses, excluding cooperative education and internship		11	
Bio 496	Senior Seminar	2	
Bio 497	Senior Thesis	2	
<b>Subtotal</b>	<b>Specific Departmental Requirements</b>	<b>47</b>	

Writing course within discipline:

Included in Specific Departmental Requirements above.

Auxiliary Requirements:

Chem 150-151Tx	Fundamentals of Chemistry	8	
Chem 250-251	Organic Chemistry	8	
**Math 121Q	Pre-calculus	4	
**Math 201Q	Elementary Statistics	4	

**Subtotal Auxiliary Requirements 24**

Recommended Courses (suggested for those students anticipating graduate school):

Math 221Q, 222Q Calculus I, II  
 Phys 201, 202 College Physics I, II  
 Chem 311 General Biochemistry I

**Free Electives (variable)**

**TOTAL REQUIRED FOR GRADUATION 120**

**General Biology Option Suggested Course Sequence**

Fall Freshman Year		Winter Freshman Year	
Bio 112 N	4	Bio 113	4
Chem 150	4	Chem 151Tx	4
Math 110Q*	1	Math 121Q	4
Lib 150		Comp 150	4
	13**	Total	16
Total			
Fall Sophomore Year		Winter Sophomore Year	
Bio 207	4	Bio 206	4
Chem 250	4	Chem 251	4
Math 201Q	4	ES 100	1
TS 1 Gen Ed	4	TS 1 Gen Ed	4
Total	16	Total	13**

Fall Junior Year		Winter Junior Year	
Bio 220	4	Bio 321	4
Bio 260	4	Bio 380	4
TS 2 Gen Ed	4	Upper Division Electives	4
PE Skills course	1	course	
Upper Division Electives course	4	TS 2 Gen Ed	4
		PE Fitness course	1
Total	17	Total	17
Fall Senior Year		Winter Senior Year	
Bio 496	2	Bio 497	2
Two Upper Division Biology courses		Upper Division Biology	
TS 2 Gen Ed	8	course	4
	4	TS 2 Gen Ed	4
		Upper Division Elective	
		course	4
Total	14**	Total	14**
<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, medical school, veterinary, or graduate school.

Your biology faculty advisor can help you with the selection of these courses.

**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 Environmental Biology Option

### General Education 39-50

See pages 56-59 for General Education requirements.

\*\* 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 302	Systematic Botany	4
Bio 304	Field Zoology	5
Bio 380W	Issues in Evolution and Biological Thought	4
Bio 471	Field Ecology	5
Other biology courses (in the 300- or 400-series) (excluding internship)		3

Bio 496	Senior Seminar	2	
Bio 497	Senior Thesis	2	
<b>Subtotal</b>	<b>Specific Departmental Requirements</b>	<b>49</b>	

Writing Course Within Discipline:

Included in Specific Departmental Requirements above.

Auxiliary Requirements from Other Departments:

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</b>	<b>Auxiliary Requirements</b>	<b>32</b>	
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Recommended Electives (to be selected in consultation with student's advisor):

Bio 331	Microbiology
Bio 305	Entomology
Bio 324	Mammalogy
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 & II

**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.*

**Environmental Biology Option Suggested Course Sequence**

Fall Freshman Year		Winter Freshman Year	
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
Total	13**	Total	16

Fall Sophomore Year		Winter Sophomore Year	
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
Math 201Q	4		
Total	17	Total	16

Fall Junior Year		Winter Junior Year	
Chem 365	4	Bio 220	4
TS 2 Gen Ed	4	Bio 380	4
PE Skills course	1	TS 2 Gen Ed	4
Ag 301	4		
Total	13**	Total	12**

Fall Senior Year		Winter Senior Year	
Bio 302	4	Bio 497	2
Bio 496	2	Upper Division Biology	
TS 2 Gen Ed	4	course	3
Upper Division Elective		PE Fitness course	1
course	3	TS 2 Gen Ed	4
Total	13**	Total	10**

Junior/Senior Year 2 <sup>nd</sup> SummerSession		Senior Year 3 <sup>rd</sup> Summer Session	
Bio 304	5	Bio 471	5
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, or graduate school. Your Biology faculty advisor can help you with the selection of these courses

## The Cellular and Molecular Biology Option

**General Education** **39-50**  
See pages 56-59 for General Education requirements.

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

<u>Specific Departmental Requirements:</u>	
**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 the Vertebrates
OR	
Bio 456	Cell Physiology
OR	
Bio 460	Immunology 4
Bio 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</b>	<b>Auxiliary Requirements</b>	<b>24</b>
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**Free Electives (variable)**

<b>TOTAL REQUIRED FOR GRADUATION</b>	<b>120</b>
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**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		Winter Freshman Year	
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
Total	13**	Total	16

Fall Sophomore Year		Winter Sophomore Year	
Bio 210	4	Bio 270	4
Bio 260	4	Chem 251	4
Chem 250	4	Math 201Q	4
TS 1 Gen Ed	4	ES 100	1
		TS 1 Gen Ed	4
Total	16	Total	17

Fall Junior Year		Winter Junior Year	
Bio 321	4	Bio 380	4
Bio 331	4	TS 2 Gen Ed	4
TS 2 Gen Ed	4	PE Fitness course	1
PE Skills course	1	Elective course	4
Upper Division Elective course	4		
Total	17	Total	13**

**Fall Senior Year****Winter Senior Year**

Bio 496	2	Bio 497	2
Bio 455	4	Bio 342 OR Bio 456 OR Bio 460	4
Upper Division Elective course	4	TS 2 Gen Ed	4
TS 2 Gen Ed	4	Upper Division Elective course	4
Total	14**	Total	14**

<b>Total Upper Division Credits</b>	<b>52</b>	<b>Total Credits</b>	<b>120</b>
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\*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 biology career, medical school, veterinary, or graduate school. Your Biology faculty advisor can help you with the selection of these courses.

## The Biology for Secondary Education Option

### General Education 39-50

See pages 56-59 for General Education requirements.

\*\* 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	Issues in Evolution and Biological Thought	4
Bio 496	Senior Seminar	2
Bio 497	Senior Thesis	2

### Subtotal Specific Departmental Requirements 36

#### Auxiliary Requirements from Other Departments:

Chem 150 -**151Tx	Fundamentals of Chemistry	8
Chem 250	Organic Chemistry	4
**Math 201Q	Elementary Statistics	4
Geol 107Nx	Earth Systems Science	4
Phys 201	College Physics	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 in Secondary	4
ED 495	Student Teaching	15

### Subtotal Auxiliary Requirements 57

### 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.*

## Biology Minor

### 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	
	OR	
Bio 207	General Zoology	4
Two upper division biology courses		6-8
<b>TOTAL REQUIRED FOR BIOLOGY MINOR</b>		<b>18-20</b>

## Board of Trustees for Fort Lewis College\*

		Term Ends
Linda Campbell	Ignacio	2005
Peter R. Decker	Denver	2005
Rita C. Kahn	Denver	2004
Ronald W. Pettigrew	Durango	2007
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\*In addition, a faculty representative and a student representative are elected under the jurisdiction of the Board of Trustees for Fort Lewis College as non-voting members.

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**HUBERT WILLIAMS**, Director of Native American Center

**RICHARD C. WILLIS**, Director of Financial Aid

**CRAIG E. YOUNG**, Director of Computing and Telecommunications

## Business Administration

### **BA 101      Business World      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. (4-0)

### **BA 205      New Business Venturing      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 businesses and e-commerce. (3-0)

### **BA 220      Speaking in the Business World      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. (1-2)

**Prerequisite:** (COMP 150 OR COMP 250 OR COMP 126 )

### **BA 221      Writing in the Business World      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. (3-0)

**Prerequisites:** (COMP 150 OR COMP 126 OR COMP 250 )  
AND ACC 225 AND LIB 150

### **BA 240      Business Creativity & Innovation      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. (2-0)

### **BA 253Q      Business Statistics      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, Psyc 241 and Math 201. (4-0)

**Prerequisites:** (MATH 110 OR MATH 121 OR MATH 210  
OR MATH 221 or math placement score MA 121)  
AND (COMP 150 OR COMP 126 OR COMP 250 )

### **BA 255   Statistical Inference and Computer Applications      1**

This course is designed as a follow-up to a three-hour basic statistics course from another school. The

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. (3-0)

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. (3-0)

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. (4-0)

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. (4-0)

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. (3-0)

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. (3-0)

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. (3-0)

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. (3-0)

## BA 315 International Business Law 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. (3-0)

**Prerequisites:** BA 260 AND BA 221

**BA 316      Tourism & Recreation Law      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. (3-0)

**Prerequisite:** (COMP 150 OR COMP 126 OR COMP 250 )

**BA 317      Technical Analysis Securities      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. (3-0)

**Prerequisite:** BA 380

**BA 330      Tourism and Resort Management      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. (4-0)

**BA 339      Selling      3**

This course focuses on the relationship between buyer and seller, the selling process, buyer behavior, negotiations and the communication process. (3-0)

**Prerequisite:** BA 340

**BA 340      Marketing      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. (4-0)

**BA 342      Retailing      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. (3-0)

**Prerequisite:** BA 340

**BA 344      Advertising      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. (3-0)

**Prerequisite:** BA 340

**BA 346      Managing Customer Value      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. (4-0)

**Prerequisite:** BA 340

**BA 347      Consumer Behavior      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. (3-0)

**Prerequisite:** BA 340

**BA 348      Public Relations      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. (3-0) **Prerequisite:** BA 340

**BA 353      Operations Management      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. (3-2)

**Prerequisites:** (BA 253 OR PSYC 241 OR MATH 201 )  
AND BA 221 AND (BA 301 OR CSIS 110 )

**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.

**BA 372W      Global Business Seminar      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. (4-0)

**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.

**BA 380      Financial Management      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. (4-0)

**Prerequisites:** ACC 226 AND BA 221 AND (ECON 266  
OR (ECON 262 AND ECON 272 ))

**BA 382      Money, Banking & Finance Institutions      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. (4-0)

**Prerequisite:** BA 380

**BA 386      Insurance      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 types of insurance.

(4-0)

**Prerequisite:** BA 380

**BA 387      Real Estate      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 financial techniques of real property. (4-0)

**BA 389      International Finance      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. (4-0)

**Prerequisites:** BA 380 AND BA 271

**BA 401W      Entrepreneurship & Small Business Mngmnt      3**

How to conceive, initiate, organize, manage and operate a small business. (3-0)

**Prerequisites:** BA 340 AND BA 353 AND BA 380 AND BA 221

**BA 402      Electronic Commerce      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 payments 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 401; credit will be given for only one of these courses. (4-0)

**Prerequisite:** CSIS 322

**BA 407W      Management Consulting      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. (2-4)

**Prerequisites:** BA 340 AND BA 353 AND BA 380 AND BA 221

**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.

**Prerequisite:** BA 301

**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.

**BA 439      Marketing & Mgmt of Services      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. (4-0)

**Prerequisites:** BA 340 AND BA 353

**BA 445W      Marketing Strategy and Policy      4**



**Prerequisites:** BA 221 AND BA 260 AND BA 301 AND BA 340  
AND BA 353 AND BA 380 AND (BA 446  
OR ECON 361 OR MATH 210 OR MATH  
OR MATH 350 OR MATH 360)

# Business Administration

## 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, Information Management, International Business, Management, Marketing, 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), Amsterdam School of Business (HES), Ecole Supérieure des Sciences Commercial (ESSCA), Fachhochschule Regensburg (FSR), and the Norwegian School of Management (BI), Orebro University (Sweden), University of Northumbria (Newcastle, England), University of Southern Denmark, University of Savoie (Chambery, France), University of Basque Country (Spain), and Abo Akademi University (Finland). 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, Entrepreneurship and Small Business Management, 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 and Richard A. Podlesnik;

Associate Professors Dale E. Lehman, Frederick H. Mull, Nancy A. Oppenheim, Keith F. Sellers, Carol L. Smith, and Charles O. Tustin;

Assistant Professors Doug Lyon, Stephanie Owings, Herbert Snyder, and Suzanne Wilhelm;

Visiting Professors Patrick McKenzie and Charles J. Yoos, II;

Visiting Instructors Chris Ann Lyon, Ray Schmudde, and 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, Business Administration, 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:**

**General Education 39-50**

See pages 56-59 for General Education requirements.

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

COMMON SOBA REQUIREMENTS:

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

**Subtotal Common SOBA 42**

Quantitative Reasoning Requirement:

Complete one of the following:

BA 446	Marketing Research		4
BA 485	Investments and Portfolio Management	4	
Econ 361	Managerial Economics	4	
**Math 210Q	Survey of Calculus	4	
**Math 221Q	Calculus I		4
**Math 360Q	Introduction to Operations Research	4	

**Subtotal Q Requirement 4**

NOTE: BA 446 and BA 485 are not accepted for Quantitative Reasoning Requirement within Accounting major.

Auxiliary Requirement (outside SOBA):

CSIS 322	Management and Information Systems	4	
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**TOTAL COMMON SOBA REQUIREMENTS 50**

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.

### Group W Requirement

To complete the college Group W requirement, Accounting, Business Administration, and Economics majors must take one of the Group W courses designated for the major or option. Some majors and options have designated only one course as fulfilling the Group W requirement; other majors and options have designated multiple courses of which students should choose at least one. In all cases the Group W courses satisfy other requirements in the major and need not add additional required hours. BA 221 Writing in the Business World is a prerequisite for all Group W writing courses in the School of Business Administration.

### Prerequisite Statement:

Acc 225, Acc 226, Econ 266S, and Comp 150 are prerequisites for 300- and 400-level courses offered by the School of Business Administration. Students with majors offered by the School of Business Administration should complete these courses BEFORE the start of the junior year or substantial delay in graduation may result. Students may not enroll in 300- or 400-level business courses until Comp 150 and BA 221 have been completed and the student has attained junior standing (60 or more credit hours completed). Any exceptions require the written approval of the School of Business Administration Dean or Assistant Dean.

## Business Administration/Economics Majors

### Suggested Course Sequence<sup>1</sup>

Freshman Year			
Fall		Winter	
BA 101	4 <sup>2</sup>	Econ 266 S	4
TS 1 Gen Ed and /or Electives	9	Comp 150	4
ES 100	1	Lib 150	1
		TS 1 Gen Ed and/or Elective	4
Total	14	Total	13

Sophomore Year			
Fall		Winter	
Acc 225	4	Acc 226	4
BA 260 S	3	BA 253	4
BA 221	3	TS 1 Gen Ed and/or Elective	8
PE Activities	1		
TS 1 Gen Ed and/or Electives	4		
Total	15	Total	16

Junior Year			
Fall		Winter	

BA 301	4	BA 353	4
BA 380	4	BA Electives	4
Q/R Course	4	CSIS 322	4
BA 340	4	TS 2 Gen Ed and/or Elective	4
Total	16	Total	16

Senior Year			
Fall		Winter	
BA Electives	7	BA 496	4
TS 2 Gen Ed and/or Electives	8	BA Elective	3
		TS 2 Gen Ed and/or Electives	8
Total	15	Total	15

<sup>1</sup> 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.

<sup>2</sup> BA 101 Business 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.

## Business Administration - 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:

### General Education **39-50**

See pages 56-59 for General Education requirements.

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

### Major Requirements:

See pages 75-76 for SOBA requirements.

Common SOBA Requirements (see pages 75-76)	42
Quantitative Reasoning Requirements	4
Auxiliary Requirements	4

### Other Departmental Requirements:

<sup>1</sup> 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:

### **Agriculture:**

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 301	Range Management		4
Ag 325	Beef Science	3	
Ag 390	Special Topics	3	
TS2T 402	Agricultural Issues in Society	3	

**Business Administration/Economics:**

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	

**Subtotal Other Departmental Requirements** **27**

**TOTAL MAJOR REQUIREMENTS** **77<sup>2</sup>**

**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.*

<sup>1</sup> **Completion of this course fulfills the Group W requirement for students in the agricultural business option.**

<sup>2</sup> **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:

**General Education** **39-50**

See pages 56-59 for General Education requirements.

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

**MAJOR REQUIREMENTS:**



See pages 75-76 for SOBA requirements.

Common SOBA Requirements (see pages 75-76)	42
Quantitative Reasoning Requirements	4
Auxiliary Requirements	4

Other Departmental Requirements:

One (1) 300- or 400-level Economics Course	4
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Plus a minimum of 15 credits of business administration courses selected from the following three groups (A, B, C), with at least one course from each group<sup>1,2</sup>

**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 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 370	Topics in International Business	1-6	
BA 372W	Global Business Seminar	4	
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	

**Group C: FINANCE**

BA 317	Technical Analysis—Securities	3	
BA 382/Econ 382	Money, Banking and Financial Institutions	4	
BA 386	Insurance		4
BA 387	Real Estate	4	
BA 389	International Finance	4	
BA 390	Finance Related Courses	3	
BA 437	Internship in Business – Finance Related		3
BA 481W	Cases in Financial Management	4	
BA 485	Investments and Portfolio Management	4	
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.*

<sup>1</sup> Completion of Econ 364W, BA 302W, BA 372W, BA 401W, BA 407W, BA 445W or BA 481W fulfills the Group W requirement for students in the business administration option

<sup>2</sup> 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:

### General Education 39-50

See pages 56-59 for General Education requirements.

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

### MAJOR REQUIREMENTS:

See pages 75-76 for SOBA requirements.

Common SOBA Requirements (see pages 75-76)	42
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#### Other Departmental and Auxiliary Requirements:

<sup>1</sup> 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

Plus choose one of the following 2 options:

General Engineering Option:

Engr 201 Electric Networks I	4
Engr 202 Electric Networks II	
OR	
Engr 317 Mechanics of Materials	3-4

Civil/Surveying Engineering Option:

Engr 205 Surveying I	4
Engr 305 Surveying II	4

**Total Other Departmental Requirements 45-46**

**TOTAL MAJOR REQUIREMENTS 87-88**

**Free Electives (variable)**

**TOTAL REQUIRED FOR GRADUATION 120**

<sup>1</sup> 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:

**General Education 39-50**

See Pages 56-59 for General Education requirements.

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

### MAJOR REQUIREMENTS:

See pages 75-76 for SOBA requirements.

Common SOBA Requirements (see pages 75-76)	42
Quantitative Reasoning Requirements	4
Auxiliary Requirements	4

#### Other Departmental Requirements:

One (1) 300- or 400-level Economics Course 4

<sup>1</sup> 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 Money, Banking and 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
<sup>2</sup> Econ 369 Public Finance	4
<sup>2</sup> Econ 371 International Economics	4
Econ 364W Macroeconomic Theory	4

**Total Other Departmental Requirements 19<sup>3</sup>**

**TOTAL MAJOR REQUIREMENTS 69**

**Free Electives (variable)**

**TOTAL REQUIRED FOR GRADUATION 120**

<sup>1</sup> Completion of this course fulfills the Group W requirement for students in the finance option.

<sup>2</sup> May not be used to fulfill the 300- or 400-level Economics course requirement and the Finance option requirement simultaneously.

<sup>3</sup> 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:

#### General Education 39-50

See pages 56-59 for General Education requirements.

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

#### MAJOR REQUIREMENTS:

See pages 75-76 for SOBA requirements.

Common SOBA Requirements (see pages 75-76)	42
Quantitative Reasoning Requirements	4
<u>Other Departmental and Auxiliary Requirements:</u>	
One (1) 300- or 400-level Economics Course	4
CSIS 106 or CSIS 110 Visual Basic or Java	4
CSIS 322 Management Information Systems (MIS)	4
CSIS 350 Database Management Systems	4
CSIS 360 or <sup>1</sup> CSIS 425W Software Engineering I: Systems Analysis or Accounting Information Systems	4
CSIS 431 Computer Network Administration	4

Plus 4 credits from the list below:

CSIS 370 Software Engineering II: Systems Analysis	4
BA 402/CSIS 402 Electronic Commerce	4
<sup>1</sup> CSIS 361W Computer and Human Issues	4

<b>Total Other Departmental and Auxiliary Requirements</b>	<b>28<sup>2</sup></b>
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<b>TOTAL MAJOR REQUIREMENTS</b>	<b>74</b>
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Free Electives (variable)

<b>TOTAL REQUIRED FOR GRADUATION</b>	<b>120</b>
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<sup>1</sup> Completion of this course fulfills the Group W course requirement.

<sup>2</sup> 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:

<b>General Education</b>	<b>39-50</b>
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See pages 56-59 for General Education requirements.

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

### MAJOR REQUIREMENTS:

See pages 75-76 for SOBA requirements.

Common SOBA Requirements (see pages 75-76)	42
Quantitative Reasoning Requirements	4
Auxiliary Requirements	4

### Other Departmental Requirements:

A minimum of 15 credit hours from the following courses: <sup>1,2</sup>

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	
<sup>3</sup> BA 372W Global Business Seminar		4
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	4
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>
<b>Free Electives (variable)</b>	
<b>TOTAL REQUIRED FOR GRADUATION</b>	<b>120</b>

- <sup>1</sup> The 15 credits used to satisfy an option in International Business may not be used to satisfy any other major, minor or option.
- <sup>2</sup> **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.**
- <sup>3</sup> **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:

### **General Education 39-50**

See pages 56-59 for General Education requirements.

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

### **MAJOR REQUIREMENTS:**

See pages 75-76 for SOBA requirements.

Common SOBA Requirements (see pages 75-76)	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 from the following courses <sup>1</sup> :	
**BA 271R Fundamentals of International Business	3
BA 308 Office Management	3
<sup>2</sup> 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 370 Topics in International Business	1-6
BA 390 Special Topics in Management	1-4

<sup>2</sup> BA 401W Entrepreneurship and Small Business Management	3
<sup>2</sup> 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

**Total Other Departmental Requirements 19**

**TOTAL MAJOR REQUIREMENTS 69**

**Free Electives (variable)**

**TOTAL REQUIRED FOR GRADUATION 120**

<sup>1</sup> 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.

<sup>2</sup> Completion of Econ 364W, BA 302W, 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:

### **General Education 39-50**

See pages 56-59 for General Education requirements.

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

### **MAJOR REQUIREMENTS:**

See pages 75-76 for SOBA requirements.

Common SOBA Requirements (see pages 75-76)	42	
Quantitative Reasoning Requirements	4	
Auxiliary Requirements	4	
<u>Other Departmental Requirements:</u>		
One (1) 300- or 400-level Economics Course	4	
BA 347 Consumer Behavior	3	
<sup>1</sup> BA 445W Marketing Strategy and Policy		4
BA 446 Marketing Research		4

Plus a minimum of 4 credits from the following courses:

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 348 Public Relations		3
BA 372W 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	

**Total Other Departmental Requirements 19<sup>2</sup>**

**TOTAL MAJOR REQUIREMENTS<sup>2</sup> 69**

**Free Electives (variable)**

**TOTAL REQUIRED FOR GRADUATION 120**

<sup>1</sup> Completion of this course fulfills the Group W requirement for students in the marketing option.

<sup>2</sup> 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:

### General Education 39-50

See pages 56-59 for General Education requirements.

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

### MAJOR REQUIREMENTS:

See pages 75-76 for SOBA requirements.

Common SOBA Requirements (see pages 75-76)	42
Quantitative Reasoning Requirements	4
Auxiliary Requirements	4

#### Other Departmental Requirements:

One (1) 300- or 400-level Economics Course	4
BA 330    Tourism and Resort Management	4
BA 437    Internship in Business	3
(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

Plus one additional course from the following:

<sup>1</sup> BA 302W   Human Resource Management	4	
BA 316    Tourism and Recreation Law	3	
<sup>1</sup> BA 407W   Management Consulting	4	
BA 446    Marketing Research		4

**Total Other Departmental Requirements<sup>2</sup> 18-19**

**TOTAL MAJOR REQUIREMENTS 68-69**

**Free Electives (variable)**

**TOTAL REQUIRED FOR GRADUATION 120**

<sup>1</sup> Completion of BA 302 or 407 fulfills the Group W requirement for students in this option.

<sup>2</sup> 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.*

## Business Administration Minor

### 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:<sup>1</sup>

**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>
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<sup>1</sup> **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.**

## **Campus Life and Student Services**

[Activities](#)

[Associated Student of Fort Lewis College \(ASFLC\)](#)

[Athletics](#)

[Bookstore](#)

[Career Services](#)

[Child Development Center](#)

[Clubs and Organizations](#)

[College Union Building](#)

[Conduct Code](#)

[Counseling Center](#)

[Environmental Center](#)

[Food Services](#)

[Health Center](#)

[Housing](#)

[Identification Cards](#)

[Information Desk](#)

[Newspaper, Independent](#)

[Post Office](#)

[Radio, KDUR-FM](#)

[Recreational Services](#)

[Safety on Campus](#)

[SPOT \(Student Programming and Other Things\)](#)

[Wellness Program](#)

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.

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## **ACTIVITIES**

970-247-7394

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 New Student Orientation, Homecoming and Family Weekends, and Commencement ceremonies.

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## **ASSOCIATED STUDENTS OF FORT LEWIS COLLEGE (ASFLC)**

970-247-7455

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. The ASFLC President, Vice President, Financial Director and Senate assist with administrative, academic, budgetary, 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 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.

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## **ATHLETICS**

970-247-7571

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, indoor hockey rink, and a ski hill.

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## **BOOKSTORE**

970-247-7415

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.

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## **CAREER SERVICES**

970-247-7562

The Career Services Office offers services and programs to students, beginning the first year of college, that assist them in decision making, learning how to conduct a professional job search and obtaining work whether part-time while attending college or full-time professional work upon graduation. Some of these services and programs include: educational workshops on resume development, interview techniques, career days, vocational assessment and on-campus recruiting.

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## **CHILD DEVELOPMENT CENTER**

970-247-7679

The Fort Lewis College Child Development Center serves Fort Lewis College students, staff, faculty and Durango community families with affordable early childhood care and education, Monday-Friday, 7:30 a.m. - 5:30 p.m. Children (2 1/2 - 5 years) have nutritious snacks/meals, developmentally appropriate learning, field trips and special activities. Funding is available for Fort Lewis College students and low-income families.

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## **CLUBS & ORGANIZATIONS**

[American Indian Business Leaders \(AIBL\)](#)

[American Indian Science and Engineering Society \(AISES\)](#)

[Anthropology Club](#)

[Association for Computing Machinery \(ACM\)](#)

[Biology Club/Tri Beta Honor Society](#)

[Breakdance](#)

[Business Club](#)

[Campus Ecology Program](#)

[Chemistry Club](#)

[Circle K International](#)

[Cycling Club](#)

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[International Friendship Club](#)

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[Mathematics and Computer Science/Kappa Mu Epsilon Honor Society](#)

[Newman Club](#)

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[Psi-Co-Chi \(Psychology Honor Society\)](#)

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[Student Athletic Training Association \(SATA\)](#)

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**American Indian Business Leaders (AIBL)** This club emphasizes such skills as grant writing, fund raising and public relations among the community. Speakers from throughout the United States lecture on related subjects such as banking, casinos, and corporations.

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**American Indian Science and Engineering Society (AISES)** encourages Native Americans to pursue science, math, engineering and business fields. AISES also provides information on scholarships, internships and job opportunities, as well as a network of contacts and role models.

[Return to Clubs & Organizations](#)

**Anthropology Club** explores the many diverse fields of anthropology. Activities include guest speakers and field trips.

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**Association for Computing Machinery (ACM)** broadens student knowledge and appreciation of computer science, acts as a medium of communication between

students, faculty, and the community. Activities include lectures, field trips, and computer programming contests.

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**Biology Club/Tri Beta Honor Society** is for students interested in biology and promoting the biological sciences. Members of the club raise funds for trips and activities of interest to biology students and participate in community service projects throughout the year.

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**Breakdance** - Students learn the art and fundamentals of breakdancing.

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**Business Club** focuses on networking and community service events. The club hosts the annual Mud Football Tournament - one of the great organized campus traditions at Fort Lewis College. In addition, students network in Las Vegas and participate in Family Fun Day.

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**Campus Ecology Program** aims to promote ecological sustainability and environmental awareness on our campus and in the surrounding community.

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**Chemistry Club** arranges tutor sessions for all chemistry classes. The students raise funds to send interested members to the American Chemical Society National Meeting each spring.

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**Circle K International** members dedicate their time helping out the College, community and nation through service projects. This club is part of an international organization with the Kiwanians being our main supporters.

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**Cycling Club** is an outreach program designed to show students and the Durango cycling community how to truly love cycling. The club is highly acclaimed nationally.

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**Dance Team** is dedicated to providing the opportunity to practice and perform for sporting events. Performances take place during half time of football and basketball home games.

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**Feminist Voice** aims to mobilize support of women's issues through activism, education, and community outreach. Emphasis is on camaraderie and fun.

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**Fourth Wall** - Members are involved in all aspects of theater production: directing, acting, set design and construction, costumes, properties, lighting, public relations and sound.

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**French Club** is composed of students, faculty and community members who practice language skills in a social setting.

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**Geology Club's** purpose is to motivate student involvement in the department, to host professional geologist lectures, and to experience geology field trips. The club cleans a 2-mile stretch of Hwy 550 each year.

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**Habitat for Humanity** encourages awareness of the need to eliminate poverty housing at community, national and global levels. The club empowers students, faculty, and staff to take reciprocal action by working with the local Habitat affiliate. Activities include fundraisers and trips to broaden the perspective of the Habitat mission nationally and internationally.

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**Hang Dog** is committed to taking people into the out-of-doors to experience all aspects of climbing.

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**Images** is a literary arts magazine published by and for the students of Fort Lewis College. Images is a forum for creative expression through art and literature.

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**International Friendship Club** provides social and academic activities for the students of Fort Lewis College for better cross-cultural and international relationships, to serve as a transitional guide for new students, to retain our cultural heritage, and make our cultures known to others.

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**Juggling Club's** purpose is to experiment with and demonstrate different types of juggling.

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**Lacrosse Team** is a competitive collegiate club, playing on the national level. The purpose is to promote the sport of lacrosse, while allowing students access to America's oldest sport for recreation, team building, and life skills.

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**Master Plan Ministries** is a non-denominational, informal student group that focuses on the person of Jesus Christ and the Bible. Activities include weekly large group meetings, bible studies, retreats, and outdoor events.

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**Mathematics and Computer Science** is committed to expand students' interest in mathematics through educational opportunities and activities such as peer tutoring, presentations, speakers, field trips, fundraisers, and social gatherings.

[Return to Clubs & Organizations](#)

**Newman Club** is organized to support and enhance the faith life of students. Activities include scripture reflection, faith sharing, discussions, worship experiences, retreats, and social gatherings.

[Return to Clubs & Organizations](#)

**Percussion Club's** purpose is to further students' music abilities by bringing in

clinicians, conducting master classes and touring.

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**Prism's** purpose is to educate the Fort Lewis College community about gay, lesbian, bisexual and transsexual issues; to support group members, and to celebrate life.

[Return to Clubs & Organizations](#)

**Psi-Co-Chi (Psychology)'s** purpose is to incorporate psychology and service into the Fort Lewis College community.

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**Scarlet Letters'** goals are to host creative-writing readings, participate in the production and process of Images Magazine, create and host community creative-writing and to host authors who share their works and experience with writing.

[Return to Clubs & Organizations](#)

**Sigma Tau Delta National English Honor Society** recognizes students for high academic achievement in English literature and language among undergraduate, graduate, and professional arenas.

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**Ski Team** spotlights high level athletes and continues to develop competitive teams at the USCSA level.

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**Sociology Club's** goals are to sponsor community events and create communication between the local community and Fort Lewis College.

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**Spanish Club** embraces the Spanish language and aims to create awareness of the Latin culture and promote a multicultural college community. Activities include speakers and workshops.

[Return to Clubs & Organizations](#)

**Student Athletic Training Association (SATA)** provides first-aid, CPR, rehabilitation, and immediate care/emergency care for varsity athletes, club sports, intramurals, students and faculty on campus. The club raises funds to attend the district, state, and national athletic training conferences.

[Return to Clubs & Organizations](#)

**Student Leadership Program** is composed of students who encourage, promote, explore, and educate current and future student leaders. Club goals are to develop life-long leadership skills.

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**Tae Kwon-Do** - Students learn self-defense in a relaxed environment. Emphasis is on sparring and testing for belt advancement. All levels welcome.

[Return to Clubs & Organizations](#)

**Ultimate Frisbee Club** organizes pick-up games, practices, and tournaments. The club goal is to increase skill level, as well as enjoyment of the game.

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**Wanbli Ota** - Promotes cultural diversity on campus as well as in our surrounding communities. The club hosts the largest campus cultural event, Hozhoni Days, which includes a basketball tournament, speaker series, pageant, 5k run/walk, and a Pow-Wow.

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## **COLLEGE UNION BUILDING**

970-247-7394

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.

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## **CONDUCT CODE**

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 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.

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. The complete text of the Student Conduct Code can be found on the Fort Lewis College Web Site or a hard copy can be obtained from the Student Affairs Office, 170 Berndt Hall.

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## **COUNSELING CENTER**

970-247-7212

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 staff at the Counseling Center are licensed therapists with extensive experience in providing therapy to college students.

Personal counseling is confidential and is offered through individual and group counseling. Services are free to students on a short-term basis. Substance abuse evaluation and educational services are available on a fee basis.

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## **ENVIRONMENTAL CENTER**

970-247-7676

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.

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## **FOOD SERVICES**

970-247-7351

Campus Dining Services is committed to providing students with the healthy and delicious dining alternatives they expect along with the flexible dining to meet hectic campus schedules.

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## **HEALTH CENTER**

970-247-7355

The Health Center is an outpatient medical clinic that provides professional health care, health promotion, and education to Fort Lewis College students. 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 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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## **HOUSING**

970-247-7503

[\*Summer Housing\*](#)

[\*Off Campus Housing\*](#)

An important goal of the student housing system is to provide an environment that supports student academic success. The College requires first-time freshmen to live in campus residence halls as space is available for two academic trimesters. 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.

When students receive their acceptance by the College, they should then apply for campus housing. A deposit is required with the appropriate application. The Housing Agreement covers both the fall and winter trimesters of an academic year (8 months). Housing assignments are made on a first-come, first-served basis.

**Summer housing** is available and first-time freshmen are not required to live on-campus for any of the summer sessions.

## **Off-Campus Housing**

970-247-7511

Information about off-campus housing is available through the Fort Lewis College Information Desk in the CUB Lobby.

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## **IDENTIFICATION CARDS**

970-247-7504

A Fort Lewis College Identification Card (SkyCard) 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 card immediately. SkyCards can be obtained at the SkyCard Service Center located in Room 58 of the College Union Building across from the Post Office.

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## **INFORMATION DESK**

970-247-7511

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.

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## **NEWSPAPER - Independent**

970-247-7405

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 Independent 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.

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## **POST OFFICE**

970-247-7542

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.

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## **RADIO - KDUR-FM**

970-247-7634

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, 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. Tune in to 91.9 FM in Durango or 93.9 in surrounding areas for a truly eclectic listening experience.

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## **RECREATIONAL SERVICES**

970-247-7014

[\*Student Life Center\*](#)

[\*Club Sports\*](#)

[\*Fitness\*](#)

[\*Intramurals\*](#)

[\*Outdoor Pursuits\*](#)

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### **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.

[Return to Recreational Services](#)

### **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.

[Return to Recreational Services](#)

### **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.

[Return to Recreational Services](#)

## **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, and one-pitch snow softball, fast-pitch softball. A mountain bike series is also held every fall.

[Return to Recreational Services](#)

## **Outdoor Pursuits**

The primary goal of the Outdoor Pursuits program is to facilitate students' exploration of the open-air wonders of the Four Corners region. Outdoor recreation and skill-building activities for students are provided through guided trips such as rock climbing, rafting, kayaking, backcountry skiing/riding, avalanche safety training, backpacking, mountaineering, peak climbing, and mountain biking. Additional Outdoor Pursuits resources include maps, expert advice, equipment rental, bicycle repair and ski/board tuning benches.

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## **SAFETY ON CAMPUS**

[Police Department](#)

[Parking and Motor Vehicles](#)

### **Police Department**

970-247-7491

The Fort Lewis College Police Department, in partnership with the campus community, is responsible for public safety, campus parking enforcement, law enforcement, and emergency response. The Fort Lewis College Police Chief/Director and police officers are fully trained Commissioned Peace Officers through the State of Colorado, the City of Durango, and the La Plata County Sheriff's Department. 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 twenty-four hours per day, seven days per week.



## **Parking and 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.

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## **SPOT** (Student Programming and Other Things)

970-247-7474

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.

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## **WELLNESS PROGRAM**

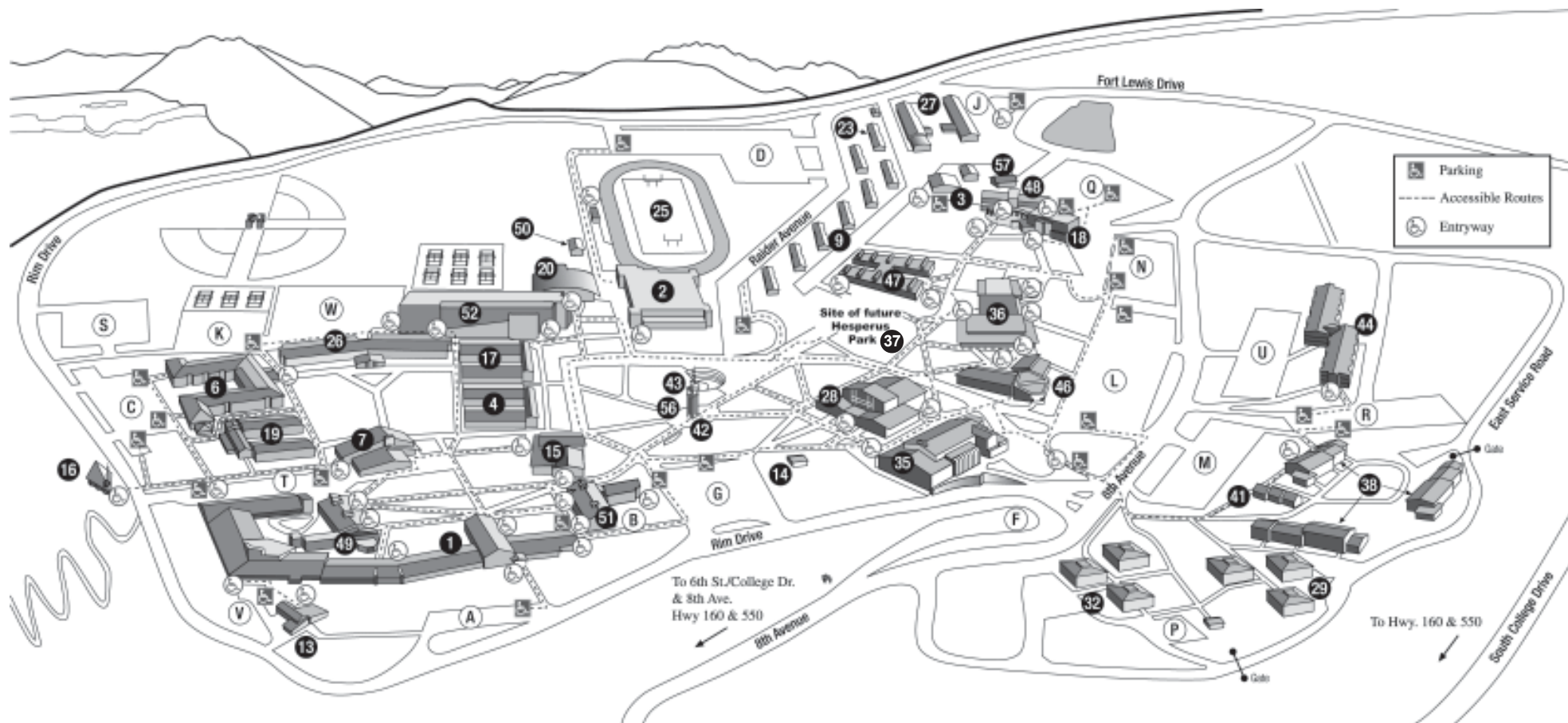
970-247-7153

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 lower level of the College Union Building, Room 019.

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Campus Map

# 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**  
Career Services  
Center for Academic Readiness  
Conferences & Summer Programs  
Financial Aid  
Health Center  
Housing/Residence Life  
Native American Center  
Public Safety  
**8 North Complex A (1-4)**  
**9 North Complex B (5-8)**  
Campus Ministries  
El Centro  
**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 Program for Academic Advancement**  
**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 Site of future Hesperus Park**  
(Former Hesperus Hall building site)  
**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  
Philosophy  
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)**

# Chemistry

## **CHEM 100 Intro to College Chemistry 1**

An introduction to fundamental ideas in chemistry for people who are not ready for Math 110 College Algebra. Study will emphasize the atomic and molecular nature of matter, and will include development of quantitative skills for chemistry study. This course provides suitable preparation for Chem 150 Fundamentals of Chemistry I. (1-0)

## **CHEM 123T Chemistry for Consumers 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 123 and 323. (3-0)

## **CHEM 125N Environmental Chemistry 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. (4-0)

## **CHEM 150 Fundamentals of Chem I: Atoms and Molecules 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. (3-3)

**Prerequisite:** TRS 92

## **CHEM 151Tx Fundamentals of Chem II: Chemical Reactions 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. (3-3)

**Prerequisites:** CHEM 150 AND MATH 110

## **CHEM 152 Fundamentals of Chem I: Chemical Problem Solving 1**

Supplement to Fundamentals of Chemistry I for students who wish to explore the concepts in greater depth. (1-0)

**Prerequisite:** CHEM 150

## **CHEM 153 Fundamentals of Chem II: Chemical Problem Solving 1**

Supplement to Fundamentals of Chemistry II for students who wish to explore the concepts in greater depth. (1-0)

**Prerequisite:** CHEM 151

## **CHEM 250 Organic Chem I: Structure and Reactivity of Organic Compounds 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. (3-3)

**Prerequisites:** CHEM 150 AND CHEM 151

**CHEM 251    Organic Chem II: Functional Groups and Biological Chemistry    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. (3-3)

**Prerequisite:** CHEM 250

**CHEM 252    Org Chem I: Discussion Section    1**

Supplement to Organic Chemistry I for students who wish to explore the concepts in greater depth. (1-0)

**Prerequisite:** CHEM 250

**CHEM 253    Org Chem II: Discussion Section    1**

Supplement to Organic Chemistry II for students who wish to explore the concepts in greater depth. (1-0)

**Prerequisite:** CHEM 251

**CHEM 300W At the Forefront of Chemical Research    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. Instructor consent. (3-0)

**Prerequisites:** (COMP 150 OR COMP 250 OR COMP 126 )  
AND (LIB 150 OR LIB 150 equivalent)

**CHEM 305    Natural Products From Plants    3**

A comprehensive study of the biologically active constituents of plants of the Southwest and elsewhere. Medicinal compounds and poisons are emphasized. Chemical structures, physiological activity, plant sources and biosynthetic pathways are discussed. Lab work includes field gathering, isolation and identification of compounds. (1-6)

**Prerequisite:** CHEM 303 OR CHEM 250

**CHEM 311    General Biochemistry I    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. (3-0)

**Prerequisite:** CHEM 251 OR CHEM 304

**CHEM 312    General Biochemistry Lab    1**

Basic biochemical techniques. (0-3)

**Prerequisite:** CHEM 311

**CHEM 313    General Biochemistry II    3**

The basic principles of biochemistry. Emphasis is on nucleic acid chemistry, carbohydrates and immune response. (3-0)

**Prerequisite:** CHEM 311

**CHEM 323    Chemistry for Consumers    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. (3-0)

**CHEM 351 Pharmacology 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. (3-0)

**CHEM 356 Physical Chem I: Quantum Mechanics 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. (3-0)

**Prerequisites:** CHEM 151 AND (PHYS 201 OR PHYS 217 )  
AND MATH 222

**CHEM 357 Physical Chem II: Thermodynamics 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 Boltzman distribution, energy, entropy, free energy and equilibrium, ideal solutions, colligative properties and reaction rate theory. (3-0)

**Prerequisite:** CHEM 356

**CHEM 360 Physical Measurements 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. (0-6)

**CHEM 363 Inorganic Chemistry 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. (3-3)

**Prerequisites:** (CHEM 250 OR CHEM 303 ) AND CHEM 151

**CHEM 365 Analytical Chemistry 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. (3-3)

**Prerequisite:** CHEM 151

**CHEM 380 Intro to Chemical Research 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. (1-0)

**CHEM 381 Intro to Chemistry Research Lab 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**

**Prerequisite:** CHEM 496

# Chemistry

*Course listings for Chemistry begin on page 153.*

Department Chair - Robert E Milofsky  
Professors - William R. Bartlett, and Ron C. Estler;  
Associate Professors - Robert E. Milofsky and Leslie E. Sommerville;  
Assistant Professors - Cindy C. Browder and Monte Helm.

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. (See Health Careers Preparatory Programs section of this catalog.)

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

#### General Education

**39-50**

See pages 56-59 for General Education requirements.

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

#### Specific Departmental Requirements:

Chem 150N 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	Physics for Science and Engineering I (preferred)	5	
	OR		
Phys 201	College Physics I	4	
	AND		
Phys 218	Physics for Science and Engineering II (preferred)		5
	OR		
Phys 202	College Physics II	4	

**Subtotal Auxiliary Requirements                      16-18**

**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.*

## Biochemistry Option

**General Education                      39-50**

See pages 56-59 for General Education requirements.

\*\* 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 I	3	
Chem 357	Physical Chemistry II	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

**Subtotal                      Specific Departmental Requirements                      44**

Auxiliary Requirements from Other Departments:

**Math 221Q- **222Q Calculus I & II	8	
Bio 113 Introduction to Molecular and Cellular Biology	4	
**Phys 217Tx Physics for Science and Engineering I (preferred)	5	
OR		
Phys 201 College Physics I	4	
AND		
Phys 218 Physics for Science and Engineering II(preferred)	5	
OR		
Phys 202 College Physics II	4	
Choose one from the following:		
Bio 321 General Physiology	4	
Bio 331 Microbiology	4	
Bio 260 Genetics	4	
Bio 455 Cell and Molecular Biology	4	

**Subtotal Auxiliary Requirements 24-26**

**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

**General Education 39-50**

See pages 56-59 for General Education requirements.

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

Specific Departmental Requirements:

**Chem 123T Chemistry for Consumers		
OR		
Chem 323 Chemistry for Consumers	3	
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	
Chem 496 Senior Seminar	1	
Chem 497 Senior Seminar	1	
Choose one from the following:		
Chem 356 Physical Chemistry I	3	
Chem 363 Inorganic Chemistry	4	

**Subtotal Specific Departmental Requirements 38-39**

Auxiliary Requirements from Other Departments:

**Geol 107Nx	Earth Systems Science	4
**Math 221Q	Calculus I	4
Phys 201-202	College Physics I & II	8
**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</b>	<b>Auxiliary Requirements</b>	<b>53</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.*

## Chemistry Minor

**REQUIREMENTS FOR A MINOR IN CHEMISTRY :**

Chem 150	Fundamentals of Chemistry I	4
**Chem 151Tx	Fundamentals of Chemistry II	4
Chem 250	Organic Chemistry I	
	OR	
Chem 363	Inorganic Chemistry	4
	AND	
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 REQUIRED FOR CHEMISTRY MINOR</b>	<b>19</b>
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**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. (See Health Careers Preparatory Programs section of this catalog.)

## Composition

**COMP 125    Reading in College**

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. (3-0)

**COMP 126 Writing in College**

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. (3-0)

**Prerequisite:** COMP 125

**COMP 150    Reading and Writing in College**

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. (4-0)

**COMP 250 Academic Inquiry and Writing**

This course guides students through the process of proposing, conducting and presenting an independent academic research project. (4-0)

**Prerequisite:** COMP 150 OR COMP 126

## Cooperative Education

<b>COOP 200</b>	<b>Cooperative Education</b>	<b>1-10</b>
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A first-time cooperative education work experience by underclassmen.

<b>COOP 300</b>	<b>Cooperative Education</b>	<b>1-12</b>
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A cooperative education work experience by upperclassmen.

A maximum number of credits is allowed toward a degree.

<b>COOP 400</b>	<b>Cooperative Education</b>	<b>1-12</b>
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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.

## Course Descriptions

### Key to Course Descriptions

[Accounting](#)

[Agriculture](#)

[Anthropology](#)

[Art](#)

[Biology](#)

[Business Administration](#)

[Chemistry](#)

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[Psychology](#)

[Religious Studies](#)

[Sociology](#)

[Southwest Studies](#)

[Theatre](#)

[Thematic Studies](#)

[Transitional Studies](#)

[Women's Studies](#)

# Computer Science Information Systems (CSIS )

Coordinator - Evans Adams  
Professors - Evans J. Adams, Lawrence S. Corman, and 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

General Education

39-50

See pages 56-59 for General Education requirements.

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

Specific Departmental Requirements:		
CSIS 110 Introduction to Programming (Java)	4	
CSIS 230 Object-Oriented Programming		4
CSIS 310 Data Structures	4	
CSIS 321 Computer Architecture and Organization		4
CSIS 361W Computers and Human Issues	4	
CSIS 496 Senior Seminar	2	



One of the following two sequences:

CSIS 320 Assembly Language Programming	4
AND	
CSIS 421 Operating Systems	4
OR	
CSIS 328 Fundamentals of Data Communications	4
AND	
CSIS 428 Computer Networks and Internets	4

CSIS Electives:

Four additional upper level CSIS courses chosen with approval of CSIS faculty.	16
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**Subtotal Specific Departmental Requirements 46**Auxiliary Department Requirements:

**Math 201Q Elementary Statistics	4
**Math 221Q Calculus I	4
**Math 305Q Discrete Mathematical Structures	4
**Math 320Q Numerical Analysis	
OR	
**Math 360Q Introduction to Operations Research	3-4

**Subtotal Auxiliary Requirements 15-16****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 39-50**

See pages 56-59 for General Education requirements.

\*\* 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 (Java)	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
CSIS 496 Senior Seminar	2

CSIS Electives:

Three additional upper level CSIS courses, chosen with approval of CSIS faculty.	12
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**Subtotal Specific Departmental Requirements 46**

Auxiliary Department Requirements:

**Math 201Q Elementary Statistics		
OR		
**BA 253Q Business Statistics	4	
**Math 210Q Survey of Calculus	4	
BA 353 Operations Management		
OR		
**Math 360Q Introduction to Operations Research	4	
<b>Subtotal</b>	<b>Auxiliary Requirements</b>	<b>12</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.*

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.

## Computer Science Information Minor

### REQUIREMENTS FOR A MINOR IN COMPUTER SCIENCE INFORMATION SYSTEMS :

Choose one of the following two sequences:

CSIS 110 Introduction to Programming (Java)	4	
CSIS 230 Object-Oriented Programming		4
OR		
CSIS 106 Intro to Programming in Visual Basic	4	
CSIS 206 Advanced Programming in Visual Basic	4	

Three additional CSIS courses, at least 2 of which are numbered above 300	12	
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**TOTAL REQUIRED FOR CSIS MINOR** **20**

# Computer Science Information Systems

## **CSIS 105     The Computer as a Tool**

**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. (2-4)

## **CSIS 106     Intro to Programming in Visual Basic**

**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. (2-4)

## **CSIS 110     Intro to Programming in Java**

**4**

Introduction to programming in Java, 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. (3-2)

**Prerequisite:** MATH 110 OR MATH 121

## **CSIS 206     Adv Programming in Visual Basic**

**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. (2-4)

**Prerequisite:** CSIS 106

## **CSIS 230     Object-Oriented Programming**

**4**

Introduction to object-oriented software development, using the Java programming language. Topics include objects and classes, inheritance, input/output streams, exception handling, collections, graphical user interfaces, threads, and graphics programming. Group programming projects. (2-4)

**Prerequisite:** CSIS 110 OR ENGR 104

## **CSIS 238     Computer Logic Design**

**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 give for one of these courses. (3-3)

## **CSIS 310     Data Structures**

**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. (3-2)

**Prerequisites:** CSIS 230 AND MATH 305

## **CSIS 320     Assembly Language Programming**

**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. (3-2)

**Prerequisites:** CSIS 110 AND (CSIS 230 OR CSIS 240

OR CSIS 206 ) AND (MATH 210 OR MATH 221 )

**CSIS 321      Computer Architecture & Organization      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.(4-0)

**Prerequisite:** CSIS 230 OR CSIS 206 OR CSIS 240

**CSIS 322      Management Information Systems      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. NOTE: THIS COURSE DOES NOT COUNT FOR CREDIT TOWARD THE CSIS MAJOR. CREDIT MAY NOT BE RECEIVED FOR BOTH CSIS 322 AND CSIS 105. (4-0)

**Prerequisite:** ACC 226

**CSIS 328      Fund of Data Communications      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. (3-2)

**Prerequisites:** CSIS 230 AND (MATH 221 OR MATH 210 )

**CSIS 330      Windows Programming in C++      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. (2-4)

**Prerequisite:** CSIS 230

**CSIS 331      Adv Programming in Java      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. (2-4)

**Prerequisite:** CSIS 230

**CSIS 332      Java Programming for Internet      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. (2-4)

**Prerequisite:** CSIS 230

**CSIS 340      Comparative Programming Languages      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. (4-0)

**Prerequisite:** CSIS 230 OR CSIS 206 OR CSIS 240

**CSIS 350      Database Management Systems      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. (4-0)

**Prerequisites:** CSIS 320 AND CSIS 230

## CSIS 425 Accounting Information Systems 3

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. NOTE: THIS COURSE DOES NOT COUNT FOR CREDIT TOWARD THE CSIS MAJOR. (4-0)

**Prerequisites:** CSIS 322 AND ACC 323

## CSIS 428 Computer Networks &amp; Internets 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. (2-4)

**Prerequisite:** CSIS 328

<b>CSIS 431</b>	<b>Computer Network Administration</b>	<b>4</b>
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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. (4-0)

<b>CSIS 450</b>	<b>Parallel Programming</b>	<b>4</b>
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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. (3-2)

**Prerequisite:** CSIS 310

<b>CSIS 495</b>	<b>Internship in Computer Science</b>	<b>4</b>
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Detailed work experience in the computer industry. Minimum requirements: formal written proposal specifying internship duties, detailed weekly journal, final report and formal presentation summarizing the internship experience. A minimum of 150 hours (approximately 10 hours/week) of work is required. Students are evaluated by their employment supervisor and their CS professor.

<b>CSIS 496</b>	<b>Senior Seminar</b>	<b>2</b>
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Advanced study and research in selected topics. (2-0)

# 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			

[illegible]



## MINOR REQUIREMENTS

[illegible]

# Economics

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. 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:

### General Education 39-50

See pages 56-59 for General Education requirements.

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

### MAJOR REQUIREMENTS:

See pages 75-76 for SOBA requirements.

Common SOBA Requirements (see pages 75-76)	42
Quantitative Reasoning Requirements	4
Auxiliary Requirements	4

#### Other Departmental Requirements:

Econ 356 Microeconomic Theory	4
<sup>2</sup> Econ 364W Macroeconomic Theory	4

Plus any three of the following courses:

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
BA 382/Econ 382 Financial Institutions	4
Econ 390/391 Special Topics in Economics	4
Econ 410 Economics: A Radical Perspective	4

<b>Total Other Departmental Requirements</b>	<b>20<sup>1</sup></b>
<b>TOTAL MAJOR REQUIREMENTS</b>	<b>70</b>

Free Electives (variable)

<b>TOTAL REQUIRED FOR GRADUATION</b>	<b>120</b>
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<sup>2</sup> Completion of Econ 364W fulfills the Group W requirement for students in the Business Economics 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.*

<sup>1</sup>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:

### General Education

**39-50**

See pages 56-59 for General Education requirements.

\*\* 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
<sup>2</sup> 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 382/BA 382 Financial Institutions	4
Econ 390/391 Special Topics in Economics	4
(As approved by the Department)	
Econ 410 Economics, A Radical Perspective	4

### TOTAL MAJOR REQUIREMENTS

**37**

### Free Electives (variable)

### TOTAL REQUIRED FOR GRADUATION

**120**

<sup>2</sup>Completion of Econ 364W fulfills the Group W requirement for students in the Economics 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.*

**Business Administration/Economics Majors  
Suggested Course Sequence<sup>1</sup>**

<b>Freshman Year</b>			
<b>Fall</b>		<b>Winter</b>	
BA 101	4 <sup>2</sup>	Econ 266 S	4
TS 1 Gen Ed and /or Electives	9	Comp 150	4
ES 100	1	Lib 150	1
		TS 1 Gen Ed and/or Elective	4
Total	14	Total	13
<b>Sophomore Year</b>			
<b>Fall</b>		<b>Winter</b>	
Acc 225	4	Acc 226	4
BA 260 S	3	BA 253	4
BA 221	3	TS 1 Gen Ed and/or Elective	8
PE Activities	1		
TS 1 Gen Ed and/or Electives	4		
Total	15	Total	16
<b>Junior Year</b>			
<b>Fall</b>		<b>Winter</b>	
BA 301	4	BA 353	4
BA 380	4	BA Electives	4
Q/R Course	4	CSIS 322	4
BA 340	4	TS 2 Gen Ed and/or Elective	4
Total	16	Total	16
<b>Senior Year</b>			
<b>Fall</b>		<b>Winter</b>	
BA Electives	7	BA 496	4
TS 2 Gen Ed and/or Electives	8	BA Elective	3
		TS 2 Gen Ed and/or Electives	8
Total	15	Total	15

<sup>1</sup> 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.

<sup>2</sup> **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**

## Economics Minor

*Course listings for Economics Minor begin on page 157.*

### 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:<sup>1</sup>

**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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<b>TOTAL REQUIRED FOR ECONOMICS MINOR</b>	<b>18</b>
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<sup>1</sup> 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.

## Economics

### **ECON 170S Current Economic Issues 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. (4-0)

### **ECON 201Q Personal Finance 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. (3-0)

**Prerequisite:** (ACT Math Score 19 OR TRS 92 )

### **ECON 262 Principles of Econ-Micro 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. (2-0)

### **ECON 266S Principles of Economics 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. (4-0)

### **ECON 272 Principles of Econ-Macro 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. (2-0)

### **ECON 310 Economic History of U. S. 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. (4-0)

### **ECON 335 Environmental Economics 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 are also considered. Students will be expected to conduct an economic analysis of some proposed project/policy. (4-0)

### **ECON 356 Microeconomic Theory 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. (4-0)

## ECON 361 Managerial Economics 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. (4-0)

**Prerequisites:** ECON 266 OR (ECON 262 AND ECON 272 )  
AND BA 253

## ECON 364W Macroeconomic Theory 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. (4-0)

## ECON 369 Public Finance 4

An analysis of the financing of federal, state and local units of government. Emphasis given to problems of taxation, expenditures and debt management. (4-0)

## 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 266 OR (ECON 262 AND ECON 272 )

## ECON 371 International Economics 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. (4-0)

## ECON 382 Money, Banking &amp; Finance Institutions 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. (4-0)

## ECON 410 Economics: A Radical Perspective 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. (4-0)

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. (3-0)

**ED 332      Materials & Methods of Bilingual Education      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. (3-0)

**Prerequisites:** ED 308 AND Some facility in a non-English language.

**ED 333SW    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.

**ED 334    Methods of Teaching English as Second Language      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. (3-0)

**ED 335      Linguistics for Educators      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. (3-0)

**ED 353      Growth & Development of the Young Child 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. This course requires 15 hours of field study; 7.5 of those hours will be completed during scheduled class time. (2-1)

**ED 357      Language Arts for the Young Child      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. (2-0)

**Prerequisite:** ED 200

**ED 359      Creative Arts for the Young Child      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. (2-0)

**ED 421    Individualized Instruction in Pluralistic Society      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, instructional 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. (4-4)

**Prerequisite:** ED 200



The focus of this course is the nutrition and health of 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. (2-1)

**ED 470 Middle School History & Philosophy 2**

This course will provide the prospective middle school teacher with knowledge about the philosophy, historical development and characteristics of the middle school. (2-0)

**Prerequisites:** ED 308 AND ED 309

**ED 471 Middle School Organization, Methods & Materials 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. (4-0)

**Prerequisites:** ED 308 AND ED 309

**ED 472 Communication Skills for Young Adolescents 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. (3-0)

**Prerequisites:** ED 308 AND ED 309

**ED 473 Psychology of Young Adolescents 3**

The course will provide the prospective middle school teacher with knowledge about the characteristics and special needs of young adolescents. (3-0)

**Prerequisite:** ED 308 OR ED 309

**ED 488 Seminar & Practicum in College Teaching 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. Repeatable once with consent of instructor. (1-2 or 1-4)

**ED 489 Adv Practicum in College Teaching 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. (2-6)

**Prerequisite:** ED 289 OR ED 488

**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. (1-3)

**ED 492 Lab Experience and Seminar in The Kindergarten/Primary 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.

<b>ED 495</b>	<b>Lab Experience &amp; Seminar in the Secondary</b>
<b>School</b>	<b>1-15</b>

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.

# Engineering

## **ENGR 101 Introduction to Engineering 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. (1-0)

## **ENGR 103 Computer Aided Drafting 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. (3-0)

## **ENGR 104 Comp Prog For Sci & Engr 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. (2-2)

**Prerequisite:** MATH 121 OR MATH 221

## **ENGR 105 Engineer'g Principles & Design 3**

Solution of fundamental engineering and design problems. Topics include graphical and numerical mathematics, engineering statistics, computer applications, problem- solving and design projects. (3-0)

**Prerequisite:** ENGR 104

## **ENGR 201 Electric Networks I 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. (4-0)

**Prerequisite:** MATH 222

## **ENGR 202 Electric Networks II 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. Includes engineering design applications. (3-2)

**Prerequisite:** ENGR 201

## **ENGR 205 Surveying I 4**

Plane surveying methods in engineering that emphasize the measurements, 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. (2-4)

**Prerequisite:** MATH 121

## **ENGR 217 Statics 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. Includes engineering design applications. (3-0)

**Prerequisite:** MATH 221

## **ENGR 221 Dynamics 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

ENGR 238 Digital Logic Design 4

**Prerequisite:** ENGR 104 OR CSIS 110

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. (3-0)

ENGR 305	Surveying II	4
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**Prerequisite:** ENGR 205

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. Includes engineering design applications. (3-0)

ENGR 321	Fluid Mechanics	3
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**Prerequisite:** ENGR 221

Students study the engineering design process and complete one or more design projects. The course is intended to show how engineers integrate technical knowledge with design concepts, teamwork, economics, project management, oral and written communications. Ethics and professionalism in engineering are also explored. Students prepare a detailed design project proposal that may be used as their Senior Seminar design project.

Students experience the integration of technical knowledge through an open-ended, comprehensive design project which simulates an engineering project environment, including design, building or simulations, testing and verifications, project management and oral and written reports.

**Prerequisite:** ENGR 405

# Engineering

Department Chair - Don May

Professors - Jerry Crawford, Omnia I. El-Hakim, and 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.)

Note: 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 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:

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
Humanities and Social Science Electives	6
PE Act Physical Activities	2

\*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
PE Act Physical Activities	2
Humanities and Social Science Electives	9

Additional course(s), depending on the intended major, selected from:

Engr 103 Computer Aided Drafting	3	
Engr 201,202 Electric Networks I, II	4, 4	
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 357 Physical Chemistry		3



Phys 320 Modern Physics	3	
Chem 250 Organic Chemistry I	4	
Chem 251 Organic Chemistry II	4	

**CU TRANSFER AGREEMENT**Common courses required of most students:

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	
Humanities and Social Sciences Electives		6-9

\*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).

**UNM TRANSFER AGREEMENT**Common courses required of most students:

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	
PE Act Physical Activities	2	

Minimum of 15 additional credits, depending on major, selected from:

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 Modern Biological Issues	4	
Bio 207 General Zoology	4	
Humanities and Social Science Electives		

**USC TRANSFER AGREEMENT FOR INDUSTRIAL ENGINEERING**

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	
Humanities and Social Sciences Electives		3

## NMSU TRANSFER AGREEMENT

### Common courses required of all students:

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	
Comp 115 Speech: A Rhetorical Act		3
Humanities and Social Science Electives	9	
Additional courses depending on the intended major (see an engineering advisor for specific courses).		

## Engineering Minor

*Course listings for Engineering Minor begin on page 161.*

### REQUIREMENTS FOR A MINOR IN ENGINEERING :

Engr 104 Computer Prog. for Scientists and Engineers	3	
Engr 105 Engineering Principles	3	
Engr 217 Statics	3	
Plus three additional Engineering courses numbered 200 or above.	9-12	

### TOTAL REQUIRED FOR ENGINEERING MINOR 18-21

# English

**ENGL 116T                      Introduction Mass Communications                      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. (4-0)

**ENGL 128      The Bible as Literature      4**

A study of both the Old and New Testaments of the Christian Bible, as literature itself and as a major influence upon literature. Course will cover mythological, historical, archaeological contexts and backgrounds. (4-0)

**ENGL 174R                      African American Literature      4**

A study of selected 19th and 20th century works by African-American writers. (4-0)

**ENGL 175R                      Women's Literature                      4**

A study of literature by and about women. (4-0)

**ENGL 176R                      Native American Literature      4**

This course is a survey of the contribution of Native American writers to American Literature. Students will study Native writers within historic contexts and tribal worldviews. (4-0)

**ENGL 177      U. S. Latina/o Literature      4**

This course introduces students to the literatures of the three major Latina/o groups residing in the U.S. (Cubans, Chicana/os, and Puerto Ricans). Not intended to be exhaustive, the course acquaints students with major writers, movements, and historic contexts.

**ENGL 180N                      Literature of the Environment                      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. (4-0)

**ENGL 215                      News Media Writing                      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. (4-0)

**ENGL 221R                      Classical Literature                      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. (4-0)

**ENGL 230                      Survey of British Literature      4**

An overview of representative British writing from its beginnings to the present. (4-0)

**ENGL 240R                      Survey of American Lit                      4**

An overview of representative American writing from its beginnings to the present. (4-0)

**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. terms. 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. Consent of instructor. Note: Engl 251 has an extra fee.

**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. Consent of instructor.

**ENGL 265S                      Semantics                      4**

A study of the meaning of language, emphasizing its social and psychological uses and abuses. (4-0)

**ENGL 267                      Persuasion: History, Theory, and Practice                      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. (4-0)

**Prerequisite:** (COMP 150 OR COMP 250 OR COMP 126 )

**ENGL 268W                      Reading Texts/Writing Texts                      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. (4-0)

**Prerequisites:** (COMP 150 OR COMP 250 OR COMP 126 )  
AND (LIB 150 OR LIB 150 equivalent)

**ENGL 270R                      History of the Film                      4**

An overview of the history of international and Hollywood narrative film. Students will be expected to attend scheduled film screenings each week. (2-2)

**ENGL 273                      Intro To Literary Types                      2**

This course will focus on a type or genre of literature, such as poetry, fiction, the short story or the essay. (2-0)

**ENGL 280R                      Literature Of The Southwest                      4**

The American Southwest seen through fiction, poetry, biography and other works by European Americans, Native Americans and Chicanos/as. (4-0)

**ENGL 304                      Video Production                      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. Consent of instructor. Note: Engl 304 has an extra fee. (4-0)

**ENGL 306                      Radio Broadcasting                      4**

An introduction to radio broadcasting through its history, economics, industry, programming and legal issues, with considerable emphasis on production. Consent of instructor. Note: Engl 306 has an extra

fee. (4-0)

**ENGL 315                      Media Writing:Topics                      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. (4-0)

**ENGL 317                      Mass Communications:Topics                      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. (4-0)

**ENGL 320      The Novel                      4**

An in-depth study of selected European, British and American novels. (4-0)

**Prerequisite:** (COMP 150 OR COMP 126 OR COMP 250 )

**ENGL 330                      Continental Literature:Topics                      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. (4-0)

**ENGL 340      19th Century British Lit: Topics      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. (4-0)

**ENGL 341      Early Modern Literature:Topics                      4**

An in-depth study of selected British writings from the Early Modern Period. Course content will vary. Students may repeat the course for credit provided the subject is different on each occasion. (4-0)

**Prerequisite:** ENGL 268

**ENGL 345                      American Literature:Topics I                      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. (4-0)

**ENGL 346                      American Literature: Topics II      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. (4-0)

**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. Consent of instructor.

**Prerequisite:** ENGL 250

**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. Consent of instructor.

**Prerequisite:** ENGL 251

**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. Consent of instructor.

**ENGL 363                      Advanced Composition                      4**

An advanced writing course in which students can produce writing in particular genres--non-fiction, essays, argument, etc. (4-0)

**ENGL 366                      Teaching Writing                      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 the philosophies. Students will be required to write, both formally and informally, for a variety of purposes in this course. (4-0)

**Prerequisites:** (COMP 150 OR COMP 250 OR COMP 126 )  
AND (LIB 150 OR LIB 150 equivalent)  
AND ENGL 268

**ENGL 378                      Young Adult Literature                      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. (4-0)

**ENGL 380                      Native American Lit:Topics                      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 this course for credit, provided the subject is different on each occasion. Note: This course is the same as SW 380; credit will only be given for one of these courses. (4-0)

**Prerequisite:** (COMP 150 OR COMP 250 OR COMP 126 )

**ENGL 404                      Advanced Video Production                      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. This course is repeatable for up to 12 credits. Note: Engl 404 has an extra fee. (4-0)

**Prerequisite:** ENGL 304

**ENGL 416                      Media Theory And Criticism                      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. (4-0)

**ENGL 417                      Media Theory: Topics                      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. (4-0)

**Prerequisite:** ENGL 268

**ENGL 420                      World Literature: Topics                      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. (4-0)

**ENGL 423                      Genres: Topics                      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.(4-0)

<b>ENGL 430</b>	<b>Medieval Lit &amp; Chaucer: Topics</b>	<b>4</b>
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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. (4-0)

<b>ENGL 432</b>	<b>Shakespeare</b>	<b>4</b>
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A study of Shakespearean drama. (4-0)

<b>ENGL 450</b>	<b>Internship in Newspaper</b>	<b>1-6</b>
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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.

Strongly recommended: substantial communications course- work, a competitive portfolio, 80 hours of work toward graduation, and completed internship arrangements. Consent of instructor.

<b>ENGL 451</b>	<b>Internship in Radio</b>	<b>1-6</b>
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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. Strongly recommended: substantial communications course- work, a competitive portfolio, 80 hours of work toward graduation, and completed internship arrangements. Consent of instructor.

<b>ENGL 452</b>	<b>Internship in Television</b>	<b>1-6</b>
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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 analytical paper. Strongly recommended: substantial communications coursework, a competitive portfolio, 80 hours of work toward graduation, and completed internship arrangements. Consent of instructor required.

**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 analytical paper. Strongly recommended: substantial communications course- work, a competitive portfolio, 80 hours of work toward graduation, and completed internship arrangements.

Consent of instructor.

## ENGL 460 Historical Analysis of Language 1

Additional study in language history. Concurrent enrollment in Engl 461 required. (1-0)

## ENGL 461 History Of English Language 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. (3-0)

ENGL 462	Linguistics	3
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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. (3-0)

**ENG 463                      Linguistic Analysis                      1**

A course in language analysis, applying principles learned in English Linguistics. Concurrent enrollment in Engl 462 is required. (1-0)

**Prerequisite:** ENGL 462

**ENGL 464                      Creative Writing 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. Consent of instructor required. Students enrolling in Engl 464 must have completed at least one survey course and at least one topics course, and any Group W course. (4-0)

**Prerequisites:** (COMP 150 OR COMP 250 OR COMP 126 )  
AND (LIB 150 OR LIB 150 equivalent)

**ENGL 477      20th Century Literature: Topics                      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. (4-0)

**Prerequisite:** ENGL 268

**ENGL 483                      Methods & Materials for Teaching High School English                      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. Senior standing required. (4-0)

**ENGL 496                      Senior Seminar 4**

Advanced study and research in selected topics. Consent of instructor.



# English

Department Chair - Faron Scott  
Professors - Gordon P. Cheesewright, Larry K. Hartsfield,  
Mary Jean Moseley, and Paul N. Pavich;  
Associate Professors - Jennie C. Dear, Jennifer A. Gehrman,  
Faron L. Scott and Delilah G. Orr;  
Assistant Professors - Bradley P. Benz, Nancy K. Cardona,  
Shawn Fullmer, Kurt W. Lancaster, Michele M. Malach,  
and 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:

### The General Option

**General Education** **39-50**  
See pages 56-59 for General Education requirements.

\*\* 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 174R African-American Literature		
**Engl 175R Women’s Literature		
**Engl 176R Native American Literature		
**Engl 177R U.S. Latina/o 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
Choose one of the following three courses:	4	

Engl 315 Media Writing: Topics  
Engl 363 Advanced Composition  
Engl 464 Creative Writing

Engl 432 Shakespeare 4

Choose one of the following two courses: 3

Engl 461 History of the English Language  
Engl 462 Linguistics

Choose one Topics course in British literature from:

Engl 340, 341, 430 4

Choose one Topics course in American Literature from:

Engl 345, 346, 380 4

Choose one additional Topics course from:

Engl 315, 317, 330, 340, 341, 345, 346, 380, 417,  
420, 423, 430, 460-461, 462-463, 477, Thea 340W, 381 4

Engl 496 Senior Seminar 4

Note: Engl 499 cannot replace Engl 496.

**Subtotal Specific Departmental Requirements 47**

Writing Course Within Discipline:  
Included in Specific Departmental Requirements above.

Auxiliary Requirements:  
Two trimesters of one college-level modern language 6-8

**Free Electives (variable)**  
(English advisors can help students select courses that 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 Communications Option

**General Education 39-50**  
See pages 56-59 for General Education requirements.

\*\* 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 of the following four courses: 4  
\*\*Engl 174R African-American Literature  
\*\*Engl 175R Women’s Literature  
\*\*Engl 176R Native American Literature  
\*\*Engl 177R U.S. Latina/o Literature  
\*\*Engl 280R Literature of the Southwest  
Engl 215 News Media Writing 4  
Choose one of the following two courses: 4  
Engl 230 Survey of British Literature  
\*\*Engl 240R Survey of American Literature  
Engl 268W Reading Texts/Writing Texts 4  
Choose one of the following two courses: 4  
Engl 304 Video Production

Engl 306 Radio Broadcasting

Choose one of the following three courses: 4

Engl 315 Media Writing: Topics

Engl 363 Advanced Composition 4

Engl 464 Creative Writing

Engl 416 Media Theory and Criticism 4

Choose two Topics courses from the following:

Engl 315 (excluding 315 if used to satisfy other major requirements), 317, 320, 330, 340, 341, 345, 346, 380, 417, 420, 423, 430, 477, Thea 340W, 381 8

At least four credits from:

Engl 250/350 Practicum—Newspaper

Engl 251/351 Practicum—Radio

Engl 404 Advanced Video Production 4

(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 39-50**

See pages 56-59 for General Education requirements.

\*\* 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 \*\*174R, \*\*175R, \*\*176R, \*\*177R,

\*\*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<sup>1</sup>: 4

Engl 317, 320, 330, 340, 341, 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 <sup>1</sup>	4
Note: Engl 499 cannot replace Engl 496.	
<b>Subtotal</b>	<b>Specific Departmental Requirements 50</b>

Writing Course Within Discipline:  
Included in Specific Departmental Requirements above.

Auxiliary Requirements:  
Two trimesters of one college-level modern language<sup>1</sup> 6-8

<sup>1</sup> 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)**

Refer to Education Section of the Catalog for specific Secondary License Requirements that students must complete.

**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.*

**Literature Minor**

**REQUIREMENTS FOR A MINOR IN 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 340 19<sup>th</sup> Century British Literature: Topics
- Engl 341 Early Modern 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 20<sup>th</sup> Century Literature: Topics

**TOTAL REQUIRED FOR LITERATURE MINOR 20**

## Writing Minor

### REQUIREMENTS FOR A MINOR IN WRITING :

This minor requires 16 credit hours.

The following course is required:

Engl 267 Persuasion: History, Theory & Practice	4
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Plus, three writing courses selected from the following: 12

Engl 215 News Media Writing

Engl 315 Media Writing: Topics

Engl 363 Advanced Composition

Engl 366 Teaching Writing

Engl 464 Creative Writing

<b>TOTAL REQUIRED FOR WRITING MINOR</b>	<b>16</b>
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## Communications Minor

### REQUIREMENTS FOR A MINOR IN COMMUNICATIONS :

This minor requires 22 or 24 credit hours.

The following courses are required:

**Engl 116T Introduction to Mass Communications	4
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Engl 215 News Media Writing	4
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Engl 304 Video Production

OR

Engl 306 Radio Broadcasting	4
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Engl 315 Media Writing: Topics

OR

Engl 363 Advanced Composition	4
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Engl 416 Media Theory and Criticism	4
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Two or four credits from:

Engl 250/350 Practicum—Newspaper

OR

Engl 251/351 Practicum—Radio

OR

Engl 404 Advanced Video Production	2-4
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<b>TOTAL REQUIRED FOR COMMUNICATIONS MINOR</b>	<b>22 -24</b>
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# Environmental Policy Minor

Coordinator -Mark Seis

## 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; and 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 courses 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:

### 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 471	Field Ecology	5	

**Chemistry:**

Chem 123/323	Chemistry for Consumers	3	
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**Economics:**

Econ 335	Environmental Economics	4	
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**Engineering:**

Engr 205	Surveying I	4	
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**Geography:**

**Geog 271R	World Geography	3	
Geog 320	Natural Regions of North America	3	

**Geology:**

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	
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**Political Science:**

PS 205	Environmental Politics	3	
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**Sociology:**

Soc 310	Ecology and Society		4
Soc 311	Ecology and Society Field School	8	

**Southwest:**

**SW 181N	U.S./Southwest Environmental History		3
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**Thematic Studies:**

TS2N 406	Water in the West	4	
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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.



## Exercise Science

### **ES 100      Fitness and Wellness      1**

A 7 1/2-week course that examines the basic physiological principles of exercise and nutrition. Students will acquire strategies for the developments of a personal fitness plan, effective weight management, stress management and how to make healthy lifestyle choices. (1-0)

### **ES 150R Sociocultural Foundations of Human Movement 3**

An introductory study of the historical, cultural, sociological and philosophical aspects of exercise, sport and human movement. (3-0)

### **ES 165      Community First Aid & Safety      2**

Study and practice of American Red Cross first aid/CPR procedures in handling common injuries, accidents and medical emergencies. (2-0)

### **ES 185      Intro to Coaching - (ASEP)      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 Managements 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. (2-0)

### **ES 205      Amer Red Cross Emergency Resp      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. (2-0)

### **ES 220      Clinical Basic Athletic Training      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 50 hour clinical component.) (0-2)

**Prerequisite:** ES 224

### **ES 224      Basic Principles of Athletic Training      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. (3-0)

### **ES 225      Techniques of Coaching Football      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. (2-0)

### **ES 226      Techniques of Coaching Volleyball      2**

The study of history, strategies, rules, methods and organization involved in coaching volleyball. Both theoretical and practical applications will be developed. (2-0)

**ES 227      Techniques of Coaching Basketball      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. (2-0)

**ES 229      Techniques of Coaching Track & Field      2**

Designed to teach methods, techniques, and principles of coaching all events in track and field at both the high school and college levels.

**ES 230      Techniques of Coaching Softball      2**

The study of history, strategies, rules, methods and organization involved in coaching softball. Both theoretical and practical applications will be developed. (2-0)

**ES 231      Techniques of Coaching Soccer      2**

The study of principles, methods, techniques and strategies involved in coaching soccer. (2-0)

**ES 233      Officiating Of Football      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. (1-0)

**ES 234      Officiating Of Volleyball      1**

Instruction in the rules and practice of the mechanics and skills of officiating volleyball at the high school and college levels. (1-0)

**ES 235      Officiating Of Basketball      1**

Designed to teach the student the rules, skills and mechanics of officiating basketball. (1-0)

**ES 237      Officiating Softball      1**

Designed to provide students with the rules, skills and mechanics for umpiring softball. (1-0)

**ES 238      Officiating Soccer      1**

Designed to provide students with the rules, skills and mechanics for officiating soccer. (1-0)

**ES 240      Clinical in Manual Muscle Testing      1**

This course will provide the student with the 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 and actions and specific tests. (Includes a 200 hour minimum clinical component.) (0-2)

**ES 243S      Personal Health      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. (3-0)

**ES 250      Teaching Competencies in Tumbling, Aquatics, and Fundamental Skills**

**1**

A course designed to develop teaching competencies for planning, instruction, behavior management and

assessment in tumbling, aquatics and fundamental skills. (0-2)

**ES 251 Teaching Competencies in Dance, Recreational Games, and Non-Traditional Sports 1**

A course designed to develop teaching competencies for planning, instruction, behavior management and assessment in dance, recreational games and non-traditional sports. (0-2)

**ES 252 Teaching Competencies in Basketball, Soccer, Softball, Volleyball 1**

A course designed to develop teaching competencies for planning, instruction, behavior management and assessment in basketball, soccer, softball and volleyball. (0-2)

**ES 253 Teaching Competencies in Fitness, Golf, and Racquet Sports 1**

A course designed to develop teaching competencies for planning, instruction, behavior management and assessment in fitness, golf and racquet sports. (0-2)

**ES 260 Lifeguard Training 2**

Students will learn American Red Cross professional lifeguard skills and gain knowledge needed to prevent and respond to aquatic emergencies. (1-2)

**ES 261 Water Safety Instructor 2**

Water safety instructor's course designed to train and certify (Red Cross) teachers of swimming. (1-2)

**ES 262 Lifeguard Training Instructor 2**

This course will train and certify instructors to teach American Red Cross Lifeguard Training, CPR for the professional rescuer, community water safety, life-guarding instructor aid and other water safety courses. (1-2)

**Prerequisite:** ES 260

**ES 283 Eval of Athletic Injuries 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. (2-2)

**Prerequisite:** BIO 121 AND ES 224

**ES 300 Sport in Film 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. (1-2)

**ES 301W Current Issues in Sport 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. (3-0)

**Prerequisites:** (COMP 150 OR COMP 250 OR COMP 126 )  
AND (LIB 150 OR LIB 150 equivalent)

**ES 302W Issues in Health & Well-Being 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. (3-0)

**Prerequisites:** (COMP 150 OR GS 151 OR COMP 126 )  
AND (LIB 150 OR LIB 150 equivalent)

**ES 320      Clinical In Manual Therapy      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.) (0-2)

**ES 335      Kinesiology & Biomechanics      4**

An in-depth study of the basic body movements, osteology, applied myology, spatial relations of muscles to joints, aggregate muscle action, kinesiology 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. (4-0)

**Prerequisite:** BIO 121

**ES 337      Sport Ethics      3**

An inquiry into ethics and morality as these apply to sport 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. (3-0)

**ES 339      Practicum in Sports Admin      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.

**ES 340      Motor Learning and Control      3**

Concepts involved in learning motor skills, the individual variables which affect this learning and the practice and techniques for improving motor performance. (3-0)

**Prerequisite:** PSYC 157

**ES 345      Legal Aspects of Sports and Physical Education      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. (3-0)

**Prerequisites:** (COMP 150 OR COMP 250 OR COMP 126 )  
AND BA 260

**ES 350      Testing and Statistics      3**

Basic statistical procedures necessary to analyze and interpret data collected from tests in exercise science. Descriptive and inferential statistics are taught as well as introduction to basic research techniques. The selection and administration of testing instruments that measure objectives from the three domains of human performance are also examined in the course. (3-0)

**Prerequisite:** TRS 92 OR Math 110 or placement into Math 110  
OR ACT Math Score 19

**ES 353      Nutrition Fitness & Sport      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. (2-2)

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. (4-0)

**Prerequisite:** BIO 121

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. (2-2)

**Prerequisite:** ES 360

This course is designed to provide students with a general introduction to computer use in Exercise Science including a hands-on experience. (2-2)

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. (3-0)

**Prerequisite:** PSYC 157

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. (4-0)

The theoretical basis of therapeutic modalities will be explored as well as the clinical application of those modalities in the treatment of athletics injuries. (2-2)

<b>ES 387</b>	<b>Reconditioning Athletic Injuries</b>	<b>3</b>
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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. (3-0)

**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.

**ES 420      Capstone Clinical in Athletic Training      1**

This course will function to prepare the student for the National Athletic Trainer's 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.) (0-2)

**ES 424      Advanced Athletic Training      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. Student will also develop an awareness of the indications, contraindications, precautions and interactions of medications used to treat the medical conditions. (3-0)

**ES 425      Clinical in Medical Science      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. (0-2)

**ES 450      Internship Exercise Specialist      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. (3-0)

**ES 455      Internship in Sport Admin      8-12**

Full-time application of previous theoretical and applied knowledge and skills in a professional setting, supervised by a qualified sport administrator.

**Prerequisite:** ES 339

**ES 480      Administration of Programs in Exercise Science      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. (3-0)

**ES 495      Research Design & Development      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. (1-0)

**Prerequisite:** ES 350

**ES 496 Senior Seminar and Research in Exercise Science 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. (2-0)

**Prerequisites:** ES 350 AND ES 495)

# Exercise Science

Department Chair - Paul W. Petersen

Professors - Paul W. Petersen, and Charles H. Walker;

Assistant Professors - Robert W. Brooks, James S. Cross, Mary Ann Erickson, Marcelyn B. Jung, Melissa Knight-Maloney,

Cathy M. Simbeck, and 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.

## REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN EXERCISE SCIENCE:

### Athletic Training Option :

The Commission on Accreditation of Allied Health Education Programs (CAAHEP) accredits the Athletic Training Education Program.

### General Education

**39-50**

See pages 56-59 for General Education requirements.

\*\* 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		
ES 302W	Issues in Health and Well-Being	3	
ES 320	Clinical in Manual Therapy	1	
ES 335	Kinesiology and Biomechanics	4	
ES 340	Motor wisdom and Control	3	
ES 350	Testing and Statistics	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 375	Sport and Exercise Psychology	3	
ES 385	Therapeutic Modalities	2	
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	

**Subtotal Specific Departmental Requirements      59**

Auxiliary Department Requirements:

**Bio 121Tx	Human Anatomy & Physiology	3	
Psych 157	Introduction to Psychology		3

**Subtotal Auxiliary Requirements      6**

**MAJOR TOTALS      65**

**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.*

*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.

### **Athletic Training Education Program : Technical Standards for Admission**

The Athletic Training Education Program at Fort Lewis College is a rigorous and intense program that places specific requirements and demands on the students enrolled in the program. An objective of this program is to prepare graduates to enter a variety of employment settings and to render care to a wide spectrum of individuals engaged in physical activity. The technical standards set forth by the Athletic Training Educational Program establish the essential qualities considered necessary for students admitted to this program to achieve the knowledge, skills, and competencies of an entry-level athletic trainer, as well as meet the expectations of the program's accrediting agency (Commission on Accreditation of Allied Health Education Programs [CAAHEP]). The following abilities and expectations must be met by all students admitted to the Athletic Training Educational Program. In the event a student is unable to fulfill these technical standards, with or without reasonable accommodation, the student will not be admitted to the program.

Candidates for selection to the Athletic Training Education Program will be required to verify that they understand and meet these technical standards or that they believe that, with certain accommodations, they can meet the standards.

**Compliance with the program's technical standards does not guarantee a student's eligibility for the NATABOC certification exam or acceptance into the Athletic Training Education Program.**

Candidates for selection to the Athletic Training Educational Program must demonstrate:

1. The mental capacity to assimilate, analyze, synthesize, integrate concepts and problem solve to formulate assessment and therapeutic judgments and to be able to distinguish deviations from the norm;
2. Sufficient postural and neuromuscular control, sensory function, and coordination to perform appropriate physical examinations using accepted techniques; and accurately, safely, and efficiently use the equipment and materials during the assessment and treatment of patients;
3. The ability to communicate effectively and sensitively with patients and colleagues, including individuals from different cultural and social backgrounds; this includes, but is not limited to, the ability to establish rapport with patients and communicate judgments and treatment information effectively. Students must be able to understand and speak the English language at a level consistent with competent professional practice;
4. The ability to record the physical examination results and a treatment plan clearly and accurately;
5. The capacity to maintain composure and continue to function well during periods of high stress;
6. The perseverance, diligence and commitment to complete the Athletic Training Education Program as outlined and sequenced;
7. Flexibility and the ability to adjust to changing situations and uncertainty in clinical situations;
8. Affective skills and appropriate demeanor and rapport that relate to professional education and quality patient care.

## Exercise Specialist Option

### General Education

**39-50**

See pages 56-59 for General Education requirements.

\*\* 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	Testing and Statistics	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	

### Sub-Total of Specific Departmental Requirements 41

### Auxiliary Department Requirements:

**Bio 121Tx	Human Anatomy & Physiology	3	
Psych 157	Introduction to Psychology		3

### Subtotal of Auxiliary Requirements 6

### MAJOR TOTALS 47

### Free Electives (variable)

**TOTAL REQUIRED FOR GRADUATION 120**

## K-12 Teaching Option :

**General Education 39-50**

See pages 56-59 for General Education requirements.

\*\* 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 224	Basic Principles of Athletic Training	3	
**ES 243S	Personal Health	3	
ES 250	Competencies to Teach (Tumbling, Aquatics, Fundamental Skills)	1	
ES 251	Competencies to Teach (Dance, Recreational Games, Non-Traditional Sports)	1	
ES 252	Competencies to Teach (Basketball, Soccer, Softball, Volleyball)	1	
ES 253	Competencies to Teach (Fitness, Golf, Racquet Sports)	1	
ES 301W	Current Issues in Sport OR		
ES 302W	Issues in Health and Well-Being	3	
ES 335	Kinesiology and Biomechanics	4	
ES 340	Motor Learning and Control	3	
ES 350	Testing and Statistics	3	
ES 354	Adapted Exercise	3	
ES 360	Exercise Physiology	4	
ES 363	Computer Applications in Exercise Science	3	
ES 375	Sport and Exercise Psychology		3
ES 381	Methods/Curric for K-12 Phy Ed	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	

**Subtotal Specific Departmental Requirements 50**

### Auxiliary Department Requirements:

**Bio 121Tx	Human Anatomy & Physiology	3	
Psych 157	Introduction to Psychology	3	

**Subtotal Auxiliary Requirements 6**

**MAJOR TOTALS 56**

**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.*

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

## General Education 39-50

See pages 56-59 for General Education requirements.

\*\* 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	3	
ES 337	Sport Ethics	3	
ES 339	Practicum in Sport Administration	1	
ES 345	Legal Aspects of Sport and Physical Education	3	
ES 363	Computer Applications in Exercise Science	3	
ES 375	Sport and Exercise Psychology		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	

## Subtotal Specific Departmental Requirements 33-37

### School of Business Requirements:

**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	

## Subtotal School of Business Requirements 22

**Note:** A minimum of C- must be earned in 300- and 400-level School of Business requirements.

### Auxiliary Department Requirements:

Psych 157	Introduction to Psychology		3
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## Subtotal Auxiliary Requirements 3

## MAJOR TOTALS 58-62

### 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.*

## SPORT ADMINISTRATION COMPETITIVE ADMISSION REQUIREMENTS

1. Sophomore standing
2. Written letter of 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

## Exercise Science - Coaching Minor

### 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	Sport and Exercise Psychology		3
ES 389	Coaching Internship		2

**TOTAL REQUIREMENTS FOR COACHING MINOR                      27**

## Exercise Science Minor

### 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 REQUIRED FOR EXERCISE SCIENCE MINOR                      21-23**

## FACULTY EMERITI

[A](#) [B](#) [C](#) [D](#) [E](#) [G](#) [H](#) [J](#) [K](#) [L](#) [M](#) [N](#) [P](#) [R](#) [S](#) [T](#) [V](#) [W](#) [Y](#) [Z](#)

**ALCAZAR, REINALDO M.**, Professor of Modern Language Emeritus

B.A., University of Northern Colorado, 1965

M.A., University of Colorado, 1970

Ph.D., University of Colorado, 1976

**ANGUS, EDWARD L.**, Professor of Political Science

Emeritus

A.B., University of Kentucky, 1961

M.A., Pennsylvania State University, 1963

Ph.D., Pennsylvania State University, 1970

**ANDERSON, BERNARD E.** Professor of Business Administration Emeritus

B.S., Arizona State University

M.A., University of Arizona

Ph.D., Ohio State University

**ASH, JAMES K.**, Associate Professor of History Emeritus

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

A.M., Harvard University, 1970

**ATENCIO, LEONARD D.**, Professor of Economics Emeritus

B.A., Fort Lewis College

Ph.D., Kansas State University

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**BASS, DAVID J.**, Professor of Political Science and Philosophy Emeritus

B.S., Ohio State University

M.A., University of Chicago

Ph.D., University of Chicago

**BIRD, G. LEONARD**, Professor of English Emeritus

B.A., San Diego State College

M.A., University of Utah

Ph.D., University of Utah

**BLACK, DANIEL E.**, Vice President for Financial Affairs Emeritus

A.A., Mesa College  
B.S., University of Colorado

**BLAIR, ROBERT W., JR.**, Professor of Geology Emeritus  
B.S., University of New Mexico  
Ph.D., Colorado School of Mines

**BLEDSON, TROY D.**, Professor of Exercise Science Emeritus  
B.A., Hendrix College  
M.A., Memphis State University  
Ph.D., University of Denver

**BOWMAN, FRANK O., JR.**, Professor of Geology Emeritus  
A.B., Williams College  
B.S., University of North Carolina  
Ph.D., University of North Carolina

**BREW, DOUGLAS**, Professor of Geology Emeritus  
A.B., Dartmouth College  
M.S., Cornell University  
Ph.D., Cornell University

**BURNS, SAMUEL A.**, Professor of Sociology/Human Services Emeritus  
B.A., University of San Francisco  
Ph.D., University of Colorado

**BUSHNELL, DONALD D.**, Professor of Mathematics Emeritus  
B.S. Kearney State College  
M.A., University of Northern Colorado  
Ed.D., University of Northern Colorado

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**CAMPBELL, JOHN A.**, Professor of Geology Emeritus  
B.G., University of Tulsa  
M.S., University of Colorado  
Ph.D., University of Colorado

**CANO-MONTENEGRO, MIGUEL FEDERICO**, Professor of Modern Language Emeritus  
B.S., University of Mexico  
B.S., St. Louis University  
M.A., St. Louis University  
Ph.D., St. Louis University



**CANTILLANO, ODILIE A.**, Associate Professor of Foreign Languages Emerita

B.A., West Virginia University

M.A., West Virginia University

Ph.D., University of Arizona

**CAPP, CLIFFORD B.**, Associate Professor of Mathematics Emeritus

B.S., Colorado State University

M.S., Colorado State University

**CARGILE, ELLEN**, Professor of Art Emerita

B.S., University of Texas

M.Ed., University of Arkansas

**CLAY, JAMES P.**, Professor of Business Administration/Economics Emeritus

B.A., University of Colorado, 1966

M.A., Kansas State University, 1968

Ph.D., Kansas State University, 1974

C.M.A., 1982

**COBURN, MARK DAVID**, Professor of English Emeritus

A.B., University of Chicago

M.A., Stanford University

Ph.D., Stanford University

**COE, WILLIAM**, Professor of Philosophy Emeritus

A.B., Dartmouth College

M.A., Vanderbilt University

Ph.D., Pennsylvania State University

**COLEMAN, JEREMY J.**, Professor of Business Administration Emeritus

B.S., Princeton University, 1963

M.P.A., Harvard University, 1968

D.B.A., George Washington University, 1974

**COLGAN, JOSEPH C.**, Professor of Accounting Emeritus

B.A., Kearney State College

M.B.A., University of Denver

Ph.D., North Texas State University

C.P.A., Colorado

**COOPER, ANNETTE J.**, Professor of Mathematics Emerita

B.S., Southwestern State College

M.N.S., Oklahoma University

Ed.D., Oklahoma State University

**COSTELLO, JAMES M.**, Professor of Physics Emeritus

B.A., Doane College

M.S., University of Nebraska

Ph.D., University of Nebraska

**CROWDER, JOHN**, Librarian and Professor Emeritus

B.A., University of Colorado, 1969

M.A., University of Denver, 1973

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**DECKER, JAMES C.**, Professor of Political Science Emeritus

B.A., University of Illinois

M.A., University of Colorado

Ph.D., University of Colorado

**DIN, GILBERT C.**, Professor of History Emeritus

A.B., University of California

M.A., University of California

Doctor en Filosofia y Letras, University of Madrid

**DOLPHIN, ROBERT, JR.**, Interim President Professor of Finance Emeritus

B.S., Indiana University, 1960

M.B.A., Indiana University, 1961

D.B.A., Michigan State University, 1964

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**ECKENRODE, THOMAS R.**, Professor of History Emeritus

A.B., St. Vincent College

M.A., University of Colorado

Ph.D., St. Louis University

**ELLINGSON, JACK A.**, Professor of Geology Emeritus

B.S., University of Washington

M.S., University of Washington

Ph.D., Washington State University

**ENGLEHART, STANTON**, Professor of Art Emeritus

B.F.A., University of Colorado

M.F.A., University of Colorado

**ENGMAN, VIRGINIA A.**, Professor of Education Emerita

B.A., SUNY, Oswego, 1972

M.S., SUNY, Oswego, 1973

Ph.D., Arizona State University, 1978

**ERICKSON, JAMES G.**, Professor of Biology Emeritus

B.A., Doane College

M.S., Iowa State University

Ph.D., University of Wyoming

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**GASSER, LARRY W.**, Professor of English Emeritus

B.A., Western Washington State College

M.A., Western Washington State College

Ph.D., University of Denver

**GIBBS, RICHARD A.**, Professor of Mathematics Emeritus

B.A., Michigan State University

M.S., Michigan State University

Ph.D., Michigan State University

**GIERSCH, MARVIN L.**, Professor of Education and Exercise Science Emeritus

B.S., Fort Hays Kansas State College

M.S., Baylor University

Ed.D., University of Northern Colorado

**GOBBLE, RICHARD L.**, Librarian and Associate Professor Emeritus

B.A., University of Denver

B.S., University of Denver

M.A., University of Denver

**GOFF, J. LARRY**, Professor of Business Administration Emeritus

B.A., University of Oklahoma

J.D., University of Oklahoma

M.A., Adams State College

**GOODWIN, LeROY W.**, Professor of Political Science Emeritus

B.A., University of Colorado

M.A., University of Colorado

Ph.D., Columbia University

**GRAHAM, REGINALD A.**, Professor of Business Administration Emeritus

B.S., Miami University

M.B.A., Kent State University

Ph.D., Case Western Reserve University

**GREFSRUD, GARY W.**, Professor of Mathematics Emeritus

B.S., Montana State College

M.S., Montana State University

Ph.D., Montana State University

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**HAMILTON, RODNEY D.**, Professor of Chemistry Emeritus

B.S., University of Florida

M.B.A., Old Dominion University

Ph.D., Indiana University

**HARRINGTON, ROBERT P.**, Associate Professor of Accounting Emeritus

B.S., University of Florida, 1967

M.B.A., Old Dominion University, 1978

Ph.D., Virginia Polytechnic Institute and State University, 1985

**HARRISON, E. MERLE**, Professor of Chemistry Emeritus

B.S., Brigham Young University

M.S., Colorado State University

Ph.D., Colorado State University

**HAYES, WILLIAM E.**, Assistant Professor of Exercise Science Emeritus

B.S., University of New Mexico

M.A., University of New Mexico

**HEIDY, NICHOLAS J.**, Professor of Psychology Emeritus

A.B., Adams State College

M.A. Adams State College

Ed.D., Northern Colorado University

**HENDERSON, MIRIAM T.**, Assistant Professor of Business Education Emerita

B.S., University of Utah

M.S.B.A., University of Denver

**HOLEHAN, EUGENE LEE**, Professor of Business Education Emeritus

B.A., Arizona State University

M.A., Northern Arizona University

Ed.D., Arizona State University

**HUNTER, DOREEN**, Professor of History Emerita

B.A., Stanford University, 1960

M.A., University of California/Berkeley, 1961  
Ph.D., University of California/Berkeley, 1969

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**JAMES, DONALD L.**, Professor of Business Administration Emeritus

B.S., Oklahoma State University  
M.S., Oklahoma State University  
D.B.A., University of Colorado

**JONES, JOEL M.**, President Emeritus and Interdisciplinary Professor Emeritus

B.A., Yale University  
M.A., Miami University  
Ph.D., University of New Mexico

**JONES, ROLAND C.**, Professor of English Emeritus

B.A., University of Michigan  
M.A., Northern Arizona University  
Diploma for Advanced Graduate Studies, Michigan  
State University

**JUDGE, W. JAMES**, Professor of Anthropology, Emeritus

B.A., University of New Mexico  
Ph.D., University of New Mexico

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**KELLY, REECE, C.**, Professor of History Emeritus

B.A., Eastern Washington State College, 1964  
M.A., University of Washington, 1967  
Ph.D., University of Washington, 1973

**KNIGHT, GARY D.**, Professor of Education Emeritus

B.S., East Central State College  
M.T., East Central State College  
Ed.S., Eastern New Mexico University  
Ed.D., University of New Mexico

**KUSS, ADOLPH M., JR.**, Professor of Exercise Science Emeritus

B.A., Western State College of Colorado  
M.A., Western State College of Colorado

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**LANG, LILLIAN B.**, Professor of English Emerita

B.A., Portland State University

M.A., University of California

Ph.D., University of California

**LANGWORTHY, WILLIAM C.**, Professor of Chemistry Emeritus

B.S., Tufts University

Ph.D., University of California

**LEAVITT, DINAH L.**, Professor Emerita

B.A., University of Mississippi, 1969

M.A., University of Mississippi, 1970

Ph.D., University of Colorado, 1978

**LEYERLE, BETTY J.**, Professor of Sociology/Human Services Emerita B.A., Brooklyn College

M.A., Brooklyn College

Ph.D., City University of New York

**LIKES, ROBERT N.**, Professor of Physics Emeritus

B.A., Wayne State College

M. Sci.Ed., University of Utah

Ph.D., University of Wyoming

**LINTON, NORMAN**, Professor of Sociology/Human Services Emeritus

B.A., Reed College

M.A., University of Oregon

Ph.D., University of California

**LIU, ESTHER T.C.**, Librarian and Associate Professor Emerita

B.A., National Fu Tah University

M.A., University of Minnesota

M.A., University of Denver

Ed.D., University of Northern Colorado

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**MacKEEFE, DEBORAH A.**, Professor of Modern Language Emerita

Degre Supérieur, Sorbonne

B.A., University of Arizona

M.A., University of Arizona

Ph.D., University of Arizona

**MANSFIELD, HAROLD L.**, Professor of Psychology Emeritus

B.S., Colorado State University

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

**MEHS, DOREEN M.**, Professor of Chemistry Emerita

B.A., Harpur College  
M.A., State University of New York  
Ph.D., University of New Mexico

**MILLS, JAMES W.**, Professor of Chemistry Emeritus

A.B., Earlham College, 1963  
Ph.D., Brown University, 1967

**MOSHER, NICOLE MARIE**, Professor of Modern Language Emerita

B.A., Northern Illinois University  
M.A., University of California  
Ph.D., University of California

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**NORTON, TOM D.**, Professor of Physics and Engineering Emeritus

B.S., University of Oklahoma, 1966  
M.S., University of Oklahoma, 1967  
Ph.D., University of Oklahoma, 1972

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**PAVICH, PAUL N.**, Professor of English Emeritus

B.A., Walsh College, 1967  
M.A., Colorado State University, 1968  
Ph.D., University of New Mexico, 1973

**PERRY, O.D.**, Professor of Business Administration Emeritus

B.B.A., New Mexico State University  
M.S., New Mexico State University  
D.B.A., United States International University

**PETERSON, CARROLL V.**, Professor of English Emeritus

B.S., University of Minnesota  
M.A., University of Iowa  
Ph.D., University of Iowa

**PIXLER, PAUL W.**, Professor of Philosophy Emeritus

A.B., Kletzing College  
B.D., Asbury Theological Seminary

S.T.M., Harvard University  
Ph.D., Boston University

**PODLESNIK, RICHARD A.**, Professor of Business Administration Emeritus  
B.S., Illinois Institute of Technology, 1971  
M.S., Illinois Institute of Technology, 1971  
Ph.D., Northwestern University, 1977

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**RAMALEY, WILLIAM C.**, Professor of Mathematics Emeritus  
B.S., Ohio State University, 1961  
M.A., University of Colorado, 1963  
Ph.D., University of Colorado, 1969

**REEDER, RAY M.**, Professor of History Emeritus  
B.S., Utah State University  
Ph.D., Brigham Young University

**REID, CHARLES H., JR.**, Assistant Professor of Education Emeritus  
A.B., Montclair State College  
M.Ed., University of Colorado

**RITCHEY, JOHN M.**, Professor of Chemistry Emeritus  
B.A., Wichita State University  
Ph.D., University of Colorado

**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

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**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  
Ph.D., University of Denver



**SIMMONS, JANICE L.**, Professor of Teacher Education Emerita

B.A., University of Arizona

M.Ed., University of Arizona

Ed.D., University of Northern Colorado

**SIMMONS, LINDA LOUISE**, Associate Professor of Teacher Education Emerita

B.A., New Mexico Highlands University, 1970

M.A., University of New Mexico, 1980

Ph.D., University of New Mexico, 1999

**SOMERS, LEE PRESTON**, Professor of Biology Emeritus

B.S., Wake Forest University, 1967

M.A. University of Colorado 1969

Ph.D., University of Colorado, 1971

**SPANGSBERG, DONALD**, Associate Professor of Engineering Emeritus

B.A., Kearney State Teachers College

M.A., University of Northern Colorado

**SPEAR, KAREN I.**, Professor of English Emerita

B.A., University of Maryland

Ph.D., The American University

**SPENCER, ALBERT W.**, Professor of Biology Emeritus

B.A., Colorado State University

M.S., Colorado State University

Ph.D., Colorado State University

**STEINLE, HARLAN L.**, Vice President for Institutional Advancement and Admission Emeritus

B.A., Fort Lewis College, 1968

M.A., Northern Arizona University, 1972

**STRAWN, RICHARD G.**, Professor of Music Emeritus

B.M., University of Redlands

M.M., Indiana University

**SZUECS, LASZLO**, Professor of Mathematics and Computer Science Emeritus

B.A., Phillips University, 1963

Ph.D., Johns Hopkins University, 1969

M.S., University of Colorado, 1984

**TAPIA, JOHN R.**, Professor of Foreign Languages Emeritus

B.A., West Virginia State College

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

M.A., University of Utah

Ph.D., University of Utah

**TATE, NORVEL G.**, Professor of Secondary Education Emeritus

B.A., New Mexico Highlands University

M.A., University of New Mexico

Ed.D., University of Southern California

**TUSTIN, CHARLES O.**, Associate Professor of Business Administration Emeritus

B.S., Colorado State University, 1964

M.B.A., Arizona State University, 1981

Ph.D., Arizona State University, 1992

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**VAN SICKLE, SHAILA**, Professor of English Emerita

B.A., Carleton College

M.A. Occidental College

Ph.D., University of Denver

**VOGL, LAUREL C.**, Professor of Art Emerita

B.F.A., University of Southern California, 1964

M.F.A., Claremont Graduate School, 1968

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**WALKER, CHARLES H.**, Professor of Exercise Science Emeritus

B.S., University of Nevada, 1960

M.Ed., University of Nevada, 1964

Ph.D., University of Utah, 1972

**WALKER, RICHARD C.**, Associate Professor of Mathematics Emeritus

B.S., Colorado School of Mines, 1969

M.S., Colorado School of Mines, 1975

Ph.D., Colorado School of Mines, 1979

**WALLACE, EDWIN W.**, Associate Professor of Education Emeritus

B.S., University of New Mexico

Ed.M., Adams State College

**WESTERVELT, THOMAS N.**, Associate Professor of Geology Emeritus

B.A., Middlebury College  
Ph.D., University of Wyoming

**WHALEN, DONALD F.**, Professor of Education Emeritus

B.S., Northern Arizona University  
M.A., Northern Arizona University  
H.Ed.D., Indiana University

**WILLIAMS, CARLA C.**, Professor of Engineering Emerita

B.S.S.E., John Brown University, 1969  
M.A., University of New Mexico, 1973  
Ph.D., University of New Mexico, 1991

**WILSON, RAY N.**, Professor of Education Emeritus

A.B., University of Northern Colorado  
M.S., University of Northern Colorado  
Ph.D., University of Northern Colorado

**WIXOM, JAMES A.**, Associate Professor of Mathematics and Computer Science Emeritus

B.S., University of Utah, 1964  
Ph.D., University of Utah, 1971

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**YALE, LAURA J.**, Associate Professor of Marketing Emerita

B.S., University of Massachusetts  
M.S., University of Massachusetts  
Ph.D., University of California, Irvine

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**ZOLLER, JOHN H.**, Professor of Business Administration Emeritus

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

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## **Financial Aid Programs**

[Federally Funded Programs](#)

[State Funded Programs](#)

[Institutionally Funded Programs](#)

[Application Procedure](#)

[Native American Tuition Waiver](#)

[New Mexico Reciprocal Tuition](#)

[Resident Tuition for Active Military Duty](#)

[Veterans Benefits](#)

Fort Lewis College offers a complete student financial aid program of scholarships, grants, loans, and student employment.

### **FEDERALLY FUNDED PROGRAMS**

Federal Pell Grant

Federal Perkins Loans

Federal Supplemental Educational Opportunity Grant (SEOG)

Federal College Work-Study

Federal Stafford Loan (Subsidized and Unsubsidized)

Federal PLUS Loan (Parent Loan)

Leveraging Educational Assistance Partnership Program (LEAPP)

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### **STATE-FUNDED PROGRAMS**

Colorado Student Grant (CSG)

Colorado Scholars Program

a. Presidential Scholarship (entering freshmen only)

b. Continuing Student Scholarship (continuing FLC students only)

Athletic Award (men and women)

Colorado Work-Study Program

Colorado Diversity Grant Program

Governor's Opportunity Scholarship (GOS)

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### **INSTITUTIONALLY FUNDED PROGRAMS**

Fort Lewis College Foundation Scholarships and Awards

First-Generation College Student Award Program

Valedictorian/Salutatorian Scholarship

Leadership Award

Transfer Scholarship

Western Undergraduate Exchange

Dean's Scholarship  
Academic Excellence Scholarship (continuing FLC students only)  
Ambassador Service Scholarship  
Athletic Awards (men and women)  
Departmental Scholarships

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 FLC 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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## **NATIVE AMERICAN TUITION WAIVER**

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 in 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.

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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, normally 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 Office, **970-247-7184**.

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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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## **VETERAN BENEFITS**

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**.

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# Forestry

Department Chair - Lee Preston Somers

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/concentration 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





## Forestry

**FOR 218      Fundamentals Of Ecology**

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 Bio 220; credit will be given for only one of these courses. (3-3)

**Prerequisites:** (BIO 206 OR BIO 207 )AND MATH 121  
AND (MATH 201 OR PSYC 241 )

# French Minor

## REQUIREMENTS FOR A MINOR IN FRENCH

### French:

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	

**TOTAL REQUIRED FOR FRENCH MINOR** **23**

When planning a minor in French, students should consult with an appropriate faculty member in the Department of Modern Languages.

Students may also pursue a student-constructed major in French under the supervision of the appropriate faculty member.

## **General Information**

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## **MISSION**

The following mission statement has been adopted for 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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## **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. Fort Lewis College has an approximate enrollment of 4500 students.

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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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## **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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## **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 moved to the Durango campus in 1956. The first baccalaureate degrees were granted in 1964. From 1986 to 2002, Fort Lewis was part of the Colorado State University System under the governance of the State Board of Agriculture. Fort Lewis College is currently governed by it's own independent governing board.

Fort Lewis 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 approximately 15,000, 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 campus reflects the heritage of Southwest Colorado's Ancestral Pueblo Indians. The backdrop of the rugged San Juan Mountains create a learning environment of incomparable natural beauty, and sets off the architecture that is based on the ancient and contemporary living sites of the first inhabitants of this region.

Academic activities are centered in the Chemistry Hall, Education and Business Hall, Center of Southwest Studies, Sage Hall, the John F. Reed Library, the Theatre Building, Dan 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, Advising Center, Career Planning and Placement Office, 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, soccer 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 15 weeks long. The third trimester is held during the summer months.

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 or early May. Summer Sessions begin in May.

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## **THE FACULTY**

Fort Lewis recruits its faculty from the best colleges and universities in the country. About 90 percent of our tenure track faculty hold the highest degree attainable in their disciplines. Many of the Fort Lewis faculty have developed national reputations for excellence in teaching, research, and curriculum development. Because Fort Lewis College is primarily an undergraduate institution, faculty members focus on teaching and work closely with students.

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## **ACCREDITATION**

Fort Lewis College is accredited by the North Central Association of Colleges and Schools and is a member of the American Council of Learned Societies and the Council of Public Liberal Arts Colleges. Additional accreditations are listed by schools.

School of Arts and Sciences  
Chemistry Department – American Chemical Society  
Music Department – National Association of Schools of Music

School of Business Administration  
Association to Advance Collegiate Schools of Business International

School of Education  
Education Department - Teacher Education Accrediting Council (National)  
Colorado Department of Education – (State)  
Exercise Science Department – Commission on Accreditation of Allied Health Education



## Programs

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## COMMUNITY & REGIONAL SERVICES

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## ACADEMIC READINESS, OFFICE OF

(Educational Talent Search, Upward Bound)

970-247-7387

The Center for Academic Readiness provides educational access and outreach to youth and their families living in southwest Colorado. The center assists program participants in the development and enhancement of the skills and motivation they need to attend college or vocational school.

The Center for Academic Readiness includes two federally funded TRIO programs:

Talent Search: serves 6th through 12th grade high school students and out of school adults who wish to complete a GED and/or advance to the post-secondary level

Upward Bound: serves high school students who plan to go on to college after graduation.

Academic Readiness works with students in Cortez, Durango, Ignacio, and Pagosa Springs. Talent Search also works with students in Mancos.

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## **CHILD DEVELOPMENT CENTER**

See [Campus Life & Student Services](#)

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## **COMMUNITY CONCERT HALL**

970-247-7162

The Community Concert Hall at Fort Lewis College is a state-of-the-art performance facility. With a seating capacity of 612, the Hall is large enough to attract some of the finest performers touring today, as well as small enough to offer an intimacy enjoyed by artists and audiences alike.

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## **COMMUNITY SERVICES, OFFICE OF**

970-247-7333

The Office of Community Services offers technical assistance to the five-county area surrounding Fort Lewis College. Its purposes are to increase the opportunities for students and faculty to participate in public service projects in this region; to assist local communities with significant policy issues having to do with natural resource management, community and economic development; and to ensure an educational partnership among students, faculty, and citizens by establishing a community service learning process supported by Fort Lewis College curriculum resources.

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## **ECONOMIC ANALYSIS AND BUSINESS RESEARCH, OFFICE OF**

970-247-7404

This office, located in the School of Business Administration, provides information on the local economy. The Econometer, a newsletter on local economic conditions, is published quarterly. The office hosts the Southwest Business Forum each January. The Forum presents reports and forecasts of local, state, and national economic conditions. Both the Econometer and the Southwest Business Forum are available to the public free of charge.

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## **EDUCATION OUTREACH**

970-247-7114

The Education Outreach Program meets the crucial need of educating minority students through a comprehensive, sustained program of training, designed to increase the numbers of minority and bilingual teachers. In an off-campus setting, the program has successfully increased the numbers of well-qualified bilingual teachers with a background in Navajo, Hispanic and Ute culture/language.

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## **EVENTS PLANNING OFFICE**

970-247-7372 or 970-247-7391

The Events Planning Office provides meeting, conference, catering, and special event facility scheduling. The staff is available to assist with events from beginning to end. Using the “One Stop Shop” format to make event planning as simple as possible.

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## **EXTENDED STUDIES**

970-247-7385

The Extended Studies Office develops and supports on-campus and off-campus programs that meet specific community and regional continuing educational needs. These may include degree completion, teacher certification, and various other certificate programs.

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## **FORT LEWIS COLLEGE FOUNDATION**

970-247-7121

The Fort Lewis College Foundation, created in 1969, is an independent fund raising organization that is dedicated to providing student scholarships and other funds for the academic and cultural enrichment of the campus and its students.

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## **LIBRARY**

Circulation 970-247-7270/Reference 970-247-7551

John F. Reed Library is an open access library serving the campus and the region. Any community member is welcome to use the library's services. The public reference area has over 20 computer stations with Internet access and there is no charge for this access. To check out material or order items through Interlibrary Loan, a community member can fill out a Local Patron form and receive a Fort Lewis College library card.

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## **LOCAL AFFAIRS, OFFICE OF**

970-247-7311

The mission of the Colorado Department of Local Affairs (DoLa) is to help Colorado communities achieve their goals. Fort Lewis College is the home of one of eight Field Offices for DoLa providing support to local governments in the southwest region of the state. DoLa helps these governments and community agencies through planning, development, and technical assistance services. Also within DoLa is the Emergency Management Office, which serves as a liason between local, state, and federal entities with regard to disaster/emergency management, mitigation, and recovery efforts.

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## **PROFESSIONAL ASSOCIATES**

970-247-7400

The Professional Associates of Fort Lewis College is an organization comprised of recognized leaders in business, government, and education who are now residents of the Four Corners region. The mission of the association is to improve the quality of life for residents of Four Corners using Fort Lewis College resources to interact with the community which in turn benefits students of the College. The Professional Associates' Life Long Learning Program is offered to the public in an effort to extend participants' learning in subjects of interest to residents of Southwest Colorado. The Associates use the vast knowledge and expertise of their own members to offer these lectures and panel discussions free of charge to the public.

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## **SAN JUAN FORUM**

970-247-7400

The San Juan Forum, housed at Fort Lewis College, is a non-profit corporation whose goal is to enhance economic development in the Four Corners region while preserving and advancing the quality of life for area residents. This has been the mission of the Forum since its inception in January of 1991 when it first met to discuss several issues concerning the entire San Juan Basin. The regional concerns and issues addressed include transportation, natural resource development, tourism, agriculture, telecommunications, and federal agency collaboration. The Forum's membership is resolved to meet the needs in these areas with cooperation and communication for cost effective solutions.

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## **SMALL BUSINESS DEVELOPMENT CENTER**

970-247-7009

The SBDC, located in the School of Business Administration, provides low cost consulting, training and support for small businesses in Southwest Colorado. The service area includes Archuleta, Dolores, La Plata, Montezuma, San Juan and San Miguel counties.

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## **SOUTHWEST STUDIES, CENTER OF**

970-247-7456

Established in 1964, the Center of Southwest Studies mission affirms and reflects the College's unique physical and cultural identity. Housed in a new \$7.6 million building, the Center contains classrooms, offices, the academic programs for Anthropology and Southwest Studies, laboratories, a museum, and a research library. The Center acquires, organizes, preserves and makes available significant historical, archaeological, ethnographic, administrative, legal, fiscal and informational materials pertaining to Fort Lewis College and the greater American Southwest.

The result is over 8,000 material artifacts, including the unparalleled Durango Collection of

Southwest weavings that go back over eight hundred years; 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 over 35,000 photographs, as well as 20,000 volumes, numerous periodicals, and 500 special collections dating from prehistory to the present.

Designed to be the intellectual heart of Durango and the Southwest, the Center encourages and supports research of its holdings for students, residents, scholars and visitors. In addition, the Center actively serves the local and regional community by offering tours and presentations and through its sponsorship of meetings, speakers, seminars, and conferences related to the Southwest.

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## **TOURISM RESEARCH, CENTER FOR**

970-247-7550

The Colorado Center for Tourism Research in the School of Business Administration is dedicated to providing research and outreach services that enhance the understanding of travel and tourism and its relationship to the culture and the environment of the Four Corners Region.

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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. (4-0)

## Continuation of GS 101. (4-0)

This program 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 interest. Only students whose Reading/Writing placement is equivalent to Comp 150 will be eligible for the ILP program. (21-3)

This course is required for students who intend to study abroad while at Fort Lewis College and is directed to students who will be independently participating on international exchanges, study abroad programs, or through direct enrollment agreements at foreign institutions. This course may be taken any semester before studying abroad and is designed to help students investigate the numerous destinations and programs available to them, as well as how these programs fit within the Fort Lewis College curriculum and credit transferability guidelines. General information on foreign academic systems and teaching methodologies, passports, visas, financial aid, and health and safety issues are also covered to help students make informed decisions on their program choices. It is during this section that students will evaluate how this experience will or will not fit into their academic plan. Students participating on FLC faculty run programs are not required to take this course, but are welcome. The course is graded Pass/Fail.

This course is required for students the semester directly preceding a study abroad experience. Admission requirements, housing information, travel arrangements and visa procedures change frequently and information is time-sensitive. Students will be required to research their prospective programs, becoming informed on the current political, cultural and bureaucratic specifics of their chosen country and region. While enrolled in this course, students will complete the application process for their selected programs, as well as a pre-departure orientation. The International Programs Office will only process student applications submitted through this class. Students must be enrolled in this course in order for the International Programs Office to work as their advocate and liaison between FLC administrative offices, faculty, staff and international partners. This course is graded Pass/Fail.

Students have the opportunity to work in the International Programs Office on a variety of projects associated with study abroad, foreign student advising, and website design. Students who have returned from an overseas experience, or who are here as visiting international students, will find the experience especially relevant when pursuing post-graduation job opportunities. Prospective international students will have the opportunity to explore the various aspects of international education and program development. Pass/Fail credit.

**Prerequisites:** GS 250 AND GS 251

**GS 375      European Studies on Exchange      3-18**

This course provides appropriate credit for studies completed in one of FLC's exchange programs with European Postsecondary schools. It may be repeated once for credit. The exact number of credit hours will be determined by the appropriate Dean after review of the study program completed. (3-18)

**GS 495      Environmental Colloquium      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. (4-0)

**Prerequisite:** PSYC 241 OR MATH 201 OR BA 253

**GS 496      Interdisciplinary Senior Sem      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.

## Geography

### **GEOG 250T Intro Computer Mapping & GIS 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. (3-3)

### **GEOG 271R World Regional Geog 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. (4-0)

### **GEOG 300 Intermediate GIS:Vector-Based Analys 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. (2-3)

**Prerequisite:** GEOG 250

### **GEOG 320 Natural Regions Of North America 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. (3-0)

**Prerequisite:** GEOL 113 OR GEOL 110 OR GEOL 107

### **GEOG 335 Weather and Climate 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. (3-0)

### **GEOG 400 Adv GIS: Raster-Based Analysis 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. (2-3)



# Geosciences

Department Chair - James D. Collier

Professor - James D. Collier;

Associate Professors - Gary L. Gianniny, and Ray Kenny;

Assistant Professors - David A. Gonzales, Kimberly A. Hannula, and

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:

### Geology Option :

#### General Education

**39-50**

See pages 56-59 for General Education requirements.

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

#### Specific Departmental Requirements:

\*\*Geol 107Nx Earth Systems Science

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 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</b>	<b>Specific Departmental Requirements</b>	<b>51</b>

Auxiliary Requirements:

Chem 150	Fundamentals of Chemistry I	4
**Chem 151Tx	Fundamentals of Chemistry II	4
	OR	
Geol 420	Introduction to Geochemistry	3
**Math 221Q	Calculus I	4

One of the following:

**Math 222Q, **Math 201Q, **BA 253Q, or **Psync 241Q	4
Phys 201 College Physics	4
OR	
**Phys 217Tx Physics for Science and Engineering I	5

<b>Subtotal</b>	<b>Auxiliary Requirements</b>	<b>19-21</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.*

## Environmental Geology Option :

<b>General Education</b>	<b>39-50</b>
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See pages 56-59 for General Education requirements.

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

Specific Departmental Requirements:

**Geol 107Nx	Earth Systems Science	
	OR	
**Geol 113Tx	Physical Geology	4
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 420 Introduction to Geochemistry	3	
Geol 430 Engineering Geology	3	
Geol 435 Groundwater Geology	3	
Geol 441 Field Geology	6	
Geol 496 Senior Seminar I – Research	1	
Geol 497 Senior Seminar II – Thesis	2	
<b>Subtotal</b>	<b>Specific Departmental Requirements</b>	<b>53</b>

Auxiliary Requirements:

Chem 150 Fundamentals of Chemistry I	4	
**Chem 151Tx Fundamentals of Chemistry II	4	
**Math 221Q Calculus I	4	
<u>One of the following:</u>		
**Math 201Q, **Math 222Q, **BA 253Q, **Psyc 241Q, or Geol 405	4	

Phys 201 College Physics	4	
OR		
**Phys 217Tx Physics for Science and Engineering I	5	

<b>Subtotal Auxiliary Requirements</b>	<b>16-17</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.*

## Earth Science for Secondary Teachers Option :

<b>General Education</b>	<b>39-50</b>	
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See pages 56-59 for General Education requirements.

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

Specific Departmental Requirements:

**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 Weather and Climate	3	
Geol 496 Senior Seminar I – Research	1	
Geol 497 Senior Seminar II – Thesis	2	

<b>Subtotal Specific Departmental Requirements</b>	<b>41</b>	
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Auxiliary Requirements:

**Bio 112N Introduction to Biology:	4	
Chem 150 Fundamentals of Chemistry	4	
**Math 110Q College Algebra		4
Phys 201 College Physics	4	
**PhSc 206Tx Astronomy	4	

Teacher Education Courses<sup>1</sup>:

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</b>	<b>Auxiliary Requirements</b>	<b>53</b>
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**Free Electives (variable)**

<b>TOTAL REQUIRED FOR GRADUATION</b>	<b>120</b>
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<sup>1</sup>

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.*

**PREPARATION FOR GRADUATE SCHOOL**

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  
 Phys 202 College Physics (non-Calculus) II  
 Math 222Q Calculus II

## Geology Minor

**REQUIREMENTS FOR A MINOR IN GEOLOGY :**Specific Departmental Requirements:

**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	
Upper division Geology electives	10	

<b>TOTAL REQUIREMENTS FOR GEOLOGY MINOR</b>	<b>24</b>
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### German Minor

*(See Modern Languages on page 114. See course listings on page 176.)*

#### REQUIREMENTS FOR A MINOR IN GERMAN:

##### German:

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

**TOTAL REQUIREMENTS FOR GERMAN MINOR                      23**

When planning a minor in German, students should consult with an appropriate faculty member in the Department of Modern Languages.

Students may also pursue a student-constructed major in German under the supervision of the appropriate faculty member (See [Academic Programs](#)).

For French, German, Japanese, Latin, and Navajo, see Modern Language course listings, page 176.

# Geology

## **GEOL 107Nx Earth Systems Science**

**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. (3-3)

## **GEOL 113Tx Physical Geology**

**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. (3-3)

## **GEOL 114 Historical Geology**

**4**

The geologic history and development of life on Earth. Laboratory work on rocks, fossils and maps. Field trips. (3-3)

**Prerequisite:** GEOL 113 OR GEOL 110

## **GEOL 150N Geology of the Southwest**

**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. (3-0)

## **GEOL 170N Earth Shock**

**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. (3-0)

## **GEOL 180N Intro to Oceanography**

**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. (3-0)

## **GEOL 202 Geologic Methods**

**2**

An introduction to basic field and computer techniques used in geology. (1-3)

**Prerequisite:** GEOL 113 OR GEOL 107

## **GEOL 207 Mineralogy**

**3**

The elements of crystallography and the classification and identification of minerals. (2-3)

**Prerequisites:** CHEM 150 AND (GEOL 107 OR GEOL 113 )

## **GEOL 208 Optical Mineralogy**

**4**

Procedures for identification of minerals in thin section, with emphasis on the optical determination of rock-forming minerals.

(2-6)

**Prerequisite:** GEOL 207

## **GEOL 210 Petrology**

**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. (2-3)

**Prerequisite:** GEOL 207

**GEOL 305 Volcanism of Hawaii 2**

Perhaps nowhere on earth can students experience the primal force of earth processes than on the island of Hawaii. This course travels to Hawaii to witness first-hand the formation of new land.

**GEOL 323 Geomorphology 4**

The classification, description, nature, origin and development of present landforms and their relationships to underlying structures. Field trips. (3-3)

**Prerequisite:** GEOL 202

**GEOL 325 Introduction To Remote Sensing 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. (3-3)

**Prerequisites:** (GEOL 113 OR GEOL 107 ) AND MATH 110

**GEOL 332 Plate Tectonics 3**

An introduction to crustal plates, their boundaries and their interactions given in terms of classic geological settings throughout the world. (3-0)

**Prerequisites:** (GEOL 107 OR GEOL 113 ) AND MATH 121

**GEOL 333 Introductory Paleontology 3**

The systematic study of fossils, primarily invertebrate fossils, used in the identification and correlation of geologic formations. (2-3)

**Prerequisite:** GEOL 114

**GEOL 337 Structural Geology 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. (3-3)

**Prerequisites:** MATH 121 AND GEOL 202 AND GEOL 113

**GEOL 361 Stratigraphy And Sedimentation 4**

Sediments and sedimentary rocks--their characteristics and classification; sedimentary processes, tectonics and sedimentation. Stratigraphy--its history, stratigraphic nomenclature, facies relationships and correlation. (3-3)

**Prerequisite:** GEOL 207 AND GEOL 210

**GEOL 363 Sedimentary Petrology 4**

The origin, occurrence and classification of sedimentary rocks. (3-2)

**Prerequisites:** GEOL 208 AND GEOL 210 AND GEOL 361

**GEOL 364 Igneous/Metamorphic Petrology 4**

The origin, occurrence, classification and petrography of igneous and metamorphic rocks. (3-3)

**Prerequisites:** GEOL 210 AND GEOL 208

**GEOL 380W Technical Writing in Geology 3**

Technical writing in the geological sciences will focus on the preparation of geological reports, analysis of data, resumes, proposals and bibliographic documentations.(3-0)

**Prerequisites:** (COMP 150 OR COMP 250 OR COMP 126 )

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. (3-0)

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. Alternates with Geol 420. (2-6)

Behavior of the common rock-forming oxides in endogenic and exogenic processes; isotope geochemistry; geochemical exploration. Alternates with Geol 405. (3-0)

Application of geological sciences to the location, design, construction, operation and maintenance of engineering works. Alternates with Geol 435. (3-0)

The qualitative and quantitative aspects of the occurrence of water in the ground. Alternates with Geol 430. (3-3)

The fundamental procedures and practices in geologic mapping. Summer term.

Intensive field work on various geological problems emphasizing interpretation of petrologic and structural relationships. Summer term.

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. (1-0)

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. (2-0)

**Prerequisite:** GEOL 496



# Geographic Information Systems (GIS) Minor

Program Coordinator - W. Scott White

## What is GIS?

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 of course, geography. A GIS is used to build cartographic databases, create attributes for map information, and analyze and visualize complex spatial relationships in the mapped information. Students in the GIS courses gain valuable experience using industry-standard GIS software, as well as a familiarity with various modern field mapping procedures, including GPS (Global Positioning Systems). Surveying, remote sensing and computer science courses provide additional fundamental skills related to GIS. 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):**

### 1. GIS Courses:

Geog 250T Introduction to Computer Mapping and GIS	4
Geog 300 Intermediate GIS: Vector-Based Analysis	3
Geog 400 Advanced GIS: Raster-Based Analysis	3
Geog 499 Independent Study	1-3

**Subtotal Total GIS 11-13**

### 2. Surveying Courses:

Engr 205 Surveying I	4
Engr 305 Surveying II	4
OR	
Geol 325 Introduction to Remote Sensing	4

**Subtotal Surveying 8**

### 3. Computer Courses:

CSIS 106 Introduction to Programming in Visual Basic	4
OR	
CSIS 110 Introduction to Programming in Java	4
OR	
Engr 104 Computer Programming for Scientists and Engineers	3

**Subtotal Computer Science 3-4**

**TOTAL REQUIRED HOURS FOR GIS MINOR 22-25**

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	4	
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	4	
**Math 201Q, **BA 253Q, or **Psyc 241Q Statistics	4	



# Health Careers--Program Options for Students Interested in Health Careers

Specific pre-professional course requirements vary significantly depending upon the health field chosen. All professional schools, however, prefer those students who have had a broad undergraduate education, have a solid foundation in the natural sciences, possess well-developed communication skills, and have had some experience (either volunteer or paid) in the health related profession of their choice. Hence, the pre-health-professions student should anticipate securing a thorough understanding in biology, chemistry, mathematics, physics, and English. At Fort Lewis College, degree options that fulfill a majority of the requirements for most health professions programs are the Cellular and Molecular or General Biology options in the Biology Department. Although most pre-health professions students have majored in biology or biochemistry, most professional schools will consider graduates in other major fields who have met the basic requirements for admission. The Medical College Aptitude Test (MCAT) that students must take prior to application to medical school emphasizes knowledge in cell biology; genetics; embryology; bacterial physiology; basic chemistry; human physiology; organic chemistry, particularly as it relates to biological molecules; and basic physics related to biological systems. Many of the other health-associated professions (i.e., veterinary medicine, physical therapy, pharmacy) also look for general knowledge in these areas, in addition to other more specific requirements.

Students considering careers in health professions should carefully plan their academic program very early in their undergraduate education. To assist the prospective pre-health professions student in selecting curricula that will satisfy the academic requirements of specific professional schools, Fort Lewis College has established a Pre-Health Advisory Committee. It is strongly recommended that the pre-health professions student, in addition to consulting his or her major advisor, select a member of this committee to serve as a personal academic advisor. Contact the biology or chemistry department chair for information on membership of this committee.

Students may pursue courses at Fort Lewis College that lead to a variety of health careers. Over the years, the Pre-Health Advisory Committee and Fort Lewis College have developed a very favorable rapport with the professional schools in Colorado, Arizona, New Mexico, and Utah. Many of our students have chosen to attend schools in the Four Corners states; many also have attended professional schools throughout the nation.

The most popular pre-professional programs at Fort Lewis College have been those in dentistry, medicine, medical technology, physical therapy, and veterinary medicine, but advising and academic planning also are available for programs in other allied health fields.

The purpose of the Pre-Health Advisory Committee is to guide and counsel all students in the health careers preparatory programs. This committee has prepared a Pre-professional Student handbook containing examples of suggested course schedules and curricula. Interested students may obtain a copy of the handbook by contacting any member of the Pre-Health Advisory Committee.

In addition to advising students in their preparatory programs, the Committee assists students with application procedures and in preparing for professional school admissions interviews. The Committee will, upon student request, provide recommendation documents to professional schools in accordance with the student's qualifications.

Please contact the chair of the biology or chemistry department for more information.

## History

### **HIST 140R Survey Of African History I 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. (3-0)

### **HIST 141R Survey Of African History II 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. (3-0)

### **HIST 160R Surv Of Western Civilization I 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. (3-0)

### **HIST 170R Survey East Asian Civ I 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. (3-0)

### **HIST 171R Survey East Asian Civ II 3**

This course studies modern East Asia from the mid-19<sup>th</sup> 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. (3-0)

### **HIST 175 Intro Latin American History 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. (3-0)

### **HIST 181N U. S. Environmental History 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 the past. This course is the same as SW 181; credit will be given for only one of these courses. (3-0)

### **HIST 261S West Civ II:1350 to Present 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. (3-0)

### **HIST 262S Tolerance and Persecution in the Middle Ages 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. (4-0)

**HIST 263R Medieval Life-Modern Film & Literature 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. (4-0)

**HIST 270R Colonial Latin America 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. (3-0)

**HIST 271S Latin Amer Since Independence 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. Recommended preparation: Hist 270. (3-0)

**HIST 280 Surv of U. S. History, 1600-1877 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 1840's, the Civil war, Reconstruction and the Indian wars of the 1860's and 1870's. (3-0)

**HIST 281R Surv U. S. History, 1877-Present 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. (3-0)

**HIST 302 Ancient Rome 4**

Introduction to Ancient Rome from its Etruscan beginnings to the end of Empire. Topic 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. (4-0)

**HIST 305 Mesopotamian Myth/Religion 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. (3-0)

**HIST 306 Ancient Women's Religions 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. This course is the same as RS 306; credit will only be given for one of these courses. (4-0)

**HIST 308 Rise of Christianity 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. This course is the same as RS 308; credit will only be given for one of these courses. (4-0)

**HIST 311 Colonial & Revolutionary America, 1492-1789 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. (4-0)

**Prerequisite:** HIST 280

**HIST 314 Inventing America 1789-1850 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. (4-0)

**HIST 315 Irish, Catholic, American 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. (4-0)

**HIST 316 Civil War America 4**

The 20 years that changed America, 1848-1868. The causes, campaigns, people and significance of the Civil War era. (4-0)

**HIST 318 Emergence of Modern America, 1893-1939 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 1920's, the Great Depression and the New Deal. (4-0)

**HIST 322 Western American Mining 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. This course is the same as SW 482; credit will be given for only one of these courses. (4-0)

**HIST 324 Colorado History 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. (3-0)

**HIST 326 Baseball & the American Dream 4**

Examines the impact of baseball on such varied topics as urbanization, literature, business and racial relations. Baseball from the inside and outside. (4-0)

**HIST 332 Women in American History 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 WS 332; credit will be given for only one of these courses. (4-0)

## HIST 333 America Since 1945 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. (4-0)

**Prerequisite:** HIST 281

<b>HIST 334</b>	<b>United States &amp; Vietnam</b>	<b>4</b>
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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. (4-0)

**HIST 337 Cultural & Intellectual History of America in the 20<sup>th</sup> Century 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. (4-0)

**Prerequisite:** HIST 281

HIST 342	West Africa	4
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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 and the environmental crisis. (4-0)

<b>HIST 343</b>	<b>Ancient Nile Valley</b>	<b>4</b>
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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. (4-0)

<b>HIST 344</b>	<b>Northeast Africa</b>	<b>4</b>
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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, hydropolitics, the roots of famine, social change, the Somali civil war. (4-0)

<b>HIST 346</b>	<b>South Africa</b>	<b>4</b>
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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. (4-0)

<b>HIST 348</b>	<b>Africans in the Americas</b>	<b>4</b>
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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. (4-0)

**Prerequisite:** HIST 270 OR HIST 280

<b>HIST 349</b>	<b>Islam in History</b>	<b>4</b>
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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. (4-0)

<b>HIST 351</b>	<b>U. S.-East Asian Relations</b>	<b>4</b>
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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. (4-0)

**Prerequisite:** HIST 171

<b>HIST 354</b>	<b>Women, Family, and Gender in Chinese</b>	<b>History</b>	<b>4</b>
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<b>HIST 355</b>	<b>East Asian Popular Religion</b>	<b>4</b>
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<b>HIST 356</b>	<b>History of Japan</b>	<b>4</b>
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<b>HIST 359</b>	<b>Medieval Europe</b>	<b>4</b>
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HIST 360	Renaissance Europe	4
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HIST 361	Russia in Revolution to 1924	4
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HIST 362	Soviet Union:Stalin-Gorbachev	4
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HIST 363 Collapse of the Soviet Union 3

**Prerequisite:** HIST 261

<b>HIST 364</b>	<b>Germany to 1919</b>	<b>4</b>
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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. (4-0)



<b>HIST 366</b>	<b>Hitler and the Holocaust</b>	<b>3</b>
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**Prerequisite:** HIST 261

<b>HIST 368</b>	<b>Medieval Women</b>	<b>4</b>
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<b>HIST 371</b>	<b>History of Central America</b>	<b>4</b>
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<b>HIST 372</b>	<b>U. S. - Latin American Relations</b>	<b>4</b>
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<b>HIST 373</b>	<b>History of Mexico</b>	<b>4</b>
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**HIST 382    Reformation Europe & the Wars of Religion    4**

**HIST 396W Philosophy and Methods** **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. (4-0)



# History

Department Chair - Neil McHugh

Professors - Doreen Hunter, Neil McHugh, and Duane A. Smith;

Associate Professors - James K. Ash, Robert R. Bunting, and Michael F. Fry;

Assistant Professor - 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**

### **African and Middle Eastern History**

Choose from among:

- \*\*Hist 140R Survey of African History I
- \*\*Hist 141R Survey of African History II
- Hist 305 Mesopotamian Myth/Religion
- 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
- Hist 446 Ancient Israel and Judah

### **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 354 Women Family & Gender in Chinese History
- Hist 355 East Asian Popular Religion
- Hist 356 History of Japan
- 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 262 Tolerance & Persecution in the Middle Ages
- Hist 263 Medieval Life in Modern Film and Literature
- Hist 302 Ancient Rome
- 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 to 1919
- Hist 365 Germany, 1919 to Present
- Hist 366 Hitler and the Holocaust
- Hist 368 Medieval Women
- 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 322 Western American Mining
  - Hist 324 Colorado History
  - Hist 326 Baseball and the American Dream
  - 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 20<sup>th</sup> Century
  - 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 39-50

See pages 56-59 for General Education requirements.

\*\* 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.

Upper-Division History Requirements:

- 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>TOTAL REQUIRED FOR HISTORY MINOR</b>	<b>19-21</b>
-----------------------------------------	--------------

## Honors

**HON 220      Honors Forum**

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. (1-0)

**Prerequisites:** (COMP 150 OR COMP 250 OR COMP 126 )  
AND (LIB 150 OR LIB 150 equivalent)

**HON 420      Honors Forum**

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. (1-0)

**Prerequisites:** (COMP 150 OR COMP 250 OR COMP 126 )  
AND (LIB 150 OR LIB 150 equivalent)

# Humanities

## Coordinators

Associate Professor Michael C. Anziano, Professor Gordon P. Cheesewright, and Associate Professor Kathryn Moller.

## Humanities Advisors

Professor Susan M. Riches, Anthropology; Professor Laurel C. Vogl or Associate Professor Susan M. Moss, Art; Professor Vernon E. Lynch, Jr., Economics; Professor Larry K. Hartsfield, Professor Paul N. Pavich, or Associate Professor Jennifer A. Gehrman, English; Professor Rochelle G. Mann, Music; Associate Professor Dugald L. Owen, Philosophy; Professor Byron Dare, Political Science; Professor Thomas A. Skurky or Associate Professor Michael C. Anziano, Psychology; Associate Professor Dennis W. Lum, Sociology.

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 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.*

**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

**Theatre:** Thea 101 does 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

**39-50**

See pages 56-59 for General Education requirements.

\*\* 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):



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.*



# Fort Lewis College Course Catalog 2003-2004

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Office of Admission  
Fort Lewis College  
1000 Rim Drive  
Durango, Colorado  
81301-3999

Phone:  
(970)-247-7184

E-mail:  
[admission@fortlewis.edu](mailto:admission@fortlewis.edu)

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### **About This Catalog**

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 credit hours each trimester, they may reasonably expect to complete the degree program within eight trimesters.

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.



### **Right to Alter Course Listings**

Course offerings and requirements at all colleges vary with time and demand.

The Fort Lewis College Administration reserves the right to alter course listings as necessary without notice.

### **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)

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# Interdisciplinary Studies

Coordinator – Jennifer Trujillo

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, and 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, and 3) electives; the teacher licensure requirements serve as the electives for students seeking licensure.

General Education

39-50

See pages 56-59 for General Education requirements.

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

Required credits from each content area:

	Elementary	Early Childhood
Math	10	3
Science	12	3
Social Studies	10	20
Language Arts	12	18
Sub totals	44	44

## 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 201Q Elementary Statistics 4

**Math 315Q	Real Numbers and Geometry	3	
**Math 318Q	Math for the Elementary School 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	Issues in Genetic Engineering	4	
**Bio 121BTx	Human Anatomy and Physiology and Lab	3	
**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	
**PhySc 205T	Introductory Astronomy	3	
**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 Educators	3	

Elective Courses in Language Arts

**Engl 265S	Semantics	2-4	
Engl 366	Teaching Writing	4	
Engl 378	Young Adult Literature	4	
**Engl 280R	Literature of the Southwest	4	

**SOCIAL STUDIES**Required

Psych 254	Life Span Human Development	4	
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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	
**Geog 271R	World and Regional Geography	4	
Hist 280	Survey of U.S. History 1600-1865	3	
**Hist 281R	Survey of U.S. History 1865 – Present	3	
Hist 324	Colorado History		3
**PS 110S	U.S. National Government	3	
Soc 376	Language and Social Behavior	4	
SW 323	SW Indian History		3

—

Auxiliary Requirements:

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 REQUIREMENTS FOR THE INTERDISCIPLINARY  
STUDIES MAJOR 120**

# 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.

### Language

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 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

### Political Science

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 205	Environmental Politics	3	
PS 280S	Introduction to Comparative Politics	4	
PS 300	Religion and Politics	4	
PS 320	International Politics		4
PS 322	International Political Economics	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	

### Business

Each student is urged to take one of the following as part of the program in International Studies.

BA 271	Principles of International Business	3
BA 389	International Finance	4
BA 375	Studies in European Business (Trimester Abroad)	3-18
BA 372W	Global Business Seminar	4

### Economics

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
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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 39-50**

See pages 56-59 for General Education Requirements. 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.*

## 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.** 1-4 indicates variable credit; the minimum and maximum credit limitation per term are shown. An example:

**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.

## SYMBOLS

Course descriptions include a variety of symbols that convey essential information. The following standard course description with explanation of symbols is an example.



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. (2-4)

**Prerequisites:** BA 340 AND BA 353 AND BA 380 AND BA 221

**BA** – department designator

**407** – course number

**W** – suffix indicates course meets General Education W requirement.

**Management Consulting** – Course title

**4** – number of credits awarded for successful completion of the course

**"The study of the concepts...."** – Explanation of course content, or course description.

**(2-4)** (clock hours in lecture per week – clock hours in laboratory experiences per week)

**Prerequisites** – Requirements that must be fulfilled before enrolling in the course. **NOTE:**

**Some class prerequisites must be completed with at least a grade of C- or better.**

**Please check the current Web catalog for minimum prerequisite grade requirements.**

**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.

# Library

## LIB 150 Info Literacy: Intr to Rsch Mtd 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. (1-0)

## **Majors, Minors, and Options**

[Accounting](#)

[Agriculture](#)

[Anthropology](#)

[Art](#)

[Asian Studies Minor](#)

[Biology](#)

[Business Administration](#)

[Chemistry](#)

[Computer Science and Information Systems](#)

[Economics](#)

[Engineering](#)

[English](#)

[Entrepreneurship and Small Business Management Minor](#)

[Environmental Policy Minor](#)

[Exercise Science](#)

[Forestry](#)

[French Minor](#)

[Geographical Information Systems Minor](#)

[Geosciences](#)

[Health Careers](#)

[History](#)

[Humanities](#)

[Interdisciplinary Studies](#)

[International Studies](#)

[Marketing Minor](#)

[Mathematics](#)

[Modern Languages](#)

[Music](#)

[Philosophy](#)

[Physics](#)

[Political Science](#)

[Psychology](#)

[Religious Studies](#)

[Sociology](#)

[Southwest Studies](#)

[Spanish Minor](#)

[Student Constructed Major](#)

[Teacher Education](#)

[Theatre](#)

[Women's Studies](#)

[Writing Program](#)

# Marketing Minor

## 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>Subtotal</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>Subtotal</b>			<b>8-9</b>

**Total REQUIREMENTS FOR MARKETING MINOR      20-21**

<sup>1</sup> **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.**

# Mathematics

## 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 105Q College Mathematics** **3**

This course is intended for students who do not intend to pursue upper-level mathematics courses. Survey of statistics and probability, critical examination of quantitative data in the media, consumer applications, environmental mathematics, and other "real world" applications. (3-0)

**Prerequisite:** ACT Math Score 19 OR TRS 92

### **MATH 110Q College Algebra** **4**

This course covers the topics in algebra necessary for students who plan to enroll in Math 210Q Survey of Calculus or Math 121Q Precalculus. The use of technology to aid in problem solving is an integral part of the course. Specific topics covered are simplifications of algebraic expressions, complex numbers, solutions of equations (including systems of linear equations) and inequalities, and functions, including polynomial, root, rational, exponential, and logarithmic. (4-0)

**Prerequisite:** TRS 92 OR placement into Math 110

### **MATH 121Q Pre-Calculus** **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. (4-0)

**Prerequisite:** MATH 110 OR placement into Math 121

### **MATH 135Q Mathematical Concepts** **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 statistical relations, with elementary analysis of data. (3-0)

**Prerequisite:** TRS 92

### **MATH 201Q Elementary Statistics** **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. (4-0)

**Prerequisite:** MATH 110 OR Placement into Math 121 OR

MATH 121 OR MATH 221 OR MATH 222 OR  
MATH 210

**MATH 205Q Biostatistics** **4**

An introduction to statistics most widely used in biological sciences, including exploratory data analysis, statistical inference, experimental design, nonparametrics and application of statistical software. (4-0)

**Prerequisite:** MATH 110 OR Placement into Math 110 OR  
MATH 121 OR MATH 221 OR MATH 222 OR  
MATH 210

**MATH 210Q Survey of Calculus** **4**

This course is intended as a survey of Calculus for students who do not intend to continue their study of Calculus. Topics include limits, differential and integral calculus of one variable and an introduction to calculus of two two variables. Math 210 does not satisfy the prerequisite for Math 221 and Math 222. Students who require a more rigorous treatment of Calculus should take Math 221 and Math 222. (4-0)

**Prerequisite:** MATH 110 OR MATH 121 OR Placement into  
MATH 121

**MATH 215Q Math For Elem School Teacher I** **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. (2-2)

**Prerequisite:** (TRS 92 OR Placement into MA110) AND  
Completion of or concurrent enrollment in ED 200

**MATH 221Q Calculus I** **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. (4-0)

**Prerequisite:** MATH 121 OR Placement into MA221

**MATH 222Q Calculus II** **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. (4-0)

**Prerequisite:** MATH 221 Placement into MA 222

**MATH 223Q Calculus III** **4**

Vectors and multivariable calculus with applications. (4-0)

**Prerequisite:** MATH 222

**MATH 301W** **Foundations for Advanced**  
**Math** **4**

A study of mathematical systems and the forms and techniques of proofs. Included are logic, set theory, and an ntroduction to elementary number theory. These are studied in some depth and with careful attention to forms of proofs. The writing of these proofs in a standard mathematical form is emphasized. (4-0)

**Prerequisite:** MATH 221

**MATH 305Q Discrete Math Structures 4**

A study of sets, graphs, trees, combinatorics, probability, recursion, algorithms, mathematical reasoning and modeling computation with applications to computer science. (3-2)

**Prerequisites:** (MATH 221 OR MATH 210 )  
AND (CSIS 110 OR CSIS 106 )

**MATH 310Q Math for Secondary Teachers 3**

This course is for students who are planning to be secondary or middle school teachers. It will include concept 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. Note: Students enrolling in Math 310 must have placement into the teacher education program. (3-0)

**MATH 311Q Matrices & Linear Algebra 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. (4-0)

**Prerequisite:** MATH 221

**MATH 315Q Real Numbers And Geometry 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. (3-0)

**Prerequisite:** MATH 215

**MATH 316Q Topics In Number Theory 3**

Some of the topics to be presented in this course are: modular arithmetic, finite fields, basic prime number theorems, congruences, and combinations. (3-0)

**Prerequisite:** MATH 221

**MATH 318Q Math for Elem Sch Teacher II 3**

A continuation of Math 215Q. Topics will include the use of calculators and computers, discrete math, data analysis, and an introduction to algebra. (2-2)

**Prerequisite:** MATH 215

**MATH 320Q Numerical Analysis 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. (3-0)

**Prerequisites:** MATH 222 AND (CSIS 150 OR CSIS 110 )

**MATH 325 History Of Mathematics 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. (3-0)

**Prerequisite:** MATH 121

**MATH 327Q Differential Equations 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. (4-0)

**Prerequisite:** MATH 222



**MATH 342Q Modern College Geometry 3**

A course in college geometry that includes topics in Euclidean and non-Euclidean geometries. (3-0)

**Prerequisite:** MATH 301

**MATH 360Q Intro To Operations Research 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 BA 360; credit will not be given for both of these courses.) (4-0)

**Prerequisites:** (MATH 210 OR MATH 221 ) AND  
(MATH 201 OR BA 253 )

**MATH 387Q Algebraic Structures 4**

A course in abstract algebra including topics from the theories of groups, rings, and fields. Applications will be discussed. (4-0)

**Prerequisite:** MATH 301

**MATH 424Q Advanced Calculus 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. (4-0)

**Prerequisites:** MATH 223 AND MATH 301

**MATH 430Q Complex Variables 3**

This course will cover topics in complex numbers, analytic functions, elementary functions and associated mappings, integrals, series, residues and poles, and conformal mappings. (3-0)

**Prerequisite:** MATH 223

**MATH 496 Mathematics Senior Seminar 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 mathematics. Consent of instructor is required. (3-0)

# Mathematics

Department Chair - Deb Barrier  
Professors - Evans J. Adams, Gregory W. Bell, and Laszlo Szuecs;  
Associate Professors Deborah L. Berrier, Richard C. Walker, and James A. Wixom;  
Assistant Professors - Carl F. Lienert and Pamela K. Smith;  
Visiting Instructors - Allen F. Greenwood and 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 MINOR

A minor is available in mathematics and requirements are listed at the end of this section.

### REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN MATHEMATICS:

**General Education** **39-50**  
See pages 56-59 for General Education requirements.

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

<u>Specific Departmental Requirements:</u>	
**Math 201Q Elementary Statistics	4
**Math 221Q Calculus I	4
**Math 222Q Calculus II	4
**Math 223Q Calculus III	4
**Math 301 Foundations for Advanced Mathematics	4
**Math 311Q Matrices and Linear Algebra	4
**Math 327Q Differential Equations	4
**Math 387Q Algebraic Structures	4
**Math 424Q Advanced Calculus	4
Three additional Math courses above 300, except 315Q and 318Q	9-12

Math 496 Mathematics Senior Seminar	3	
<b>Subtotal</b>	<b>Specific Departmental Requirements</b>	<b>48-51</b>
<u>Auxiliary Department Requirements:</u>		
CSIS 106 Introduction to Programming in Visual Basic		
OR		
CSIS 110 Introduction to Programming (Java)	4	
<b>Subtotal</b>	<b>Auxiliary Requirements</b>	<b>4</b>
<b>Free Electives</b>	<b>15-29</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.*

## Mathematics Minor

### REQUIREMENTS FOR A MINOR IN MATHEMATICS:

#### 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 REQUIREMENTS FOR MATHEMATICS MINOR 18-20**

## Modern Languages

ML 100	Fund of Navajo Language	3
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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. This course is the same as SW 100; credit will only be given for one of these courses. (3-0)

<b>ML 101</b>	<b>Navajo Language II</b>	<b>3</b>
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Continuation of Navajo I. Whereas Navajo I emphasized speaking, this course will center on reading and writing the Navajo language. This course is the same as SW 101; credit will only be given for one of these courses. (3-0)

**Prerequisite:** ML 100 OR SW 100

<b>ML 109</b>	<b>Introductory Latin I</b>	<b>4</b>
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An introduction to the Latin Language. (4-0)

<b>ML 110</b>	<b>Introductory Latin II</b>	<b>4</b>
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Continuation of ML 109. (4-0)

**Prerequisite:** ML 109

<b>ML 115</b>	<b>Elementary Spanish I</b>	<b>4</b>
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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. (4-0)

ML 116	Elementary Spanish II	4
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Continuation of ML 115. (4-0)

**Prerequisite:** ML 115 OR Placement into ML 116

## ML 118R Spanish of the Southwest 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. (4-0)

ML 123	Elementary German I	4
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A course in grammar, pronunciation, reading, and conversation. (4-0)

## ML 124 Elementary German II 4

Continuation of ML 123. (4-0)

**Prerequisite:** ML 123 OR Placement into ML 124

## ML 128 Conversation I - German 1

Instruction in everyday conversation. Optional. (1-0)

**Prerequisite:** ML 123

## ML 129 Conversation II - German 1

Continuation of ML 128. Optional. (1-0)

**Prerequisite:** ML 124

<b>ML 130</b>	<b>Beginning Mexican Readings</b>	<b>4</b>
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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. (4-0)

ML 135	Introductory Japanese I	4
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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. (4-0)

<b>ML 136</b>	<b>Introductory Japanese II</b>	<b>4</b>
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Continuation of ML 135 with emphasis on grammar, reading, writing, and speaking. (4-0)

**Prerequisite:** ML 135

<b>ML 147</b>	<b>Elementary French I</b>	<b>4</b>
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A course in grammar, prose composition, reading and conversation. (4-0)

<b>ML 148</b>	<b>Elementary French II</b>	<b>4</b>
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Further study of French with emphasis on reading, composition, and conversation. (4-0)

**Prerequisite:** ML 147 OR Placement into ML 148

<b>ML 215</b>	<b>Intermediate Spanish I</b>	<b>4</b>
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A course in second-year Spanish with emphasis on grammar review, reading, and conversation. (4-0)

**Prerequisite:** ML 116 OR Placement into ML 215

<b>ML 216R</b>	<b>Intermediate Spanish II</b>	<b>4</b>
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Continuation of ML 215, with greater emphasis on reading and writing. (4-0)

**Prerequisite:** ML 215 OR Placement into ML 216

<b>ML 219</b>	<b>Interm Spanish Conversation</b>	<b>4</b>
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Students will engage in practical every day situations, as well as discussions on current issues and events through interaction. (4-0)

**Prerequisite:** ML 215 OR ML 216

ML 223	Intermediate German I	3
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Second-year German with emphasis on reading, composition, and conversation. (3-0)

**Prerequisite:** ML 124 OR Placement into ML 223

<b>ML 224R</b>	<b>Intermediate German II</b>	<b>3</b>
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Study of German as a multicultural society. Continuation of ML 223. (3-0)

**Prerequisite:** ML 223 OR Placement into ML 224

<b>ML 235</b>	<b>Intermediate Japanese I</b>	<b>4</b>
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Second-year Japanese with emphasis on grammar, composition, reading, listening, speaking, and writing in Hiragana, Katakana, and Kanji. (4-0)

**Prerequisite:** ML 136

<b>ML 236</b>	<b>Intermediate Japanese II</b>	<b>4</b>
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Continuation of ML 235 with greater emphasis on grammar composition, reading, listening, and speaking.  
(4-0)

**Prerequisite:** ML 235

<b>ML 247</b>	<b>Intermediate French I</b>	<b>3</b>
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**Prerequisite:** ML 247 OR Placement into ML 248

**Prerequisite:** ML 248

**Prerequisite:** ML 248

**Prerequisite:** ML 248

**Prerequisite:** ML 248

**Prerequisite:** ML 301

This course will teach Spanish by studying the Spanish language and the 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. (4-0)

**Prerequisite:** ML 216 OR ML 219

**Prerequisites:** ML 216 AND ML 319

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. (4-0)

**ML 331 Chicano Literature 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. (4-0)

**Prerequisite:** ML 216

**ML 332 German Culture 3**

This 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. (3-0)

**ML 333 Adv German Comp and Conversatn 3**

Emphasis on advanced reading and conversation as well as on grammar and composition. (3-0)

**Prerequisite:** ML 224

**ML 334 Topics In German Literature 3**

Topics will vary; may be repeated under a different topic. (3-0)

**Prerequisite:** ML 224

**ML 335 Seminar In German 3**

Advanced reading and research in selected areas of German Studies. (3-0)

**Prerequisite:** ML 224

**ML 336 Survey Of Spanish Lit 4**

A survey of Spanish Peninsular literature from the 10<sup>th</sup> century to the present. (4-0)

**Prerequisites:** ML 319 AND ML 320

**ML 337 Survey Spanish American Lit 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. (4-0)

**Prerequisites:** ML 319 AND ML 320

**ML 345 Hispanic Cult & Civ I: Spain 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. (4-0)

**Prerequisite:** ML 216

**ML 346 Hisp Cult & Civ II: Latin Amer 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. (4-0)

**Prerequisites:** ML 319 AND ML 320

**ML 350 Spanish for the Professions 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. (4-0)

**Prerequisite:** ML 215 AND ML 216

**ML 405 Seminar in French 3**

Advanced reading and research in selected areas of French Studies. (3-0)

**Prerequisite:** ML 247 OR ML 248

**ML 426      20th Cen Hispanic Literature      4**

A course on contemporary Hispanic authors. (4-0)

**Prerequisite:** ML 320

**ML 496      Senior Seminar In Spanish      4**

Advanced study and research in selected topics. (4-0)

**Prerequisite:** ML 320



# Modern Languages

Department Chair - Ingrid W. Ryan

Professors - Lourdes M. Carrasco, James Fitzgerald (jointly with Sociology/Human Services), and Ingrid W. Ryan;

Instructor - Kathleen Aguilar;

Visiting Instructors - Isabelle Pertant, Ellen Hartsfield.

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.

### **General Education**

**39-50**

See pages 56-59 for General Education requirements.

\*\* 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	
	<i>and</i>		
ML 345	Hispanic Culture and Civilization I: Spain		4
	OR		
ML 337	Survey of Spanish American Literature		
	<i>and</i>		
ML 346	Hispanic Culture and Civilization II: Latin America		
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

**Total** **40**

**Free Electives (variable)**

**TOTAL REQUIRED FOR GRADUATION** **120**

## Music

<b>MU 101R</b>	<b>The Musical Experience</b>	<b>3</b>
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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. (3-0)

<b>MU 102R</b>	<b>Blues/Jazz/Rock</b>	<b>3</b>
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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 culture heritage. The format of the course is to survey varied examples of popular music while investigating the circumstances surrounding the performers and their composers. The course is intended to develop those aural skills that can provide a basis for critical and intelligent listening. (3-0)

**MU 103 Instrumental, Vocal, and Piano Class Instruction (Piano, Voice, Brass, Woodwinds, Percussion, Strings) 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. Consent of instructor required. (0-2)

<b>MU 104</b>	<b>Piano Class Instruction II</b>	<b>1</b>
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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 A or B satisfies part II of the Piano Proficiency Requirement. Piano class instruction includes group activities and individual instruction. Consent of instructor required. (0-2)

MU 105	Concert Choir	1
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Through study and performance each trimester of larger choral compositions. Open to all students. Course is repeatable. (0-3)

MU 106	Chamber Choir	1
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An ensemble specializing in the performance of small scale choral works. By audition only. Course is repeatable. Consent of instructor and enrollment in concert choir required. (0-2)

<b>MU 107</b>	<b>Special Choirs</b>	<b>1</b>
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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 functions and receive 1 credit during any one term. Open to all students. Course is repeatable. (0-2)

<b>MU 108</b>	<b>Intro to Guitar Instruction</b>	<b>2</b>
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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 (including major, minor, and pentatonic) and some arranging techniques. We will work to read, practice, arrange and play/perform music. (1-3)

**MU 109, 209, 309, 409 Applied Music (Piano, Voice, Brass, Woodwinds, Percussion, Strings) 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. (0-4)

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. Consent of instructor and enrollment in band required. (0-3)

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. Consent of instructor and enrollment in band required. (0-3)

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. Consent of instructor and enrollment in symphony orchestra required. (0-3)

A course designed to provide ensemble and accompanying experience for piano students. Consent of piano instructor required. (0-3)

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. Consent of instructor. (0-3)

A survey, through performance, of the literature written for this medium. Course is repeatable. Consent of instructor and enrollment in band required. (0-3)

A survey, through performance, of the literature written for this medium. Course is repeatable. Consent of instructor and enrollment in band required. (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. (3-0)

The introduction to jazz improvisation course will focus on scale, melody, and chord studies and how they

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 minors only. Others must have consent of instructor. (5-0)

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, fuge, and sonata-allegro. Open to music majors and minors only. Others must have consent of instructor. (5-0)

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 A or B satisfies Part III of the Piano Proficiency Requirement. Piano class instruction includes group activities and individual instruction. (0-3)

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: Sonata, Op. 36 #1; Bach: Two Part Inventions, all scales, arpeggios, and cadences. Successful completion with at grade A or B satisfies Part IV of the Piano Proficiency Requirement. Piano class instruction includes group activities and individual instruction. (0-3)

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. (5-0)

Exploration of 20th century theoretical and compositional techniques. Examples will include derivatives from the end of the 19th century, nationalist influences, and serial and aleatoric music, extended techniques, and electronic music. Open to music majors and minors only. Other must have consent of instructor. (5-0)

A survey, through performance, of the literature for vocal ensemble. Course is repeatable. Consent of instructor and enrollment in Concert Choir required. (0-2)

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. (0-3)

<b>MU 306</b>	<b>Chamber Choir</b>	<b>1</b>
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Designed to provide every student who plays an 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. (0-4)

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. Consent of instructor and enrollment in band required. (0-3)

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. Consent of instructor and enrollment in band required. (0-3)

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. Consent of instructor and enrollment in symphony orchestra required. (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. (3-0)

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. (3-0)

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. Open to non-majors by instructor permission. (3-0)

Offered in conjunction with the San Juan Symphony 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. Consent of instructor. (0-3)

**MU 318 Percussion Ensemble 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. Consent of instructor and enrollment in band required. (0-3)

**MU 319 Jazz Ensemble 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. Consent of instructor and enrollment in band required. (0-3)

**MU 320 Mallet Ensemble 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. Consent of instructor and enrollment in band or choir required. (0-3)

**Prerequisite:** MU 105 OR MU 110

**MU 323 Advanced Jazz Improvisation 1**

The advanced jazz improvisation course will focus on scale and chord studies and how they relate to a number of jazz standards. The class will listen and transcribe solos of famous artists to develop the language and facility, while increasing the student's understanding of jazz and its history. Knowledge of major, minor, and dominant scales is required. Repeatable once for credit.

**MU 324 Baroque Ensemble 1**

A survey, through performance, of music written during the 17th and 18th centuries. Baroque performance practices will be studied through the performance of both instrumental and vocal repertoire. Special attention will be given to literature, style, ornamentation, improvisation, and basso continuo. Repeatable for credit.

**MU 331 Music History I 3**

Study of the history of music from classical antiquity to 1750. (3-0)

**MU 332 Music History II 3**

Study of the history of music from 1740 through the 20<sup>th</sup> century. (3-0)

**MU 337 Survey Of Non-Western Music 3**

This course is designed to acquaint students with the vast amount of music from non-western cultures. Topics include the music of Africa, India, China, Japan, Southeast Asia, South America and the American Indians. Open to all students.

**MU 349 Conducting I 2**

A course in basic instrumental and choral conducting including baton technique, score reading, and various cueing and rhythmic aspects concerned with ensemble control. Piano proficiency requirement. (3-0)

**Prerequisite:** MU 129

**MU 350 Conducting II 2**

Continuation of Conducting I. Conducting techniques in addition to directing larger musical scores and advanced techniques. (3-0)

**Prerequisite:** MU 349

MU 423	Orchestration	1
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**Prerequisite:** MU 229

<b>MU 496</b>	<b>Senior Seminar</b>	<b>2</b>
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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. (2-0)



# Music

Department Chair - Rochelle Mann

Professors - Linda S. Mack, and Rochelle G. Mann;

Associate Professors - John C. Pennington,

Katherine D. Jetter Tischhauser and Mark A. Walters;

Assistant Professors - Timothy P. Farrell, and Lisa Campi.

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.

All students majoring in music will be required to pass an entrance audition and theory placement exam.

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. Mu 123/323 can be repeated one time for credit. A maximum of 16 credits in a single applied music area is allowable toward graduation. Mu 107 is repeatable with limits.

## 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, page 20.) 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:

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

**Total Common Requirements** **33**

**General Music Studies :**

**General Education** **39-50**

See pages 56-59 for General Education requirements.

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

**Common Requirements (listed above)** **33**

Special Departmental Requirements:

Music Literature/Concert Attendance	0
Major Ensemble	8
Applied Music	8

**Subtotal** **16**

Writing Course Within Discipline:

Mu 415W Literature and Conversation: Writing About Music 3

**Total** **52**

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.

**General Music Studies Suggested Course Sequence****Semester 1 (Fall)**

MU128 Theory/Musicianship I	5
MU109 Applied Music	1
MU105 or 110 or 117 Ensemble	1
Concert Attendance	0
Comp 150	4
Lib 150	1
ES 100	1
TS 1 – Group N or T	3-4
MU103A Piano I (if needed)	1

**Semester 2 (Winter)**

MU129 Theory/Musicianship II	5
MU109 Applied Music	1
MU105 or 110 or 117 Ensemble	1
Concert Attendance	0
TS 1 Group N or T w/lab	3-4
TS 1 Group Q	3
PE ACT	1
MU104A Piano II (if needed)	1

**Semester Three (Fall)**

MU228 Theory/Musicianship III	5
MU209 Applied Music	1
MU105 or 110 or 117 Ensemble	1
Concert Attendance	0
TS 1 Group R or S	3-4
MU203A Piano III (if needed)	1
PE ACT	1

**Semester Four (Winter)**

MU229 Theory/Musicianship IV	5
MU209 Applied Music	1
MU105 or 110 or 117 Ensemble	1
Concert Attendance	0
TS 1 Group R or S	3-4
MU204A Piano IV (if needed)	1
Electives	

**Semester Five (Fall)**

MU309 Applied Music	1
MU305 or 310 or 317 Ensemble	1
Concert Attendance	0
TS 2 Group N, T, R or S	3-4
TS 2 Group N, T, R or S	3-4
MU349 Conducting I <u>or</u>	2
MU331 Music History I	3
Upper Division Electives	

**Semester Six (Winter)**

MU309 Applied Music	1
MU305 or 310 or 317 Ensemble	1
Concert Attendance	0
MU350 Conducting II <u>or</u>	2
MU332 Music History II	3
MU415W Writing About Music	3
Upper Division Electives	
TS 2 Group N, T, R or S	3-4

**Semester Seven (Fall)****Semester Eight (Winter)**

MU409 Applied Music	1	MU409 Applied Music	1
MU305 or 310 or 317 Ensemble	1	MU305 or 310 or 317 Ensemble	1
Concert Attendance	0	Concert Attendance	0
MU349 Conducting I <u>or</u>	2	MU349 Conducting II <u>or</u>	2
MU331 Music History I	3	MU332 Music History II	3
TS 2 Group N, T, R or S	3-4	MU496 Senior Seminar(Recital)	2
MU423 Orchestration	1	Upper Division Electives	
Upper Division Electives			

Music Performance :

General Education 39-50  
See pages 56-59 for General Education requirements.

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

Common Requirements (listed above) 33

<u>Special Departmental Requirements:</u>	
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 Performance Suggested Course Sequence

Semester 1 (Fall)		Semester 2 (Winter)	
MU128 Theory/Musicianship I	5	MU129 Theory/Musicianship II	5
MU109 Applied Music	2	MU109 Applied Music	2
MU105 or 110 or 117 Ensemble	1	MU105 or 110 or 117 Ensemble	1
Concert Attendance	0	Concert Attendance	0
Comp 150	4	TS 1 Group N or T w/lab	3-4
Lib 150	1	TS 1 Group Q	3
ES 100	1	PE ACT	1
TS 1 – Group N or T	3-4	MU104A Piano II (if needed)	1
MU 103 Piano I (if needed)	1	Vocal Diction- Voice Majors only	

Semester Three (Fall)

Semester Four (Winter)

MU228 Theory/Musicianship III	5	MU229 Theory/Musicianship IV	5
MU209 Applied Music	2	MU209 Applied Music	2
MU105 or 110 or 117 Ensemble	1	MU105 or 110 or 117 Ensemble	1
Concert Attendance	0	Concert Attendance	0
TS 1 Group R or S	3-4	TS 1 Group R or S	3-4
MU203A Piano III (if needed)	1	MU204A Piano IV (if needed)	1
PE ACT	1	Electives	

**Semester Five (Fall)**

MU309 Applied Music	2
MU305 or 310 or 317 Ensemble	1
Concert Attendance	0
TS 2 Group N, T, R or S	3-4
TS 2 Group N, T, R or S	3-4
MU349 Conducting I <u>or</u>	2
MU331 Music History I	3
ML Modern Language	

**Semester Six (Winter)**

MU309 Applied Music	2
MU305 or 310 or 317 Ensemble	1
Concert Attendance	0
MU350 Conducting II <u>or</u>	2
MU332 Music History II	3
MU415W Writing About Music	3
Junior Recital	0
TS 2 Group N, T, R or S	3-4
ML Modern Language	

**Semester Seven (Fall)**

MU409 Applied Music	2
MU305 or 310 or 317 Ensemble	1
Concert Attendance	0
MU349 Conducting I <u>or</u>	2
MU331 Music History I	3
MU423 Orchestration	1
TS 2 Group N, T, R or S	3-4
ML Modern Language	
Upper Division Electives	

**Semester Eight (Winter)**

MU409 Applied Music	1
MU305 or 310 or 317 Ensemble	1
Concert Attendance	0
MU349 Conducting II <u>or</u>	2
MU332 Music History II	3
MU496 Senior Seminar(Recital)	2
Upper Division Electives	

## 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****39-50**

See pages 56-59 for General Education requirements.

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

**Common Requirements (listed above)****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
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Mu 316	Music in the Elementary School	3
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<b>Subtotal</b>	<b>14</b>
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Special Departmental Requirements:

Music Literature/Concert Attendance	0
Major Ensemble	7
Applied Music	7

<b>Subtotal</b>	<b>14</b>
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Writing Course Within Discipline:

Mu 415W Literature and Conversation: Writing About Music	3
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<b>Total</b>	<b>64</b>
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Additional Requirements:

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 200R 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	15
(7 credits Ed 494-Elementary/8 credits Ed 495-Secondary)	

<b>Subtotal</b>	<b>29</b>
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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>120</b>
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**Music Education Suggested Course Sequence**

<b>Semester 1 (Fall)</b>		<b>Semester 2 (Winter)</b>	
MU128 Theory/Musicianship I	5	MU129 Theory/Musicianship II	5
MU109 Applied Music	1	MU109 Applied Music	1
MU105 or 110 or 117 Ensemble	1	MU105 or 110 or 117 Ensemble	1
Concert Attendance	0	Concert Attendance	0
Comp 150	4	MU103 B,C,D,E or F	1
Lib 150	1	TS 1 Group N or T w/lab	3-4
ES 100	1	TS 1 Group Q	3
TS 1 – Group N or T	3-4	PE ACT	1
MU103A Piano I (if needed)	1	MU104A Piano II (if needed)	1
<b>Semester Three (Fall)</b>		<b>Semester Four (Winter)</b>	
<b>Apply to Teacher Ed Program</b>		MU229 Theory/Musicianship IV	5
MU228 Theory/Musicianship III		MU209 Applied Music	1
MU209 Applied Music	5	MU105 or 110 or 117 Ensemble	1
MU105 or 110 or 117 Ensemble	1	Concert Attendance	0
Concert Attendance	1	TS 1 Ed 210S	4
TS 1 Ed 200R	0	MU350 Conducting II <u>or</u>	2
MU349 Conducting I <u>or</u>	4	MU332 Music History II	3
MU331 Music History I	2	MU103 B, C, D, E or F	1
MU103 B, C, D, E or F	3	MU204A Piano IV (if needed)	1
MU203A Piano III (if needed)	1		
PE ACT	1		
	1		

**Semester Five (Fall)**

MU309 Applied Music	1
MU305 or 310 or 317 Ensemble	1
Concert Attendance	0
TS 2 Group N, T, R or S	3-4
MU349 Conducting I <u>or</u>	2
MU331 Music History I	3
MU314 Choral Methods <u>or</u>	3
MU315 Instrumental Methods	3
MU103 B, C, D, E or F	1
MU423 Orchestration- if offered	1

**Semester Six (Winter)**

MU309 Applied Music	1
MU305 or 310 or 317 Ensemble	1
Concert Attendance	0
MU350 Conducting II <u>or</u>	2
MU332 Music History II	3
MU103 B, C, D, E or F	1
MU316 Music in the	
Elementary	3
School	3
MU415W Writing About Music	3-4
TS 2 Group N, T, R or S	3-4
TS 2 Group N, T, R or S	

**Semester Seven (Fall)****Take P.L.A.C.E Exam**

MU409 Applied Music	1
MU305 or 310 or 317 Ensemble	1
Concert Attendance	0
MU314 Choral Methods <u>or</u>	3
MU315 Instrumental Methods	3
MU423 Orchestration	1
MU496 Senior Seminar(Recital)	2
TS 2 Group N, T, R or S	3-4
Ed 421 Individ. Instruction in a	
Pluralistic Society	6

**Semester Eight (Winter)**

Ed 494 and Ed 495 Student	15
Teaching	

## Music Minor

**REQUIREMENTS FOR A MINOR IN MUSIC :**

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 or Mu 332 Music History II		3
3. Three years of Applied Music, Mu 109, 209, and 309

Interested students should consult with their applied professor or the department chair.

# Philosophy

## **PHIL 141S Introduction To Philosophy 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 proving that God exists, the nature and origin of morality and beauty, and the relation of knowledge to experience. (4-0)

## **PHIL 151 Film and Philosophy 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 the 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. (4-0)

## **PHIL 244R Chinese Philosophy 3**

A study of Confucianism, Taoism, and Buddhism, with consideration of some dissenting views of 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. (3-0)

**Prerequisites:** (COMP 150 OR COMP 250 OR COMP 126 )  
AND (LIB 150 OR LIB 150 equivalent)

## **PHIL 251S Moral Philosophy 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. (4-0)

## **PHIL 252N Environmental Ethics 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 conversation, and finally attempts to envision a philosophy of nature based on "land ethic." (4-0)

## **PHIL 261R Philosophy Of Religion 4**

An examination of different philosophical approaches to problems raised by religion. Reading are selected from sources representing widely differing points of view, e.g., those of phenomenology, feminism, and liberation theology. This course is the same as RS 261; credit will be given for only one of these courses. (4-0)

## **PHIL 264 Social & Political Philosophy 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. This course is the same as PS 264; Credit will be given for only one of these courses. (4-0)

## **PHIL 271 Logic 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 inductive logic. (4-0)



**PHIL 274R Ancient/Medieval Philosophy 4**

An examination of the history and 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. (4-0)

**PHIL 281 Theory of Knowledge 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 of merely a culturally constructed conception of reality? Traditional and current answers to these and related questions are scrutinized. (4-0)

**PHIL 297RS Tibetan Buddhism: Philosophy and Situation 6**

This course is designed to investigate the history, cosmology and politics of Tibetan Buddhism through reading, 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 see and live the world in exile and in their historical homeland. This course is the same as PS 297 and RS 297; credit will be given for only one of these courses. Consent of instructor. (0-15)

**PHIL 305W Writing Philosophy 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 analysis of, and responses to, these readings, and presenting and defending a position on this topic in a carefully researched term paper. (4-0)

**Prerequisites:** (COMP 150 OR COMP 126 OR COMP 250 )  
AND (LIB 150 OR LIB 150 equivalent)

**PHIL 320 Indigenous Worldviews 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. This course is the same as RS 320; credit will be given for only one of these courses. (4-0)

**PHIL 321 World Religions 4**

A study of the nature and history of the major contemporary religions of the world. This course is the same as RS 321; credit will be given for only one of these courses. (4-0)

**PHIL 328 Philosophy Of Science 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. Consent of instructor. (4-0)

**PHIL 352 Ecology & Morality 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. Consent of instructor. (4-0)

**Prerequisite:** PHIL 252

**PHIL 361    Philosophy Of Art** **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 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. (4-0)

## PHIL 363    Philosophy Of History &amp; Culture    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. Consent of instructor. (4-0)

## PHIL 365    Philosophy &amp; Feminism    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. Consent of instructor. (4-0)

**Prerequisites:** (COMP 150 OR COMP 250 OR COMP 126 )  
AND (LIB 150 OR LIB 150 equivalent)

## PHIL 377 Contemporary European Philosophy 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. Consent of instructor. (4-0)

PHIL 379 Modern Philosophy: 17<sup>th</sup> & 18<sup>th</sup> Centuries 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. Consent of instructor. (4-0)

## PHIL 380 19th Century Philosophy 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. (4-0)

**Prerequisite:** PHIL 274 OR PHIL 379

## PHIL 381     Metaphysics                      4

An examination of traditional and contemporary attempts to understand the nature of reality. Consent of instructor. (4-0)

## PHIL 382 Philosophies of the Southwest 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. (3-0)

Advanced study and research in selected topics. Consent of instructor. (4-0)

# Philosophy

Department Chair - Dugald Owen

Professor - Reyes R. Garcia;

Associate Professor - Dugald L. Owen;

Assistant Professors - Sean E. Cridland and 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:

### General Education

**39-50**

See pages 56-59 for General Education requirements.

\*\* 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

### Subtotal

### Major Requirements

**28**

### Other Departmental Requirements:

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.

### Subtotal Other Departmental Requirements

**6-8**

### Total Departmental Requirements

**34-36**

### Auxiliary Requirements from Other Departments:

Two trimesters of one modern language 6-8

### 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.*

## Philosophy Minor

### REQUIREMENTS FOR A MINOR IN PHILOSOPHY :

**Phil 141S	Introduction to Philosophy	4
	OR	
**Phil 274R	Ancient and Medieval Philosphy	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

<b>TOTAL REQUIREMENTS FOR PHILOSOPHY MINOR</b>	<b>20</b>
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# Physics

Department Chair - Don May

Professor - Gerald Crawford;

Associate Professors - Martha S. Iverson and Ashley Shultz.

Assistant Professor - Craig Tyler

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:

### Physics Option :

#### General Education

**39-50**

See pages 56-59 for General Education requirements.

\*\* 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

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 39-50**

See pages 56-59 for General Education requirements.

\*\* 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
OR	
Engr 221 Dynamics	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 420 Introductory Quantum Mechanics I	3
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<b>Subtotal</b>	<b>Specific Departmental Requirements</b>	<b>28</b>
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Specific Departmental Requirements in Engineering:

Engr 104 Computer Programming for Scientists and Engineers	3
Engr 105 Engineering Principles and Design	3
Engr 405 Engineering Design and Practice	3
Engr 496 Senior Seminar-Design	2
An additional 16 credits of engineering courses at 200-level or higher	16

<b>Subtotal</b>	<b>Specific Departmental Engineering Requirements</b>	<b>27</b>
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Auxiliary Requirements:

Chem 150 Fundamentals of Chemistry I	4
**Math 221Q, 222Q, 223Q Calculus I, II, III	12
**Math 327Q Differential Equations	4

<b>Subtotal</b>	<b>Auxiliary Requirements</b>	<b>20</b>
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<b>Major Totals</b>	<b>75</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.*

## Physical Science For Secondary Teachers Option :

<b>General Education</b>	<b>39-50</b>
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See pages 56-59 for General Education requirements.

\*\* 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

<b>Subtotal</b>	<b>Specific Departmental Requirements</b>	<b>31</b>
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Auxiliary Requirements:

**Math 221Q Calculus I	4
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**Math 222Q	Calculus II	4	
**Bio 112N	Introduction to Org/Ev Bio	4	
Chem 150	Fundamentals of Chemistry I		4
**Chem 151Tx	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</b>	<b>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.*

## Physics Minor

### 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 REQUIRED FOR PHYSICS MINOR</b>	<b>20-21</b>	

# Physics

**PHYS 201 Physics - Non Calculus I 4**

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 217 Tx will not receive credit toward graduation for Phys 201. This course includes an introductory physics laboratory with experiments in mechanics, heat and sound. (3-2)

<b>PHYS 202</b>	<b>Physics - Non Calculus II</b>	<b>4</b>
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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. (3-2)

**Prerequisite:** PHYS 201

<b>PHYS 217Tx</b>	<b>Physics - Science &amp; Engr I</b>	<b>5</b>
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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. (4-2)

**Prerequisite:** MATH 221

## PHYS 218 Physics - Science &amp; Engr II 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. (4-2)

**Prerequisites:** PHYS 217 AND MATH 222

**PHYS 301 Introduction To Electronics 3**

A survey course of the theory and design of various electronic circuits and devices used in scientific instrumentation. (2-2)

**Prerequisite:** PHYS 218

**PHYS 320 Modern Physics 3**

A study in the modern theories of atomic, nuclear and particle physics that have developed since 1900. An introduction to special relativity and elementary quantum mechanics is included. (3-0)

**Prerequisites:** MATH 222 AND (PHYS 202 OR PHYS 218 )

PHYS 340	Optics	4
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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. (3-3)

**Prerequisites:** MATH 222 AND (PHYS 202 OR PHYS 218 )

**PHYS 354 Theoretical Mechanics 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. (3-0)

**Prerequisites:** MATH 223 AND (PHYS 202 OR PHYS 218 )

**PHYS 361 Principles of Electricity & Magnetism 4**

The mathematical theory of static electric and magnetic fields, time-dependent fields and electromagnetic radiation. (4-0)

**Prerequisites:** (PHYS 202 OR PHYS 218 ) AND MATH 327

**PHYS 370 Heat And Thermodynamics 3**

A study of classical thermodynamics which includes the first and second laws of thermodynamics and their application in energy conversion. (3-0)

**Prerequisites:** MATH 223 AND (PHYS 201 OR PHYS 217 )

**PHYS 380 Advanced Physics Laboratory I 1**

Work will stress experiments in modern physics with emphasis on electronic instrumentation and subsequent data analysis. (0-3)

**Prerequisite:** PHYS 320

**PHYS 381 Advanced Physics Laboratory II 1**

Work will stress experiments in electricity and magnetism with emphasis on data collection and analysis. (0-3)

**Prerequisite:** PHYS 320

**PHYS 397W Writing Techniques in Physics 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. (3-0)

**PHYS 400 Science And Human Values 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. (2-0)

**PHYS 420 Quantum Mechanics I 3**

An introduction to Schrodinger's formulation of wave mechanics including potential wells, harmonic oscillators and energy momentum operators. (3-0)

**Prerequisites:** MATH 223 AND (PHYS 202 OR PHYS 218 )

**PHYS 421 Quantum Mechanics II 3**

A continuation of the study of quantum systems via approximation techniques, theory of many electron atoms, identical particles and spin. (3-0)

**Prerequisite:** 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.

**PHYS 496 Senior Seminar 2**

Advanced study and research in selected topics. Consent of instructor. (2-0)

## Political Science

<b>PS 101S</b>	<b>Intro To Political Science</b>	<b>4</b>
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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. (4-0)

PS 110S	U S National Government	4
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A study of the policies, procedures, politics and problems of the U.S. national government. (4-0)

PS 120S	State And Local Government	4
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A study of the history, nature, organization and operation of state and local government in the United States. (4-0)

<b>PS 140</b>	<b>Intro Law &amp; Legal Systems</b>	<b>4</b>
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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. (4-0)

<b>PS 205N</b>	<b>Environmental Politics</b>	<b>3</b>
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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. (3-0)

<b>PS 241</b>	<b>Intro To Criminal Justice Systems</b>	<b>4</b>
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The nature of crime, the role of police, attorneys, courts and corrections in our criminal justice system. (4-0)

PS 250W	Intro To Political Analysis	4
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Analysis of contemporary behavioral theories and research methods of politics and preparation for critical reading of professional literature. Writing intensive course. (4-0)

**Prerequisites:** PS 101 AND (COMP 150 OR COMP 126 OR COMP 250 ) AND (LIB 150 OR equivalent)

PS 251W	Advanced Research Methods	4
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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. (4-0)

**Prerequisite:** PS 250

<b>PS 280S</b>	<b>Intro To Comparative Politics</b>	<b>4</b>
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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. (4-0)

## PS 297RS Tibetan Buddhism:Philosophy and Situation 6

This course is designed to investigate the history, cosmology and politics of Tibetan Buddhism through reading, 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 see and live the world in exile and in their historical homeland. This course is the same as RS 297 and PHIL 297; credit will be given for

only one of these courses. Consent of instructor. (0-15)

**PS 300 Religion And Politics 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. (4-0)

**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.

**Prerequisite:** PS 101 OR PS 110 OR PS 120 OR PS 241  
OR PS 310 OR PS 330

**PS 310 American Political Behavior 4**

An empirical inquiry into the dynamics of political activity in the United States, with emphasis on the electorate and roles of political parties, the news media, public opinion and political interest groups. (4-0)

**PS 320 International Politics 4**

An examination of the international struggle for power, with special emphasis on nationalism, economic objectives, armaments, multinational corporations and North-South issues. (4-0)

**Prerequisite:** PS 101

**PS 322 International Political Economics 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. (4-0)

**PS 325 Middle East Politics 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. (4-0)

**PS 330 Public Administration 4**

Role of administration in government policymaking and implementation. Course uses case study method from a variety of policy areas. (4-0)

**PS 337 U. S. Foreign Policy 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. (4-0)

**PS 340 Constitution Law: Bill Of Rights 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. (4-0)

**PS 341 Constitutional Law: Federalism and the Separation of Powers 4**

Powers and limitations of the national judiciary, Congress and the presidency. Course also addresses the relationship between the national government and state governments. (4-0)

**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.

**Prerequisites:** PS 101 AND PS 110 AND PS 120 AND PS 310

**PS 360      Revolution & The Modern World      3**

Analyzes the origins, tactics, ideologies and results of leftist, bourgeois and rightist revolutionary movements, stressing a comparative and historical approach. (3-0)

**PS 365      Women and Development      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. This course is the same as WS 365; credit will be given for only one of these courses. (3-0)

**PS 370      Latin-American Politics      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. (4-0)

**PS 372      African Politics & Development      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. (4-0)

**PS 374      Pacific Rim Politics & Issues      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 is recommended. (4-0)

**PS 380      Comparative Communist Systems      4**

A comparative study of the dynamics of communist systems focuses on the Soviet Union and Peoples'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. (4-0)

**PS 385      Twentieth-Century Socialism      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. (3-0)

**PS 386      Ancient Political Thought      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. (4-0)

**Prerequisite:** PS 101

**PS 387      Modern Political Thought      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. (4-0)

**Prerequisite:** PS 386

**PS 400 Native American Law & Politics 4**

A study of political and legal issues that involve American Indians, both from a historical and contemporary perspective. (4-0)

**PS 421 The American Presidency 4**

Study of the American presidency, including historical development and current structure, organization, behavior, processes and policy implications; examination of executive bureaucracy. (4-0)

**PS 422 Legislative Process 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. (4-0)

**PS 423 Nature of Law /Judicial Process 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. (4-0)

**PS 425 Prisons and Prisoners 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. (4-0)

**Prerequisite:** PS 241

**PS 437 Contemporary National Security Strategy and Policy 4**

An examination of the domestic and international contexts in which national security is developed, the relevant organizations and decision-making process, and the actual formulation and implementation of national security strategy and policy. (4-0)

**Prerequisite:** PS 337

**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.

**Prerequisites:** PS 101 AND PS 110 AND PS 422

**PS 480W Contemporary Political Thought 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 280; credit will be given for only one of these courses. (4-0)

**PS 495 Proseminar Political Science 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.(2-0)

**Prerequisite:** PS 251

**PS 496 Senior Seminar 2**

Advanced study and research in selected topics. (2-0)

**Prerequisites:** PS 495 AND PS 251





# Political Science

Department Chair - Dugald Owen

Professor - Byron Dare;

Associate Professors - Kenyon D. Bunch and  
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.

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:

### General Education

**39-50**

See pages 56-59 for General Education requirements.

\*\* 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
	<i>and</i>	
PS 496	Senior Seminar	2
	OR	

### Option B:

PS 480W	Contemporary Political Thought	4
	<i>and</i>	
PS 495	Pro-Seminar in Political Science	2
	OR	

### Option C:

PS 499	Independent Study	
	(exceptional circumstances)	2
	<i>and</i>	
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
PS 437	Contemporary National Security	
Strategy and Policy		4

### **II. Public Law**

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 423	Law and the Judicial Process	4
PS 425	Prisons and Prisoners	4

### **III. Comparative Politics and International Relations**

**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

### **IV. Theory and Methods**

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	20 <sup>th</sup> -Century Socialism	3
PS 480	Contemporary Political Thought	4

**Subtotal Other Departmental Requirements** **20**

**Total required in major** **48-50**

#### Auxiliary Requirements from Other Departments:

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.*

## Political Science Minor

### 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.

TOTAL REQUIRED FOR POLITICAL SCIENCE MINOR	24
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# Psychology

## **PSYC 110S Human Relations**

**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 systems 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. (3-0)

## **PSYC 157 Introduction To Psychology**

**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. (3-0)

## **PSYC 218 Psychological Foundations of Education 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 lasts 7 weeks (1/2) of the trimester. (2-0)

**Prerequisite:** PSYC 157

## **PSYC 233 Personality**

**4**

This course provides an introduction to the major theories of personality, including psychoanalytical, 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. (4-0)

**Prerequisite:** PSYC 157

## **PSYC 241Q Basic Stats For Psychologists**

**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. (4-0)

**Prerequisite:** (TRS 92 OR MATH 110 or Placement into Math 110)

## **PSYC 254 Life Span Human Development**

**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. (4-0)

**Prerequisite:** PSYC 157 OR PSYC 110

## **PSYC 265S Global Community Psychology**

**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 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. (4-0)

**PSYC 270 Psychology of Gender 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. (4-0)

**Prerequisite:** PSYC 157

**PSYC 296W Psychological Research Methods 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. (3-2)

**Prerequisites:** PSYC 157 AND PSYC 241 AND  
(COMP 150 OR COMP 126 OR COMP 250 )  
AND (LIB 150 OR LIB 150 equivalent)

**PSYC 300 Methods of Inquiry 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. (4-0)

**Prerequisite:** PSYC 296

**PSYC 305 Psychology of Intuition 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. (4-0)

**Prerequisites:** PSYC 157 AND (COMP 150 OR COMP 126  
OR COMP 250 )

**PSYC 310 Psychology of Religion 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 courses. (4-0)

**Prerequisite:** PSYC 110 OR PSYC 157

**PSYC 325 Group Dynamics 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. (4-0)

**PSYC 327 Physiological Psychology 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. (3-2)

**Prerequisite:** PSYC 296

### **PSYC 328 Industrial/Organizational Psychology 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. (4-0)

**Prerequisites:** (COMP 126 OR COMP 250 OR COMP 150 )  
AND PSYC 157

### **PSYC 330 Animal Behavior 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. Instructor permission. (3-2)

**Prerequisite:** PSYC 296

### **PSYC 333 Expressive Arts Therapy In The Community 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. Instructor permission. (2-0)

### **PSYC 340 Creativity 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. Instructor permission.(4-0)

**Prerequisites:** (COMP 150 OR COMP 126 OR COMP 250 )  
AND (LIB 150 OR LIB 150 equivalent)

### **PSYC 342 Psychological Testing 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 common used psychological tests. (4-0)

**Prerequisites:** PSYC 241 AND PSYC 233

### **PSYC 354 Topics in Child Psychology 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 parentings influence various dimensions of infancy, childhood and adolescence. (4-0)

**Prerequisite:** PSYC 254

**PSYC 372    Language, Mind and Brain**

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. (4-0)

**Prerequisite:** PSYC 157

**PSYC 375 Multicultural Psychology 4**

This course will present an overview of multicultural viewpoints in developmental, clinical and research psychology. Predominant western Europe 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. (4-0)

**Prerequisites:** (COMP 150 OR COMP 126 OR COMP 250 )  
AND PSYC 157

<b>PSYC383</b>	<b>History of Psychology</b>	<b>4</b>
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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. (4-0)

**Prerequisite:** PSYC 157

<b>PSYC 386</b>	<b>Psychology of Fatherhood</b>	<b>4</b>
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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. (4-0)

**Prerequisite:** PSYC 241

**PSYC 387 Abnormal Psychology 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. (4-0)

**Prerequisite:** PSYC 233

**PSYC 392 Foundations Of Clinical Psych 4**

The course provides a foundation in the applications of psychological theory and research, toward a variety of intra-psychic, interpersonal and organizational problems in our society. This course does not count for general distribution. (4-0)

**PSYC 393 Health Psychology 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. (4-0)

**Prerequisite:** PSYC 157

**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.  
Instructor permission.

**Prerequisite:** PSYC 387

**PSYC 395 Seminar & Practicum In Clinical Psychology 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. Consent of instructor.(4-0)

**Prerequisites:** PSYC 392 AND PSYC 420

**PSYC 406 Case Studies in Neuropsychology 4**

This course explores the world of cognitive neuropsychology by looking into true stories of individuals who 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. (4-0)

**Prerequisite:** PSYC 157

**PSYC 420 Counseling Skills 4**

This course develops various counseling skills, processes, and abilities in students through academic and applied instruction. Consent of instructor.

**PSYC 425 Social Psychology 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. (4-0)

**Prerequisite:** PSYC 296

**PSYC 426 Sensation And Perception 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. (4-0)

**Prerequisite:** PSYC 157

**PSYC441 Memory, Learning & Cognition 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. (4-0)

**Prerequisite:** PSYC 157

**PSYC 496 Senior Seminar 4**

Advanced study and research in selected topics. Consent of instructor. (4-0)

**Prerequisites:** PSYC 296 AND PSYC 300

**PSYC 498 Thesis 1-6**

Each student will be involved in the development and completion 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 repeated for a maximum of six credit hours. Consent of instructor.

**Prerequisites:** PSYC 296 AND PSYC 300

# Psychology

Department Chair - Michael Anziano

Professors - Beverly R. Chew, Janet L. Jones, and

Thomas A. Skurky;

Associate Professors - Michael C. Anziano, Alane S. Brown,

Betty J. Dorr, Ziarat Hossain, and 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:

### General Education

**39-50**

See pages 56-59 for General Education requirements.

\*\* 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 241Q 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:

**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)

**Winter Freshman Year**

Writing course (finish Comp 125, Comp 150)  
Thematic Studies 1 course  
Psychology Elective  
PE Activity  
(Possible Free Elective)

**Fall Sophomore Year**

Psychology 241Q  
Thematic Studies 1 course  
Psychology Elective  
(Possible Free Elective)

**Winter Sophomore Year**

Psychology 296W  
Thematic Studies 1 course  
Psychology Elective  
(Possible Free Elective)

**Fall Junior Year**

Psychology 300  
Thematic Studies 2 course  
Psychology Elective  
(Possible Free Elective)

**Winter Junior Year**

Thematic Studies 2 course  
Psychology Elective  
(Possible Free Elective)

**Fall Senior Year****Winter Senior Year**

Thematic Studies 2 course  
Psychology Elective  
(Possible Free Elective)

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)

**Winter Freshman Year**

Writing course (finish Comp 125, Comp 150)  
Thematic Studies 1 course  
Psychology Elective  
PE Activity  
(Possible Free Elective)

**Fall Sophomore Year**

Psychology 241Q  
Thematic Studies 1 course  
Psychology Elective (Psy 233)  
(Possible Free Elective)

**Winter Sophomore Year**

Psychology 296W  
Thematic Studies 1 course  
Psychology Elective (Psy 254)  
(Possible Free Elective)

**Summer: Psy 394, Field School in Psychology**

**Fall Junior Year**

Psychology 300  
Thematic Studies 2 course  
Psychology Elective (Psy 342,  
Psy 354, Psy 387, Psy 383)  
(Possible Free Elective)

**Winter Junior Year**

Thematic Studies 2 course  
Psychology Elective (Psy 393, Psy 392,  
Psy 333, Psy 406)  
(Possible Free Elective)

**Fall Senior Year**

Thematic Studies 2 course  
Psychology Elective (Psy 420\*, Psy 375)  
(Possible Free Elective)  
\* Psy 392 is pre-req

**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 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)

**Winter Freshman Year**

Writing course (finish Comp 125, Comp 150)  
Thematic Studies 1 course  
Psychology Elective (Psy 218)  
PE Activity  
(Possible Free Elective)

**Fall Sophomore Year**

**Winter Sophomore Year**

Psychology 241Q

Thematic Studies 1 course

Psychology Elective (Psy 254, Psy 383)  
(Possible Free Elective)

Psychology 296W

Thematic Studies 1 course

Psychology Elective (Psy 270, Psy 372)  
(Possible Free Elective)

**Summer: Psy 394, Field School in Psychology**

**Fall Junior Year**

Psychology 300

Thematic Studies 2 course

Psychology Elective (Psy 340, Psy 342)  
(Possible Free Elective)

**Winter Junior Year**

Thematic Studies 2 course

Psychology Elective (Psy 354, Psy 375)  
(Possible Free Elective)

**Fall Senior Year**

Thematic Studies 2 course

Psychology Elective (Psy 386)  
(Possible Free Elective)

**Winter Senior Year**

Thematic Studies 2 course

Psychology Elective (Psy 441)  
(Possible Free Elective)

Psychology 496 either term

## Psychology Minor

**REQUIREMENTS FOR A MINOR IN PSYCHOLOGY :**

A minor in psychology consists of at least 19 required credits, at least 8 of which must be upper division. Psych 157 and at least one course from the Foundations of Psychology group are required.

**TOTAL REQUIREMENTS FOR PSYCHOLOGY MINOR      19**

## Religious Studies

<b>RS 244R</b>	<b>Chinese Philosophy</b>	<b>3</b>
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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. (3-0)

<b>RS 261R</b>	<b>Philosophy of Religion</b>	<b>4</b>
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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. This course is the same as Phil 261; credit will be given for only one of these courses. (4-0)

## RS 297RS Tibetan Buddhism:Philosophy and Situation 6

This course is designed to investigate the history, cosmology and politics of Tibetan Buddhism through reading, 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 see and live the world in exile and in their historical homeland. This course is the same as PS 297 and PHIL 297; credit will be given for only one of these courses. Consent of instructor. (0-15)

<b>RS 305</b>	<b>Mesopotamian Myth/Religion</b>	<b>3</b>
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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 Hist 305; credit will be given for only one of these courses. (3-0)

<b>RS 306</b>	<b>Ancient Women's Religions</b>	<b>4</b>
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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. This course is the same as Hist 306; credit will be given for only one of these courses. (4-0)

<b>RS 308</b>	<b>Rise of Christianity</b>	<b>4</b>
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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. This course is the same as Hist 308; credit will be given for only one of these courses. (4-0)

<b>RS 310</b>	<b>Psychology of Religion</b>	<b>4</b>
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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 is the same course as Psyc 310; credit will be given for only one of these courses. (4-0)

**Prerequisite:** PSYC 110 OR PSYC 157

<b>RS 320</b>	<b>Indigenous Worldviews</b>	<b>4</b>
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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. This course is the same as Phil 320; credit will be given for only one of these courses. (4-0)

**RS 321      World Religions      4**

A study of the nature and history of the major contemporary religions of the world. This course is the same as Phil 321; credit will be given for only one of these courses. (4-0)

**RS 355      East Asian Popular Religion      4**

This course examines East Asian 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. (4-0)

**RS 382      Dead Sea Scrolls      3**

This course examines the Dead Sea Scrolls in the context of Jewish history, the historical Jesus, and earliest Christianity.

**RS 385      Historical Jesus      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. (3-0)

**Prerequisite:** (RS 308 OR HIST 308 OR RS 392 OR RS 446 )

**RS 446      Ancient Israel and Judah      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. (3-0)



# Religious Studies Minor

Course listings for Religious Studies begin on page 190.

Director - James K. Ash  
Professors - Reyes Garcia, Neil McHugh, Mary Jean Moseley, and Paul N. Pavich;  
Associate Professors - James K. Ash, Alane Brown, Robert R. Bunting, David L. Kozak, Dugald L. Owen, and Richard M. Wheelock;  
Assistant Professors - Katherine A. Clark, Sean E. Cridland and 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:

**Anthropology**

**\*\*Anth 215R Magic and Religion** 3

**English**

**Engl 128 Bible as Literature** 4  
**\*\*Engl 221R Classical Literature** 4  
**Engl 380 Native American Literature: Topics** 4

**History**

**Hist 262S Tolerance & Persecution in the Middle Ages** 4  
**Hist 305 Mesopotamian Myth/Religion** 3  
This course is the same as RS 305.  
**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 349 Islam in History** 4  
**Hist 355 East Asian Popular Religion** 4  
This is the same as RS 355  
**Hist 359 Medieval Europe** 4

Hist 368	Medieval Women	4
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**Philosophy**

Phil 244	Chinese Philosophy This is the same as RS 244.	3
Phil 261	Philosophy of Religion This is the same as RS 261.	4
Phil 297	Tibetan Buddhism: Philosophy and Situation This is the same as PS 297 and RS 297.	6
Phil 320	Indigenous Worldviews This is the same as RS 320.	4
Phil 321	World Religions This is the same as RS 321.	4

**Political Science**

PS 297	Tibetan Buddhism: Philosophy and Situation This is the same as Phil 297 and RS 297.	6
PS 300	Religion and Politics	4

**Psychology**

Psyc 310	Psychology of Religion This is the same as RS 310.	4
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**Religious Studies**

RS 244	Chinese Philosophy This is the same as Phil 244.	3
RS 261	Philosophy of Religion This is the same as Phil 261.	4
RS 297	Tibetan Buddhism: Philosophy and Situation This is the same as PS 297 and Phil 297.	6
RS 305	Mesopotamian Myth/Religion This course is the same as Hist 305.	3
RS 306	Ancient Women's Religions This is the same as Hist 306.	4
RS 308	Rise of Christianity This is the same as Hist 308.	4
RS 310	Psychology of Religion This is the same as Psyc 310.	4
RS 320	Indigenous Worldviews This is the same as Phil 320.	4
RS 321	World Religions This is the same as Phil 321.	4
RS 355	East Asian Popular Religion This is the same as Hist 355	4
RS 382	Dead Sea Scrolls	3
RS 385	Historical Jesus	3
RS 446	Ancient Israel & Judah	3

**Sociology**

Soc 340	Religion and Social Life	4
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**Southwest Studies**

SW 322	American Indian Philosophies	3
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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.

# Sociology

<b>SOC 100S</b>	<b>Social Issues</b>	<b>4</b>
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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. (4-0)

<b>SOC 101</b>	<b>American Society</b>	<b>1</b>
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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. Consent of instructor. (1-0)

<b>SOC 200</b>	<b>Social Change &amp; Human Services</b>	<b>4</b>
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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. (4-0)

<b>SOC 210W</b>	<b>Social Inquiry &amp; Research Methods</b>	<b>4</b>
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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. Consent of instructor. (4-0)

<b>SOC 250R</b>	<b>Social Issues - Native Society</b>	<b>4</b>
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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. (4-0)

**SOC 275S Families, Marriages, and Other Sex-Role Systems** 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. (4-0)

## SOC 279R Ethnicity, Gender, &amp; Class In The Southwest 4

A descriptive analytic inquiry into the historical, social, and economic position of the Hispanics, Native Americans, and women of the Southwest. (4-0)

**SOC 280S Popular Culture & Mass Communications 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. (4-0)

**SOC 300W Theories Of Social & Personal Life 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. (4-0)

**SOC 301 Comparative Societies 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 U.S. 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. (4-0)

**SOC 310 Ecology and Society 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. (4-0)

**SOC 311 Ecology & 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 1-16**

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.

Consent of instructor.

**SOC 330 Mind, Self And Society 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. (4-0)

**SOC 340 Religion And Social Life 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. (4-0)

**SOC 345 Art And Society 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. (4-0)

**SOC 350 Search For Intimacy 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. (4-0)

<b>SOC 353</b>	<b>Medical Sociology</b>	<b>4</b>
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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 as well as social science majors.

SOC 361 Deviance 4

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An examination of the traditional versions of deviance followed by modern critiques which emphasize "labeling" and the more phenomenological approaches to understanding human conduct.  
(4-0)

<b>SOC 362</b>	<b>Criminology &amp; Criminal Justice</b>	<b>4</b>
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An examination of the major "positivist" theories of crime and criminality (individual, familial, subcultural) followed by the modern critique of positivst criminology emphasizing the part played by the administration of criminal justice as an integral part of the characterizing and structuring of crime. (4-0)

<b>SOC 363</b>	<b>Juvenile Delinquency</b>	<b>4</b>
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A review of contemporary thinking about the development of juvenile delinquency and the linkages between juvenile delinquency and the administration of juvenile justice. (4-0)

<b>SOC 375</b>	<b>Sociology Of Education</b>	<b>4</b>
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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. (4-0)

<b>SOC 376</b>	<b>Language &amp; Social Behavior</b>	<b>4</b>
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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. (4-0)

<b>SOC 380</b>	<b>Work And Authority In Society</b>	<b>4</b>
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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. (4-0)

**SOC 383 Women In Society 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. (4-0)

**SOC 421 Contemporary Social Analysis In The SW 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. Consent of instructor. (4-0)

<b>SOC 496</b>	<b>Senior Seminar</b>	<b>4</b>
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Advanced study and research in selected topics. The student will prepare and submit a senior seminar research paper to qualify for graduation. (4-0)



# Sociology/Human Services

*Course listings for Sociology/Human Services begin on page 191.*

Department Chair - Dennis Lum

Professors - James Fitzgerald (jointly with Modern Languages);

Associate Professors - Janine M. Fitzgerald, Dennis W. Lum, and Mark C. Seis;

Assistant Professors - Kalin L. Grigg, Patricia Sanchez-Flavian, and Carey N. Vicenti.

Visiting Instructor - Rachel Stryker

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.

## **Sociology Block Internship Program**

The Sociology Block program is designed to integrate 16 credit hours of Sociology course work with an intensive community placement in a regionally based community based non-profit, grassroots organization or a community based research project. The goal of the program is to provide an educational experience in which the academic study is integrated around, and driven by, a community based service internship. Service placements are organized according to student interest and the ability of the community based program to provide a high quality educational and community service experience for the student. Students are expected to serve as responsible participants in the programs they are assigned. While the schedule for internship hours varies according to the needs of the particular placement, students are expected to work approximately 20-25 hours per week in their placement. In addition, students are responsible for completing all of the assigned course work, most of which will be integrated into a single final paper. Students will be assigned to one of three participating Sociology faculty members who will serve as the students' primary mentor in both the academic and community based work. Students enrolled in the block program should not be enrolled in any other courses while taking the Block. The Block program also serves as the upper level writing course for participating students.

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:**

See pages 56-59 for General Education requirements

\*\* 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
<sup>1</sup> Soc 320 Community Service Practicum	8
Soc 421 Contemporary Social Analysis in the Southwest	4
Soc 496 Senior Seminar	4

**Subtotal Specific Departmental Requirements 32**

Writing Course Within Discipline:

Included in Specific Departmental Requirements above.

Other Departmental Requirements:

A minimum of 12 additional credits in Sociology/Human Services 12

**Total Departmental Requirements 44**

**Free Electives (variable)**

**TOTAL REQUIRED FOR GRADUATION 120**

<sup>1</sup> Up to 8 credits of WS 320 may be substituted for up to 8 credits of Soc 320.

**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.*

**Sociology—Criminology Option**

The criminology option explores how historically generated political, economic and power/knowledge systems influence the creation of laws, attitudes and perceptions about crime, and the actual functioning of our contemporary criminal justice system. Criminal behavior and juvenile delinquency are also examined in light of historically generated social, economic and political conditions. The criminology major is designed to give students a thorough understanding of the political nature of law creation, enforcement, adjudication, and punishment, as well as a thorough understanding of the bureaucratic structure of these various components of the criminal justice system. Alternative Native American and restorative justice systems and concepts are also explored as viable ways of thinking about problems of crime.

The criminology option offers a unique opportunity to examine the relationship between theory and practice. Students in the criminology option are required to participate in a semester long internship where students work and study within various criminal justice related social service programs.

The criminology option provides excellent opportunities for those students interested in graduate school or a career in 1) law; 2) law enforcement; 3) probation; 4) social work; or 5) corrections.

A minor in criminology is available for students majoring in other disciplines. Requirements for a minor in criminology are listed at the end of this section.

**REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN SOCIOLOGY/HUMAN**



**SERVICES—CRIMINOLOGY OPTION:****General Education****39-50**

See pages 56-59 for General Education requirements

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

Specific Departmental Requirements:

**Soc 100S Social Issues	4	
Soc 210W Social Inquiry and Research Methods	4	
PS 241 Introduction to Criminal Justice Systems		4
Soc 320 Community Service Practicum	1-16	
Soc 362 Criminology and Criminal Justice	4	
Soc 363 Juvenile Delinquency	4	
Soc 421 Contemporary Social Analysis in the Southwest	4	
Soc 496 Senior Seminar	4	

**Subtotal Specific Departmental Requirements 36**Writing Course Within Discipline:

Included in Specific Departmental Requirements above.

Other Departmental Requirements:

A minimum of 12 additional hours, with at least 8 of those in upper division courses to be chosen from the following course selections:

Phil 251 Moral Philosophy	
Phil 252 Environmental Ethics	
PS 140 Introduction to Law and Legal Systems	
PS 330 Public Administration	
PS 340 Constitutional Law: Bill of Rights	
PS 341 Constitutional Law: Federalism and the Separation of Powers	
PS 400 Native American Law and Politics	
PS 423 Nature of Law and Judicial Process	
PS 425 Prisons and Prisoners	
Psyc 233 Personality*	
Psyc 325 Group Dynamics*	
Psyc 342 Psychological Testing*	
Psyc 387 Abnormal Psychology*	
Psyc 392 Foundations of Clinical Psychology*	
Soc 361 Deviance	

\*Courses marked with an asterisk have prerequisites.

**Total Other Departmental Requirements 12****Total Departmental Requirements 48****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.*

## Criminology Minor

**TOTAL REQUIRED FOR SOCIOLOGY/HUMAN SERVICES MINOR 20**

## Southwest Studies

### **SW 100      Fundamentals Of Navajo Language I                      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. Same as ML 100; credit may be obtained for only one of these courses. (3-0)

### **SW 101      Navajo Language II                                              3**

Continuation of Navajo I. Whereas Navajo I emphasized speaking, this course will center on reading and writing of the Navajo language. Same as ML 101; credit may be received for only one of these courses. (3-0)

**Prerequisite:** SW 100 OR ML 100

### **SW 115      Native American Newsletter                              3**

For lower-division students with good writing skills. Students will prepare six stories for publication in the Intercultural News, gaining basic skills in news writing 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. (3-0)

### **SW 123R      American Indian History                                      3**

The history of Indians of the United States from contact to the present. (3-0)

### **SW 125      History of Hispanos in Southwest                              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. (3-0)

### **SW 131N      Southwest History and Culture                              3**

A broad introduction to Southwestern history and cultures with lectures on history, archaeology, literature, art, and other related topics. (3-0)

### **SW 135R      The Southwest I                                                      3**

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. (4-0)

### **SW 136      The Southwest II                                                      3**

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. (4-0)

**Prerequisite:** SW 135

### **SW 154      Indian Arts And Crafts I                                              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 154. (0-6)

### **SW 181N      U. S./SW Environmental History                              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. (3-0)

## SW 241      Public History:Scope &amp; Methods      3

We will examine the "front end" of history--various ways in which stories of the past are taken outside of the academy's stone walls and presented to the general public. Public historians package and convey history to make it come alive. They apply historical knowledge and methods in settings as diverse as archives, museums, historical sites, businesses, and mass media.

## SW 250Nx Ecology of the Southwest 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 Bio 250:

credit will be given for only one of these courses. (3-2)

<b>SW 255</b>	<b>Intro to Heritage Preservation</b>	<b>3</b>
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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 Parks Service, the Bureau of Land Management and tribal cultural preservation programs.

Field trips, guest speakers, and group projects will be featured. (3-0)

<b>SW 256</b>	<b>Introduction to Museums</b>	<b>3</b>
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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. Consent of instructor. (3-0)

## SW 265      Art History Of The Southwest      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 265. (3-0)

## SW 280S Native American In The Modern World 3

This is an introductory study of contemporary affairs in Indian Country. The historical beginnings, development and current significance of today's issues will be studied. Students will learn of these issues from recent materials, many produced by Indian people, and will be encouraged to explore their own interests in Indian affairs in brief writing assignments. (3-0)

**Prerequisites:** (COMP 150 OR COMP 250 OR COMP 126 )  
AND LIB 150

## SW 282      Hispano Culture of Southwest      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. (3-0)

## SW 301W Writing in the SW Studies Discipline 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. (3-0)

**Prerequisites:** (COMP 150 OR COMP 126 OR COMP 250 )  
AND LIB 150

**SW 315      Native American News Writing      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. (3-0)

**Prerequisites:** (COMP 126 OR COMP 150 OR COMP 250 )  
AND (LIB 150 OR LIB 150 equivalent)

**SW 317      History of American Indians in Film      3**

An analysis of the treatment of American Indians in film. It also will relate film images to images in literature and other media. (3-0)

**Prerequisites:** (COMP 126 OR COMP 150 OR COMP 250 )  
AND (LIB 150 OR LIB 150 equivalent)

**SW 318      History of Chicanos in Film      3**

This course will focus on the changing treatment of Hispanos/Chicanos in American commercial film. It will deal with the issue of stereotypes and will relate films to prevailing attitudes at the time in which they were made. It also will evaluate the impact of film on public attitudes.

**SW 320      Western/SW American History      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. (3-0)

**SW 322      American Indian Philosophies      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. (3-0)

**Prerequisites:** (COMP 126 OR COMP 150 OR COMP 250 )  
AND (LIB 150 OR LIB 150 equivalent)

**SW 323      Southwest Indian History      3**

Studies the history and culture of Native American groups in the Southwest. (3-0)

**Prerequisites:** (COMP 126 OR COMP 150 OR COMP 250 )  
AND (LIB 150 OR LIB 150 equivalent)

**SW 326      West & SW In Film And Fiction      3**

An analysis of the treatment of the West and Southwest in film and fiction. (3-0)

**Prerequisites:** (COMP 126 OR COMP 150 OR COMP 250 )  
AND (LIB 150 OR LIB 150 equivalent)

**SW 327      American Indians & Mass Media      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. (3-0)

**Prerequisites:** (COMP 150 OR COMP 250 OR COMP 126 )  
AND (LIB 150 OR LIB 150 equivalent)

**SW 330 Cowboys, Cattlemen & Popular Culture 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. (3-0)

**Prerequisites:** (COMP 150 OR COMP 250 OR COMP 126 )  
AND (LIB 150 OR EQUIVALENT)

**SW 333 Wilderness in America 3**

This course traces the history of the concept of wilderness on American public lands beginning in the Colonial period in the 1600s with wilderness defined as a dangerous, unsettled area, to the establishment of the federal wilderness preservation system in 1964. Students will read history, literature and science and will come to understand difficult issues in managing wilderness areas today. Hiking, camping, and field trips to wilderness areas in the San Juan Mountains will be an integral part of the course.

**SW 335 National Parks: America's Best Idea 3**

This course will begin with the history of the National Park Service and the Organic Act, passed in 1916, that required national parks to remain "unimpaired for future generations" thus creating the paradox of public use versus site preservation. The evolution of the National Park Service will be discussed with equal attention to history and science and the concept of national parks as valuable biotic reservoirs for ecosystems and endangered species and as home to spectacular mountain and canyon Western landscapes. The course will also focus on history, archaeology, and anthropology as those disciplines have been interpreted at units of the National Park Service including national monuments national parks, national recreation areas, and national seashores. Note: field trips will be required.

**SW 340 Archival Theory and Practice 3**

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. (4-0)

**SW 341 Oral History; Theory & Practice 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 transcribed oral history interview of sufficient historical research value to warrant inclusion in the Center of Southwest Studies collection. (3-0)

**Prerequisite:** COMP 126 OR COMP 150 OR COMP 250

**SW 342 Cultural Resources 3**

This course is designed to prepare students in the interpretation of cultural resources and to create awareness of Western heritage under specific topics such as Indian Heritage; mining heritage; ranching heritage; etc. Each class will have a different cohesive theme that will include readings, research, guest speakers, and field trips. (3-0)

**SW 344 Native American Oral Tradition 3**

Native American Oral Traditions still offer distinct perceptions of the world. Students in this course will learn of the evolution of tribal oral traditions from early records of their existence to the modern issues surrounding their maintenance. These and other issues will be explored through essay and oral assignments and participation in individual and group activities in recording oral traditions. (3-0)

**Prerequisites:** (COMP 150 OR COMP 126 OR COMP 250 )  
AND LIB 150

**SW 355      Development Of U. S. Indian Policy      3**

This course traces the development of United State 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. (3-0)

**Prerequisites:** (COMP 126 OR COMP 150 OR COMP 250 )  
AND (LIB 150 OR LIB 150 equivalent)

**SW 360      MesoAmerican Art History      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. (3-0)

**Prerequisites:** (COMP 126 OR COMP 150 OR COMP 250 )  
AND (LIB 150 OR LIB 150 equivalent)

**SW 368      Native N. American Art History      3**

Using a regional approach, this course examines art by Native Americans from Alaska, the Northwest Coast of North America, Plains, Woodlands, California, Northeast, Southeast and Southwest regions of the United States. The influence of tourism, photography, and museums on art, as well as Native American influence on these forces is also examined. Art surveyed ranges from the archaic to the contemporary. This course is the same as Art 368. Credit will only be given for one of these courses.

**SW 380      Native Amer Lit: Topics      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. This course is the same as Engl 380; credit will be awarded for only one of these courses. (4-0)

**Prerequisites:** LIB 150 AND (COMP 150 OR COMP 250 OR  
COMP 126 )

**SW 381      Chicano Literature      3**

This course is the same as ML 331. See ML 331 for course description. Credit may be received for only one of these courses. (3-0)

**Prerequisites:** (COMP 150 OR COMP 126 OR COMP 250 )  
AND (LIB 150 OR LIB 150 equivalent)

**SW 383      Southwest History To 1868      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. (3-0)

**Prerequisites:** (COMP 126 OR COMP 150 OR COMP 250 )  
AND (LIB 150 OR LIB 150 equivalent)

**SW 384      Southwest Hist 1868 To Present      3**

This course will cover the political, social and economic history of the Southwest from 1868 to the present. (3-0)

**Prerequisites:** (COMP 126 OR COMP 150 OR COMP 250 )  
AND (LIB 150 OR LIB 150 equivalent)

**SW 402      Contemp Art & Lit of the S.W.      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 artist. In addition, the course will focus on critical issues such as marketing of ethnicity, repatriation, looting of archaeological sites and the artifacts black market, curating

major exhibits, and displaying of and writing about the sacred. (3-0)

**Prerequisites:** (COMP 126 OR COMP 150 OR COMP 250 )  
AND (LIB 150 OR LIB 150 equivalent)

**SW 450 Tribal Preservation 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. (3-0)

**SW 481 Colorado History 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. (3-0)

**Prerequisites:** (COMP 126 OR COMP 150 OR COMP 250 )  
AND LIB 150

**SW 482 Western American Mining 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 324; credit will be given for only one of these courses. (3-0)

**Prerequisites:** (COMP 126 OR COMP 150 OR COMP 250 )  
AND (LIB 150 OR LIB 150 equivalent)

**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 SW Studies 1-6**

The internship offers instruction and hands-on experience in museology and archival management. Course is repeatable for up to 6 credits.

**SW 496 Senior Seminar 3**

Senior seminar in Southwest Studies. (3-0)

**Prerequisites:** (COMP 126 OR COMP 150 OR COMP 250 )  
AND (LIB 150 OR LIB 150 equivalent)



# Southwest Studies

*Course listings for Southwest Studies begin on page 192.*

Department Chair - Richard N. Ellis  
Professors - Richard N. Ellis, Andrew J. Gulliford, Mary Jean Moseley,  
and Duane A. Smith;  
Associate Professor - Richard M. Wheelock;  
Assistant Professor - Peter McCormick.

The Department of Southwest Studies offers an interdisciplinary approach to the study of the American Southwest. By understanding the region's distinct environments and diverse cultures, and how those peoples and environs interacted to define and redefine one another, graduates will find their lives deepened and their career opportunities in teaching, government, museum work, archives, public history, and graduate school admissions enhanced. To fully grasp a broad-based and in-depth understanding of the region, a variety of course selections are offered from the natural sciences, social sciences and fine arts.

A major in Southwest Studies must complete 45 hours. The 45 hours consist of 15 hours of Core Courses, 15 hours of Concentration Courses, and 15 hours of Southwest Elective Courses. At least 27 of the 45 total hours of course work needed for a Southwest major will be at the 300 and 400 levels.

In addition to offering a major in Southwest Studies, the department also offers a minor in Southwest Studies, Native American Studies and Heritage Preservation. The Southwest Studies minor consists of 18 hours of course work within the department, with at least nine of those hours being upper-division courses.

A minor in Native American Studies and a minor in Heritage Preservation are described and their requirements below.

## REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN SOUTHWEST STUDIES:

### General Education **39-50**

See pages 56-59 for General Education requirements

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

### Specific Departmental Requirements:

\*\*SW 131 Southwest History and Culture

OR

\*\*SW 135 The Southwest

SW 301W Writing in the Southwest Discipline

SW 383 Southwest History to 1868

SW 384 Southwest History 1868 to Present

SW 496 Senior Seminar

### Subtotal Specific Departmental Requirements **15**

### Other Departmental Requirements:

### Two of the following courses in the Historic and Contemporary Southwest:

SW 125 History of Hispanos in the Southwest

SW 136 The Southwest

\*\*SW 280 Native American in the Modern World

SW 323 Southwest Indian History

SW 342 Interpretation of Cultural Resources

One of the following courses from the Natural World:

\*\*SW 181 U.S./Southwest Environmental History

\*\* SW 250Nx Ecology of the Southwest

SW 333 Wilderness in America

SW 335 National Parks: Americas Best Idea

Two of the following courses in Art, Literature, and Culture:

SW 265 Art History of the Southwest

SW 282 Hispano Culture of the Southwest

SW 317 History of American Indians in Film

SW 318 History of Chicanos in Film

SW 326 West and Southwest in Film and Fiction

SW 330 Cowboys, Cattlemen, and Popular Culture

SW 380/Engl 380 Native American Literature: Topics

SW 402 Contemporary Art and Literature of the Southwest

**Subtotal Other Departmental Requirements**

**15**

Southwest Elective Courses:

SW 100 Fundamentals of Navajo Language I

SW 101 Navajo Language II

SW 115 Native American Newsletter

\*\*SW 123R American Indian History

SW 154 Indian Arts and Crafts

SW 241 Public History: Scope and Methods

SW 255 Introduction to Heritage Preservation

SW 256 Introduction to Museums

SW 315 Native American Newswriting

SW 320 Western American History

SW 322 American Indian Philosophies

SW 340 Archival Theory and Practice

SW 341 Oral History: Theory and Practice

SW 344 Native American Oral Traditions

SW 355 Development of United States Indian Policy

SW 450 Tribal Preservation

SW 481 Colorado History

SW 482 Mining in the American West

SW 491 Practicum in Southwest Studies

SW 493 Internship in Southwest Studies

SW 499 Independent Study

**Subtotal Free Electives**

**15**

Should a student desire, up to six or the 15 elective course hours can be taken from the following list of approved courses in departments other than Southwest Studies:

Anth 259 Field Training in Archaeology (if on a Southwest topic)

Anth 330 Archaeology of the Southwest

Anth 388 Ethnology of the Southwest

Anth 406 Ethnobotany of the Southwest

Anth 430 Advanced Studies in Southwestern Archaeology

\*\*Engl 280R Literature of the Southwest

\*\*Geol 150N Geology of the Southwest

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 331 Chicano Literature

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

**Total Departmental Requirements 45**

**Free Electives (Variable) 25-36**

**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.*

## Southwest Studies - Heritage Preservation Minor

Coordinator - Andrew J. Gulliford, Professor  
 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	3
SW 491	Practicum in Southwest Studies	3

Electives: 12 credits selected from the following with the approval of the Heritage Preservation coordinator.

SW 256	Introduction to Museums	3
SW 340	Archival Theory and Practice	3
SW 341	Oral History Theory and Practice	3
SW 342	Interpretation of Cultural Resources	3
SW 450	Tribal Preservation	3
SW 493	Internship in Southwest Studies	3

Electives from the Department of Anthropology:

Anth 330	Archaeology of the Southwest	3
Anth 388	Ethnology of the Southwest	3

Electives from the Department of Southwest Studies:

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

**TOTAL CREDITS REQUIRED FOR HERITAGE PRESERVATION****MINOR****18**

At least nine credits must be upper division.

## Southwest Studies - Native American Studies Minor

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):

SW 115 Native American Newsletter 3

SW 154 Indian Arts/Crafts I 3

SW 317 History of American Indians in Film 3

SW 327 American Indians and the Mass Media 3

SW 315 Native American Newswriting 3

SW 365 Mesoamerican Art History 3

SW 380 Native American Literature: Topics 4

Thea 382 American Indian Theatre 4

Choose at least one Course (culture, language, & cosmology):

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

SW 100 Fundamentals of Navajo Language I 3

SW 101 Navajo Language II 3

SW 322	American Indian Philosophies	3
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Choose at least one Course (economics, politics, & law):

PS 400	Native American Law and Politics	4
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**Soc 250R	Social Issues in Contemporary Native Societies	4
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SW 323	Southwest Indian History	3
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SW 355	Development of United States Indian Policy	3
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SW 280	Native American in Modern World	3
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**TOTAL CREDITS REQUIRED FOR NATIVE AMERICAN STUDIES**

<b>MINOR</b>	<b>15-19</b>
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**At least nine credits must be upper division**

## Spanish Minor

### REQUIREMENTS FOR A MINOR IN SPANISH

**Spanish:**

Completion of 24 credits in Spanish, 12 credits of which must be 300- or 400-level courses.

**TOTAL CREDITS REQUIRED FOR SPANISH MINOR      24**

When planning a minor in Spanish, students should consult with an appropriate faculty member in the Department of Modern Languages.

# Student Constructed Major

Contact the Director of the Academic Advising Center, Dr. Beverly Chew

The college allows a student constructed major to meet specific needs and purposes of students that cannot be met in any other way. In general, the student-constructed major is interdisciplinary, and differs substantially from established curriculum course combinations and emphases already available through major, minors and electives. Those interested in a student-constructed major must begin the process through the Academic Advising Center.

# Teacher Education

Department Chair - Joe Lounge

Professors - Virginia A. Engman and Stephen A. Roderick

Associate Professors - Cheryl D. Clay, Joe Lounge, and

Gene Taylor

Assistant Professors - June Azua, Maggie Cason, and

Jennifer Trujillo

Visiting Instructors - Toi Creech and Susan Martinez

Fort Lewis College offers a Teacher Education Program designed to enable students to qualify for a Colorado teaching license. The program makes it possible to complete both a bachelors degree and qualify for a teaching license within four academic years. The program requires 800 hours of field experience. It is essential that each student consult with a Teacher Education Advisor and a Major Advisor regarding the Teacher Education Program, approved majors 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. Each faculty member serves as the contact person for curriculum advising.

## 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 and Academic Profile 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 (June Azua, Maggie Cason, Susan Martinez, or Jennifer Trujillo). The student must pass the Elementary PLACE content exam and Academic Profile exam prior to student teaching.

**Secondary Education (Young Adult):** Students seeking licensing at the young adult level (grades 7-12) shall complete an approved baccalaureate degree, the secondary professional sequence and Colorado Department of Education endorsement standards. Approved majors for Secondary license include: English, Mathematics, Biology, Chemistry, Geology, Physics, History, Humanities and Spanish. Consult a secondary education advisor for details (Joe Lounge or Gene Taylor). The student must pass the PLACE content exam and Academic Profile exam prior to student teaching.

**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. Majors approved for each of the K-12 licenses include: Art, Music Education, and Exercise Science. Contact any education advisor or major advisor for details. The student must pass the PLACE content exam and Academic Profile exam prior to student teaching.

## 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 in addition to the required bilingual coursework for licensure. Contact the Bilingual/ESL faculty for more details (Jennifer Trujillo).



**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 in addition to the required ESL coursework for licensure. Contact the Bilingual/ESL faculty for more details (Jennifer Trujillo).

**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).

## **ADMISSION TO THE TEACHER EDUCATION PROGRAM**

To be admitted to the Teacher Education Program, the student must:

- be admitted to Fort Lewis College in an "active student" status
- submit a completed Teacher Education application
- submit a FLC transcript showing
- have at least 30 credit hours
- have a GPA of at least 2.5(cumulative or for most recent 30 credit hours)
- have an APPROVED major
- submit a Colorado Department of Education stamped fingerprint card and a \$36 money order (made out to the Colorado Department of Education)

Each student must complete Ed 200R Introduction to Education in America, or an approved equivalent, with a grade of B- or better before taking the upper division (300 or 400 level) Teacher Education courses.

## **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.

All Teacher Education students must take the ETS Academic Profile and pass with a score of at least 441. Student teaching candidates must pass the Colorado PLACE test before beginning student teaching.

## **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." Students should contact their assigned Teacher Education Advisor as soon as possible to plan their program.

Written evaluation and acceptance of the student's content area preparation by the appropriate academic department of Fort Lewis College is required for post-baccalaureate students seeking a secondary license. Documentation is in the form of a signed endorsement sheet. Students must compete an additional course, or courses, in areas identified as deficient in the transcript analysis.

Post-baccalaureate students interested in the Early Childhood or Elementary Education licensure program must meet with a Teacher Education Advisor and have a transcript analysis completed demonstrating an adequate breadth of content experience. Students must compete an additional course, or courses, in areas identified as deficient in the transcript analysis.

## **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 submit fingerprints to the Colorado Department of Education before participating in field-based study. Students may be withdrawn from field study based on the results of the background investigation.

## **REQUIREMENTS FOR ADMISSION TO STUDENT TEACHING**

To be admitted to Student Teaching the student must:

- have senior or post-baccalaureate standing.
- pass the PLACE content exam and Academic Profile before student teaching.
- 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 licensing program and cumulative.
- Notes: A \$250 fee is required to teach out-of-area (greater than 70 miles from Durango).
- The out-of-area GPA and fee does not apply to the Teacher Education Outreach Program.
- 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 an approved student teaching application on file, submitted 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.
- 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 must petition for a 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; some student teachers are placed outside of the City of Durango.
- be recommended by the Teacher Education faculty.

## **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.

## RECOMMENDATION FOR LICENSURE

Upon successful completion of the Teacher Licensing Program, students qualify for a Colorado teaching license. Students wishing to apply to another state are advised to contact the appropriate Department of Education for information about specific requirements. Colorado requirements include:

- Successful completion of Bachelor's degree with a major in the endorsement area (or in an officially approved equivalent of the major).
- Successful completion of the Teacher Licensing Program.
- 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)

### 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 upper division (300 or 400 level) 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 353 Growth and Development of the Young Child	3	OR
Psyc 354 Child Psychology	4	
Ed 421 Individualized Instruction in a Pluralistic Society	6	
Ed 453 Cognitive Skills for the Young Child	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
Additional coursework required in Language Arts Methods, Language Arts, Music, Art and Movement Literacy prior to Ed 492.	8
<b>Program CORE credits</b>	<b>47-48</b>

Auxiliary Requirements:

Psyc 254   Life Span Human Development	4
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<b>Program Total</b>	<b>51-52</b>
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## ELEMENTARY EDUCATION LICENSING PROGRAM (Middle Childhood ) Grades K-6

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 upper division (300 or 400 level) courses in the Middle Childhood Licensing Program.

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 425    Science and Technology Methods for Elementary School Teaching	4
Ed 426    Mathematics and Social Studies Methods for Elementary School Teaching	4
Ed 494    Laboratory Experience and Seminar in the Elementary School	15

Additional coursework required in Language Arts Methods, Language Arts, Music, Art and Movement Literacy prior to Ed 494.	8
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<b>Program CORE credits</b>	<b>45</b>
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Auxiliary Requirements:

Psyc 254   Life Span Human Development	4
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<b>Program Total</b>	<b>49</b>
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## SECONDARY LICENSING PROGRAM (Grades 7-12)

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 upper division (300 or 400 level) courses in the Secondary Licensing Program.

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 Education Business Hall.

## K-12 LICENSING PROGRAM

### Art or Physical Education

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 upper division (300 or 400 level) courses in the K-12 Art & Physical Education Licensing Program.

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
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**Program Total 37**

## K-12 LICENSING PROGRAM

### Music Education

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 upper division (300 or 400 level) courses in the K-12 Music Licensing Program

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

**Program CORE credits** **29**

Auxiliary Requirements:

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

**Program Total** **38**

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 an Early Childhood Endorsement.

Specific Departmental Requirements:

Ed 353	Growth and Development of the Young Child	3
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-2) school setting	15

Additional coursework required in special topics in Early Childhood literacy and creative art	2
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**Endorsement Total** **27**

\*Students desiring to add 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:

Ed 210S	Culture of Childhood and Youth	4	
	Ed 421 Individualized Instruction in a Pluralistic Society	6	
Ed 333	Southwest Language Immersion for Teachers	3	
Ed 335	Educational Linguistics	3	
	OR		
Eng 462	Linguistics	3	
	Cultural Emphasis: Culturally based art, literature, or social science courses	9	

ESL students must also take:

Ed 334 Methods of Teaching English as a Second Language 3  
AND

Pass the ESL PLACE exam

Bilingual students must also take:

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 28-31**

# Theatre

Department Chair - Ginny A. Davis  
 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:

### General Education 39-50

See pages 56-59 for General Education requirements.

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

#### Specific Departmental Requirements:

**Thea 126R Intro to Dance	4
Thea 135 Acting Techniques	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</b>	<b>Specific Departmental Requirements</b>	<b>28</b>
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#### 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 322 Creative Dramatics	4	
Thea 323 Children's Theatre	4	
Thea 366 Dance Techniques	2	
Thea 381 Special Topics in Dramatic Lit	4	
Thea 382 American Indian Theatre	4	
Thea 190/390 Special Topics	4	

<b>Subtotal Electives</b>	<b>14-16</b>
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#### 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

<b>Subtotal Other Departmental Requirements</b>	<b>6</b>
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<b>Total Major Requirements</b>	<b>48-50</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.*

## Theatre Minor

### 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 REQUIRED FOR THEATRE MINOR</b>	<b>20</b>
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## Theatre

**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

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. (4-0)

**THEA 126R Introduction To the Dance** 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. (4-0)

<b>THEA 135</b>	<b>Acting Techniques</b>	<b>4</b>
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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. (4-0)

<b>THEA 200</b>	<b>Theatrical Production</b>	<b>1-4</b>
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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.

<b>THEA 230</b>	<b>Stage Technology</b>	<b>4</b>
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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 introductory knowledge of the aspects of stage design. (3-2)

<b>THEA 231</b>	<b>Make-up For Stage</b>	<b>2</b>
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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. (2-0)

<b>THEA 233</b>	<b>Audition Techniques</b>	<b>2</b>
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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. (2-0)

This course, the second in the dramatic literature sequence (240 and 340W), surveys developments in the theatre practice and dramatic literature from the beginning of the 19<sup>th</sup> through the mid-20<sup>th</sup> century. The development of





## Thematic Studies 2

## N—The Natural Environment

**NOTE:** Prerequisites for ALL TS 2 courses: Comp 150 (or Comp 126 or Comp 250), Lib 150 and all four TS 1 courses (one from each theme, including one with a science lab).

TS2N 400	Environmental Science and Policy: Analysis of Global and Local Issues	4
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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. (4-0)

TS2N 401	Simply Science	4
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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. (4-0)

<b>TS2N 404</b>	<b>Wetland and Stream Ecology</b>	<b>3</b>
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In this course, we will explore the ecology, history, value, and use of wetlands and streams. We will take a global survey of wetlands and discuss pollution and other anthropogenic activities that affect wetlands, wetland protection laws, management, restoration, and local grass-roots conservation efforts. (3-0)

TS2N 405	Wilderness	4
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This course explores the relationship between human beings and wilderness. Topics include attitudes about the environment, wilderness as therapy, ecopsychology, outdoor leadership and group dynamics, and wilderness risk management. Students will consider both local and international issues in wilderness management. Students are required to complete field work in the wilderness as part of this course. (2-3)

## TS2N 406 Water in the West 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. (4-0)

<b>TS2N 407</b>	<b>Business and the Environment</b>	<b>4</b>
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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. (4-0)

## TS2N 408N EcoTexts 4

This course examines how historical, scientific, and imaginative texts construct human perceptions of the natural world at both the local and global levels. Sustainability and interconnectedness will provide the organizing principles of this course, which will include activities such as analyzing environmental impact statements, creating education publications, and participating in service learning projects. Students will be expected to gather and analyze a variety of data as they interrogate different ways humans come to know and understand the world. (4-0)

**Prerequisites:** (COMP 150 OR COMP 126 OR COMP 250 )

This course examines representations, particularly of differences 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. (4-0)

**TS2R 408    Genius, Knowledge, and Representation    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. (4-0)

**TS2R 410    U. S. Latino Popular Culture    4**

This class explores differences between mainstream U.S. and Latino popular cultural expressions. The formation of Latino cultural identity will be examined, as well as U.S. Latino history, in order to understand how sociopolitical and cultural ideologies are established and rebellion against the status quo occurs. Although a bilingual approach will be taken as the class explores films, literature, music, etc., a knowledge of Spanish is not required. (4-0)

**TS2R 411    Performance Art    4**

Performance Art is a global phenomenon as well as a genre that developed in the 20th century by means of a collaborative effort across dissimilar art and performance disciplines. This course considers creative expression to be an important avenue to understanding the self and the expressions of various individuals, collective groups, and cultures of the world. Through an examination of selected topics in theatre, dance, music, and the fine arts, students will develop historical, critical, analytical, and expressive skills necessary for redefining the boundaries of artistic expression. (4-0)

**S—Systems and Institutions**

**NOTE:** Prerequisites for ALL TS 2 courses: Comp 150 (or Comp 126 or Comp 250), Lib 150 and all four TS 1 courses (one from each theme, including one with a science lab).

**TS2S 400    Deconstructing Systems and the Pursuit of Anarchy    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. (4-0)

**TS2S 401    Power and Privilege in Literacy    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. (3-0)

**TS2S 402    Movements of Resistance    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. (4-0)

**TS2S 403    Game Theory:Rationlity &SocSci    4**

Game theory is the formal analysis of strategic situations. This course will provide students will 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. (4-0)

**TS2S 404    Gender and The Sciences    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



This course will examine how people make judgments, form opinions, weigh truth claims, evaluate source credibility, use logic, and process and recall political information. The course combines knowledge from political science, logic, and communications. Special emphasis will be on the role of various media outlets, including movies and the Internet, in creating and maintaining perceptions and conspiracy theories about politics. (3-0)

This course will explore historical, cultural, and systemic perspectives on health and wellness. It will focus on paradigm shifts in understanding health and specific health conditions, the influences of technology, religion, culture and politics, and the balance of mind, body, and spirit in understanding health and wellness. (3-0)

This course will examine the intersection of culturally- based sex-gender system with the system of sport on all levels including play, social recreation, organized recreation, outdoor experiential activity, physical education in schools, high school and collegiate athletics, Olympic competition, and professional sports. (3-0)

**NOTE:** Prerequisites for ALL TS 2 courses: Comp 150 (or Comp 126 or Comp 250), Lib 150 and all four TS 1 courses (one from each theme, including one with a science lab).

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. (4-0)

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. (4-0)

In this course students examine a number of technological changes in agriculture and their impact on society, culture and the environment. Throughout the course, technological change is examined from scientific, social, and public policy perspectives. (3-0)

What is the science behind record breaking elite sport performances and what are the limits of human athletic performance? This course examines peak and record breaking 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. (3-0)

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. (3-0)

**TS2T 405    Visual Literacy: The Art and Science of the Book                      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. (2-4)

**TS2T 406    Finding Secrets, Keeping Secrets: Information Technology and Individual Privacy 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. (4-0)

**TS2T 407    Technology and Ethics in Medicine                      4**

This course will explore the ethical use of technology in medicine. This history of the development of technology for medical use will be a major component because along with this development came the formulation of concepts of ethical practice. The association of major social changes with the development of new medical technologies will be examined. (4-0)

## Transitional Studies

### **TRS 82      Introduction to Algebra      3**

This course provides review and instruction in elementary algebra and offers the opportunity to apply these skills to word problems and critical thinking exercises. (3-0)

**Prerequisite:** Math Placement into TRS 82

### **TRS 83      Intro to Algebra: Problem Solving      2**

Supplement to Introduction to Algebra (TRS 82) for students who wish to explore the concepts in greater depth and who wish to receive additional assistance with problem solving. Students will receive a Pass/Fail grade.

### **TRS 85      Fundamentals of English Grammar      2**

This course reviews the fundamentals of English grammar, usage, and punctuation. (2-0)

### **TRS 90      Reading for Ideas      3**

This course introduces students to strategies for reading the types of texts assigned in entry-level college courses. (3-0)

### **TRS 91      Intro to Academic Writing      3**

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. (3-0)

### **TRS 92      Intermediate Algebra      3**

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. (2-1)

**Prerequisites:** TRS 82 OR Placement into TRS 92

### **TRS 93      Intermediate Algebra: Problem Solving      1**

Supplement to Intermediate Algebra for students who wish to explore the concepts in greater depth and who wish to receive additional assistance with problem solving. Students will receive a Pass/Fail grade.

### **TRS 95      Learning Skills      2**

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. (2-0)

## **Tuition, Fees & Expenses**

[\*Tuition and Fees for Fall and Winter Trimesters\*](#)

[\*Tuition and Fees for Summer Sessions\*](#)

[\*Other Expenses\*](#)

[\*Student Billing and Payment Conditions\*](#)

[\*Tuition Adjustment\*](#)

[\*Adding and Dropping\*](#)

[\*Official Withdrawal from College\*](#)

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.

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### **TUITION AND FEES FOR FALL AND WINTER TRIMESTERS**

Students registering for 8 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 3 credit hours or fewer per session. Full-time student fees will be assessed for more than 3 credit hours per session.

For residency guidelines, see the admission section of the catalog.

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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, 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 on the website.

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 Office, Financial Aid Office, Cashier's Office, and the Accounts Receivable Office, or on the college's website.

The Board of Trustees, 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 where 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:

Past-Due Balance	Charge
\$ 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 Office. If the student subsequently pays the bill and requests reinstatement of course credits and grades after financial termination, 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 OR OFFICIAL WITHDRAWAL**

#### **Adding and Dropping:**

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 which 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 may be found on the Fort Lewis College web site.

#### **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**

Information regarding Official Withdrawal From College can be seen in its entirety elsewhere in this catalog. Please refer to the Academic/Campus Policies Section. This

information is also available electronically under “Withdraw from Current Term” in the Registration Menu in WEBOPUS and also under “Your Right To Know” on Fort Lewis College’s homepage at [www.fortlewis.edu](http://www.fortlewis.edu).

### **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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## Women's Studies

### **WS 101S      Intro to Women's Studies**

**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. (4-0)

### **WS 280      Issues in Women's Health**

**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. (4-0)

**Prerequisite:** WS 101

### **WS 301      Feminist Studies: Theory & Methods**

**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. (4-0)

**Prerequisites:** (COMP 150 OR COMP 126 OR COMP 250 )  
AND (LIB 150 OR equivalent)

### **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. See notes in Women's Studies curriculum.

**Prerequisite:** WS 101

### **WS 332      Women in American History**

**4**

An analysis of women's experience from the colonial period to the present. Focusing on the way gender has been defined 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. (4-0)

**Prerequisite:** HIST 280 OR HIST 281

### **WS 351      Gender and Work**

**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. (4-0)

**Prerequisites:** LIB 150 AND (COMP 150 OR COMP 126 OR  
COMP 250 )

### **WS 355      Anthropology of Gender**

**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. (4-0)

**Prerequisite:** ANTH 210 OR WS 101

**WS 365      Women and Development      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. (3-0)

**WS 366      Women, Art and Visual Culture      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 is the same course as Art 366.

**WS 495      WS Senior Seminar      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. (2-0)

# Women's Studies Minor

Coordinator- Jennifer A. Gehrman

Professors - Kathleen S. Fine-Dare, and Doreen Hunter;

Associate Professors - James K. Ash, Alane S. Brown,

Janine M. Fitzgerald, Jennifer A. Gehrman, Kathryn S. Moller, Jan E. Sallinger-McBride, and

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:

### I. CORE COURSES (10 credit hours)

**WS 101S	Introduction to Women's Studies	4
WS 301	Feminist Studies: Theories and Methods	
	OR	
WS 332	Women in American History	4
WS 495	Capstone Colloquium in Women's Studies	
	OR	
WS 499	Individualized Study	2
<b>Total</b>		<b>10</b>

### 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: Anth 316 Internship in Anthropology; BA 437 Internship in Business; Engl 258/358 Service Learning Practicum in English; and ES 450 Internship Exercise Specialist. 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
Anth 355 Anthropology of Gender (same as WS 355; a student may receive credit for only one of these courses)	4

### English

**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, etc.)	4

### History

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 368 Medieval Women	4

### Modern Languages

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

### Philosophy

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

### Psychology

Psyc 270 Psychology of Gender	4
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### Sociology

**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

**TOTAL REQUIRED FOR WOMENS STUDIES MINOR 19-24**

# Writing Program

Acting Director - Bridget Irish  
Associate Professor - Carol L. Smith;  
Assistant Professor - Shawn Fullmer;  
Visiting Instructors - Molly C. Costello, Ann Hartney, Bridget Irish, and Susan Palko-Schraa.  
Writing Specialist - Ana Hale

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 and Writing in College. 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 TRS 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 TRS 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:

Acc 323W Intermediate Accounting I	4
Acc 324W Intermediate Accounting II	4
Acc 430W Income Tax Accounting	4

Acc 436W Auditing – Theory and Practice	4	
Anth 303W Anthropological Debates	4	
Art 385W Process, Theory, and Criticism		4
Bio 380W Issues in Evolution and Biological Thought	4	
BA 302W Human Resource Management	4	
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 446W Marketing Research		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 301W Foundations for Advanced Math	4	
ML 301W French Composition and Syntax	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	3	
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 279W Ethnicity, Gender, Class in SW		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.

## 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 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.