

Fort Lewis A&M College



DURANGO • COLORADO

The Trimester College of the Rocky Mountain West

GENERAL CATALOG
1962-1963 • 1963-1964

Trimester Academic Calendar

1962-63

FALL TRIMESTER

September

4 (Tuesday)..... Assignment of on-campus housing

5 (Wednesday)..... Classes begin for the fall trimester

November

22, 23, 24 and 25

(Thursday through Sunday)..... Thanksgiving holiday

December

17 (Monday)..... Last day of classes for the fall trimester

18 (Tuesday)..... Examinations begin for the fall trimester

WINTER TRIMESTER

January

7 (Monday)..... Classes begin for the winter trimester

April

17 (Wednesday)..... Last day of classes for the winter trimester

18 (Thursday)..... Examinations begin for the winter trimester

SPRING TRIMESTER

April

29 (Monday)..... Classes begin for the spring trimester

July

4 (Thursday)..... Independence Day holiday

August

7 (Wednesday)..... Last day of classes for the spring trimester

8 (Thursday)..... Examinations begin for the spring trimester

SUMMER SCHOOL — 1963*

June

17 (Monday)..... Classes begin for the 8-week Summer School

August

10 (Saturday)..... Last day of the Summer School

* Students interested in enrolling for the Summer School should write to the Director of Admissions and Records for the Summer School Bulletin.

FORT LEWIS
A & M
COLLEGE

DURANGO, COLORADO

*The Trimester College
of the Rocky Mountain West*

GENERAL CATALOG FOR 1962-63 AND 1963-64

April, 1962

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President's Greetings

The necessity of earning a college degree as a prerequisite for your future success, happiness, and usefulness increases daily. In the United States where one-fourth of the people are college graduates, it is easy to see what will happen to the young man who has not received a college education. Competition for promotions into positions of leadership and influence will surely demand the baccalaureate degree.

Your decision to pursue a college education is perhaps the most important one that has confronted you. It is of great consequence to you personally and to society. You are living in an America which is the center of the arts, a great leader in scientific achievement, and a great world power. You must prepare for leadership therein. You will also have more leisure time for the enjoyment of the cultural heritage of America and to participate in the many types of creative recreation.

This bulletin has been designed to assist you in planning wisely for your future schooling, with specific reference to the educational program offered by Fort Lewis A & M College. In it you will find information, prepared by experts, on such subjects as the following:

Courses offered at Fort Lewis
A & M College

Selecting a college major field
of study

Cost of attending

Part-time work opportunities
Living accommodations

The student-activity program
Counseling service

Scholarships and loans

No single bulletin can answer all of your questions. The College maintains counseling and adviser services that are available to you now and throughout your college career.

You are invited to visit the campus during the spring or summer preceding the opening of college, to avail yourself of any assistance our staff can give you in connection with your college plans.

Program of Year 'Round Education:

The College made the decision to pioneer year 'round education in Colorado, using the flexible trimester calendar, because of the impressive advantages to students. Under the trimester calendar the College is in full session for three equal terms of fifteen weeks, each the equivalent in content to a semester.

The trimester decision was predicated upon several convictions. Every student deserves the opportunity to obtain both a liberal and a professional education in fewer years than has been customary. This requires both a speed-up and some sacrifice of vacation, but many students are eager and mature enough to undertake fruitful study eleven months of the year. The trimester plan makes this possible. Yet students still are free to choose whatever combination of terms seems most practical. It is elastic enough to provide periods free for work to the student who must earn part of his expenses. Students are encouraged to expedite earning the baccalaureate degree by continuing for eight trimesters consecutively, thereby completing their program of study in less than three calendar years rather than in the orthodox four years. This makes it possible for the student to embark upon his career a full year earlier.

Ample vacation periods are provided each trimester, including two weeks at Christmas, a short break at Easter and approximately a full month between the end of the summer term and the beginning of the fall trimester.

Time is of the essence. Time is an important natural resource. Time is the one thing that you have only so much of. Utilize it carefully. Add a full year to the most productive years of your life by expediting your formal education. Take full advantage of this new and exciting program of year 'round education. Your opportunities are unusual and great. The faculty and staff of Fort Lewis A & M College will do everything we can to help you. Before you lies a thrilling experience and challenge—if you are capable of meeting it.

CHARLES DALE REA
President

**ACCREDITATION BY THE NORTH CENTRAL
ASSOCIATION OF COLLEGES AND
SECONDARY SCHOOLS**

The lower-division undergraduate program of the College is accredited by the North Central Association of Colleges and Secondary Schools. Accreditation of the baccalaureate degree curriculum is pending.

CREDIT

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Contents

	<i>Page</i>
The Liberal Arts College	1
The Trimester Academic Calendar	5
The Past and Present of Fort Lewis A & M College	7
Services to Students	9
Admission, Academic and Graduation Information	27
Costs	51
The Program of Study	57
The Register	123
Index	129



The Liberal Arts College

Fort Lewis A & M College is a baccalaureate-degree-granting, liberal arts college.

The purpose of a liberal arts college, as defined by this institution, is to train young people to think, to reason, to distinguish between the worthwhile and lasting on one hand and the useless and transient on the other. The liberal arts program is designed to help the student live a good and useful life all the rest of his life—and thus, his liberal arts training has a greater influence upon him ten or twenty years after his graduation than the day after graduation.

Our definition of “liberal arts” is somewhat wider than a strict definition that would limit the program to concentration in the classics and in the languages.

Fort Lewis A & M College expects its students to be soundly grounded in all phases of the liberal arts, but it also expects them to receive enough training in their special areas of interest to qualify them for securing and holding good jobs upon graduation.

The thinking, reasoning student thinks and reasons best, of course, when he has the facts upon which to base sound judgments, and many of the courses at Fort Lewis A & M College closely resemble those “fact” courses found at other institutions of higher learning.

The educational philosophy at Fort Lewis A & M College is thus two-fold: (1) To train young people for gainful employment or for graduate study, and (2) to train young people to enjoy life to the fullest and to assume willingly the responsibilities of twentieth century democracy.

Two specific parts of the Fort Lewis A & M College program demonstrate its liberal arts nature: (1) Every student, regardless of his major, will be required to satisfactorily complete 24 trimester hours (equivalent to 24 semester hours) of hard-discipline core courses, and (2) every student, regardless of his major, will be required to complete, as electives, a considerable number of liberal arts or humanities courses to fill out his program.



On campus, the emphasis will be on logical thinking, the development of an individual philosophy of life, availability of strong classroom lectures, the cultural aspects of college life, independent study and research, and extensive outside reading and report-writing.

The main business of the College continues to be teaching—teaching first of all in classroom and laboratory, but secondly through continued out-of-class contacts between administration-faculty and students and through projects and programs conceived, financed, and carried out by the students themselves.

For the present and for the foreseeable future, then, the function of the College will be to:

1. Provide educational opportunities for the person who will enter upon employment or graduate school upon graduation, but provide these opportunities within the framework of a strong liberal arts orientation.

2. Train the graduate to know one subject very well, plus having a grasp of the principles of all the major divisions of human studies and a rigorous basic training in several different disciplines.

3. Serve directly the educational needs of the residents of the state and of those out-of-state students accepted at the College, recognizing that the majority have need of the baccalaureate degree programs, but that some will require two-year preparatory programs (such as in forestry, engineering, and agriculture) and others a two-year terminal program (secretarial science).

4. Become the cultural center for the San Juan Basin in Colorado.

5. Provide educational leadership in the San Juan Basin and experimental, educational leadership in the state of Colorado.





The Trimester Academic Calendar

Fort Lewis A & M College is one of the few colleges and universities in the nation and the first in Colorado to operate year 'round.

Year 'round education is being provided within the frame-work of a trimester academic calendar.

The academic year is divided into three 15-week trimesters, each providing approximately 75 days in the classroom plus an examination period at the close of each term. The credit hours earned in a given trimester thus equal those earned in a semester at an orthodox institution. Class periods at Fort Lewis A & M College are 55 minutes in length, rather than the customary 50 minutes.

At Fort Lewis A & M College, the fall trimester begins very early in September and ends before the beginning of the Christmas vacation in December. The second or winter trimester begins early in January and ends the third week in April. The spring trimester begins late in April and ends the first week in August.

There is a mid-summer Summer School. It is designed for June high school graduates who wish to begin their college careers early or to remove deficiencies and thus be better prepared for the fall trimester, and for any other persons wishing to attend summer school.

Students are encouraged to attend Fort Lewis A & M College year 'round by enrolling three trimesters each academic year, and thus graduate with the bachelor's degree in less than three calendar years. Students may, however, attend only two trimesters each academic year if they so desire.

The Trimester Academic Calendar for 1962-63 is shown inside the front cover of this catalog. The Calendar for the following year is shown inside the back cover.



The Past and Present of Fort Lewis A & M College

Few colleges in the nation have a more colorful history than that of Fort Lewis A & M College.

The history of the College goes back to 1880. In that year, Lt. R. E. A. Crofton, with five companies of the 13th Infantry Regiment and one hundred government wagons, arrived in a beautiful valley seventeen miles west of Durango, Colorado, and started construction of Fort Lewis.

From 1880 to 1891, Fort Lewis was known as a cavalry post.

With the departure of troops from the fort, the federal government established an Indian school there, using the land and buildings of the military reservation for this purpose. In 1911 the large tract of land and the army post were transferred from federal to state ownership; the Indian school was terminated at that time, and a vocational high school and, finally, a college established there. College courses were offered in 1927 and exclusively since 1933. First a branch of Colorado A & M College (now C.S.U.), Fort Lewis College became independent in 1948 and continues to be administered by the State Board of Agriculture.

In 1956 Fort Lewis A & M College moved to a new campus on College Heights in Durango, Colorado. The site of the old fort is retained by the College.

Beginning in September, 1962, Fort Lewis A & M College will offer upper-division work leading to the Bachelor of Arts and the Bachelor of Science degrees. The funding of the new program was approved during the winter of 1962 by overwhelming majorities of both houses of the Colorado General Assembly.

Dr. Charles Dale Rea has served as President of the College since 1949. Earlier administrators included: Mr. G. F. Snyder, first Dean, who served until his death in 1934; Mr. E. H. Bader, Dean from 1935 until 1948; and Mr. Charles W. McLain, Acting Dean until the appointment of Dr. Rea as the first President.



Services to Students

One of the greatest services Fort Lewis A & M College has provided for its students is to have located the new campus in an area unmatched for beauty and then to have constructed adequate academic and residence buildings for young people.

THE COLLEGE SETTING

Fort Lewis A & M College is located on a high mesa overlooking the city of Durango. The towering La Plata and San Juan Mountains lie to the west and north. The scene from the mesa rim-road that circles the College campus is one of the most spectacular in the nation, affording a striking view of the mountains, the city of Durango, and the Animas River valley.

The whole magnificent Southwest country is marked with high mountain peaks, forest areas, swiftly-moving mountain streams, and green valleys.

Forty miles from Durango is Mesa Verde National Park; the most famous prehistoric cliff dwellings in the United States are located here. Nearby in Northern New Mexico are the Aztec Ruins National Monument and the Chaco Canyon National Monument, both prehistoric sites. Near these is Shiprock, a vast rocky spire that rises abruptly from the desert floor. Indian reservations of the Navajo, Apache, Ute, and other tribes are located throughout the area.

A new highway brings the Four Corners Marker to within eighty-five miles of the Fort Lewis A & M College campus. It is the only point in the United States where four states meet.

The Great Sand Dunes National Monument and the Black Canyon of the Gunnison National Monument are located at a somewhat greater distance from the campus, the latter being reached over the Million Dollar Highway between Silverton and Ouray, one of the most spectacular scenic drives in the United States.

Nearby in Southwestern Utah are the Natural Bridges National Monument and the Rainbow Bridge National Monument. An easy trip into Arizona brings one to the Canyon de Chelly National Park, with its prehistoric cliff dwellings, and finally to the Grand Canyon National Park and Glen Canyon Dam.



The Fort Lewis A & M College Trimester Calendar, which provides for year 'round education, makes more significant this beautiful setting. Many students will be attending the spring trimester (April to August) and will be in the Southwest when the country is the most beautiful and when driving is the most pleasant.

The natural setting surrounding the College provides some of the finest trout fishing, hunting, skiing, swimming and mountain climbing opportunities to be found near any college campus.

The city golf course borders the campus on one side, the city ski tow on another. Picnic grounds are located in the area. These recreational facilities are available to students of Fort Lewis A & M College. The campus is only a few blocks from the central business section of Durango. In the city are located theatres, a number of nice restaurants, a new swimming pool, a bowling alley, and a roller skating rink.

COLLEGE FACILITIES

Fort Lewis A & M College moved into new facilities on College Heights in Durango in September, 1956. The campus, consisting of 140 acres, is a place of dramatic beauty. The style of architecture is distinctive; native stone, quarried near-by, and wide expanses of glass are featured in the buildings. The College has often been said to have "the most beautiful campus in the West."

Following are the main buildings; their titles indicate their chief function: Academic Building, Fine Arts Building, Gymnasium, T. Chase McPherson Memorial Chapel, Raman A. Miller Memorial Student Center, Alfred McNeil Camp Residence Hall and three other men's residence halls, two women's residence halls, thirty-two married-student apartments, the President's home, homes for the Auxiliary Services Manager and the groundskeeper, and service buildings.

Soon to be constructed are a science wing addition to the Academic Building, an addition to the Fine Arts Building, and a magnificent two-hundred-bed women's dormitory.

The College retains the 6,318-acre tract on which the old Fort Lewis was located. A portion of it is leased to Colorado State University for agricultural research and experimentation.

FINANCIAL AND OTHER SERVICES

The student services program of Fort Lewis A & M College is designed to integrate and supplement the academic program of year 'round education. The basic policy of the College is to provide an atmosphere of study and learning wherein all experiences can

The Student Lounge looks out on the magnificent La Plata Mountains.





T. Chase McPherson Memorial Chapel

become truly a learning situation. The student services program is designed to meet the needs of the student outside the classroom and laboratory. Coordination and planning of student services is centered in the office of the Dean of Students.

Most students will make the campus their "home away from home" for a period of at least three years. All the varied programs of student services are planned as a part of the total function of education and are available on a continuous basis.

Extracurricular activities are varied and are designed to meet the physical and recreational needs of all students. The physical, social and cultural development of the individual is carefully considered in planning these activities.

A student is encouraged to enter into an extracurricular activity of his choice. Attendance at the social, cultural, and athletic events of the College will serve to enrich the individual student's life.

STUDENT FINANCIAL AIDS

A number of scholarships and grants are available to students of Fort Lewis A & M College. Application should be sent to the

chairman of the Student Financial Aids Committee by April 1 of each year so that awards may be presented at high school commencement exercises. Most scholarships and grants cover tuition expenses.

Grades of scholarship recipients will be reviewed by the Student Financial Aids Committee at the end of each trimester.

Joint Honor Scholarships: Fort Lewis A & M College is a participating institution in the Joint Honor Scholarship plan, and the scholarships are honored by the College. To be eligible for the scholarships, students must rank in the upper 25 percent of their graduating class and must have attained a qualifying score on the Colorado Scholarship Test.

These scholarships are awarded for a period of eight semesters or trimesters, with the recipient being able to transfer at the end of any period to any other participating institution if he is eligible to retain his scholarship.

To retain the Joint-Honor Scholarship, a recipient must attain a 2.50 scholastic average for the first trimester of the freshman year, and a 2.75 grade-point average for each subsequent trimester.

Recognition-of-Merit Scholarships: A student to be qualified for a Recognition-of-Merit Scholarship must have ranked in the upper one-third of his class, must have demonstrated the capacity



for leadership through activity participation, and should have the recommendation of his high school principal or superintendent.

Scholarship recipients must attain a 2.50 scholastic average for the first trimester of the freshman year, and a 2.75 grade-point average for each subsequent trimester in order to retain the scholarship.

Athletic Grants: A number of Athletic Grants are awarded each year to students who have demonstrated particular ability in the field of athletics. These grant recipients must attain a 1.75 scholastic average for the first trimester in attendance, and maintain a 2.00 grade-point average in all subsequent trimesters.

Educational Grants: Educational Grants are available and are awarded on the basis of leadership, satisfactory scholarship, and actual need. Recipients must attain a 2.00 scholastic average during the first trimester of the freshman year, and a 2.25 grade-point average in subsequent trimesters to retain the grant.

Music Grants: Music Grants are awarded to deserving students who have demonstrated particular ability in the field of music. To retain a music grant the recipient must maintain a 2.00 grade-point average each trimester in attendance.





Much of the contact between students and faculty takes place outside the classroom and is marked by informality.

Sponsored Grants-in-Aid: Various clubs, fraternal organizations, business firms, and interested individuals sponsor worthy high school graduates to Fort Lewis A & M College. Most awards cover tuition; several cover tuition, fees and basic textbooks. These grants-in-aid are awarded on the basis of need, academic leadership, and all-around ability. The names of students who do not make satisfactory academic progress will be referred to their grants-in-aid sponsors with a recommendation that the student be dropped from future sponsorship.

Loan Funds: Six funds have been established to give assistance to needy students: The Snyder Memorial Loan Fund, the Marie Ochsner Memorial Loan Fund, the Fort Lewis Alumni Loan Fund, the Business and Professional Women's Loan Fund, the Durango Kiwanis Club Loan Fund and the Marian Hallock Memorial Loan Fund. The consolidation of all loan funds is referred to as the Fort Lewis Loan Fund. Individual loans are limited to a maximum of \$100. Adult co-signers are required for all loans in excess of \$15. First-time students are not able to borrow from the loan funds

until they have successfully completed one trimester or the Summer School. Applications should be sent to the Dean of Students.

Fort Lewis A & M College is a participating institution in the National Defense Student Loan Program. The National Defense Student Loan Program was authorized by the enactment of Public Law 85-864, the National Defense Education Act of 1958. It is one of the several programs in this act designed "To identify and educate more of the talent of our nation" and "to insure trained manpower of sufficient quality and quantity to meet the National defense needs of the United States."

High school students interested in acquiring more information concerning the National Defense Student Loan Program should contact their principal or guidance counselor or write to the Dean of Students, Fort Lewis A & M College. A student enrolled in a participating institution should consult the Dean of Students at that institution.

Loan applications should be secured from the appropriate official of the participating institution. They are *not* available from the U. S. Office of Education.



LIVING ACCOMMODATIONS

Extensive housing facilities are provided on campus for both single and married students. The residence halls are furnished with the essential furniture, bedding and linens, with the exception of pillows. Radios, table lamps, rugs and other supplemental furnishings must be provided by the students. Rules of occupancy for each residence hall must be adhered to.

All freshman women not living at home are required to live in the College residence halls. Upperclass women not living at home are required to live in the College residence halls unless granted special permission by the Dean of Students to live off-campus. Women students are not permitted to live in apartments.

Residence Halls for Women: Women students are housed in two attractive two-story buildings, each accommodating sixty students. Each hall is connected to the Raman A. Miller Memorial Student Center by a covered arcade. Laundry and storage facilities are located in each hall. A new 192-unit women's dormitory will be ready for occupancy in the late summer of 1963.

Residence Halls for Men: Living accommodations for men are provided in four dormitories. Each dormitory houses sixty students. These units are handsome two-story buildings connected to the

Alfred McNeil Camp Residence Hall — one of four men's residence halls



student center by an arcade. Laundry and storage facilities are available in each building.

Housing for Married Students: A thirty-two unit housing project, recently constructed, provides attractive wholesome quarters for married students. These apartments are located on the northeast corner of the campus on landscaped lots. Each unit is furnished with the essential bedroom furniture, stoves and refrigerators.

Application for Student Housing: All inquiries and applications for dormitory housing or married-student housing should be sent to the Director of Housing, Fort Lewis A & M College. Final assignment for college housing will not be made until after the student has been accepted for admission to the College. Acceptance for housing does not constitute acceptance for admission to the College.

Off-Campus Housing: A limited amount of College-approved housing is available in the city of Durango. Because of the additional expense and transportation students are not encouraged to seek off-campus housing as long as dormitory space is available. Students not living in the College Residence Halls must live in College-approved housing. Although College residence hall rules and regulations apply to off-campus housing, the arrangements for such housing is a private agreement between the landlord and the

Raman A. Miller Memorial Student Center





A married-student's apartment

student. The College endeavors to protect the student against exploitation in his arrangements for off-campus housing, but offers no guarantee against such actions. An approved up-to-date list of housing in the City of Durango is maintained by the Director of Housing.

STUDENT CENTER

The social and recreational life of the student is centered in the Raman A. Miller Memorial Student Center. This inviting, two-story structure houses the dining room and kitchen facilities, snack bar, the game room, and the Student Lounge.

The Student Lounge is furnished in a modern motif, providing a place where the student can find quiet, listen to music, or watch TV.

Pool, ping-pong, and other recreational activities are provided at modest cost in the game room.

The dining facilities are under lease to Saga Food Service, Inc. This arrangement brings to the College a nation-wide firm with proven competency in the food-handling service. Attractive, well-balanced meals are served. All dormitory resident students are required to take their meals in the College dining hall.



The snack bar

The College bookstore is also located in the Student Center. Here may be purchased all necessary books and supplies as well as many personal items.

STUDENT HEALTH SERVICES

Facilities are provided on campus for a resident nurse to render out-patient and emergency treatment, including first aid, cold treatment, and immunization shots. Office hours for student health services are scheduled on a daily basis.

In addition to the services of a resident nurse rendering out-patient treatment on campus, the College also retains two physicians. Contact with the physicians retained by the College is made by the resident nurse.

To provide complete coverage, all full-time students are required to participate in a compulsory accident and health insurance program. The student accident and health insurance is underwritten by a nationally known insurance carrier. The plan protects students of Fort Lewis A & M College 24 hours a day at home, at school, or while traveling during the academic school year. Coverage is provided for accidents occurring and sickness contracted and commencing while the insurance is effective.

Athletes who engage in intercollegiate sports participate in an insurance program recommended by the College and by an athletic association. The athlete is insured up to \$5,000 for each injury incurred while engaged in recognized competition or while traveling to and from such a contest. This insurance policy carries a \$250 deductible clause. Used in conjunction with the policy mentioned above, it affords maximum protection to those students engaged in athletic competition.

PLACEMENT SERVICE

The end result of education is satisfactory and successful employment, and the Dean of Students and the Director of Admissions and Records coordinate a placement service to help the graduate obtain a good job. Students who are interested in obtaining help with employment after graduation should register with the Placement Bureau at least one term before they expect to graduate.

Students who need to work part time during their attendance at Fort Lewis A & M College are afforded various opportunities on campus and off campus. Jobs are available in the College Dining Hall, Library, laboratories, the recreation hall, and in the community. Applications are not taken until after the student has completed his registration.

Students should direct applications and questions to the Dean of Students.

MAIL SERVICE

A complete post office is maintained in the student center for the convenience of the students.

Students living on-campus will have their mail delivered to individual postal boxes in the dormitories. Students living off-campus must obtain a postal box at the post office. A charge of .50 per trimester will be made for this service.

STUDENT GOVERNMENT

All students enrolled for nine or more hours are automatically members of the Associated Students of Fort Lewis A & M College. All social and recreational activities are centered in the nucleus of the student body. Social activities planned by the several student committees are diversified, including formal and informal dances, parties, picnics, and other traditional affairs.

The Constitution of the Associated Student Body provides for the organization and chartering of the several student clubs and societies. To be a formal part of the associated student government structure, each club or organization must meet certain well-defined criteria.

The Student Senate is the governing body of the Associated Students of Fort Lewis A & M College. The student body President, elected in the spring of each year, is the presiding officer of the Student Senate.

The Student Senate is a legislative body acting on all matters pertaining to student government. One of the more important functions of the Student Senate is to adopt the Student Affairs Budget after it has been prepared by the Student Budget Committee.

STUDENT ORGANIZATIONS

All student organizations, including the Student Senate, must have either a faculty adviser or sponsor.

Westerners' Club: The Westerners' Club is open to all students interested in activities of a western nature. The Club also sponsors square dances on the campus.

Engineering Society: The Engineering Society is open to all students in engineering. The club is semi-professional in nature,



centering its activities around engineering events. The highlight of the year for the Engineering Society is the annual Engineering Days.

Dramatics Club: The Dramatics Club is open to all students. Plays are given throughout the year. Participants not only develop their acting abilities, but also learn some principles of costuming, stage design, and make-up.

Band: Membership in the College band, which makes several public appearances during the school year, is open to all students who are interested and sufficiently advanced in any band instrument.

Chorus: The chorus presents frequent programs of varied interest during the school year, and membership is open to all interested and qualified students. During the year the chorus makes a tour of the San Juan Basin.

Cadet: The Cadet is the Fort Lewis A & M College yearbook; it is published by a staff of students. Staff members receive practical experience in planning, writing and editing, and in the selling of advertising.

Smoke Signals: The official Fort Lewis A & M College newspaper is edited weekly by the students. It provides practical experience in journalism for staff members.

G. I. Club: A service club which is open to all former members of the armed services.

Letterman's Club: The "A" Club is open to all students who are eligible to receive letters through participation in intercollegiate athletics. During the year they assist in conducting all athletic activities. The "A" Club operates the concession stands for all public sports events.

Pep Club: The Pep Club is open to all women in the associated student body. The drill team is an inner organization of the Pep Club.

Ski Club: The Ski Club is open to all students interested in skiing. The Club makes good use of the several major ski runs in the Durango area.

Intercollegiate Knights: The Intercollegiate Knights is a service club dedicated to continuing service to the College.

Radio Club: The Radio Club is open to all students interested in this activity. The Club operates the campus radio station KFLC.



The gymnasium

INTERCOLLEGIATE ATHLETICS

Fort Lewis A & M College has a complete men's intercollegiate athletic program and fields teams in the following sports: football, basketball, track, tennis, wrestling, golf, and gymnastics. All teams with the exception of football compete against four-year colleges in the Rocky Mountain and Southwestern areas.

The football team during the 1962 season will compete against junior colleges, and beginning in 1963 will compete on the four-year college level.

Fort Lewis A & M College will apply for admission to a four-year athletic conference in the Rocky Mountain region during the 1962-63 school year.

INTRAMURAL ATHLETICS

A complete intramural athletic program is offered at Fort Lewis A & M College. The following activities are provided: Flag football, basketball, softball, track and field, tennis, golf, volleyball, badminton, gymnastics, and wrestling.

All men students are urged to participate in the year 'round intramural program.

RELIGIOUS ORGANIZATIONS

Campus religious activities are centered around the T. Chase McPherson Memorial Chapel, a non-denominational chapel located

on the west side of the College area. Fort Lewis A & M College recognizes the importance of continued religious training. Students are encouraged to attend the church of their choice within the city of Durango. Most denominations are represented within the community. Several churches conduct services in the T. Chase McPherson Memorial Chapel during the school year.

A Religious Affairs Committee is appointed each year to coordinate the campus church activities with the Durango Ministerial Alliance.

The Deseret Club is an organization of students adhering to the standards of the Church of Jesus Christ of Latter-Day Saints and fosters the social and religious activities of its members.

The Newman Club is an organization of Roman Catholic students whose purpose is to promote the religious life of its members.

The Interdenominational Christian Youth Group is an organization that is open to all students of the Christian faith. Its purpose is to help the student lead a better Christian life while on campus. It conducts occasional chapel services, panel discussions, and social activities.

An integrated relationship with the Parish of St. Mark's, the service of Holy Communion each Wednesday in the College Chapel, and the Canterbury Club are available for the church life of the Episcopal student. The chaplain appoints one layman from St. Mark's to the Religious Affairs Committee of Fort Lewis A & M College.

THE SERVICE OF MAINTAINING DISCIPLINE

The College expects that students will conform to the recognized standards of order, morality, and good conduct, and that they will give serious attention to their college work. Students who are disorderly in conduct are subject to disciplinary action and may be asked by the Disciplinary Committee or the Dean of Students to leave the College. Proper safeguards are provided through a system of appeals to assure that a student will not be arbitrarily suspended or dismissed. A grade of "F" will be given in the courses carried by a student who is suspended or dismissed for disciplinary reasons, and fees paid will not be refunded.



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Admission, Academic and Graduation Information

ADMISSION AND REGISTRATION INFORMATION

ADMISSION PHILOSOPHY

Fort Lewis A & M College has established its admissions policy in relation to the purposes of the College and the type of student it expects to attract.

Two tenets of the College's philosophy are that Fort Lewis A & M College be a liberal arts college of quality and that it further develop the atmosphere and ideals of a small college.

Admission to Fort Lewis A & M College is, therefore, selective, and students are accepted on the basis of demonstrated capacity and desire to pursue college studies successfully.

If the applicant meets the basic entrance requirements, his capacity for successful undergraduate work is determined primarily from approved high school records, including rank in class, recommendations from secondary school administrative officers, and scores in standard tests. Other qualifications considered are character, maturity, health, and participation in extracurricular activities.

The College welcomes students who have shown superior and outstanding competence in their academic preparatory studies as well as the student with an average high school record. The College believes that a student body composed of a variety of abilities and temperaments makes an excellent environment for the pursuit of higher education.

In an effort to fully serve the student, the admission of a student begins with pre-college counseling.

PRE-COLLEGE COUNSELING

Proper pre-college counseling supplements the high school guidance program. Even outstanding high school counselors find it difficult to adequately know the characteristics of the student body of a particular college and its specific curricular requirements and programs. The college admissions counselor is an answer to this



A student assembly

problem and is a great service to the student, parent, and the high school. The student should be either encouraged or discouraged, dependent on whether the college has an adequate program to meet the needs, interests, and abilities of the student. For instance, a capable student who is shy and probably will need individual attention should be encouraged to attend a small college.

Through pre-college counseling, the College Admissions Office personally is able to gain valuable information about the student. Such information is indispensable in order for a student to obtain actual admission, proper room assignments, assistance with personal problems, and financial aid if necessary.

HOW AND WHEN TO APPLY

After the student has studied the requirements for admission, he should write to the Director of Admissions and Records for application forms. In Colorado the student should ask his high school guidance counselor for the application form. This request should be made as far as possible in advance of the date the student wishes to enroll at the college. Even a year in advance is not too early. At the

very latest, students wishing to enter in the April trimester or in the Summer School should apply by March 1, and those wishing to enroll in the September trimester should apply by July 1. Where vacancies exist, applications for the September trimester may be accepted until August 1.

A candidate must submit an application for admission. Applicants should return the completed form accompanied by the \$5 non-refundable application fee.

If you are transferring from another college, you must request your registrar to forward a copy of your transcript to Fort Lewis College.

No final admission can be rendered until all required credentials, recommendations, and fees have been received.

Provisional acceptance will be given on three and one-half years of high school work and on the list of courses "in progress."

All applicants must submit a completed application for admission and a health record form.

To be eligible for admission to Fort Lewis A & M College a student must meet the established admission requirements.

ADMISSION OF FIRST-TIME COLLEGE STUDENTS

Applications for admission of graduates of accredited and non-accredited high schools will be examined on the basis listed below. Students from non-accredited high schools should expect to demonstrate particularly high past achievement and/or have particularly strong recommendations.

1. Graduation from a high school with a minimum of 15 secondary school units (grades 9 - 12).
2. Of the 15 units required, 10 must be chosen from the following academic fields: English, foreign languages, mathematics, science, and social studies, and include not fewer than 3 units of English.
3. Rank in the upper two-thirds of graduating class with high school recommendation.
4. Applicants who rank in the lowest one-third of their high school class may be given qualified admission on the basis of the American College Test, recommendation of high school

counselor or principal, and supplemental information, or be allowed to enroll in the Summer School. (Write to the Director of the Summer School for the necessary Bulletin.)

5. Students who expect to enroll for pre-engineering courses are urged to complete the following pattern of studies and obtain a satisfactory score on the American College Test: English—3 units; mathematics—3½ units; chemistry, physics, and social studies—1 unit each.

Students not having the necessary English and mathematics background will be required to take remedial courses.

ADMISSION OF FORMER STUDENTS

Former students of the College, returning after an absence of more than one trimester, are to apply for readmission. Students seeking readmission who have attended other collegiate institutions in the interval, are required to file complete transcripts of work earned at those colleges.

ADMISSION OF TRANSFER STUDENTS

Applicants with a cumulative scholastic average of "C" and honorable dismissal from other colleges and universities will be admitted to Fort Lewis A & M College.

A student ineligible to return to the college that he last attended will not be admitted to Fort Lewis A & M College. Others who have remained out of college following suspension, have been placed on probation, or have a record of low grades from another institution may be denied admission or admitted on probation.

ADMISSION OF PERSONS WHO RESUME THE ACQUIRING OF AN EDUCATION

Veterans or other adults who did not complete high school but who pass the General Educational Development Tests may be admitted as regular students.

Adults who wish to take only a few credit hours, either for credit or non-credit, and who do not expect to work toward a degree, may be admitted as special students under these provisions:

1. Be at least 18 years of age or have been graduated from a high school.
2. A person so registered is subject to all regulations governing registration, attendance, academic standing, and discipline.



*Demonstration
of a low-
temperature
reaction*

ADMISSION OF FOREIGN STUDENTS

Fort Lewis A & M College has been approved by the United States Department of Justice as an institution of higher learning for non-quota immigrant students.

In general, foreign students are required to qualify for admission as other students do. A brief statement of admissions policies pertaining to foreign students may be obtained by writing the Director of Admissions and Records. However, students from foreign institutions, where the English language is not the common mode of communication, will be admitted only at the beginning of the spring trimester or in the Summer School.

EARLY ADMISSION

A limited program in early admission for a selected number of well-qualified high school students is now being administered. Information may be secured by writing the Director of Admissions and Records.

TRANSCRIPT

Each applicant, including the student who seeks readmission to Fort Lewis A & M College, is responsible for the direct transfer of an official transcript of his entire college record; registration cannot be completed until the transcript (or transcripts) is received.



A library corner

Time will be saved by having the Registrar of the college last attended send a transcript, as soon as possible, directly to the Director of Admissions and Records at Fort Lewis A & M College.

An applicant who attended another college is not at liberty to disregard his collegiate record and apply for admission on the basis of his high school record, but must submit his college record. This rule applies even if the student attended another institution for only a brief period; it also applies without regard to whether or not the student wishes credit here for college work done elsewhere.

TRANSFER OF CREDIT

College work completed in another accredited institution with grades of "C" or better may be transferred insofar as the transfer work will fit into the student's curriculum. "D" grades will ordinarily not be accepted. Subject to the grade requirement of "C," work done in an unaccredited institution usually may be transferred in accordance with the policy of the state university of the state in which the unaccredited institution is located.

Subject to the "C" grade requirement, junior college credit (freshman and sophomore levels) will be accepted up to a maximum

of 66 semester hours insofar as the courses will fit into the student's curriculum.

Subject to the "C" grade requirement, extension or correspondence credit may be accepted in transfer up to a maximum of 30 semester hours of which not more than 18 hours may be by correspondence.

A student found guilty of non-disclosure or misrepresentation in completing the admission application will be subject to dismissal from the College.

ACADEMIC PLACEMENT AND A.C.T. TESTS

All new students, except those who have completed successfully at least 24 semester hours credit from an accredited college or university, must have taken the American College Test (A.C.T.) and had the results forwarded to the College. The A.C.T. is used for placement purposes for students who rank in the upper two-thirds of their class. Ordinarily students will be placed in certain courses according to their test results.

No student will be allowed to register until the College has received the results for the American College Test.

High school seniors desiring to attend Fort Lewis A & M College should plan to take the American College Test in November or February. Students must register a month prior to the test date in order to take the A.C.T. Necessary registration materials for the A.C.T. may be obtained from the high school or by writing to A.C.T. Central Registration Unit, 519 West Sheridan Road, McHenry, Illinois. The fee for taking the test is \$3.

REGISTRATION

After the student has been accepted, a permit to register is issued. The College believes that once the student arrives on campus, he should effectively utilize his time by attending classes. **Thus, there are no regular registration days as scheduled by most colleges. Instead, the student is saved time and effort by registering by mail for his classes for the first trimester. This emphasizes the requirement of the American College Test.**

Responsibility rests with the student for the election of such courses as will satisfy the requirements of the College for graduation.

EDUCATIONAL ADVISEMENT

Fort Lewis A & M College, realizing its responsibility to the student, provides a well-qualified educational adviser. This adviser, in cooperation with the Office of Admissions, assists the student in registering for the proper courses. Approximately three weeks after the beginning of the first trimester, the educational adviser begins to discuss with each student his educational plans and objectives. After a thorough discussion, the student, with the assistance of the educational adviser or admissions office personnel, completes his advanced registration for the next trimester or for the next two trimesters.

The Educational Adviser is also available to assist students with personal problems or selecting a vocation or major. In an atmosphere in which the student may express his feelings and thoughts, he is helped by the counselor to gain new insight into his problems and possible solutions.

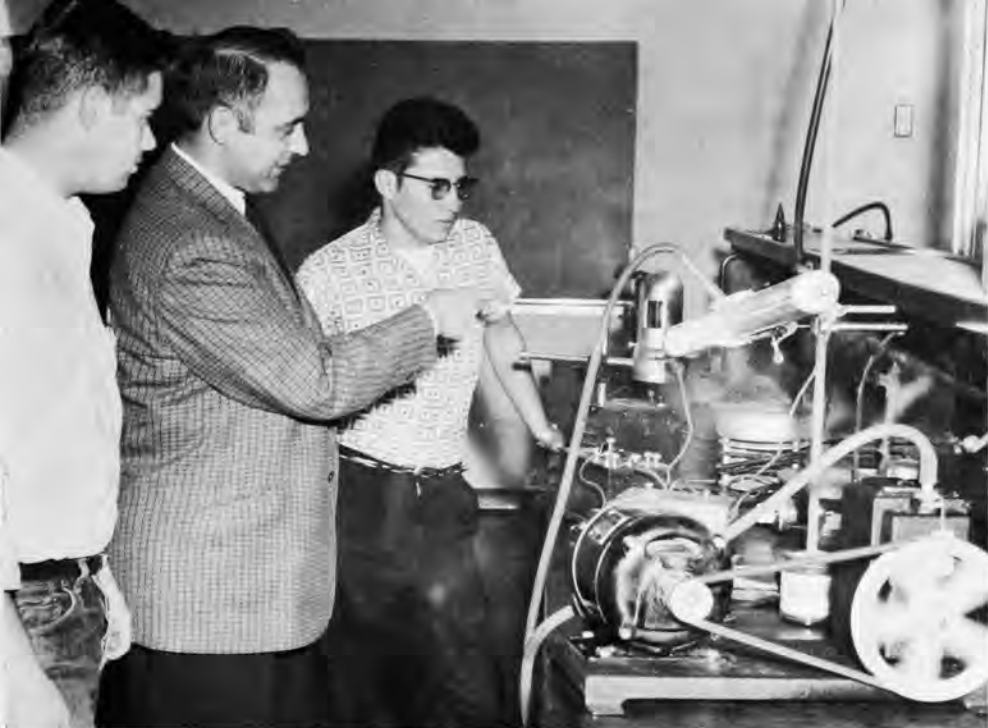
The Educational Adviser maintains a testing service for individuals in order to appraise abilities, interests, or personality characteristics as a step to finding possible solutions to student problems.

RAPID ADVANCEMENT PROGRAM

Exceptional secondary school students residing within commuting distance may be permitted to take limited work in certain fields concurrently with the senior year of high school. Applicants should consult their high school principal for details of the program. Each applicant must have completed 14 units of classwork by the end of his junior year in high school and must secure the recommendation of his principal.

ADVANCED PLACEMENT PROGRAM

Fort Lewis A & M College participates in the Advanced Placement Program of the College Entrance Examination Board. Under this plan, outstanding secondary school students may take certain college-level courses in their own high schools. An examination is administered and graded by the College Board and then forwarded to the college of the applicant's choice. After careful individual consideration, the College may grant appropriate credit toward its own degree, exempt the student from the comparable college course or courses here without degree credit, or refuse both credit and exemption. For further information, the applicant should consult



A chemistry professor explains how a sodium-vapor lamp operates.

his high school guidance counselor or write the College Entrance Examination Board, Box 592, Princeton, New Jersey.

IN-STATE AND OUT-OF-STATE RESIDENCY

Note: These regulations were approved by the Office of the Attorney General of the State of Colorado on July 21, 1961.

Introduction: The following uniform regulations concerning the determination of resident status for tuition purposes have been adopted by the seven state-supported institutions of higher education in Colorado. It is necessary that one basic policy be used in determining in-state status for tuition purposes without regard to the particular campus where a student might be enrolled. These regulations conform to the basic Colorado Statute which relates to classification of students for tuition purposes.*

General Regulations: A student is initially classified as an in-state or out-of-state registrant for tuition purposes at the time he is granted admission. The classification is based upon information furnished by the student and from other relevant sources. After the student's status is determined, it remains unchanged in the absence

* See *Session Laws of Colorado, 1961-62, Chapter 229.*

of satisfactory evidence to the contrary. The student who, due to subsequent events, becomes eligible for in-state tuition may make formal application for change of status.

Qualification for in-state tuition requires both (1) adoption of the state as a fixed and permanent home, and involves personal presence within the state at the time of such adoption, together with the intention of making Colorado the true home; and (2) residing within the state while not attending school for twelve consecutive months immediately prior to the date of enrollment. These requirements must be met by either (a) the father, mother, or guardian of the student who is an unemancipated minor; or (b) the male student or unmarried woman student if over 21; or (c) the husband of a married student; or (d) the emancipated minor. However, a person who has been under an annual teaching contract in a Colorado school or educational institution for a complete academic year of approximately nine months within four months of the time of registration at an institution, and has complied with the obligations of such contract, and paid the Colorado income tax may be classified as an in-state student regardless of age or domicile.

Students who are minors: The residence of an unemancipated minor is that of his father, or if no father, that of his mother, or if



there is a legal guardian of his person, that of such guardian. If the father and mother are legally separated or divorced and one parent has been awarded custody of such minor, the residence for tuition purposes shall be that of such parent. In a case where a court has appointed a guardian or granted custody, it shall be required that the court certify that the primary purpose of such appointment was not to qualify the minor as a resident of this state for tuition purposes.

An unemancipated minor student whose parents move their residence from Colorado to a location outside the state shall be considered to be an out-of-state student from the date of the parents' removal from the state and he shall be assessed non-resident tuition at the next registration.

In the event that a minor claims emancipation he must submit evidence that the parents have entirely surrendered the right to his care, custody, and earnings, and that they are no longer under any duty to support or maintain him. If emancipation is established, the emancipated minor assumes all responsibilities of an adult and must qualify for in-state-tuition status as an adult.

Adult students: The term, adult in-state student, shall mean a student who is twenty-one (21) years of age or over and is (1) one who has resided in Colorado while not attending school for twelve consecutive months or more immediately prior to enrollment, or (2) one whose parents have resided in the state for the required time (or so resided at the time of their death) and who has not himself acquired residence in another state.

General information: No person shall be presumed to have gained or lost in-state status in Colorado while a student or while serving in the armed forces.

A person may be classified as an in-state student even though he is not a citizen of the United States.

The payment of Colorado income tax is highly persuasive evidence of domicile in Colorado. Nonpayment of Colorado income tax by a person whose income is sufficient to be taxed is highly persuasive evidence of non-Colorado domicile.

The residence status of a wife for tuition purposes is assumed to be that of her husband. An out-of-state woman student may

attain in-state status through marriage; an in-state woman student may lose this status through marriage.

Persons whose legal residence is permanently established in Colorado may continue to be classified as in-state students so long as such residence is maintained even though circumstances may require extended absences of said persons from the state.

A student from another state who comes to Colorado and immediately enrolls for a full program, or substantially a full program, in any type of institution of higher learning will be presumed to be here primarily for an education and will be considered not to have established in-state status for tuition purposes. Continued residence in Colorado during vacation periods or occasional periods of interruption to the course of study do not of themselves overcome the presumption.

A student who willfully gives wrong information to evade payment of the out-of-state tuition shall be subject to serious disciplinary action.

ACADEMIC INFORMATION

Educated students will be the leaders of tomorrow, and it is essential that they be allowed to mature as well as gain a broad background of academic knowledge. In this regard, planning for an education calls for a happy blend of guidance and individual choice. Procedures and regulations in effect at Fort Lewis A & M College are designed to help in such planning and in achieving the goals underlying these plans.

STUDENT CLASSIFICATION

Freshman: A student working toward a degree but who has not completed 24 credit hours of college work.

Middle: A student working toward a degree who has completed at least 24 credit hours of college work.

Senior: A student working toward a degree who has completed at least 94 credit hours of college work.

Regular Student: A student who has been admitted in order to study toward a baccalaureate degree.



A student uses a flash evaporator in an organic chemistry laboratory.

Special Student: A student who is admitted for special programs and is not working toward a degree to be awarded at Fort Lewis A & M College.

Unclassified Student: A student who has a temporary classification. He has been admitted as a degree student but cannot immediately be given a class standing for various reasons. When the matter is cleared, such a student becomes a regular student.

CREDIT MEASUREMENT

The unit of measurement for credit purposes is the semester hour since a trimester is equivalent in length to a semester. One semester hour is the equivalent of one hour of recitation, lecture, independent study, or a minimum of two hours laboratory work per week for one trimester unless otherwise specified in the course description.

A student who is generally well qualified for a course can expect to spend two hours outside preparation for every hour of classroom or laboratory attendance. The student with a poor academic background or with poor study habits must naturally spend additional time in outside study.

HIGH SCHOOL DEFICIENCIES

Students with high school deficiencies are expected to remove them in the third trimester or in the Summer School. The College offers remedial courses for this purpose, and they are listed in the catalog.

CREDIT BY SPECIAL EXAMINATION

Eligibility: Any regular student who offers convincing evidence of having achieved the objectives for a course listed in the catalog through having taken a similar course in a non-accredited college or through individual study or other experiences, may apply for a special examination in that course.

Application Procedure: The student should first confer with the chairman of the division in which the course is offered and with the instructor who normally teaches it, to decide upon the feasibility of taking the examination for credit. If the division chairman and instructor feel he is qualified, he is referred to the Office of Admissions and Records to obtain the proper form. The student completes the form and takes it to the Business Office to pay the required special fee of \$2.50 per semester hour of credit. The receipted form is taken to the division chairman, who appoints an examiner, and the examination is given. If the grade is passing, it is recorded as "X," and the completed form is returned to the Office of Admissions and Records. If the test is failed the form is returned to the Division chairman. Credit for the course ("X") is not counted in the student's grade-point average.

Maximum Credit Allowable: A student can receive no more than 30 semester hours of credit by special examination.

MILITARY SERVICE CREDIT

Credit for military service will be allowed according to the recommendations established by the American Council on Education. Three semester hours credit for required physical education will be granted. Other credit will be given where possible.

JUNIOR COLLEGE CREDIT

A maximum of 66 semester hours credit or equivalent from a junior college may be applied toward a degree. Ordinarily, credit in traditionally upper-division courses from junior colleges will not

be accepted. Fort Lewis A & M College will make every effort to “phase” junior college transfer students into the College program without loss of previously earned credits.

EXTENSION AND CORRESPONDENCE CREDIT

A maximum of 18 credits for correspondence study may be applied toward a degree. A maximum of 30 credit hours for extension and correspondence study may be applied toward a degree. Extension credit cannot be used to meet the residence requirement for graduation.

AUDITING PRIVILEGES

A student may register for auditing privileges in courses if he desires to attend the classes regularly, but does not wish to take final examinations and receive grades or credit. A student auditing a course is required to pay fees at the same rate as if enrolled for credit. He must, upon registration, declare himself as an auditor and may not change to credit basis after the first two weeks of the trimester. A student enrolled for credit in a course may not change to an auditing basis in the same course after the first two weeks of the trimester. When registering, a student may take both audit and credit courses, but the total should not exceed a normal load of approximately 16 semester (trimester) hours.

STUDY LOADS

The normal student load is 16 semester hours. The minimum load for a full-time student is 9 hours and the maximum 18 hours. Only after a student has been in attendance at Fort Lewis A & M College for one trimester and has shown marked ability, will he be permitted to take more than the maximum load, upon approval of the Director of Admissions and Records or Dean of Faculty.

SELECTIVE SERVICE REGULATIONS

In order to qualify for a deferment or postponement of military service under selective service procedures, a student must be registered for 15 or more semester hours and must not remain out of class longer than one trimester. The College serves as a reporting agency only, and any decision affecting the student's selective service status will be made by the local board. Certification of registration and



attendance to the selective service boards is sent only upon the student's request.

CLASS ATTENDANCE

Students are expected to be regular in class attendance. Each instructor keeps his own record of student absences and is free to determine the extent to which absences affect the final grades of students. A student who, in the judgment of any instructor, is jeopardizing his class work by absences, may be reported by the instructor to the Dean of Students for such action as the Dean or the appropriate committee considers wise.

If the instructor of a course determines that one of his students is excessively absent, he may drop the student from the course with a grade of "F." The instructor must make written notification of the "drop" to the Director of Admissions and Records.

Absences from hour and final examinations in any course must be explained satisfactorily to the instructor.

GRADING SYSTEM

Official reports of grades is by letter only, as follows:

A (Excellent)

B (Good)

C (Average)

- D (Poor, but passing)
- F (Failure)
- I (Incomplete)
- WP (Withdraw without prejudice)
- WF (Withdraw failing)
- X (Credit by examination)

The grade of "I" means that the student's work in the course is excusably incomplete (for example, because of illness), and additional time has been granted. A grade of "I" automatically becomes "F" if the work is not completed during the subsequent trimester for which the grade "I" was reported.

In computing a student's scholastic average, the following scale of grade points is used: A, 4; B, 3; C, 2; D, 1. The total number of quality points earned is divided by the total number of credit hours for which the student was registered, disregarding courses in which the grade of "WP" or the designation "X" has been reported.

GRADE REPORTS

Reports are mailed to parents or guardians at the end of each trimester and at the end of the Summer School. Self-supporting students over 21 years of age or married students, if they request it of the Director of Admissions and Records in writing, may have their reports sent to them instead of to their parents. The student can obtain a copy of his trimester grades by calling upon his adviser.

REPETITION OF COURSES

If a student receives an "F" or "WF" in a required course, he must repeat the course. The official grade for a student repeating a course is the last grade earned.

ACADEMIC STANDARDS

In order to maintain a high level of academic achievement at Fort Lewis A & M College, a student is expected to make progress toward a degree or other approved objective in order to be eligible to continue enrolling at the College. Progress ordinarily means a

“C” (2.00) grade-point average. However, first-time freshmen students are allowed to remain in school with a 1.75 average for the first trimester because of the adjustment difficulties freshmen often have. The maintenance of academic standards is the responsibility of the entire faculty and administration, with the Academic Standards Committee giving special attention to this problem.

Records of students not making normal progress will be considered by the Academic Standards Committee. In such cases, the student may be given an academic warning, placed on academic probation, placed on academic suspension for a trimester, or placed on academic dismissal on the basis of the evidence.

Academic Probation: A student may be placed on academic probation on admission, whenever the student’s average is below 2.00 for any trimester, whenever the Academic Standards Committee, after investigation, determines, or when reinstated following academic suspension or dismissal.

Continued Probation: A student who has a cumulative average below “C” may be continued on probation if he has obtained a “C” or 2.00 average for the trimester of probation.

Remove Probation: Probationary standing may be cleared upon the attainment of a “C” average.

Academic Suspension or Dismissal: The Academic Standards Committee reserves the right to suspend or dismiss a student whose academic standing is unsatisfactory, the determination of what is “unsatisfactory” resting with the Committee. The Academic Standards Committee will hear cases of appeal where the Committee was unaware of mitigating circumstances. In suspension or dismissal cases, fees will not be refunded and neither the College nor any of its officers shall be under any liability whatsoever for such suspension or dismissal. Grades for a suspended or dismissed student will be determined by the College.

Reinstatement: Any student who has been suspended may apply for readmission after one trimester. However, such petition does not necessarily guarantee reinstatement. The Academic Standards Committee will consider the merits of the individual case. The student may present evidence of being able to successfully do college work by attending another college and doing “C” work or by

attending the third trimester or Summer School as a special student and obtaining a "C" average in not less than 12 hours. Ordinarily credit for studies pursued during the period of suspension cannot be counted toward a degree.

DEGREE REQUIREMENTS

Fort Lewis A & M College offers the Bachelor of Arts degree with majors in Business, English, History, Humanities, and Mathematics. The College offers the Bachelor of Science degree with majors in Biological Science and Physical Science. The general requirements and the specific courses are listed in the Program of Study section beginning on page 57.

For those students completing the degree requirements during the periods when formal commencement exercises are not held, the Office of Admissions and Records will furnish certified statements that all degree requirements have been completed, providing the student has filed a petition for graduation.

ADULT EDUCATION PROGRAM

To meet the needs of adults of the area served by Fort Lewis A & M College, college-level courses are usually offered in the evening. Students in the adult education program may enroll for credit or non-credit courses. Many classes offered under this program are part of the regular College offerings and are generally taught by faculty members of the College.

A special Evening Program Bulletin describing the current offerings, eligibility for admission, and procedures for registration is issued each trimester and may be obtained by writing the Director of Adult Education.

EXTENSION COURSES

Extension courses are organized in communities in which there is a demand for such courses. Offerings depend on the number of students desiring the course, the availability of an instructor, and classroom facilities.

LATE REGISTRATION

A student is required to pay a late registration fee for registering after the beginning of classes. The student registering late will be required to make up all work he has missed. No student will be

permitted to register for a normal course load after the first week of any trimester.

CHANGE OF PROGRAM

The College reserves the right to cancel a class if enrollment in that class is not deemed sufficient. A fee of \$1 will be charged to a student for any change in registration, the only exception being the College's acceptance of the responsibility for the change of program.

For any change of registration, a student must make arrangements with his adviser, the instructors concerned, and the Director of Admissions and Records.

ADDING A COURSE

No new course for credit may be added to a student's program after the first week of class sessions of each trimester.

DROPPING A COURSE

The proper dropping of a course is the responsibility of the individual student, not that of advisers, faculty, or administration. A grade in a course dropped by a student up to one week beyond the date the mid-trimester grades are turned in to the Office of Admissions and Records is to be either "WP" or "WF" as the case may be. After this time to the end of the 13th week of a trimester, a grade of "WF" will be recorded, unless the reason for dropping the course is a circumstance clearly beyond the student's control. A grade of "F" will be given a student who drops a course within two weeks of the end of a trimester, unless the student appears before the Academic Standards Committee to show cause.

WITHDRAWAL FROM COLLEGE

A student who desires to withdraw from college must first obtain the necessary withdrawal form from his adviser. Withdrawal will be permitted only after the student has obtained clearance from his class instructors, the Librarian, Auxiliary Services Manager, the Director of Admissions and Records, and the Business Manager. For a student who is dropping all courses and withdrawing from College, the grade in each course will be designated as "WP" or "WF" as the case may be.

A student who withdraws from College without obtaining from his adviser the official withdrawal form, completing it, and returning it to the Office of Admissions and Records will receive a grade of "F" in all courses affected and forfeit all deposits.

FINAL EXAMINATION POLICY

(1) Every student is required to take each of his examinations at the scheduled time and place in order to receive credit.

(2) A student absent from an examination without an excuse from the Dean of Faculty receives a grade of "O" for the examination.

(3) Any student missing a final examination without a valid excuse must have the permission of the Dean of Faculty and his instructor and pay a fee of \$5 to make up the missed examination.

TRANSCRIPTS

When a student requests a transcript for the purpose of transferring to another college or university, his status is reported on it. A student whose scholastic average is above the minimum required by this College and who has obtained the necessary clearances will

Assignments are made for the next issue of Smoke Signals, the student newspaper.



receive on his transcript a notation to the effect that he is in "Good Standing." A student who is on probation, under suspension, or has been dismissed will have such information specified on the transcript as to whether the action was taken for academic or disciplinary reasons. Transcripts of credit cannot be issued until all accounts with the College are settled.

The first transcript is supplied free of charge. A fee of \$1 will be charged for all subsequent transcripts.

Since course requirements in all colleges vary with time and demand, the administration of Fort Lewis A & M College reserves the right to alter the course listings where curriculum research deems it necessary.

GRADUATION INFORMATION

THE FOLLOWING GENERAL GRADUATION REQUIREMENTS MUST HAVE BEEN MET:

1. Satisfactory completion of the curriculum requirements in the major course of study as presented in the current catalog and approval of the division. In an unusual case, the Committee on Graduation may make an adjustment on petition from the student.

2. Residence Requirement—In meeting the requirements for the bachelor's degree, a student must complete at least 32 semester hours of credit on the Fort Lewis A & M College campus, of which 24 credits must be earned during the student's senior year immediately preceding graduation.

3. All students must have completed at least the minimum of 128 semester hours of credit which must include the 38 hours of common liberal arts requirements or their equivalent.

4. In order to be eligible for graduation a student must have a cumulative 2.00 ("C") grade-point average.

5. Transfer students are required to earn a "C" average in all courses completed at Fort Lewis A & M College.

6. The number of credits completed by correspondence and extension cannot exceed 30 semester hours of credit.

7. After a student has completed the equivalent of two years of college courses, credit toward graduation will not be allowed for courses completed later at a junior college.

8. The Committee on Graduation is responsible for certifying that candidates for graduation have met the graduation requirements. Although the Office of Admissions and Records will check each student's record, **the responsibility for meeting graduation requirements lies with the student and not with an adviser.**

9. Candidates for degrees must file a petition for graduation with the Office of Admissions and Records and must pay all fees by the end of the sixth week of the trimester in which the student expects to complete the degree requirements. Any student who does not complete the requirements, must file another petition for graduation when ready to graduate.

10. A student must be in good standing in both academic and disciplinary concerns in order to receive a degree from Fort Lewis A & M College.

11. Each student must have fulfilled all financial obligations with the College before a degree will be conferred.

12. A candidate completing degree requirements during periods when a formal commencement is held will normally be required to attend the exercises in appropriate academic attire to receive his degree. The College may require an absentia graduation fee from those whom the Dean of Faculty has excused from attending the services.

GRADUATION WITH HONORS

To be eligible for honors the student must have earned at least the last 60 semester hours of credits at Fort Lewis A & M College. All college work is included in the grade-point average in determining honors. The requirements are:

Summa cum laude—Grade point average of 3.90 or above

Magna cum laude—Grade point average of 3.75, but less than 3.90

Cum laude—Grade point average of 3.30, but less than 3.75



Costs

The cost of higher education should not be thought of in terms of current expense, but rather as an investment in the future. It is a true statement that the college graduate of today will find his earning power enhanced by approximately \$100,000 over what it would have been had he decided not to go to college.

One of the rewarding experiences in attending college is the opportunity for the individual to meet his own financial responsibilities. Too often, this facet of education is minimized or completely overlooked. It is, and must be, a part of the total education of the individual. The College emphasizes the importance of the student meeting his financial responsibilities and the development of maturity associated with the acceptance of complete financial responsibility.

The costs of attending this College are reasonable and are the minimum required to operate a successful program. Even though this is true, the complexities in the financial structure of a college require many special fees and other charges in order to meet the diverse character of the needs of the student.

Board and room charges, laboratory and workshop fees, student fees and special assessments, and tuition and registration fees are evidence of the diversity of student needs and requirements.

The listed expenses covering the various charges and fees are set forth as completely as possible. Study them carefully and it will be found that they add up to the purchase of much time and experience made available to the student for the enrichment of his total mature life.

ITEMIZED COSTS*
(Amounts listed are dollar amounts)

GENERAL FEES

	First Tri- mester	Second Tri- mester	Third Tri- mester	Total
Application Fee (Nonrefundable..... Charged all first-time applicants to Fort Lewis A & M College)	5.00			5.00
Registration Fee	5.00	5.00	5.00	15.00
Resident Tuition	55.00	55.00	55.00	165.00
Total Nonresident Tuition.....	150.00	150.00	150.00	450.00

For resident students registered for eight hours or less, there will be a charge of \$6.00 per hour for tuition purposes.

For nonresident students registered for eight hours or less, there will be a charge of \$17.00 per hour for tuition purposes.

REGULATIONS GOVERNING IN-STATE AND OUT-OF-STATE TUITION STATUS

Determinations for resident status for tuition purposes will be made in accordance with Chapter 229, Session Laws of 1961, Colorado General Assembly. (See page 35 of this catalog for more detailed information.)

* The State Board of Agriculture reserves the right to change any fee at any time without formal notice whenever conditions warrant such change.

Student fees make it possible for College students to participate in a Community Concert program, to publish a student newspaper, to finance intercollegiate sports, and engage in other extracurricular activities.



ASSOCIATED STUDENT FEES

(Required of all full-time students registered for nine credit hours or more. Part-time students will pay only one Associate Student Fee—a Student Center Fee of \$5 per trimester.)

	First Tri- mester	Second Tri- mester	Third Tri- mester	Total
All Student Activity.....	8.00	8.00	8.00	24.00
Athletic	8.00	8.00	8.00	24.00
Total	16.00	16.00	16.00	48.00
‡ Year Book	8.00			8.00
‡Health	25.00			25.00
Special Service and Student Center Fees	11.00	11.00	11.00	33.00
Total Student Fees.....	60.00	27.00	27.00	114.00

SPECIAL FEES

Late Registration	10.00	10.00	10.00
Schedule Change	1.00	1.00	1.00
Special Examination Fee.....	10.00	10.00	10.00
GED Examination Fee.....	5.00	5.00	5.00
Transcript of Credit (first one is free)	1.00	1.00	1.00
Applied Music (one lesson per week)	25.00	25.00	25.00
Laboratory Fees*			
Biological Science	5.00	5.00	5.00
Chemistry	12.50	12.50	12.50
Crafts	5.00	5.00	5.00
Geology	10.00	10.00	10.00
Physics	5.00	5.00	5.00
Soils	7.50	7.50	7.50
Typing	3.00	3.00	3.00
Welding	18.00	18.00	18.00
Woodworking	5.00	5.00	5.00
Zoology	5.00	5.00	5.00

*These fees are for specific laboratory courses and are charged to only those students registered for the courses. Excessive breakage in any laboratory course will require an additional fee sufficient to cover the expenses incurred.

† Required of all students, regardless of term entering.

‡ Required of all students, regardless of term entering.

DEPOSITS

Rooms Deposit	15.00
All Student Security Deposit—required of all students registered for nine or more hours.....	10.00
Apartment Deposit	25.00

RESIDENCE HALLS

Board (7 days per week).....	230.00	230.00	230.00	690.00
*Room	120.00	120.00	120.00	360.00
Total	350.00	350.00	350.00	1,050.00

APARTMENTS

1-Bedroom Apartment—per month.....	55.00
2-Bedroom Apartment—per month.....	60.00

Stated rentals do not include utility charges.

FEE REGULATIONS

Payment of Fees: All tuition, fees, and deposits for the trimester are payable at the time of registration—on or before the first day of each trimester. Registration is not considered complete, and attendance in classes will not be permitted, until the student has met his financial obligations in full.

Room and board charges are payable in full at the time the student moves into the dormitory. Upon proper application, the student may make arrangements to pay board and room charges in three installments.

College housing application forms may be obtained from the College Housing Office. A \$15 room deposit must be remitted with all dormitory housing applications. Room assignments will not be made until this payment has been received by the College and the student has made application for admission. All students who live in the dormitories are required to take their meals in the College Dining Hall.

In the event that a student who has submitted the full application for dormitory housing decides not to live in the dormitories, such notice must be in the College Housing Office at least 30 days before the beginning of the term housing is required. Refunds will be made if such notice is received within the time specified giving consideration to the cost of processing the application.

* Room—Women's Dormitories will increase to \$130 per trimester in the fall of 1963, with the completion of the beautiful new women's building.

The first month's rent must be remitted with the application for married student housing. A security deposit of \$25 is required at the time keys to the apartment are issued. Priority in the assignment of apartments will be made on the basis of date of receipt of the complete application and the date occupancy is desired. Date of occupancy will be given first consideration in the assignment of apartments.

The Fort Lewis A & M College married student housing is operated for and is available only to those married students who are duly registered full-time students. The *male* head of the household must maintain eligibility. A student must be registered for at least nine credit hours, excluding physical education, to qualify as full time.

No refunds will be made on applications received for married student housing unless the College is notified at least three weeks in advance of date of occupancy as stated on the application.

Refund of Tuition and Fees: A student dismissed or suspended from college as a result of official college action will automatically forfeit all tuition and fees.

A student withdrawing from college within seven days after the official registration date may obtain a full refund of tuition. A student withdrawing after the first seven days and before the 21st day may obtain a refund of one-half the tuition. No refunds will be made twenty-one days after date of registration.

Fees are not refundable to any student withdrawing from College.

Refund of Residence Hall Fees: No refunds will be made to students paying on an installment basis.

A student withdrawing from college within the first seven days may obtain a refund not to exceed 40 per cent of the room fee. A student withdrawing after the first seven days and before the 21st day may obtain a refund of the room fee not to exceed 30 per cent. No refunds will be made twenty-one days from date of registration.

The policy on refund of board fees shall be: A refund will be made of any balance remaining after an assessment of \$50 plus \$15 per week for the time the student took his meals in the College Dining Hall. No refund of board fees will be made after ten weeks from date of registration.



The Program of Study

A college curriculum, in the broadest sense, is a course of study planned and organized with the aim of leading the student to a given educational objective.

The College has streamlined its curriculum to avoid course duplication, and the student will find that most courses are complete units in themselves.

Fort Lewis A & M College, to quote an authority, believes that: "It is not the duty of the College to teach everything, but it is the duty of the College to teach well all that it does teach."

The course program outlined by the College is readily accommodated by a trimester academic calendar, and students who prepare their study programs with care and attend class year 'round will find that they can be graduated with the baccalaureate degree in slightly less than three calendar years.

At Fort Lewis A & M College the courses of study have thus been designed to provide the student with the qualities and background of a liberally educated man, marked by the awarding of the Bachelor of Arts degree or Bachelor of Science degree. The curriculum can be described as having four distinct parts: Common courses, courses required for majors and minors, electives, and a limited number of special programs.

GENERAL STATEMENTS REGARDING CAREERS

Many students enter college with their career choices firmly made. Others enter college undecided as to the career to pursue. The liberal arts college is the best possible college for both categories of students. Those who have made definite decisions about a career will find that the Fort Lewis College liberal arts program qualifies them to serve themselves, their employers, and mankind in the complex twentieth century. Those who have yet to settle on a life long career will find that the program at Fort Lewis College is uniquely geared to helping them make up their minds in the selection of a vocation. The courses lend themselves to helping in career

selection, and expert counseling by advisers, division heads, and administrators is available on a close, personal basis.

The following material will suggest some of the areas in which Fort Lewis College students may prepare themselves:

FOR THE STUDENT GOING TO LAW SCHOOL

The pre-legal student should aim at a broad undergraduate experience in the social sciences and humanities. It is essential that the pre-legal student have a thorough command of English, an extensive acquaintance with logical methods and the use of such methods, considerable training in the use of source materials and the values with which the law deals. The Association of American Law Schools has remarked that the development of these fundamental capacities is not the monopoly of any one subject-matter area, department, or division and certainly not of any particular course or combination of courses. Accordingly, the pre-legal student, keeping the suggestions enumerated above in mind, should choose as his major a subject that will best suit his particular talents and interests.

Suggested majors are English, History, Humanities, and Business.

FOR THE STUDENT GOING TO MEDICAL SCHOOL AND FOR PRE-NURSING

The student interested in a career in medicine will have to meet the specific requirements for admission to the medical school of his choice. These requirements vary from school to school. In general, however, courses in both general and organic chemistry, a knowledge of general physics, and work in biology through comparative anatomy and embryology are recommended in addition to proficiency in a foreign language.

The student should be aware that when he reaches medical school his work will deal largely with the sciences. Accordingly, as an undergraduate he should attain the breadth of knowledge essential to the foundation of a medical career; this breadth of knowledge is provided for in the humanities and social sciences.

The Biological Science and Physical Science majors have been designed to meet the needs of the pre-medical student.

**FOR THE STUDENT GOING TO DENTAL SCHOOL,
A SCHOOL OF VETERINARY MEDICINE, OR
TO A SCHOOL OF OSTEOPATHY**

Admission to these schools may be gained without the completion of baccalaureate degree requirements. It is strongly urged, however, that students, if time and resources permit, avail themselves of the broader, three-year program (under the trimester academic calendar) and secure the B.S. degree as a background for the work of the professional school.

Recommended majors are those of Physical Science or Biological Science.

**FOR THE STUDENT GOING ON TO GRADUATE SCHOOL
OR OTHER PROFESSIONAL SCHOOLS**

The majors at Fort Lewis A & M College have been designed to give an excellent background for students wishing to pursue graduate work. These students plan careers in scholarship, in research, in the professions, or as teachers on the college and university level.

The student who plans a career in science must usually consider the necessity of studying beyond the baccalaureate level. Employment in research, for example, will demand either a Ph.D. or a master's degree. Likewise, it is increasingly true that many positions in the fields of social service, government work, or business demand that the student push his education beyond the completion of the undergraduate degree.

Such a student should seek the advice of the members of the division in which he chooses to major in regard to the selection of courses most beneficial to him.

FOR THE STUDENT GOING INTO BUSINESS

Most business executives agree that the man who wishes to prepare himself adequately for a career in business or industry today should start by acquiring a liberal education. Such a student would major in the broad area of business and economics with some specialization in accounting, management, or secretarial administration. Yet, sufficient electives have been provided to give a good liberal arts education. This will enable him to gain admission to a

graduate school of business, where he will take a degree in a specialized field, or to perform efficiently in an industrial training program established by a specific firm, or to operate his own business. The liberal-arts training helps him become a leader in his community. A two-year terminal program is also offered for students desiring to become secretaries.

FOR THE STUDENT GOING INTO EDUCATION (TEACHING)

A student desiring to prepare himself for a career in public-school teaching should, according to the curricular plan at the College, major in the subject he proposes to teach. Since he may wish to be certified in two subjects, he should work out a program that will allow him to achieve this certification. He must, of course, take the necessary professional courses to be certified to teach in the state of his choice. The Humanities major is suggested for students desiring to become teachers in the elementary school.

FOR THE STUDENT GOING INTO ENGINEERING

Sufficient engineering courses are offered to enable the student to take four or five trimesters of work leading toward the traditional areas of civil, mechanical and electrical engineering and then transfer to another college to complete his work.

FOR THE STUDENT GOING INTO FORESTRY

Fort Lewis A & M College provides a two-year pre-forestry program. See page 92 for an outline of the courses which should be taken.

FOR THE STUDENT GOING INTO PUBLIC ADMINISTRATION, GOVERNMENT SERVICE, OR POLITICS

Students completing the requirements for the Humanities or Business majors are particularly well qualified for public administration, government service, and political positions.

COMMON COURSES

The first part of the College program, the common courses, is designed to provide the student with breadth in knowledge and a thorough grounding in necessary techniques and discipline. The common courses are required of all students regardless of their majors.

The academic program is built around a core of eight, hard discipline courses that contain the knowledge an educated man must

have. These are called the liberal arts "core courses." The student will customarily enroll for one of the eight "core courses" during each of his eight trimesters at Fort Lewis A & M College.

COMMON COURSES (REQUIRED OF ALL STUDENTS)

I Liberal Arts Core Courses

(For course descriptions see page 111)		Credit Hours
LA-101	Man and the Social World.....	3
LA-102	Man and the Political World.....	3
LA-103	Man and World Civilization.....	3
LA-201	Man and World Civilization.....	3
LA-211	Man and the Scientific World.....	3
LA-212	Man and the Scientific World.....	3
LA-301	Man and His Cultural Heritage.....	3
LA-302	Man and His Cultural Heritage.....	3

II Communications

(For course descriptions see page 106)		
EL-103	Freshman English	3
EL-104	Freshman English	3
EL-121	Fundamentals of Speech.....	3

*III Physical Activity

(For course descriptions see page 115)		
PE-101	Physical Activity	1
PE-102	Physical Activity	1
PE-103	Physical Activity	1

‡IV Seminar or Independent Study

(For course descriptions see page 112)		
LA-396	Departmental Seminar	2
	or	
LA-399	Independent Study	1-3

MAJORS AND MINORS

MAJORS

The second part of the curriculum forms a major and also a minor in most areas. Its chief function is to add depth to a student's knowledge of a particular field, either to enable him to work effectively in that field following graduation or to use his deepened knowledge as preparation for graduate school.

* All students are required to complete three trimesters of physical activity except veterans, women students over 25 years of age, or students who are excused for health reasons (as certified by the College physician).

‡ The student's seminar or independent study will be arranged with his individual adviser.

Fort Lewis A & M College offers seven majors and a number of minors. A student must complete a minimum of 32 semester hours in a field for a major and a minimum of 18 semester hours in a field for a minor. The College confers the Bachelor of Arts degree or Bachelor of Science degree upon graduation of the student. The majors are listed according to the degree awarded at the time of graduation.

B.A. Degree Majors

Business
English
History
Humanities
Mathematics

B.S. Degree Majors

Biological Science
Physical Science

MINORS

Minors offered by Fort Lewis A & M College are: Agriculture, Art, Biology, Business, Business - Economics, Chemistry, Engineering, English, French, Geology, History, Industrial Arts, Mathematics, Music, Physical Education, Physics, Psychology, and Secretarial Science.

ELECTIVE COURSES

The third part of the curriculum is formed by elective courses. The student is encouraged to pursue work in fields in which he has gained interest, in areas that will increase understanding in his major field, or (for those desiring to become teachers), in education courses.

SPECIAL PROGRAMS

TWO-YEAR PROGRAMS

Fort Lewis A & M College makes available pre-professional programs in: Agriculture, Engineering, and Forestry. The student receives two years of training in these fields at Fort Lewis A & M College and then will transfer to another college or university for work leading to the professional degree.

TERMINAL PROGRAM

The College offers a two-year, terminal program in secretarial science. The student who completes the program will be readily

absorbed into the labor market. The graduate of this program will receive the Associate of Arts degree, with graduation exercises being held at the same time that B.A. and B.S. degrees are awarded.

TEACHER-TRAINING PROGRAM

Fort Lewis A & M College provides the necessary courses to allow a person to be certified to teach in the elementary or secondary school system. The prospective teacher will select one of the seven majors listed earlier and will use the electives listed below (all in the fields of education or psychology) to fill out his program and complete his education requirements:

(1) For a teacher in the elementary school

	Credit Hours
Ps-211 General Psychology	3
ED-207 Education in America.....	3
ED-218 Educational Psychology and Measurement.....	4
ED-227 Children's Literature	4
ED-232 Elementary School Language Arts.....	4
ED-245 Elementary School Science and Arithmetic.....	5
ED-301 Elementary Education	4
ED-324 Elementary School Social Studies— Colorado History	3
ED-390 Supervised Student Teaching.....	8

(2) For a teacher in the secondary school

Ps-211 General Psychology	3
ED-207 Education in America.....	3
ED-218 Educational Psychology and Measurement.....	4
ED-302 Secondary Education	4
ED-380 Methods of Teaching.....	3
ED-390 Supervised Student Teaching.....	8

**THE SUGGESTED CURRICULUM PLANS
AND
THE NUMBERING AND LETTERING SYSTEM USED
THE SUGGESTED CURRICULUM PLANS**

No single college catalog can answer all the questions all the prospective students will have about course plans.

In an attempt to answer many of the questions a high school junior or senior may have, the College has outlined suggested curriculum plans for all the options possible under each of the majors. Suggested curriculum plans have also been prepared for the College's two-year programs of study.

These suggested curriculum plans are found in this section of the catalog. The purpose of the major is first briefly stated, then specific requirements for the major are listed. Next come the suggested curriculum plans. All course descriptions are found at the end of this section of the catalog.

NUMBERING AND LETTERING SYSTEM USED

Letter Abbreviations

Ag	Agriculture	EL	English Language and Literature	Mu	Music
A	Art	FL	Foreign Language	P	Philosophy
BS	Biological Science	F	Forestry	PE	Physical Education
B	Business	G	Geology	PH	Physics
C	Chemistry	IA	Industrial Arts	Ps	Psychology
Ed	Education	LA	Liberal Arts	R	Remedial
E	Engineering	M	Mathematics	SS	Social Science

Numbering System

Terminal or Adult Education Courses.....	0 - 99
Freshman Year Courses.....	100 - 199
Middle Year Courses.....	200 - 299
Senior Year Courses.....	300 - 399

Meaning of Numerals

The number of credits which a specific subject carries and the number of clock hours spent in class each week are indicated as follows: (3-4)5. The figure outside the parentheses indicates the number of credits per trimester, the first figure inside the parentheses indicates the number of lectures or recitations each week, and the second figure inside the parentheses indicates the number of clock hours spent in laboratory each week.

Courses are listed first by course title and followed immediately by the course number.

Numbers in the columns show the credits per trimester of approximately 15 weeks for each course.

THE BACHELOR OF ARTS DEGREE — MAJORS

BUSINESS



A lecture in business

To be successful in today's business world, an individual often finds that his knowledge of western culture, science, and communicative arts may be more important than a highly developed specialization in any one field of business. This is the philosophy of the Division of Business at Fort Lewis A & M College. The business student is given a firm foundation in the liberal arts, and then is encouraged to develop a sound, broad background in his area of interest in business.

The student majoring in business is provided an opportunity for some specialization through the four options: accounting, business administration, business education, and managerial economics.

Students interested in the two-year secretarial science program should consult page 93.

Students desiring to teach in secondary schools will take as electives the required education courses listed on page 63.

GRADUATION REQUIREMENTS—B.A. DEGREE— BUSINESS MAJOR

		Credit Hours
Common	Liberal Arts Requirements (see page 61)	38
M-101	Fundamentals of Mathematics	(4)
	or	
M-108	College Algebra—Trigonometry	(5)
Ps-211	General Psychology	3

Common Business Requirements:		Credit Hours
B-121	Business Communications	3
B-211	Business Law	5
B-225	Principles of Accounting.....	4
B-226	Principles of Accounting.....	4
B-262	Principles of Economics.....	3
		19

Accounting Option Requirements:		
B-144	Quantitative Business Techniques.....	3
B-201	Business Management	4
B-251	Business Statistics	4
B-254	Mathematics of Finance.....	3
B-321	Intermediate Accounting	5
B-325	Cost Accounting	3
B-330	Income Tax Accounting.....	3
B-380	Business Finance	4
		29

Business Administration Option Requirements:		
B-201	Business Management	4
B-251	Business Statistics	4
B-305	Business Policies and Public Relations.....	4
B-340	Marketing	5
B-380	Business Finance	4
Select from B-254, B-301, B-321, B-325, B-361, B-383, B-386, B-389, EL-208.....		7
		28

Business Education Option Requirements:		
B-108	Advanced Typing	3
B-111	Elementary Gregg Shorthand.....	3
B-112	Advanced Shorthand	3
B-127	Transcription	5
B-131	Secretarial Procedure	4
B-144	Quantitative Business Techniques.....	3
B-308	Office Management	4
		25

Managerial-Economics Option Requirements:		
B-201	Business Management	4
B-251	Business Statistics	4
B-361	Managerial Economics	4
B-365	Monetary Economics	5
B-380	Business Finance	4

Select one of: B-301, B-305, B-340.....	Credit Hours 4 or 5
	25-26
Electives (including a minor of 18 credit hours).....	34-39
Total.....	128

For students not majoring in business, three minors are available.

Business Minor Requirements:

B-201 Business Management, B-211 Business Law, B-225 - 226 Principles of Accounting

Business-Economics Minor Requirements:

B-251 Business Statistics, B-262 Principles of Economics, B-361 Managerial Economics, B-365 Monetary Economics, One business course numbered 200 or above

Secretarial Science Minor Requirements:

Select 20 hours from—B-108 Advanced Typing, B-111 Elementary Gregg Shorthand, B-112 Advanced Shorthand, B-127 Transcription, B-131 Secretarial Procedure, B-144 Quantitative Business Techniques, B-221 Secretarial Accounting

**BUSINESS MAJOR—ACCOUNTING OPTION
SUGGESTED CURRICULUM PLAN**

Freshman Year

First Trimester	Second Trimester	Third Trimester
Man & Soc. World 101 3	Man & Pol. World 102 3	Man & World Civ. 103 3
Freshman English 103 3	Freshman English 104 3	General Psych. 211 3
Coll. Alg.-Trig. 108 5	Fund. of Speech 121 3	Bus. Comm. 121 3
Quant. Bus. Tech. 144 3	Physical Activity 102 1	Prin. of Acct. 225 4
Physical Activity 101 1	Electives 6	Physical Activity 103 1
		Electives 3

Middle Year

First Trimester	Second Trimester	Third Trimester
Man & World Civ. 201 3	Man & Sci. World 211 3	Man & Sci. World 212 3
Prin. of Econ. 262 3	Intermed. Acct. 321 5	Cost Acct. 325 3
Bus. Statistics 251 4	Business Law 211 5	Business Mgt. 201 4
Prin. of Acct. 226 4	Electives 3	Math. of Finance 254 3
Electives 3		Electives 3

Senior Year

First Trimester	Second Trimester
Man & Cultural Heritage 301 3	Man & Cultural Heritage 302 3
Business Finance 380 4	Income Tax Acct. 330 3
Electives 9	Seminar 396 2
	Electives 8

A minor of 18 credit hours in a field other than business must be included in the electives.

BUSINESS MAJOR— BUSINESS ADMINISTRATION OPTION

SUGGESTED CURRICULUM PLAN

Freshman Year

First Trimester	Second Trimester	Third Trimester
Man & Soc. World 101 3	Man & Pol. World 102 3	Man & World Civ. 103 3
Freshman English 103 3	Freshman English 104 3	Fund. of Speech 121 3
Fund. of Math. 101 4	Physical Activity 102 1	Prin. of Acct. 225 4
Physical Activity 101 1	Electives 9	Business Comm. 121 3
Electives 5		General Psy. 211 3
		Physical Activity 103 1

Middle Year

First Trimester	Second Trimester	Third Trimester
Man & World Civ. 201 3	Man & Sci. World 211 3	Man & Sci. World 212 3
Prin. of Econ. 262 3	Business Mgt. 201 4	Marketing 340 5
Prin. of Acct. 226 4	Approved Bus. Course 3	Approved Bus. Course 4
Business Law 211 5	Bus. Statistics 251 4	Electives 3
	Electives 3	

Senior Year

First Trimester	Second Trimester
Man & Cultural	Man & Cultural
Heritage 301 3	Heritage 302 3
Business Policies 305 4	Seminar 396 2
Business Finance 380 4	Electives 11
Electives 5	

A minor of 18 credit hours in a field other than business must be included in the electives.

BUSINESS MAJOR—BUSINESS EDUCATION OPTION

SUGGESTED CURRICULUM PLAN

Freshman Year

First Trimester	Second Trimester	Third Trimester
Man & Soc. World 101 3	Man & Pol. World 102 3	Man & World Civ. 103 3
Freshman English 103 3	Freshman English 104 3	Fund. of Speech 121 3
Advanced Typing 108 3	Adv. Shorthand 112 3	Transcription 127 5
Elem. Gregg	Fund. of Math 101 4	Prin. of Acct. 225 4
Shorthand 111 3	Electives 3	Physical Activity 103 1
Physical Activity 101 1		
Electives 3		

Middle Year

First Trimester		Second Trimester		Third Trimester	
Man & World Civ. 201	3	Man & Sci. World 211	3	Man & Sci. World 212	3
Secretarial Proc. 131	4	Business Comm. 121	3	Business Law 211	5
Prin. of Acct. 226	4	Quant. Bus. Tech. 144	3	Electives	8
General Psych. 211	3	Physical Activity 102	1		
Prin. of Econ. 262	3	Electives	5		

Senior Year

First Trimester		Second Trimester	
Man & Cultural Heritage 301	3	Man & Cultural Heritage 302	3
Office Mgmnt. 308	4	Seminar 396	2
Electives	9	Electives	11

A minor of 18 credit hours in a field other than business must be included in the electives.

BUSINESS MAJOR—MANAGERIAL-ECONOMICS OPTION

SUGGESTED CURRICULUM PLAN

Freshman Year

First Trimester		Second Trimester		Third Trimester	
Man & Soc. World 101	3	Man & Pol. World 102	3	Man & World Civ. 103	3
Freshman English 103	3	Freshman English 104	3	Business Comm. 121	3
Fund. of Math 101	4	Fund. of Speech 121	3	General Psych. 211	3
Physical Activity 101	1	Physical Activity 102	1	Prin. of Acct. 225	4
Electives	5	Electives	6	Physical Activity 103	1
				Electives	3

Middle Year

First Trimester		Second Trimester		Third Trimester	
Man & World Civ. 201	3	Man & Sci. World 211	3	Man & Sci. World 212	3
Prin. of Acct. 226	4	Bus. Statistics 251	4	Managerial Econ. 361	4
Prin. of Econ. 262	3	Business Mgt. 201	4	Electives	9
Business Law 211	5	Monetary Econ. 365	5		

Senior Year

First Trimester		Second Trimester	
Man & Cultural Heritage 301	3	Man & Cultural Heritage 302	3
Business Finance 380	4	Seminar 396	2
Approved Bus. Course	4	Electives	11
Electives	5		

A minor of 18 credit hours in a field other than business must be included in the electives.

ENGLISH

*Personal criticism
of an English paper*

The major in English offered by Fort Lewis A & M College is designed to provide the student with training and experience in evaluative reading, critical thinking, and clear self-expression. The major will serve those wishing a bachelor's degree and as well prepares those wishing to continue their studies at the graduate level.

The degree will also qualify one for teaching. Students desiring to teach in secondary schools will take as electives the required education courses listed on page 63.

**GRADUATION REQUIREMENTS—B.A. DEGREE—
ENGLISH MAJOR**

	Credit Hours
Common Liberal Arts Requirements (see page 61)	38
Two trimesters of Mathematics or Foreign Language	8-9

46-47

English Requirements:

Select 32 credit hours from the following

EL-167	World Literature	4
EL-175	The Essay and Short Story.....	5
EL-239	Development of the English & American Novel	5
EL-242	Forms of Poetry.....	4
EL-258	Dramatic Literature	5
EL-263	The Great Romantic Period in Literature....	5
EL-270	Contemporary Literature	5

		Credit Hours
EL-320	Shakespeare	4
EL-331	Pre-Elizabethan Literature & Linguistics....	4
EL-355	Literary Criticism	4
		32
Electives (including a minor of 18 credit hours.).....		49-51
		128

English Minor

A minor in English is provided for students who are not majoring in English.

English Minor Requirements: Select 18 credit hours from the following: EL-167, EL-175, EL-239, EL-242, EL-258, EL-263, EL-270, EL-320, EL-331, EL-355.

**ENGLISH MAJOR
SUGGESTED CURRICULUM PLAN**

Freshman Year

First Trimester	Second Trimester	Third Trimester
Man & Soc. World 101 3	Man & Pol. World 102 3	Man & World Civ. 103 3
Freshman English 103 3	Freshman English 104 3	World Literature 167 4
*Foreign Language 4	Fund. of Speech 121 3	Essay & Sht. Sty. 175 5
Physical Activity 101 1	*Foreign Language 4	Physical Activity 103 1
Electives 5	Physical Activity 102 1	Electives 4

Middle Year

First Trimester	Second Trimester	Third Trimester
Man & World Civ. 201 3	Man & Sci. World 211 3	Man & Sci. World 212 3
Dev.-Eng. & Am. Novel 239 5	Dramatic Lit. 258 5	Romantic Pr. Lit. 263 5
*Mathematics 4	*Mathematics 5	Electives 8
Electives 4	Electives 3	

Senior Year

First Trimester	Second Trimester
Man & Cultural Heritage 301 3	Man & Cultural Heritage 302 3
Shakespeare 320 4	Contemp. Lit. 270 5
Electives 9	Lit. Criticism 355 4
	Seminar 396
	Electives 3

A minor of 18 credit hours in a field other than English must be included in the electives.

*Students must select two courses in either mathematics or a foreign language; however, both are recommended.

HISTORY

History majors attend a lecture in the History of the Americas course.



Fort Lewis A & M College offers a major in history. The area of history and social science is conceived as an important part of a liberal education. In addition, the courses should help to prepare students both for graduate work and for careers in many fields, including teaching, public service, and journalism.

Students are encouraged to pursue historical knowledge as an ordered set of carefully reached judgments with integrity and to illuminate the issues of the present and help provide standards by which to appraise the trends of the contemporary world.

Students desiring to teach in secondary schools will take as electives the required education courses listed on page 63.

GRADUATION REQUIREMENTS—B.A. DEGREE—

HISTORY MAJOR

	Credit Hours
Common Liberal Arts Requirements (see page 61)	38
Two trimesters of Mathematics or Foreign Language	8-9
	<hr/>
	46-47
History Requirements:	
SS-101 History of the Americas	5
SS-102 History of the Americas	5
SS-110 Ancient History	4
SS-213 History of England	4
SS-224 History of the 20th Century	4
SS-232 Russia and Satellites	4

		Credit Hours
SS-320	The Near East and Africa.....	4
SS-328	Southern and Southeast Asia.....	4
		34
Electives (including a minor of 18 credit hours).....		48-49
		Total..... 128

History Minor

A minor in History is provided for students who are not majoring in History.

History Minor Requirements: Select 18 credit hours from the following: SS-101, SS-102, SS-213, SS-224, SS-232, SS-309, SS-320, SS-328.

HISTORY MAJOR SUGGESTED CURRICULUM PLAN

Freshman Year

First Trimester		Second Trimester		Third Trimester	
Man & Soc. World 101	3	Man & Pol. World 102	2	Man & World Civ. 103	3
Hist. of the Ams. 101	5	Hist. of the Ams. 102	5	Fund. of Speech 121	3
Freshman English 103	3	Freshman English 104	3	Hist. of England 213	4
Physical Activity 101	1	Physical Activity 102	1	Physical Activity 103	1
Electives	4	Electives	4	Electives	5

Middle Year

First Trimester		Second Trimester		Third Trimester	
Man & World Civ. 201	3	Man & Sci. World 211	3	Man & Sci. World 212	3
Ancient Hist. 110	3	Hist. of 20th Cent.		Rus. & Satellites 232	4
*Fund. of Math. 101	4	U.S. & W.Eupe. 224	4	Electives	9
or		*Foreign Language	4		
*Foreign Language	4	or			
Electives	4	*Coll. Alg.-Trig. 108	5		
		Electives	4		

Senior Year

First Trimester		Second Trimester	
Man & Cultural Heritage 301	3	Man & Cultural Heritage 302	3
Near E. & Africa 320	4	S. & E. Asia 328	4
Electives	10	Seminar 396	2
		Electives	7

A minor of 18 credit hours in a field other than history must be included in the electives.

*Students will be required to have two trimesters of either mathematics or foreign language.

HUMANITIES

Art is one of the areas of study in the Humanities major.



Fort Lewis A & M College offers an inter-disciplinary major in Humanities for the bachelor's degree. With a primary concentration of twenty hours in one area and with a secondary concentration of twelve hours each in two other areas, the student will receive a broad background in the liberal and fine arts. Such an organized program in the humanities affords a sound education for those contemplating careers in law or governmental service, for those planning to teach, for those preparing for advanced study at the graduate level, and for those who wish a sound cultural grounding for the bachelor's degree. The student is required to cross traditional subject matter areas to satisfy the requirements for the Humanities major; he will elect from the fields of history, music, art, and literature one area for primary concentration and two areas for secondary concentrations.

Students desiring to teach in secondary schools will take as electives the required education courses listed on page 63.

GRADUATION REQUIREMENTS—B.A. DEGREE—

HUMANITIES MAJOR

	Credit Hours
Common Liberal Arts Requirements (see page 61)	38
Foreign Language	14
Philosophy P-271	5
	<hr/>
	57

Humanities Requirements:

Select three out of Art, History, Literature, and Music.
(One primary and two secondary concentrations.)

Primary Concentration:	Credit Hours
If Music: Mu-131 Music Content, Mu-132 Music Content, Mu-211 Music Education, Mu-212 Music Education, Band and Chorus	20
If History or Literature: Any courses.....	20
If Art: A-160 Two and Three Dimensional Design, A-170 Drawing, A-171 Drawing, A-220 Painting, A-350 Theory and Aesthetics.....	20
 Secondary Concentration:	
If Art: A-160 Two and Three Dimensional Design, A-170 Drawing, A-220 Painting.....	12
If History or Literature: Any courses.....	12
If Music: Mu-131 Music Content, Mu-132 Music Content and Band or Chorus.....	12
	<hr/>
	44
Electives	27
	<hr/>
	121

Music Minor

For students majoring in other areas, a minor in music is available. Requirements for the minor are: Mu-131 Music Content, Mu-132 Music Content, Mu-211 Music Education and Band or Chorus.

Art Minor

For students majoring in other areas, a minor in art is available. Requirements for the minor are: A-160 Two and Three Dimensional Design, A-170 Drawing, A-220 Painting, A-350 Theory and Aesthetics, plus one other studio course.

**HUMANITIES MAJOR—
PRIMARY CONCENTRATION—ART
SUGGESTED CURRICULUM PLAN**

Freshman Year

First Trimester	Second Trimester	Third Trimester
Man & Soc. World 101 3	Man & Pol. World 102 3	Man & World Civ. 103 3
Freshman English 103 3	Freshman English 104 3	Fund. of Speech 121 3
Physical Activity 101 1	Physical Activity 102 1	Physical Activity 103 1
*Foreign Language 4	*Foreign Language 4	*Foreign Language 3
Drawing 170 4	Drawing 171 4	2 & 3 Dim. Design 160 4
		Electives 3

*Four hours of foreign language will be waived for each year of foreign language taken in high school.

Secondary Concentrations—History and Literature**Middle Year**

First Trimester	Second Trimester	Third Trimester	
Man & World Civ. 201	3	Man & Sci. World 211	3
*Foreign Language	3	World Lit. 167	4
Painting 220	4	Hist. of the Am. 102	5
App. History Course	3	Electives	4
Electives	3		
		Man & Sci. World 212	3
		Children's Lit. 227	4
		Hist. of England 213	4
		Electives	6

Senior Year

First Trimester		Second Trimester	
Man and Cultural		Man and Cultural	
Heritage 301	3	Heritage 302	3
Philosophy 271	5	Seminar 396	2
Thy. & Aesthetics 350	4	Electives	4
Shakespeare 320	4		

Secondary Concentrations—History and Music**Middle Year**

First Trimester	Second Trimester	Third Trimester	
Man & World Civ. 201	3	Man & Sci. World 211	3
*Foreign Language	3	Hist. of the Am. 102	5
Music Content 131	5	Painting 220	4
App. History Course	3	Music Content 132	5
Band 110	½	Band 110	½
or		or	
Chorus 105	½	Chorus 105	½
Electives	3		
		Man & Sci. World 212	3
		Hist. of England 213	4
		Band 110	½
		or	
		Chorus 105	½
		Electives	7

Senior Year

First Trimester		Second Trimester	
Man and Cultural		Man and Cultural	
Heritage 301	3	Heritage 302	3
Philosophy 271	5	Seminar 396	2
Thy. & Aesthetics 350	4	Electives	11
Band 110	½		
or			
Chorus 105	½		
Electives	4		

*Four hours of foreign language will be waived for each year of foreign language taken in high school.

Secondary Concentration—Literature and Music

Middle Year

First Trimester		Second Trimester		Third Trimester	
Man & World Civ. 201	3	Man & Sci. World 211	3	Man & Sci. World 212	3
*Foreign Language	3	Painting 220	4	Children's Lit. 227	4
Music Content 131	5	World Literature 167	4	Band 110	½
Band 110	½	Music Content 132	5	or	
or		Band 110	½	Chorus 105	½
Chorus 105	½	or		Electives	9
Electives	4	Chorus 105	½		

Senior Year

First Trimester		Second Trimester	
Man and Cultural Heritage 301	3	Man and Cultural Heritage 302	3
Philosophy 271	5	Seminar 396	2
Thy. & Aesthetics 350	4	Electives	11
Shakespeare 320	4		
Band 110	½		
or			
Chorus 105	½		

HUMANITIES MAJOR—

PRIMARY CONCENTRATION—HISTORY

SUGGESTED CURRICULUM PLAN

Freshman Year

First Trimester		Second Trimester		Third Trimester	
Man & Soc. World 101	3	Man & Pol. World 102	3	Man & World Civ. 103	3
Freshman English 103	3	Freshman English 104	3	Fund. of Speech 121	3
Physical Activity 101	1	Physical Activity 102	1	Physical Activity 103	1
*Foreign Language	4	*Foreign Language	4	*Foreign Language	3
Hist. of the Am. 101	5	Hist. of the Am. 102	5	Electives	5

Secondary Concentrations—Art and Literature

Middle Year

First Trimester		Second Trimester		Third Trimester	
Man & World Civ. 201	3	Man & Sci. World 211	3	Man & Sci. World 212	3
*Foreign Language	3	Hist.-20th Cent. 224	4	Rus. & Satellites 232	4
App. History Course	3	World Literature 167	4	2 & 3 Dim. Design 160	4
Electives	8	Drawing 170	4	Children's Lit. 227	4

*Four hours of foreign language will be waived for each year of foreign language taken in high school.

Senior Year**First Trimester**

Man and Cultural	
Heritage 301	3
Philosophy 271	5
Shakespeare 320	4
Painting 220	4

Second Trimester

Man and Cultural	
Heritage 302	3
Seminar 396	2
Electives	12

Secondary Concentrations—Art and Music**Middle Year****First Trimester**

Man & World Civ. 201	3
*Foreign Language	3
Music Content 131	5
Band 110	½
or	
Chorus 105	½
Electives	4

Second Trimester

Man & Sci. World 211	3
Hist.-20th Cent. 224	4
Music Content 132	5
Band 110	½
or	
Chorus 105	½
Drawing 170	4

Third Trimester

Man & Sci. World 212	3
Rus. & Satellites 232	4
Band 110	½
or	
Chorus 105	½
2 & 3 Dim. Design 160	4
Electives	4

Senior Year**First Trimester**

Man and Cultural	
Heritage 301	3
Philosophy 271	5
Band 110	½
or	
Chorus 105	½
Painting 220	4
Electives	4

Second Trimester

Man and Cultural	
Heritage 302	3
Seminar 396	2
Electives	11

Secondary Concentrations—Literature and Music**Middle Year****First Trimester**

Man & World Civ. 201	3
*Foreign Language	3
Music Content 131	5
Band 110	½
or	
Chorus 105	½
App. History Course	3
Electives	3

Second Trimester

Man & Sci. World 211	3
Music Content 132	5
Band 110	½
or	
Chorus 105	½
Hist.-20th Cent. 224	4
World Literature 167	4

Third Trimester

Man & Sci. World 212	3
Band 110	½
or	
Chorus 105	½
Children's Lit. 227	4
Rus. & Satellites 232	4
Electives	4

*Four hours of foreign language will be waived for each year of foreign language taken in high school.

Senior Year

First Trimester
 Man and Cultural Heritage 301 3
 Philosophy 271 5
 Band 110 ½
 or
 Chorus 105 ½
 Shakespeare 320 4
 Electives 3

Second Trimester
 Man and Cultural Heritage 302 3
 Seminar 396 2
 Electives 11

**HUMANITIES MAJOR—
 PRIMARY CONCENTRATION—MUSIC**

SUGGESTED CURRICULUM PLAN

Freshman Year

First Trimester		Second Trimester		Third Trimester	
Man & Soc. World 101	3	Man & Pol. World 102	3	Man & World Civ. 103	3
Freshman English 103	3	Freshman English 104	3	Fund. of Speech 121	3
Physical Activity 101	1	Physical Activity 102	1	Physical Activity 103	1
*Foreign Language	4	*Foreign Language	4	*Foreign Language	3
Music Content 131	5	Music Content 132	5	Electives	5
Chorus 105	½	Chorus 105	½		
or		or			
Band 110	½	Band 110	½		

Secondary Concentrations—Art and Literature

Middle Year

First Trimester		Second Trimester		Third Trimester	
Man & World Civ. 201	3	Man & Sci. World 211	3	Man & Sci. World 212	3
*Foreign Language	3	Music Education 212	5	2 & 3 Dim. Design 160	4
Music Education 211	5	Band 110	½	Drawing 170	4
Band 110	½	or		Children's Lit. 227	4
or		Chorus 105	½		
Chorus 105	½	World Literature 167	4		
Shakespeare 320	4	Electives	4		

*Four hours of foreign language will be waived for each year of foreign language taken in high school.

Senior Year

First Trimester

Man and Cultural	
Heritage 301	3
Philosophy 271	5
Band 110	½
or	
Chorus 105	½
Painting 220	4
Electives	4

Second Trimester

Man and Cultural	
Heritage 302	3
Band 110	½
or	
Chorus 105	½
Seminar 396	2
Electives	11

Secondary Concentrations—Art and History

Middle Year

First Trimester

Man & World Civ. 201	3
*Foreign Language	3
Music Education 211	5
Band 110	½
or	
Chorus 105	½
Electives	5

Second Trimester

Man & Sci. World 211	3
Music Education 212	5
Band 110	½
or	
Chorus 105	½
Hist. of the Am. 102	5
Electives	4

Third Trimester

Man & Sci. World 212	3
2 & 3 Dim. Design 160	4
Drawing 170	4
Hist. of England 213	4

Senior Year

First Trimester

Man and Cultural	
Heritage 301	3
Philosophy 271	5
Band 110	½
or	
Chorus 105	½
Painting 220	4
App. History Course	3

Second Trimester

Man and Cultural	
Heritage 302	3
Band 110	½
or	
Chorus 105	½
Seminar 396	2
Electives	11

Secondary Concentrations—History and Literature

Middle Year

First Trimester

Man & World Civ. 201	3
*Foreign Language	3
Music Education 211	5
Band 110	½
or	
Chorus 105	½
Electives	4

Second Trimester

Man & Sci. World 211	3
Music Education 212	5
Band 110	½
or	
Chorus 105	½
Hist. of the Am. 102	5
Electives	4

Third Trimester

Man & Sci. World 212	3
Children's Lit. 227	4
Hist. of England 213	4
Electives	5

*Four hours of foreign language will be waived for each year of foreign language taken in high school.

Senior Year

First Trimester

Man and Cultural Heritage 301	3
Band 110 or	$\frac{1}{2}$
Chorus 105	$\frac{1}{2}$
App. History Course	3
Philosophy 271	5
Shakespeare 320	4

Second Trimester

Man and Cultural Heritage 302	3
Band 110 or	$\frac{1}{2}$
Chorus 105	$\frac{1}{2}$
World Literature 167	4
Seminar 396	2
Electives	6

MATHEMATICS



*The College offers a
Mathematics major.*

Developments in recent years and present conditions viewed in the light of military and peace-time technology emphasize an ever-increasing need for more training in mathematics.

Fort Lewis A & M College provides a major in mathematics for the student who wishes to do graduate work in the field of mathematics or research or the teaching of mathematics in the secondary school.

Students desiring to teach in secondary schools will take as electives the required education courses listed on page 63.

GRADUATION REQUIREMENTS—B.A. DEGREE— MATHEMATICS MAJOR

	Credit Hours
Common Liberal Arts Requirements (see page 61)	38
Ph-201, 202 General Physics	8
or	
C-199, 200 Principles of Chemistry and Physics	10
	<hr/>
	46-48
Mathematics Requirements:	
M-121 College Mathematics I.....	5
M-122 College Mathematics II.....	5
M-231 Calculus I	5
M-232 Calculus II	5
Select three out of the following courses	
M-276 Higher Algebra	4
M-327 Differential Equations	4

	Credit Hours
M-332 Advanced Calculus	4
M-342 Modern College Geometry.....	4
	32
Electives	48-50
	128

A minor of 18 credit hours in a field other than mathematics must be included in the electives.

Mathematics Minor

A minor in mathematics is provided for students majoring in other areas and desiring some mathematics background. The mathematics minor requirements are: M-121 College Mathematics I or M-108 College Algebra-Trigonometry, M-122 College Mathematics II, M-231 Calculus I, M-232 Calculus II.

MATHEMATICS MAJOR

SUGGESTED CURRICULUM PLAN

Freshman Year

First Trimester	Second Trimester	Third Trimester
Man & Soc. World 101 3	Man & Sci. World 211 3	Man & Sci. World 212 3
Freshman English 103 3	Freshman English 104 3	Fund. of Speech 121 3
Physical Activity 101 1	Physical Activity 102 1	Physical Activity 103 1
College Math. 121 5	College Math. 122 5	Calculus 231 5
Electives 4	Electives 4	Electives 4

Middle Year

First Trimester	Second Trimester	Third Trimester
Man & World Civ. 201 3	Man & Pol. World 102 3	Man & World Civ. 103 3
*General Physics 201 4	*General Physics 202 4	Diff. Equations 327 4
Calculus 232 5	Higher Algebra 276 4	Electives 9
Electives 4	Electives 5	

Senior Year

First Trimester	Second Trimester
Man & Cultural Heritage 301 3	Man & Cultural Heritage 302 3
Modern College Geometry 342 4	Seminar 396 2
Advanced Calculus 332 4	Electives 11
Electives 9	

A minor of 18 credit hours in a field other than mathematics must be included in the electives.

*C-199 and C-200 may be substituted for General Physics.

THE BACHELOR OF SCIENCE DEGREE — MAJORS

BIOLOGICAL SCIENCE



A biological science laboratory

Within the Division of Science Fort Lewis A & M College offers a field of emphasis in Biological Science. A student concentrating in this area will receive the B.S. degree upon graduation.

Students desiring to teach biological science in secondary schools will take as electives the required education courses listed on page 63.

GRADUATION REQUIREMENTS—B.S. DEGREE—

BIOLOGICAL SCIENCE MAJOR

		Credit Hours
Common Liberal Arts Requirements (see page 61).....		38
M-108	College Algebra Trigonometry.....	5
C-109	General Chemistry	5
C-110	Elementary Organic Chemistry.....	5
Biological Science Requirements:		53
BS-101	General Botany	4
BS-102	General Botany	4
BS-105	Systematic Botany	4
BS-111	General Zoology	4
BS-112	General Zoology	4
BS-311	Field Zoology	5
	Approved Biological Science course.....	7
		<hr/>
Electives (including minor of 18 credit hours).....		43
		<hr/>
Total		128

Biological Science Minor

A minor in biological science is provided for students majoring in other areas.

Biological Science Minor Requirements are: BS-101 General Botany, BS-111 General Zoology, and 10 hours selected from other biological science courses.

BIOLOGICAL SCIENCE MAJOR SUGGESTED CURRICULUM PLAN

Freshman Year

First Trimester	Second Trimester	Third Trimester
Man & Sci. World 211 3	Man & Sci. World 212 3	Man & World Civ. 103 3
Freshman English 103 3	Freshman English 104 3	Fund. of Speech 121 3
General Botany 101 4	General Botany 102 4	Physical Activity 103 1
Physical Activity 101 1	Physical Activity 102 1	Coll.Alg.-Trig. 108 5
Electives 5	Electives 5	Electives 4

Middle Year

First Trimester	Second Trimester	Third Trimester
Man & Soc. World 101 3	Man & Pol. World 102 3	Man & World Civ. 201 3
Gen. Chemistry 109 5	Elem. Organic	Systematic Botany
Gen. Zoology 111 4	Chem. 110 5	105 4
Electives 4	Gen. Zoology 112 4	Field Zoology 311 5
	Electives 4	Electives 4

Senior Year

First Trimester	Second Trimester
Man & Cultural	Man & Cultural
Heritage 301 3	Heritage 302 3
Electives 13	Seminar 396 2
	Electives 11

A minor of 18 credit hours in a field other than biological science must be included in the electives.

PHYSICAL SCIENCE

*A Physical Science
major visits with
his instructor.*



The physical science program has been designed to give the student a broad scientific background. It is designed to meet the requirements of (1) students wishing to further their educations in graduate schools of science, (2) students desiring sound preparation for secondary school teaching, (3) students who will seek employment in scientific fields, industry, governmental work under Civil Service, and (4) students preparing for careers in medical fields or engineering.

The physical sciences at Fort Lewis A & M College consist of chemistry, geology, and physics.

A major is defined as at least 32 credit hours of approved subject matter. At Fort Lewis A & M College, two options of study are recommended: the chemistry option and the more general physical science option. These are discussed and outlined in detail below.

A suitable sequence of courses can be arranged for the premedical student by exchanging certain chemistry courses, which are unessential to him, for required biology courses. He may not usually substitute technical subjects for any non-technical electives, because medical schools prefer students who have broad, liberal arts backgrounds. The premedical student should prepare himself for the C-199 and C-200 courses by taking the physical science freshman year program.

Pre dental and Pre-veterinary medical students should familiarize themselves with the requirements of the professional schools of their choices and work out satisfactory programs with their advisers.

Usually, pre-nursing students should take C-109 and C-110 to fulfill their chemistry requirements.

No less than 20 hours of electives will be devoted to non-technical subjects except for those planning to obtain teaching certificates or those following the American Chemical Society chemistry option described below.

THE CHEMISTRY OPTION is designed to give the student a firm foundation in chemistry, science in general, and liberal arts. The following courses are required of all students concentrating in chemistry, C-199, C-200, C-211 (or the equivalents of these for students transferring to Fort Lewis A & M College), C-231, C-321, and C-351. Appropriate additional chemistry courses are chosen to make up the required minimum of 32 credit hours for the major. The student pursuing the chemistry option can prepare himself for (1) graduate work in chemistry or science; (2) governmental work under Civil Service; (3) teaching chemistry at secondary school levels; (4) positions as chemists or technicians in industry research. Students planning to enter graduate schools of chemistry will save time and money by presenting the courses stipulated by the American Chemical Society as a minimum requirement. The usual qualifying examinations taken soon after entering a graduate school of chemistry assume that the student has a background equivalent to that which those courses would provide. The courses are: one year beginning college chemistry (C-199, C-200, and C-211), one year of organic chemistry (C-231 and C-232), one year of physical chemistry (C-321 and C-322), one year of analytical chemistry (C-351 and C-352), and one trimester of an additional advanced chemistry course (any course bearing a 300 series number may be taken with the approval of the student's adviser). In addition, he must present at least a year of college physics (this is satisfied by taking C-199, C-200, and PH-217), and at least one year of a foreign language, usually either German, French, or Russian.

THE PHYSICAL SCIENCE OPTION is designed to give the student a broader, less concentrated background than the chemistry option does. The freshman year is the same in both programs. In the middle and senior years, students may arrange a broad major consisting of not less than 16 credit hours selected from any two of the three physical science fields: chemistry-physics, chemistry-geology, or geology-physics. Many opportunities exist in industry, education, and Civil Service for people possessing broad, liberal scientific backgrounds. Students preparing to teach science at the junior or senior

high school levels will find that this gives them a good general background for their work.

Students desiring to teach in secondary schools will take as electives the required education courses listed on page 63.

Upon completing either option, the student becomes a candidate for the Bachelor of Science degree.

REQUIREMENTS FOR THE B.S. DEGREE— PHYSICAL SCIENCE MAJOR

	Credit Hours
Common Liberal Arts Requirements (see page 61)	38
M-121 College Mathematics	5
M-122 College Mathematics	5
M-231 Calculus	5
M-232 Calculus	5
Two trimesters of foreign language	8
	66
Common Physical Science Requirements:	
C-199 Principles of Chemistry and Physics.....	5
C-200 Principles of Chemistry and Physics.....	5
C-211 Inorganic Chemistry	5
PH-217 Modern Physics	5
	20*
Chemistry Option Requirements:	
C-231 Organic Chemistry	5
C-321 Physical Chemistry	4
C-351 Quantitative Analysis	5
Approved Chemistry Courses.....	8
	22
Physical Science Option Requirements:	
(Select two of the following secondary concentrations)	
Chemistry Secondary Concentration	
C-231 Organic Chemistry	5
C-321 Physical Chemistry	5
Geology Secondary Concentration	
G-113 Geomorphology	4
G-114 Historical Geology	4
G-207 Mineralogy	4
G-208 Petrology	5

*Counts as 10 hours credit for chemistry and 10 for physics.

Physics Secondary Concentration		Credit Hours
PH-254	Theoretical Mechanics	3
PH-261	Principles of Electricity and Magnetism.....	5
PH-270	Heat and Thermodynamics.....	3
		<hr/>
		19-28
Electives		18-27
		<hr/>
		132

PHYSICAL SCIENCE MAJOR—CHEMISTRY OPTION

SUGGESTED CURRICULUM PLAN

Freshman Year

First Trimester		Second Trimester		Third Trimester	
Man & Sci. World 211	3	Man & Sci. World 212	3	Speech 121	3
Freshman English 103	3	Freshman English 104	3	Physical Activity 103	1
Physical Activity 101	1	Physical Activity 102	1	Calculus 231	5
College Math. 121	5	College Math. 122	5	Prin.-Phy. & Chem. 199	5
Foreign Language	4	Foreign Language	4	Man & World Civ. 103	3

Middle Year

First Trimester		Second Trimester		Third Trimester	
Man & Soc. World 101	3	Man & Pol. World 102	3	Man & World Civ. 201	3
Calculus 232	5	Inorganic Chem. 211	5	Organic Chem. 231	5
Prin.-Phy. & Chem. 200	5	Modern Physics 217	5	Physical Chem. 321	4
Electives*	4	Electives*	4	Electives*	5

Senior Year

First Trimester		Second Trimester	
Man & Cultural Heritage 301	3	Man & Cultural Heritage 302	3
Quant. Analysis 351	4	Seminar 396	2
Electives*	9	Adv. Chem. Course	4
		Electives*	8

*Students wishing to comply with the recommended curriculum in chemistry of the American Chemical Society should substitute the following chemistry courses for electives: C-232 Organic Chemistry, C-322 Physical Chemistry, C-352 Instrumental Analysis, one trimester of an advanced chemistry course.

**PHYSICAL SCIENCE MAJOR—
PHYSICAL SCIENCE OPTION
SUGGESTED CURRICULUM PLAN**

Freshman Year

First Trimester	Second Trimester	Third Trimester
Man & Sci. World 211 3	Man & Sci. World 212 3	Man & World Civ. 103 3
Freshman English 103 3	Freshman English 104 3	Speech 121 3
Physical Activity 101 1	Physical Activity 102 1	Physical Activity 103 1
College Math. 121 5	College Math. 122 5	Calculus 231 5
Foreign Language 4	Foreign Language 4	Prin.-Phy. & Chem. 199 5

Secondary Concentrations—Chemistry and Physics

Middle Year

First Trimester	Second Trimester	Third Trimester
Man & Soc. World 101 3	Man & Pol. World 102 3	Man & World Civ. 201 3
Calculus 232 5	Inorganic Chem. 211 5	Organic Chem. 231 5
Prin.-Phy. & Chem. 200 5	Modern Physics 217 5	Theo. Mechanics 254 3
Electives 4	Electives 4	Electives 7

Senior Year

First Trimester	Second Trimester
Man & Cultural Heritage 301 3	Man & Cultural Heritage 302 3
Prin.-Elect. & Magn. 261 5	Physical Chem. 321 4
Electives 9	Heat & Thermo. 270 3
	Seminar 396 2
	Electives 5

Secondary Concentrations—Chemistry and Geology

Middle Year

First Trimester	Second Trimester	Third Trimester
Man & Soc. World 101 3	Man & Pol. World 102 3	Man & World Civ. 201 3
Calculus 232 5	Inorganic Chem. 211 5	Organic Chem. 231 5
Prin.-Phy. & Chem. 200 5	Modern Physics 217 5	Hist. Geology 114 4
Electives 4	Geomorphology 113 4	Electives 5

Senior Year

First Trimester	Second Trimester
Man & Cultural Heritage 301 3	Man & Cultural Heritage 302 3
Mineralogy 207 4	Physical Chem. 321 4
Electives 10	Petrology 208 4
	Seminar 396 2
	Electives 4

Secondary Concentrations—Geology and Physics

Middle Year

First Trimester	Second Trimester	Third Trimester
Man & Soc. World 101 3	Man & Pol. World 102 3	Man & World Civ. 201 3
Calculus 232 5	Inorganic Chem. 211 5	Historical Geology 114 4
Prin.-Phy. & Chem. 200 5	Modern Physics 217 5	Theo. Mechanics 254 7
Electives 4	Geomorphology 113 4	Electives 7

Senior Year

First Trimester	Second Trimester
Man & Cultural Heritage 301 3	Man & Cultural Heritage 302 3
Mineralogy 207 4	Petrology 208 4
Prin.-Elect. & Magn. 261 5	Heat & Thermo. 270 3
Electives 5	Seminar 396 2
	Electives 5

MINORS

The listing of courses required for several minors will be found on page 120 of the catalog. The requirements for other minors will be found where the major in the same field is discussed. (For example see page 67 on the requirements for the minor in business.)

TWO-YEAR PROGRAMS

Fort Lewis A & M College offers two-year programs in Pre-Agriculture, Pre-Engineering, Pre-Forestry and a terminal two-year curriculum in Secretarial Science. Suggested curriculum plans for these programs are shown below.

PRE-AGRICULTURE

SUGGESTED CURRICULUM PLAN

Freshman Year

First Trimester	Second Trimester	Third Trimester
Man & Soc. World 101 3	*Liberal Arts Core 3	Man & World Civ. 103 3
Freshman English 103 3	Freshman English 104 3	Range & Pasture Management 231 5
Gen. Chemistry 109 5	Elem. Org. Chem. 110 5	Frge. & Crop Pro. 102 5
Gen. Botany 101 4	Gen. Botany 102 4	Intro. to Livstk. 101 5
Physical Activity 101 1	Physical Activity 102 1	

*Select one of the other liberal arts core courses.

Middle Year

First Trimester

*Liberal Arts Core	3
Gen. Zoology 111	4
Soils 235	4
Feeds and Feeding 240	4
Phys. of Fm. An. 221	4

PRE-ENGINEERING

SUGGESTED CURRICULUM PLAN

Freshman Year

First Trimester

Man & Soc. World 101	3
Freshman English 103	3
College Math. 121	5
Engr. Graphics 111	3
Engr. Problems 103	1
Physical Activity 101	1

Second Trimester

Man & Sci. World 212	3
Freshman English 104	3
College Math. 122	5
Engr. Graphics 112	3
Physical Activity 102	1

Third Trimester

Man & World Civ. 103	3
Prin.-Chm. & Phy. 199	5
Calculus 231	5
Statics 217	3
Physical Activity 103	1

Middle Year

First Trimester

*Liberal Arts Core	3
Prin.-Chm. & Phy. 200	5
Calculus 232	5
Dynamics 221	3

Second Trimester

*Liberal Arts Core	3
Modern Physics 217	5
Inorganic Chem. 211	5
Strength of Matls. 245	5

PRE-FORESTRY

SUGGESTED CURRICULUM PLAN

Freshman Year

First Trimester

Man & Soc. World 101	3
Freshman English 103	3
Gen. Zoology 111	4
Gen. Botany 101	4
Forestry & Allied Prof. 101	0
Physical Activity 101	1

Second Trimester

Man & Pol. World 102	3
Elem. Sys. Botany 105	4
Freshman English 104	3
Coll. Alg.-Trig. 108	5
Map Drafting & Reading 112	1

Third Trimester

Man & World Civ. 103	3
Elem. Surveying 251	3
Dendrology 211	4
Gen. Chem. 109	5
Physical Actiivty 103	1

*Select one of the other liberal arts core courses.

Middle Year

First Trimester

Man and Cultural Heritage 302	3
Gen. Botany 102	4
Range & Forage Plants 259	3
Elem. Org. Chem. 110	5

SECRETARIAL SCIENCE

SUGGESTED CURRICULUM PLAN

Secretarial science courses constitute a two-year program of study leading to the Associate of Arts degree. Students must complete 64 semester hours of study as designated, with an average of "C".

Freshman Year

First Trimester	Second Trimester	Third Trimester
Man & Soc. World 101	*Liberal Arts Core	Man & World Civ. 103
Freshman English 103	Freshman English 104	Bus. Comm. 121
Advanced Typing 108	Adv. Shorthand 112	Transcription 127
Elem. Shorthand 111	Secretarial Acct. 221	Physical Activity 103
Physical Activity 101	Physical Activity 102	Electives
Electives		

Middle Year

First Trimester

*Liberal Arts Core	3
Business Law 211	5
Secretarial Proc. 131	4
‡Electives	4

*It is recommended that one semester of LA-301 or LA-302 Man and His Cultural Heritage, and one semester of LA-211 or LA-212 Man and the Scientific World be selected.

‡Recommended electives EL-110 Vocabulary Building, EL-121 Fundamentals of Speech, PS-211 General Psychology.

SPECIAL PROGRAM IN TEACHER-TRAINING

*A special program
in education provides
the required courses
for certification
to teach.*



The listing of the required courses for the special program in teacher-training will be found on page 63. The program trains teachers for both the elementary and secondary school systems.

DESCRIPTION OF COURSES

AGRICULTURE

- AG-101 INTRODUCTION TO LIVESTOCK (4-3)5
Introduces the student to the basic elements of animal husbandry with emphasis on beef, sheep, swine, and dairy production.
- AG-102 FORAGE AND CROP PRODUCTION (4-3)5
Principles of forage and field crop production. Crops in Colorado are stressed.
Prerequisite: BS-101.
- AG-221 PHYSIOLOGY OF FARM ANIMALS (4-0)4
A study of the functions of the principal systems of the bodies of farm animals with emphasis on ruminant physiology.
Prerequisites: BS-111 and C-109. C-110 preferred.
- AG-231 RANGE AND PASTURE MANAGEMENT (4-3)5
A study concerning management, development, and utilization of range land and pasture. A short survey of the more common poisonous plants will be given.
Prerequisite: BS-101, AG-102.
- AG-235 SOILS (3-2)4
A basic course dealing with the formation, properties, and management of soils with special attention given to soil conditions that affect moisture relations and elementary fertility analysis.
Prerequisite: C-110.
- AG-240 FEEDS AND FEEDING (3-3)4
A study of the principles of feeding livestock with emphasis on the use of feeds available in the western states. Laboratory consists of calculating rations.
Prerequisite: C-109 and Middle-year standing.
- A7-250 FARM MANAGEMENT (3-0)3
Basic economic principles applied to farm and ranch operations.

ART

- A-160 TWO AND THREE DIMENSIONAL DESIGN (0-6)4
A course dealing with two-dimensional design in college form and bas-relief. It also consists of modeling in plastic material and carving and shaping more rigid and resistant materials such as wood, metal, and stone. Many various techniques with each media shall be explored.
- A-170 DRAWING (0-6)4
A foundation course for other art forms as well as being a complete

form in itself. Practice in problems of technique, perspective, color and design, and basics of composition. Subject-matter to deal with still life, landscape, animals and the human figures.

(Course work in this area offered at the beginning and advanced levels.)

- A-171 DRAWING (0-6)4
A continuation of A-170.
Prerequisite: A-170.
- A-220 PAINTING (0-6)4
Instruction in oil painting materials and the various techniques. Students will concentrate on compositional and color problems while working from human figures, still life and landscape. Non-objective approaches to form concepts will be dealt with.
(Course work in this area offered at the beginning and advanced levels.)
- A-221 PAINTING (0-6)4
A continuation of A-220.
Prerequisite: A-220.
- A-263 ADVANCED STUDIO (0-6)4
Special topics.
- A-350 THEORY AND AESTHETICS (3-0)4
The appreciation and understanding of the various art forms.
- A-363 ADVANCED STUDIO (0-6)4
Special topics.

BIOLOGICAL SCIENCE

- BS-101 GENERAL BOTANY (3-3)4
Study of the structure, function, and development of seed-producing plants.
- BS-102 GENERAL BOTANY (3-3)4
Study of the development of plant kingdom from the algae through the cone-producing plants.
Prerequisite: BS-101.
- BS-105 SYSTEMATIC BOTANY (3-3)4
A study of the classification and relationship of the major flowering plant groups; use of plant keys and related terminology.
Prerequisite: BS-101.
- BS-111 GENERAL ZOOLOGY (3-3)4
Study of the structure and function of the human body using the frog as a laboratory animal.

- BS-112 **GENERAL ZOOLOGY** (3-3)4
Study of the animal phyla with particular reference to classification, anatomy, and economic importance.
Prerequisite: BS-111.
- BS-208 **PLANT PHYSIOLOGY** (2-3)3
A detailed study of the functions of plants. Taught on demand.
Prerequisite: BS-102.
- BS-211 **ANATOMY AND PHYSIOLOGY** (3-6)5
A detailed study of animal cells, tissues, gross anatomy and physiology, with particular reference to man.
Prerequisite: BS-111.
- BS-214 **ENTOMOLOGY** (2-3)3
A study of the general anatomy and physiology of insects, their identification and control.
Prerequisite: BS-111.
- BS-200 **MICROBIOLOGY** (4-6)6
Study of bacteria and related groups with emphasis on their functions, culture, and identification, including diseases of economically important plants. Taught on demand.
Prerequisite: BS-102.
- BS-231 **ECOLOGY** (4-3)5
An introductory study of the relationships between animals, plants and their environment.
Prerequisite: BS-102, 112.
- BS-307 **GENETICS** (3-3)4
An investigation of inheritance with emphasis on the genetics of man, crops, and domestic animals. A discussion of the genetic basis of evolution is included.
Prerequisite: BS-111.
- BS-311 **FIELD ZOOLOGY** (4-3)5
Designed to acquaint the student with the vertebrate fauna of the region, their identification and field habits.
Prerequisite: BS-112.

BUSINESS AND ECONOMICS

- B-108 **ADVANCED TYPING** (2-3)3
The development of skill in office production: Business letter forms, business forms, tabulation, stencils, and manuscripts. Use of electric machines.
Prerequisite: Qualification exam in typing.

- B-111 **ELEMENTARY GREGG SHORTHAND** (2-3)3
 The basic principles of reading and writing shorthand. Dictation of practiced material.
 Entrance into this course and B-112 is determined by an exam administered by the Business Division.
- B-112 **ADVANCED SHORTHAND** (2-3)3
 Dictation and transcription. Shorthand vocabulary building.
 Prerequisite: See B-111, above.
- B-121 **BUSINESS COMMUNICATIONS** (3-0)3
 A study of the form and composition of written communication in business. Includes composition of letters of inquiry, reply, application, sales, credit, adjustment, and collection; telegrams, memos, business reports, and job application data sheets.
 Prerequisite: Two trimesters of English and ability to type.
- B-127 **TRANSCRIPTION** (3-6)5
 Advanced dictation, speed building, and development of skill in shorthand and machine transcription.
 Prerequisite: B-112, and ability to type.
- B-131 **SECRETARIAL PROCEDURE** (2-2)3
 Basic secretarial principles and procedures, including filing procedure, mail and telephone techniques, duplicating machine use, receiving callers, business etiquette, and personal transportation.
 Prerequisite: B-112, and ability to type.
- B-144 **QUANTITATIVE BUSINESS TECHNIQUES** (2-2)3
 The latest arithmetical techniques used in business and accounting. Stress is placed on applications. Includes a thorough instruction in the use of key-driven, rotary, and listing calculators; and ten-key adding machines.
- B-201 **BUSINESS MANAGEMENT** (3-0)4
 Fundamentals of the administration and organization of the firm. Human relations are stressed through outside readings and cases.
 Prerequisite: B-225 or concurrent registration.
- B-211 **BUSINESS LAW** (5-0)5
 Basic principles of law as applied to business transactions. Included is the law of contracts and sales, sales warranties, law of agency, negotiable instruments and personal property.
 Prerequisite: B-225 or concurrent registration.
- B-221 **SECRETARIAL ACCOUNTING** (3-2)4
 Basic principles of double entry bookkeeping as applied to the single proprietorship. Emphasis is placed on the recording of daily transactions. Of high value as an elective for those desiring a general knowledge of the bookkeeping process.

- B-225 PRINCIPLES OF ACCOUNTING (3-2)4
The theory of double entry bookkeeping. Principles of the balance sheet and the income statement are considered along with the accounting cycle, accruals and apportionments, working papers, merchandise accounting and the voucher system. Corporate accounting is stressed.
Prerequisite: 15 credit hours.
- B-226 PRINCIPLES OF ACCOUNTING (3-2)4
Inventory, manufacturing, and managerial accounting. Introduction to financial statement analysis, budgeting, mergers and consolidations.
Prerequisite: B-225.
- B-251 BUSINESS STATISTICS (3-2)4
Collecting, tabulating, analyzing, presentation, and interpretation of business and economic statistical data. Correlation, both linear and multiple, time series analysis, index numbers, and statistical inference are described and used in practical business applications.
Prerequisite: M-101.
- B-254 MATHEMATICS OF FINANCE (3-0)3
Simple interest, compound interest, equations of equivalence, simple and ordinary annuities, perpetuities, amortization and sinking funds, bonds and depreciation.
Prerequisite: M-108.
- B-262 PRINCIPLES OF ECONOMICS (3-0)3
Price determination and income distribution in a capitalistic economy, investigation of current economic issues with particular emphasis on labor-management relations, agriculture, international trade, and government regulation of business.
Prerequisite: LA-103.
- B-301 PERSONNEL AND LABOR RELATIONS (4-0)5
Personnel selection, placement, training, promotion, wage incentives, absenteeism, and counseling. Includes a study of the development of the labor movement, collective bargaining, and labor economics.
Prerequisite: B-201.
- B-305 BUSINESS POLICIES AND PUBLIC RELATIONS (3-0)4
The first part of the course concerns the firm as an American institution; its place in society, its responsibilities, and duties. A study of the history and present impact of governmental regulation and activities as it affects the businessman. The course concludes with an analysis of the problems encountered by management in its daily operations. The case method is stressed.
Prerequisite: B-301 or concurrent registration.

- B-308 OFFICE MANAGEMENT** (3-0)4
The principles of office management and the responsibilities of management for office services, office layout and space utilization, office furniture and equipment, machines and appliances, branch office management, office personnel problems, training of office workers, office costs, and office methods and procedures. Individual research required.
Prerequisite: B-201.
- B-321 INTERMEDIATE ACCOUNTING** (3-4)5
Accounting theory and practice applicable to corporate net worth accounts, investments, reserves, and income. Accounting theory and practice applicable to current assets, fixed assets, liabilities, and sources and applications of funds.
Prerequisite: B-226 with a grade of "C" or better.
- B-325 COST ACCOUNTING** (3-0)3
Specialized accounting procedures applicable to job order and process cost manufacturing operations.
Prerequisite: B-226.
- B-330 INCOME TAX ACCOUNTING** (3-0)3
Preparation of income tax returns. Laws and applications.
Prerequisite: B-321.
- B-340 MARKETING** (5-0)5
The first part of the course is devoted to a broad investigation of the channels of distribution with an emphasis on marketing functions, policies and costs. The course is concluded with an investigation of the marketing institutions, with special emphasis on retailing. The techniques of marketing research are also covered.
Prerequisite: B-262. B-225 or concurrent registration.
- B-361 MANAGERIAL ECONOMICS** (3-0)4
Business problems from an economic point of view. Includes the analysis and application of value and distribution theory; price and output decisions of business firms under conditions of competition, oligopoly, and monopoly. Analysis of specific industries is stressed.
Prerequisite: B-262.
- B-365 MONETARY ECONOMICS** (4-0)5
Money, monetary systems, central banking, monetary theory, and the functions of various financial institutions including commercial banks. Included is an historical, statistical, and analytical consideration of the business cycle using modern techniques of national income accounting.
Prerequisite: B-262 and B-251.

- B-380 BUSINESS FINANCE (4-0)4**
The financial structure of various types of business organizations, including sole proprietorships, partnerships, and corporations. Methods of securing and managing funds to meet short- and long-term capital requirements.
Prerequisite: B-226.
- B-383 INVESTMENTS (3-0)3**
Analysis of several theories of investment followed by an investigation and study of security markets. Corporate bonds and stock are stressed, however federal and state bonds and private investment opportunities are also considered. Taught on demand.
- B-386 INSURANCE (3-0)3**
Coverages available, buying methods, and general procedures of operation of all types of insurance companies. Special emphasis on the analysis of the standard or more common forms of fire, marine, casualty, and life insurance contracts. Taught on demand.
- B-389 REAL ESTATE (3-0)3**
The regulation, practices, legal aspects, and professional ethics of the real estate business. Some consideration is given to real estate appraisal techniques and theory. Taught on demand.
Prerequisite: B-211.

CHEMISTRY

- C-109 GENERAL CHEMISTRY (4-3)5**
This is a course in the basic principles of inorganic chemistry. It is generally intended for students who do not plan to take more than two trimesters of chemistry, but may be applied to a minor in chemistry by liberal arts students or students of biological sciences provided a grade of at least "C" is made in the course. The course consists of lectures, demonstrations, quizzes and laboratory exercises. Not open to physical science majors for credit.
Prerequisite: One year of high school algebra or permission of instructor.
- C-110 ELEMENTARY ORGANIC CHEMISTRY (4-3)5**
A course in organic chemistry intended for biological sciences students, liberal arts students taking a minor in chemistry or others wishing simply to round out a normal academic year of chemistry. The lecture, demonstration and quiz portions of the course are the same as C-231, but the laboratory portion of the course is shorter and devotes much time to elementary biochemical experiments. Not open to physical science majors for credit.
Prerequisite: C-109 or equivalent.

- C-199 PRINCIPLES OF CHEMISTRY AND PHYSICS (4-3)5
An introductory course combining the fields of physics and chemistry. The course integrates the study of measurements, energy concepts and atomic theory; introduces the periodic law and covers the concepts of valence, vectors, forces, dynamics, Newton's Laws, rotational and simple harmonic motion, the gas laws, and kinetic molecular theory.
Corequisite: M-231.
- C-200 PRINCIPLES OF CHEMISTRY AND PHYSICS (4-3)5
This course is a continuation of C-199. It covers the areas of phase changes, field concepts, electrostatics, electric currents, magnetism, Faraday's Laws, electromagnetic waves, atomic structure, quantum theory, nuclear physics, electronic configuration and chemical bonding.
Prerequisite: C-199, or one trimester each of college chemistry, physics, and calculus.
- C-211 INORGANIC CHEMISTRY (3-6)5
This course involves much descriptive inorganic chemistry, but also includes an introduction to such topics as modern theories of acids and bases, pH, reaction rates, equilibrium and solubility constants. Topics in qualitative analysis comprise most of the laboratory part of the course.
Prerequisite: C-200 or permission of instructor.
- C-231 ORGANIC CHEMISTRY (3-6)5
By means of lectures, quizzes, problem solving and laboratory, this course involves a study of the simpler aliphatic and aromatic mono- and polyfunctional compounds. It includes a brief survey of elementary biochemistry, including the chemistry and metabolism of fats, carbohydrates, and proteins. Some natural products are studied. This course is intended to satisfy the first trimester requirement of students who intend to take two trimesters or more of organic chemistry as well as those who need only one trimester of it.
Prerequisite: C-200 or permission of instructor.
- C-232 ORGANIC CHEMISTRY (3-6)5
This course is carried on in the same manner as C-231 and may be regarded as a continuation of it. More complex aliphatic and aromatic compounds as well as some heterocyclic compounds and substances of biological and technical importance are studied.
Prerequisite: C-231 or equivalent.
- C-250 ELEMENTARY PHYSICAL CHEMISTRY (3-3)4
A one trimester course covering some of the more pertinent aspects of physical chemistry for students of biological sciences or liberal arts. Not open to physical science majors for credit.
Prerequisite: C-211 or equivalent, and M-108.

- C-321 **PHYSICAL CHEMISTRY** (3-3)4
A lecture and laboratory course presenting modern physiochemical theories. Concepts of matter, thermodynamics and thermochemistry are covered.
Prerequisites: C-211, PH-217, and M-232.
- C-322 **PHYSICAL CHEMISTRY** (3-3)4
A continuation of C-321. Chemical equilibrium, chemical kinetics, electrochemistry and selected topics are studied.
Prerequisite: C-321 or equivalent.
- C-344 **ADVANCED ORGANIC CHEMISTRY** (3-0)3
A tutorial course presenting a study of types of chemical bonding, resonance, hydrogen bonding, free radicals and selected topics.
Prerequisite: C-232 and C-322, or equivalents.
- C-351 **QUANTITATIVE ANALYSIS** (2-6)4
Analysis of simple substances and complex mixtures. Experiments in the principles of chemical separation are included. Potentiometric and conductometric titrations and the simpler instrumental methods together with modern techniques of analysis of traces are studied.
Prerequisites: C-321; C-322 is preferred.
- C-352 **INSTRUMENTAL ANALYSIS** (2-6)4
Modern theory and practice of analysis by instrumental means. Colorimetry, spectroscopy, including ultra-violet and infrared, potentiometric methods, polarography and other systems are studied.
Prerequisite: C-351 or permission of instructor.

EDUCATION

- ED-207 **EDUCATION IN AMERICA** (3-0)3
Designed for students desiring information about the American school system and for prospective teachers. Topics covered are: Introduction to education, history and philosophy of education, school organization and administration, characteristics of successful teachers, teaching as a profession, and observation of teaching.
- ED-218 **EDUCATIONAL PSYCHOLOGY AND MEASUREMENTS** (3-2)4
Principles of psychology applied to the learning and teaching processes including psychological research in the field of education. Principles of tests and measurements as proven practical by past and current research including actual experience in taking and scoring aptitude, intelligence, and other tests. Experiments in perception and practical experience in collecting and analyzing data.
Prerequisite: Ps-211, M-101 or permission or instructor.
- ED-227 **CHILDREN'S LITERATURE** (3-0)4
See EL-227 for description.

- Ed-232 ELEMENTARY SCHOOL LANGUAGE ARTS (4-0)4**
 Modern methods and practices that are used in teaching reading, creative writing, speaking, spelling and handwriting in the elementary grades. Students are helped to recognize and to make provision for readiness for learning in these areas, to learn or devise various techniques that meet the needs of different children and situations, and to evaluate, select and create suitable materials to be used at various maturity levels.
- Ed-245 ELEMENTARY SCHOOL ARITHMETIC AND SCIENCE (4-2)5**
 Modern methods and practices that are used in teaching arithmetic and science in the elementary school. Simple demonstrations, experiments, collections, acquisition of free and inexpensive materials, reference publications, and the most modern methods and trends in field trip procedures are considered.
- Ed-301 ELEMENTARY EDUCATION (4-0)4**
 Information relative to elementary education not covered in the course Education in America; organization and management of instruction and the principles of teaching as applied to the elementary school; observation in the public school; case studies; programming of instruction; and materials of instruction including audio-visual aids.
- Ed-302 SECONDARY EDUCATION (4-0)4**
 Information relative to secondary education not covered in the course Education in America; organization and management of instruction and the principles of teaching as applied to the secondary school; observation in the public schools; case studies; programming of instruction; and materials of instruction including audio-visual aids.
- Ed-309 ELEMENTARY SCHOOL SOCIAL STUDIES AND COLORADO HISTORY (3-0)3**
 See SS-309 for description.
- Ed-380 METHODS OF TEACHING (3-0)3**
 A course designed for the prospective secondary school teacher in the methods, techniques, and evaluation or teaching in a specified subject matter field. Attention is given to the historical development and new trends within the subject matter area and their influence upon curriculum, learning and teaching.
 Prerequisite: Senior standing and approval of Teacher Education Committee.
- Ed-390 SUPERVISED STUDENT TEACHING 8**
 Full-time student teaching for one-half term with observation is required of all students who are working toward a teaching certificate. The student is assigned to an experienced teacher and spends the first week in observation and participation, then gradu-

ally takes over teaching responsibilities—one class, then two, then three. Homeroom guidance, club work, etc. which round out the program of the modern public school are a part of his privileges and responsibilities. The student is also assigned a college supervisor who holds group conferences to clear up problems which students have encountered while teaching.

Application must be made in writing by April 15th of the year prior to doing student teaching.

Prerequisite: Approval of the College Teacher Education Committee.

Corequisite: Ed-301 or 302, and Ed-380.

ENGINEERING

- E-103 ENGINEERING PROBLEMS (2-0)1**
Orientation and introduction to engineering. Overview of the engineering field with a study of the special requirements in each area. Intensive study of the slide rule and its operation. Engineering problem form. Introduction to the solution of problems basic to engineering problems.
- E-111 ENGINEERING GRAPHICS I (2-4)3**
The use of drafting instruments, linework and lettering, dimension, applied geometry, isometric and orthographic projections, auxiliary views, sections, engineering symbols, graphic representation of three dimensional objects by orthographic and pictorial drawings and sketching.
- E-112 ENGINEERING GRAPHIC II (2-4)3**
Solution of spatial relationship of points, lines and surfaces, principal and auxiliary views, developments, intersections and warped surfaces; graphic solutions of engineering problems, functional scales, basic alignment charts; practical problems involving the above principles with emphasis on development of ability to visualize objects in space.
Prerequisite: E-111.
- E-205 ELEMENTARY SURVEYING (2-4)3**
Care and use of surveying instruments. Solutions of surveying problems, plane surveying methods of measuring distances, angles and elevations.
Prerequisite: M-121 or M-108.
- E-206 ADVANCED SURVEYING (2-4)3**
Geodetic surveying methods, astronomical observations, topographic surveys and field applications to surveying and mapping.
Prerequisite: E-205.

- E-217 STATICS (3-0)3
Co-planar, non-planar, concurrent and non-concurrent force systems.
Corequisite: M-231.
- E-221 DYNAMICS (3-0)3
A study of the mechanics of bodies in motion, and the resulting effects of force, mass and acceleration.
Prerequisite: E-217.
- E-245 STRENGTH OF MATERIALS (3-3)4
Stresses, deformations, mechanics of pipes, seams, shafts, columns, riveted joints, welded joints, elastic curves and deflections, moment areas, combined stresses, resilience. Determination of strength, ductility, modulus of elasticity, and other properties of engineering materials.
Prerequisite: E-217.
- E-258 INTRODUCTION TO ENGINEERING METALLURGY (2-3)3
Constitutional diagrams; equilibrium and non-equilibrium conditions; properties of metals and alloys related to structure; elementary physics of metals.
Prerequisite: C-200.

ENGLISH

- EL-100 DEVELOPMENTAL READING (0-2)1
A course designed to increase the reading rate and comprehension level of any student through the use of reading drills, visual aids, and vocabulary study.
- EL-103 FRESHMAN ENGLISH (3-0)3
Training in good usage in written and oral expression. Practice in composition, reading, and usage drills designed to develop sound habits in logical thought and effective communication.
Prerequisite: Satisfactory score on entrance examination or a grade of "C" in R-16.
- EL-104 FRESHMAN ENGLISH (3-0)3
A continuation of EL-103 with emphasis on longer units of composition.
Prerequisite: EL-103.
- EL-110 VOCABULARY BUILDING (3-0)3
A course designed to stimulate growth in vocabulary by stressing linguistic roots, phonetics, and accuracy in the use of words.
Prerequisite: EL-103.
- EL-121 FUNDAMENTALS OF SPEECH (3-0)3
Through closely supervised activities in various speech forms, the

student develops skills in the organization and delivery of speeches which are encountered in the dynamics of a democratic society.

- EL-167 WORLD LITERATURE (3-0)4
Selected works of non-English speaking peoples from ancient to modern times examined with attention to the predominant thoughts of diverse cultures.
Prerequisite: EL-104.
- EL-175 THE ESSAY AND SHORT STORY (4-0)5
A study of the essay, short story, and other short prose writings examined with regard to their social significance.
Prerequisite: EL-104.
- EL-189 INTRODUCTION TO JOURNALISM (2-3)3
A general introduction to the history and forms of journalism, with special attention to the editorial side of journalism, including news writing, features, editorial, interviews, sports stories, and the function of photography. Practical experience will be gained through helping in the production of the campus newspaper.
- EL-204 ADVANCED COMPOSITION (3-0)3
Basic techniques of exposition and imaginative writing. Various forms and styles are explored.
Prerequisite: EL-104 and permission of instructor.
- EL-208 MASS COMMUNICATIONS AND MEDIA (3-4)5
Special aspects of the mass communications industry. The course includes such non-editorial functions as advertising, business and the actual operations of the industry. The course will include a survey in its theoretical and practical aspects of advertising, both in its marketing role, and as a profession. Includes practice in layout, copywriting and the choice of the most efficient media (television, radio, newspapers, etc.) for advertising campaigns. Practical experience through the continued operation of the campus newspaper and other media.
- EL-212 ADVANCED PUBLIC SPEAKING (3-0)3
A study designed to handle larger units of persuasive speech materials.
Prerequisite: EL-121 and permission of instructor.
- EL-227 CHILDREN'S LITERATURE (3-0)4
Folk literature, poetry, drama, and informational books for pre-school and elementary school children. Emphasis is placed upon the development of criteria for the selection of appropriate literature for children at different levels.
- EL-239 DEVELOPMENT OF THE ENGLISH AND AMERICAN NOVEL (4-0)5
A course devoted to the history and development of the novel in English and American literature. Special emphasis is given to

major writers and their contributions to the novel as a form of art.
Prerequisite: EL-104.

- EL-242 FORMS OF POETRY (3-0)4
The forms and development of English and American poetry from medieval times to the present. Special emphasis is given to the analysis of the characteristic and predominant forms of poetry of the major literary periods.
Prerequisite: EL-104.
- EL-258 DRAMATIC LITERATURE (5-0)5
A study and analysis of plays exclusive of Shakespeare. Selected works from the major dramatic periods will be studied.
Prerequisite: EL-104.
- EL-263 THE GREAT ROMANTIC PERIOD IN LITERATURE (5-0)5
Prose and poetry of the Romantic era with particular emphasis upon the literary and philosophical doctrines in English and American Writings.
Prerequisite: EL-104.
- EL-270 CONTEMPORARY LITERATURE (5-0)5
Selected works representative of major trends in English and American literature of the late 19th and 20th centuries.
Prerequisite: EL-104.
- EL-320 SHAKESPEARE (4-0)4
A study of selected tragedies, histories, and comedies.
Prerequisite: EL-104.
- EL-331 PRE-ELIZABETHAN LITERATURE AND LINGUISTICS (4-0)4
The development of the English language from Anglo Saxon to Middle-English times. Selected writings to 1500 will be studied.
Prerequisite: EL-104.
- EL-355 LITERARY CRITICISM (3-0)4
An examination of the major critical doctrines as an aid to greater understanding of literature. Will include written criticism of selected writings.
Prerequisite: EL-104.

FOREIGN LANGUAGES

- FL-109 INTRODUCTORY LATIN (4-0)4
An introduction to the Latin language.
- FL-110 FIRST-YEAR LATIN (4-0)4
A continuation of FL-109.
Prerequisite: FL-109.

- FL-115 ELEMENTARY SPANISH I (4-0)4
A course in grammar, prose composition, reading and conversation.
- FL-116 ELEMENTARY SPANISH II (4-0)4
Further study of Spanish with emphasis on reading, composition and conversation.
Prerequisite: FL-115.
- FL-123 ELEMENTARY GERMAN I (4-0)4
A course in grammar, pronunciation and reading.
- FL-124 ELEMENTARY GERMAN II (4-0)4
Continuation of FL-123.
Prerequisite: FL-123.
- FL-147 ELEMENTARY FRENCH I (4-0)4
A course in grammar, prose composition, reading and conversation.
- FL-148 ELEMENTARY FRENCH II (4-0)4
Further study of French with emphasis on reading, composition and conversation.
Prerequisite: FL-147.
- FL-215 INTERMEDIATE SPANISH I (3-0)3
A course in second-year Spanish with emphasis on reading and conversation.
Prerequisite: FL-116.
- FL-216 INTERMEDIATE SPANISH II (3-0)3
Continuation of FL-215.
Prerequisite: FI-215.
- FL-223 INTERMEDIATE GERMAN I (3-0)3
A continuation of FL-124 with emphasis on reading and conversation.
- FL-224 INTERMEDIATE GERMAN II (3-0)3
Continuation of FL-223.
Prerequisite: FL-223.
- FL-247 INTERMEDIATE FRENCH I (3-0)3
A course in second-year French with emphasis on reading and conversation.
Prerequisite: FL-148.
- FL-248 INTERMEDIATE FRENCH II (3-0)3
Continuation of FL-247.
Prerequisite: FL-247.

- FL-281 **THIRD-YEAR FRENCH** (3-0)3
 Masterpieces of French literature from LaChanson de Roland to 1715. The course presupposes ability to comprehend written and spoken French with ease and to speak and write with some facility.
 Prerequisite: FL-248 or permission of instructor.
- FL-282 **THIRD-YEAR FRENCH** (3-0)3
 Masterpieces of French literature from 1715 to 20th Century.
 Prerequisite: FL-281 or permission of instructor.

FORESTRY

- F-101 **FORESTRY AND ALLIED PROFESSIONS** (1-0)0
 Professional responsibilities, advantages, disadvantages, job characteristics, training, and education requirements for the profession.
- F-106 **MAP DRAFTING AND READING** (0-3)1
 Lettering and use of simple drafting equipment. Map interpretation.
- F-211 **DENDROLOGY** (3-3)4
 Classification, identification, silvical characteristics, economic importance and distribution of the broad leaved and coniferous trees of the United States.
 Prerequisite: BS-101.
- F-259 **RANGE AND FORAGE PLANTS** (2-3)3
 Distribution, growth habits, ecological requirements and importance of range plants in relationship to their use by big game and domestic animals.
 Prerequisite: BS-105.

GEOLOGY

- G-113 **GEOMORPHOLOGY** (3-3)4
 Detailed study of processes at work on the land surfaces and of land-forms produced by various agents under different climatic conditions.
 Prerequisite: LA-212.
- G-114 **HISTORICAL GEOLOGY** (3-3)4
 Geologic history of the earth as recorded in the rocks and in the fossils they contain; development of life on earth from its beginning to the advent of prehistoric man.
 Prerequisite: G-113.
- G-207 **MINERALOGY** (3-3)4
 Elements of crystallography, classification and identification of (approximately 150) minerals.
 Prerequisite: G-113.
- G-208 **PETROLOGY** (3-3)4
 Megascopic and microscopic study of igneous, metamorphic, and sedimentary rocks with emphasis on the physical and chemical con-

ditions governing the origin, occurrences and association of various rock types.

Prerequisite: G-207.

- G-233 INTRODUCTION PALEONTOLOGY (4-3)5
Systematic study of fossils, dealing primarily with generic characteristics of those fossils used often in the identification and correlation of geologic formations.
Prerequisite: G-114.

INDUSTRIAL ARTS

- IA-101 ELEMENTARY WOODWORKING (2-5)4
Introduction to industrial arts emphasizing fundamental processes in hand woodworking and carpentry through layout and construction of simple projects. Also stresses the care and maintenance of hand tools.
- IA-102 ADVANCED AND MACHINE WOODWORK (2-5)4
Continuation of elementary woodwork, emphasizing the use of power woodworking tools and finishing materials.
Prerequisite: IA-101.
- IA-110 MACHINE DRAWING (2-5)4
Continuation of E-101. Stresses dimensioning, lettering layout of machine parts, ink tracings and blue printing techniques.
Prerequisite: E-101.
- IA-201 ELECTRIC WELDING (2-5)4
A basis course in the uses and methods of operating welding equipment. Includes flat, vertical and overhead welding and use of the cutting torch.
- IA-220 CRAFTS (2-5)4
A basis course in lapidary and art metal. The cutting and polishing of gem quality rocks and the tooling of aluminum, copper and brass and etching of aluminum.

LIBERAL ARTS

- LA-101 MAN AND THE SOCIAL WORLD (3-0)3
College orientation and general psychology of a practical nature to help the entering student adjust to college life. The location of the major places of the world for an intelligent understanding of current world problems. An awareness and general knowledge of the human environment in which the citizen operates. General aspects of culture and personality plus the folkways, mores, and institutions of American culture.

- LA-102 MAN AND THE POLITICAL WORLD (3-0)3
 A study of the form and operation of the federal government as a basis for intelligent citizenship. An analysis of the major forces in international relations with particular emphasis on the impact of new states in the family of nations, U.S. defense and U.S. foreign policy. A study of the personal financial affairs which every citizen should know.
- LA-103 MAN AND WORLD CIVILIZATION (3-0)3
 Fundamental principles of economics with emphasis upon special problems in the field. Beginning the study of the history of world civilization with particular emphasis on the development of western civilization.
- LA-201 MAN AND WORLD CIVILIZATION (3-0)3
 A continuation of the survey of the history of world civilization with balanced attention given to political, social, economic, and cultural developments of the past that help to explain current world civilization.
- LA-211 MAN AND THE SCIENTIFIC WORLD (3-0)3
 Principles and natural laws explaining important scientific concepts. Energy and energy changes. Particle and wave motion. Chemical changes and familiar compounds. Nuclear concepts and atomic energy.
- LA-212 MAN AND THE SCIENTIFIC WORLD (3-0)3
 Weather phenomena and weather prediction, origin of the earth and changes which it is undergoing. Deastrophism and erosion. Rocks and minerals. The solar system. Concepts of matter and space. Advent of life on the earth. Concepts of biology as based on characteristics of living matter.
- LA-301 MAN AND HIS CULTURAL HERITAGE (3-0)3
 A course devoted to the study of the expression of man as revealed in his art and music.
- LA-302 MAN AND HIS CULTURAL HERITAGE (3-0)3
 An examination of man's thought as evidenced in his religious, philosophical, and literary works, with a further examination of the interrelationships of these various aspects of society and their relation to the total culture.
- LA-396 SEMINAR (2-0)2
 Students prepare and present a library research paper. Modern trends and literature are emphasized.
 Prerequisite: Senior standing and permission of instructor.

- LA-399 INDEPENDENT STUDY 1-3
Individual research conducted under the supervision of the major professor.
Prerequisite: Approval of Division Chairman.

MATHEMATICS

- M-101 FUNDAMENTALS OF MATHEMATICS (4-0)4
Fundamental arithmetic, elementary algebra through systems of linear equations, interest formulas and introduction to statistics. Designed for business and non-science students.
- M-108 COLLEGE ALGEBRA-TRIGONOMETRY (5-0)5
College algebra through systems of quadratic equations, trigonometric functions, logarithms and the solution of triangles.
- M-111 ELEMENTARY STATISTICS (3-0)3
Types of data, measures of central tendency, standard deviation, moments, distributions, linear regression and correlation, elements of sampling theory and statistical inference.
Prerequisite: M-108.
- M-121 COLLEGE MATHEMATICS I (5-0)5
Mathematical logic, number systems, mathematical induction, polynomials, algebraic fractions, exponentials, linear and quadratic equations, trigonometric functions and solution of triangles.
Prerequisite: One and one-half years of high school algebra, one year of high school geometry and a satisfactory ACT score.
- M-122 COLLEGE MATHEMATICS II (5-0)5
Trigonometric identities and equations, inverse trigonometric functions, inequalities, algebraic functions, exponential and logarithmic functions, analytic geometry, introduction to calculus and hyperbolic functions.
Prerequisite: M-121 or M-108.
- M-231 CALCULUS I (5-0)5
Variables and functions, theory of limits, differentiation, geometric applications, integration and techniques of integration.
Prerequisite: M-122.
- M-232 CALCULUS II (5-0)5
Definite integral, geometric applications, physical applications, hyperbolic functions, infinite series, partial differentiation, multiple integrals and introductory differential equations.
Prerequisite: M-221.
- M-276 HIGHER ALGEBRA (4-0)4
Language of sets, development of the complex number system start-

ing with Peano's postulates, algebraic structures, theory of numbers, theory of equations, matrices and determinants.

Prerequisite: M-232.

- M-327 DIFFERENTIAL EQUATIONS (4-0)4
 Linear differential equations of the first degree and of the first and higher orders, linear equations of the N-th order with constant coefficients, linear equations of the second order, exact and total differential equations, simultaneous equations and series solution.
 Prerequisite: M-232.
- M-332 ADVANCED CALCULUS (4-0)4
 Rigorous treatment of sequences, limits, integration, differentiation, generalized theorem of the mean, partial derivatives, multiple integrals, and infinite series. Also Fourier series, beta and gamma functions.
 Prerequisite: M-232.
- M-342 MODERN COLLEGE GEOMETRY (4-0)4
 Advanced topics of Euclidean geometry, foundations of geometry, non-Euclidean geometry, projective and affine geometries and topology.
 Prerequisite: M-232.

MUSIC

- MU-105 CHORUS (0-2) ½
 Open to all students who can and wish to sing. Attendance at all public performances is required. This course may be repeated six times for credit up to a maximum of 3 credit hours.
 Prerequisite: Approval of instructor.
- MU-110 BAND (0-3) ½
 Open to all students who are proficient in playing a band instrument. Attendance is required at all public performances. This course may be repeated six times for credit up to a maximum of 3 credit hours.
 Prerequisite: Approval of instructor.
- MU-131 MUSIC CONTENT (5-0)5
 A correlated course including the study of music theory, ear training, sight singing, harmony, conducting, music history, counterpoint, and orchestration.
- MU-132 MUSIC CONTENT (5-0)5
 A continuation of MU-131.
 Prerequisite: MU-131.
- MU-200 APPLIED MUSIC (0-½)1
 Individual instruction for one-half hour per week and given by audition only.

- SS-224 HISTORY OF 20TH CENTURY UNITED STATES AND WESTERN EUROPE (4-0)4**
U. S. reaches world leadership; World War I, its causes and effects; the breakdown of collective security; development of dictatorship and crisis of democracy; genesis and consequences of World War II; European cooperation; NATO and the western alliances.
- SS-232 RUSSIA AND SATELLITES (4-0)4**
The cultural, political, religious, economic, and social development of the Russian nation; the Communist Revolution; the economic and political philosophy of Communism; and the formerly independent states (particular emphasis on Poland, Czechoslovakia, and the Balkans) now under Communist control or domination (except China).
- SS-251 INTRODUCTION TO ANTHROPOLOGY (3-0)3**
A comprehensive study of general anthropology. Consideration of aims, methods, and achievements of the several specializations in anthropology. Physical anthropology, human evolution, problems of races, Old and New World prehistory, and American Indian ethnology.
- SS-252 PRINCIPLES OF ANTHROPOLOGY (3-0)3**
Ethnology and cultural anthropology emphasized, especially the theoretical problems connected with world languages and writing, the invention, growth, and spread of culture.
- SS-263 INTRODUCTION TO SOCIOLOGY (3-0)3**
A study of culture and its relation to specific social problems. Among the problems studied will be: Minority problems, crime and punishment, rural problems, urban problems, and the problems of social and political control in a dominantly urban society.
- SS-271 WORLD GEOGRAPHY (3-0)3**
On introduction to world geography; physical and cultural regions; development of natural resources.
- SS-309 ELEMENTARY SCHOOL SOCIAL STUDIES AND COLORADO HISTORY (3-0)3**
Basic concepts related to effective citizenship in a democracy; the nature of critical thinking and group problem-solving; geographical and historical content appropriate to the elementary school; using history of Colorado as a basis. The core function of social studies, score and sequence, methods of instruction, materials and resources for learning.
- SS-320 THE NEAR EAST AND AFRICA (4-0)4**
The cultural, political, religious, economic, and social development of the Arab nations and Israel; the impact of the colonial nations on the control of the economic resources and the highways of

transportation; the British and French colonies; and the rise of Africa south of the Sahara.

- SS-328 SOUTHERN AND EASTERN ASIA** (4-0)4
A brief survey of the cultural, political, religious, economic, and social progress from the earliest times; the impact of the Western powers especially on Japan, China, and Korea. The newly developing states of Southeastern Asia—Laos, Cambodia, Viet-Nam, Indonesia, etc. The place and influence of Southeastern Asia in the world today.

MINORS

AGRICULTURE

A minor in Agriculture is provided through the selection of 18 credits in agriculture.

CHEMISTRY

A minor is defined as at least 18 credit hours of approved subject matter in a given field. A minor in chemistry would ordinarily consist of C-199 Principles of Chemistry and Physics, C-200 Principles of Chemistry and Physics, C-211 Inorganic Chemistry, plus eight additional approved credit hours of chemistry.

Chemistry minor, not open to physical science majors, consisting of C-109 General Chemistry, C-110 Elementary Organic Chemistry, C-232 Organic Chemistry and C-250 Elementary Physical Chemistry is available to students of all other divisions and departments of the College.

ENGINEERING

A minor in Engineering may be obtained by taking the following courses: E-101 Engineering Problems, E-111 Engineering Graphics, E-112 Engineering Graphics, E-217 Statics, E-221 Dynamics and E-245 Strength of Materials.

GEOLOGY

A minor in Geology is provided for students who are majoring in other areas. The requirements are: G-113 Geomorphology, G-114 Historical Geology, G-207 Mineralogy, G-208 Petrology and G-233 Introductory Paleontology.

INDUSTRIAL ARTS

The minor in Industrial Arts may be obtained by taking the following courses: IA-101 Elementary Woodworking, IA-102 Advanced and Machine Woodworking, IA-110 Machine Drawing, IA-201 Electric Welding, IA-220 Crafts, and PE-124 First Aid.

PHYSICAL EDUCATION

The courses in health, physical education and recreation serve several purposes. They provide a minor for men and women who wish to have

some preparation for teaching in this field. A service program of suitable physical education activities is provided for all students of the College. A well-rounded program of intramural sports is provided.

PHYSICAL EDUCATION MINOR REQUIREMENTS:

PE-111 Introduction to Health, Physical Education and Recreation, PE-242 Physical Education for Elementary School Children, PE-254 Adaptive Physical Education. Select two more physical education courses from the following: PE-124 First Aid, PE-207 Theory and Coaching of Sports, PE-216 Theory and Teaching of Individual and Dual Sports and PE-261 Theory and Techniques of Folk and Social Dancing.

PHYSICS

A minor in Physics is provided for students who are majoring in other areas. The requirements are as follows: PH-217 Modern Physics, PH-254 Theoretical Mechanics, PH-261 Principles of Electricity and Magnetism and PH-270 Heat and Thermodynamics.

PSYCHOLOGY

A minor in Psychology is provided for students who wish further study in this field.

PSYCHOLOGY MINOR REQUIREMENTS:

Ps-211 General Psychology, Ps-212 General Psychology and 11 hours selected from the other psychology courses offered by the College.

REMEDIAL COURSES

To further assist the student who has deficiencies in typing, English or mathematics, Fort Lewis A & M College offers remedial courses in these areas. However, after the fall of 1962 the Remedial English and Basic Algebra courses will be scheduled only in the third trimester or Summer School. Students requiring these courses must then enroll at the College during the indicated terms.

R-8 **ELEMENTARY TYPING** (1-3)0
Mastery of the keyboard and development of speed and accuracy by the touch system. Upon successful completion of this course the student will have the necessary skills to be able to pass the typing qualification examination.

R-16 **REMEDIAL ENGLISH** (2-2)0
Designed for the student who requires special preparation before taking EL-103. An intensive review of grammar is included.

R-24 **BASIC ALGEBRA** (3-0)0
Review of elementary algebra, graphs, logarithms, ratio and proportions.



The Register

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*Listing of State Board of Agriculture personnel, March 1, 1962.

ADMINISTRATION*

REA, CHARLES DALE <i>President of the College</i> B.S., Colorado State University M.S., University of Southern California Ed.D., University of Colorado	GOODWIN, LeROY W. <i>Director of Information and Services</i> B.A., University of Colorado M.A., University of Colorado Advanced Graduate Study, Columbia University
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BLACK, DANIEL E. <i>Business Manager</i> B.S., University of Colorado	

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M.Ed., University of Colorado
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Colorado State College

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M.Ed., Adams State College

WALLACE, EDWIN W.

Dean of Students
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M.A., Adams State College

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University of Denver
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M.A., Arizona State University

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Colorado State University

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Colorado State College

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M.A., University of Oklahoma
M.L.S., University of Oklahoma

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L.L.B., University of Colorado

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M.A., Western State College

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University of Colorado

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M.M., Tulsa University
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Pennsylvania State University
Colorado State College

SHULTZ, CAROLYN

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B.A., Nebraska State Teachers
College at Kearney
M.A., Colorado State College

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B.S., Arizona State College
M.A., Arizona State College
Advanced Graduate Study,
Indiana University

WILEY, CHARLES G.

*Assistant Professor of English and
Chairman, Division of Humanities*
B.A., University of New Mexico
M.A., Columbia University
Ph.D., University of New Mexico

*Listings of Administrative and faculty personnel, March 1, 1962

Medical Staff

LLOYD, LEO W.

Consulting Physician
M.D., Washington University

HALLEY, TULLIUS W.

Consulting Physician
M.D., Creighton University

BRADNEY, MRS. BILLIE

College Nurse
R.N., Good Samaritan Hospital,
Phoenix

Services to Students

MAISER, WILLIAM L.

Auxiliary Services Manager

TABOR, PATRICK W.

Student Housing Director
B.S., St. Benedict's College
M.A., University of New Mexico

Emeritus

LORY, CHARLES A.

President

Ped.B., Colorado State Normal
School

B.S., University of Colorado

M.S., University of Colorado

LLD., University of Colorado

D.Ed., Colorado State College of
Education

D.Sc., University of Denver

D.Sc., Colorado State University

HERSHBERGER, INEZ

English, Foreign Language

A.B., Kalamazoo College

Graduate Study,

University of Wisconsin

University of Chicago

University of Colorado

University of Mexico



Index

*A listing of the main items of entry with the numbers
of the pages on which they will be found.*

Academic information.....	38
Academic standards	43
Adding and dropping courses.....	46
Administration, listing of personnel.....	123
Admission	27
Adult education program.....	45
Agriculture	91
Art, as part of the Humanities major.....	74
Board and room costs.....	54
Calendar.....	5, inside front and back covers
Career opportunities	57
Chemistry option, as part of the Physical Science major.....	86
Core courses.....	60
Costs	51
Course descriptions	95
Agriculture	95
Art	95
Biological science	96
Business and economics.....	97
Chemistry	101
Education	103
Engineering	105
English	106
Foreign languages	108
Forestry	110
Geology	110
Industrial arts	111
Liberal arts.....	111
Mathematics	113
Music	114
Philosophy	115
Physical education	115
Physics	116
Psychology	117
Social science.....	118
Credit for transfer students.....	40
Discipline	25
Dormitories	17
Emeritus, listing of personnel.....	127
Engineering	92
Facilities	10
Faculty, listing of personnel.....	124
Fees	52
Final examinations.....	47
Financial aids	12
Forestry	92
Geology, as part of the Physical Science major.....	86
Grading system.....	42

Graduation information	48
Graduation with honors.....	49
Grants-in-aid	14
Health services.....	20
History, as part of the Humanities major.....	74
History of the College.....	7
Industrial arts	120
Intercollegiate athletics.....	24
In-state and out-of-state students.....	35
Late registration	45
Literature, as part of the Humanities major.....	74
Liberal arts college.....	1
Loan funds	15
Mail service	21
Majors	61
Biological science.....	84
Business	65
English	70
History	72
Humanities	74
Mathematics	82
Physical science.....	86
Married-student apartments	18
Medical staff, listing of personnel.....	126
Minors	62
Music, as part of the Humanities major.....	74
Numbering and lettering system.....	64
Off-campus housing	18
Past and present of the College.....	7
Placement services.....	21
Program of study.....	57
Physical science option, as part of the Physical Science major.....	86
Physics, as part of the Physical Science major.....	86
Refund of tuition and fees.....	55
Register of personnel.....	123
Registration	33
Religious organizations	24
Remedial courses	121
Scholarships	12
Secretarial science	93
Services to students.....	9
Services to students, listing of personnel.....	126
Setting of the College.....	9
State Board of Agriculture, listing of personnel.....	123
Student government	21
Student organizations	22
Summer School.....	inside front and back covers
Teacher training	63
Transcripts	47
Transfer students	30
Trimester Academic Calendar.....	5, inside front and back covers
Tuition	52