

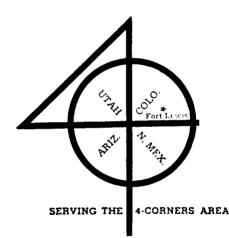


# 1952 ~ 1953 Catalogue

SERIES 4, NO. 1

# Fort Lewis A&M College CATALOGUE 1952 - 1953

# HESPERUS, COLORADO



MEMBERSHIP IN EDUCATIONAL ASSOCIATIONS

American Association of Junior Colleges

American Association of Collegiate Registrars and Admissions Officers

Colorado-Wyoming Association of Collegiate Registrars and Admissions Officers

Fort Lewis A & M College Bulletin

Series 4, Number 1.

## COLLEGE CALENDAR \*Summer Quarter

#### 1952

June 16, Monday, 8:00 a.m.	Registration, Classes begin at 1:00 p.m.
July 4, Friday	Independence Day Holiday
July 18, Friday	End of First Five Weeks
July 21, Monday	Registration, Classes begin
	at 1:00 p.m.
August 22, Friday	End of Summer Quarter

### Fall Quarter

#### 1952

September 18 & 19, Thursday & Friday.	Freshman Days	
All new students report at 8:00 a.m	n., Thursday	
September 22, MondayRegistration for all Students		
September 23, TuesdayClasses begin at 8:00 a.m.		
September 25, ThursdayAll student and faculty		
meeting in A	Auditorium, 11:00 a.m.	
October 31, Friday	Midterm	
November 26, Wednesday	Thanksgiving Holidays	
	begin at noon	
College opens 8:00 a.m., Monday, I	December 1.	
December 17-19, Wednesday-Friday December 19, FridayLa		

#### 1953

#### Winter Quarter

January 5, Monday	Registration for all students
January 6, Tuesday	Classes begin at 8:00 a.m.
February 13, Friday	
March 20-24, Friday-Tuesday.	Final Examinations
March 24, Tuesday	Last day of Winter Quarter

### Spring Quarter

#### 1**953**

March 30, Monday	Registration for all students
March 31, Tuesday	
May 6, Wednesday.	Midterm
May 6, Wednesday	Fort Lewis Day for high school
	seniors
	Baccalaureate Service
June 9-11 Tuesday-Thursday.	Final Examinations
June 12, Friday	Final Convocation

'Note: For information concerning courses offered during the summer quarter, address inquiries to The Registrar, Fort Lewis A & M College, Hesperus, Colorado.

PLEASE BRING THIS CATALOGUE WITH YOU FOR USE IN REGISTRATION

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### STATE BOARD OF AGRICULTURE

	Address	Term Expires
Walter G. Lehrer	Denver	1953
Raman A. Miller	Strasburg	1953
Charles P. Warren	Fort Collins	1955
T. C. McPherson	San Acacio	1955
Jesse McCabe	Dolores	1957
L. S. McCandless	Craig	1957
George McClave	McClave	1959
Warren Monfort	Greeley	1959
Governor Daniel I. J. Thornton President W. E. Morgan	(ex-Officio	Members)

#### OFFICERS

Walter C. Lehrer	President
Charles P. Warren	Vice President
James R. Miller	Secretary
Joseph M. Whalley	<b>T</b> rea <b>sure</b> r

### EXECUTIVE COMMITTEE

T. C. McPherson Wa	lter G. Lehrer	L. S. McCandless
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# PERSONNEL

Officers of Administration:	
Rea, Charles Dale	President of College
B.S., Colorado A & M College	_
M.S., University of Southern Californ	ia
Ed.D., University of Colorado	
Lory, Charles A.	President Emeritus
Ped.B., Colorado State Normal School	
B.S., University of Colorado	
M.S., University of Colorado	
LLD., University of Colorado, Colorad	lo College
D.Ed., Colorado State College of Educ	ation
D.Sc., University of Denver, Colorado	
Corfman, Albert E.	Dean and Registrar
A.B., University of Denver	
M.A., University of Denver	
Advanced Graduate Study, Colorado S	Education
Colley, Robert H.	Business Manager
B.S., University of Denver	
Graduate Study, University of Denver	
Black, Daniel EAssist	tant Business Manager
B.S., University of Colorado Graduate Study, University of Colorad	de la
Pierce Margaret M.	College Nurse
B.A., University of Denver B.N., University of Colorado School o	f Nureing
	0
A.B., Bates College	or of Public Relations
Graduate Study, Tufts College Gradua	ate School
Boston University	
University of Denver	
·	

### Faculty:

Admire, Alice K	•
Carswell, David FBiological Science B.S., University of Maine M.A., Arizona State College Advanced Graduate Study, University of Colorado	;
Hickman, Francis W	;
Hershberger, Inez A.B., Kalamazoo College Graduate Study, University of Wisconsin University of Chicago University of Colorado University of Mexico	;

Irish, Walden CEnglish A.B., Bates College Graduate Study, Tufts College Graduate School Boston University University of Denver
Lowry, Wayne FChemistry and Physics B.A., Milton College Graduate Study, University of Colorado
McKinnon, Max E
Meyer, Arthur TMusic B.A., University of Iowa M.A., University of Iowa M.F.A., University of Iowa
Milton, Richard L
Morrow, Evelyn YBusiness B.S., East Central State College, Oklahoma M.S., Oklahoma A & M College Advanced Graduate Study, Colorado State College of Education
Nethery, RubyLibrary B.S., University of Oklahoma M.S., University of Oklahoma B.L.S. University of Oklahoma Advanced Graduate Study, Columbia University
Pierce, Joseph E
Reid, Charles H., Jr
Stephens, James PAgronomy B.S., Oklahoma A & M College M.S., Oklahoma A & M College
Taylor, FaithEducation B.S., Wisconsin State Teachers College M.A., Northwestern University
Wallace, Edwin WPsychology and Physical Education B.S., University of New Mexico Graduate Study, University of New Mexico

# Instructors in Institutional on the Farm Training Program

Drott. John A. (Director), 337 13th Street, Durango, Colorado Allum, Jack A., Mancos, Colorado Avis, Samuel Lee, Hesperus, Colorado Campbell, A. Frank, 170 E. Park Avenue, Durango, Colorado Gores, Clyde J., Cortez, Colorado Hancock, Robert V., Dove Creek, Colorado Harrison, Keith, 706 6th Avenue, Durango, Colorado Hindmarsh, Russell E., Dolores, Colorado Hiner, Eldon B., 802 6th Avenue, Durango, Colorado Hollar, H. W., 575 8th Street, Durango, Colorado Holley, Edward J., Pagosa Springs, Colorado Huff, R. W., Pleasant View, Colorado Keeter, Lester F., Cortez, Colorado Longenbaugh, Harry L., Cortez, Colorado McDaniel, Claude D., Dove Creek, Colorado Ritter, John W., Mancos, Colorado Rudolph, Talbot L., Pagosa Springs, Colorado Stowe, L. A., Dove Creek, Colorado Strain, Oscar G., Ignacio, Colorado

# **Experiment Station Staff**

Ingalls, James E., B.S., M.S. ...... Animal Husbandman

# **STANDING COMMITTEES**

- Admissions—responsible for admitting students to college, interviewing students who fail to meet the standards of the college, and interviewing those students who require disciplinary action.
- Assembly—responsible for the planning and supervision of assemblies, honors convocation, final convocation, and programs of like nature.
- Athletic—responsible for issuing schedules, budget, and other matters pertaining to the athletic program.
- **Courtesy**—responsible for sending cards or flowers to members of the faculty and operational staff in times of illness and bereavement.
- **Curriculum**—responsible for revisions of catalogue and the development of the curriculum.
- **Dramatics**—responsible for selection, costuming, and general direction of dramatic productions.
- Faculty and Operational Staff Informational Committee—responsible for the development of faculty and staff handbook (excluding items pertaining to Civil Service employees).
- **Freshman Orientation**—responsible for the planning and supervision of the orientation program.
- Planning and Development—considers long-range planning for the campus.
- Senior Day—responsible for the planning and supervision of the Senior Day program.
- Social Activities—serves in an advisory capacity to students and helps coordinate social activities on campus.
- Student Loan Fund—responsible for the supervision of loans to students.
- Student Relations—serves in an advisory capacity to the Student Government and all other activities of like nature.

# **GENERAL INFORMATION**

#### HISTORY AND DEVELOPMENT:

The story of Fort Lewis A & M College begins in 1911 when a land-grant school was established, following the transfer from federal to state ownership of the lands of the Fort Lewis Military Reservation and Indian School, totaling 6,318 acres. An agricultural and vocational high school was maintained until 1933, and rural teacher training courses were offered after 1915. College courses have been offered since 1927, and exclusively since 1933.

Until 1948, the College was a branch of Colorado A & M College, but in that year, Fort Lewis A & M College became an independent institution. Like Colorado A & M, it is administered by the State Board of Agriculture.

Fort Lewis, a two-year co-educational school, is a member of the American Association of Junior Colleges.

#### PURPOSE OF COLLEGE:

The aims and objectives of Fort Lewis A & M College are:

- 1. To provide two years of collegiate work acceptable to other institutions of higher education for students who plan to transfer.
- 2. To provide terminal vocational education.
- 3. To enable the students, through an abundance of opportunities for participation, to obtain cultural athletic experiences which will be of value to them as men and women, and as citizens.
- 4. To provide community service in the form of extension courses.

#### LOCATION:

Fort Lewis is located 14 miles west of Durango in an area unmatched for beauty. During the school year students are able to visit many near-by points of interest. These educational and scenic spots are easily reached because of the location of Fort Lewis in the heart of the San Juan Basin, a great geographical area, containing within it parts of four states.

Many national parks, monuments and forests are nearby: scenic drives through mountain and desert country may be taken; ancient Indian ruins and present day Indian culture may be seen. Not far away are Indian Reservations of the Navajo, Apache, Ute, and other tribes, and both Indian weaving and Indian jewelry are famous products of this region.

Thirty-five miles from the campus is Mesa Verde National Park, which contains the most notable and best preserved pre-historic cliff dwellings in the United States. Ruins of other pre-historic towers, pueblos, and cliff dwellings are found in the Hovenweep National Monument and Yucca House National Monument, in the same vicinity. Nearby in northern New Mexico, are the Aztec Ruins National Monument and the Chaco Canyon National Monument, both of which are also pre-historic sites. Near these is Shiprock, a vast rocky spire, rising abruptly from the floor of the desert, which challenges the most experienced mountain climbers. At a somewhat greater distance, in Colorado, are the Great Sand Dunes National Monument and the Black Canyon of the Gunnison National Monument, the latter reached from Fort Lewis over the famous Million Dollar Highway between Silverton and Ouray, one of the great scenic drives of the United States. In southeastern 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 Monument with its pre-historic cliff dwellings, and finally to the Grand Canyon National Park, where the Colorado River has produced a panorama of erosion which is acclaimed as the most sublime spectacle in the world. North and northeast of Fort Lewis lie the La Plata and the San Juan Mountains, among which are many of the most spectacular peaks in the Rockies. The Needle Mountains, in particular, have been described as the American Alps.

#### COLLEGE LIFE:

Fort Lewis has proved a satisfying experience for many In a setting which is both rural and spacious, open to the famed Colorado sunlight, yet within sight of mountains snowcapped through most of the year, faculty and students mingle in a spirit of democratic friendliness. The small size of the student body makes it possible for each student's problem to be considered individually, both in class and out, and social pretensions do not exist. There are no fraternities or sororities; nearly all of the students and staff make their home on the campus during the school year, and social events are shared by all. Comfortable housing and residence-hall accommodations are available, and unmarried students eat together in the College dining hall.

#### ORGANIZATION OF THE COLLEGE YEAR:

The college is on the quarter system, with three quarters making up the academic year. Summer sessions are held when there is a sufficient demand.

#### TRANSFER OF CREDITS:

While credits earned at Fort Lewis A & M College are generally accepted in senior colleges and universities, graduation from Fort Lewis does not mean that credits are automatically accepted for junior standing. A maximum of two years' credit is accepted for courses which correspond to freshman and sophomore courses offered by the institution selected.

# SERVICES TO STUDENTS

#### LIVING ACCOMMODATIONS:

Lory Hall, for women, and Snyder Hall, for men, are modern brick buildings in attractive locations on the campus. These dormitories afford comfortable accommodations for social life, as well as single and double rooms of approved design for student residence and study. Students' rooms are furnished with beds and mattresses, pillows, bed linen (sheets and pillow slips), dressers, study tables, chairs, and curtain rods. Students must provide blankets, curtains, lamps, rugs, and other decorative equipment. Maid service is provided in the residence halls.

Apartments for married students, and light-housekeeping rooms are available in Veterans' Village and in Downey Apartments. Apartments have one, two, and three bedrooms. These units are completely equipped with basic furnishings other than bedding and linen, dishes, cooking utensils, lamps, radios, curtains, rugs, and other decorative equipment.

The Dining Hall: All students living in the residence halls take their meals in the Dining Hall, and other students have the privilege of doing so. Meals are excellent and are available at nominal cost. The Dining Hall has tables for small groups which promote informal good fellowship among students.

#### STUDENT HEALTH SERVICE:

The Student Health Service provides **out patient** treatment of minor illnesses and injuries to all full-time students. Physical examinations are required for all students as part of registration early in the first quarter of attendance at Fort Lewis.

The Dispensary is located at House No. 13, Lory Lane. Dispensary hours are 8:00 a.m. to 12:00 noon, 1:00 p.m. to 5:00 p.m. Monday through Friday, and 8:00 a.m. to 12:00 noon Saturdays, while college is in session. Illness can be treated **only** at the Dispensary and students who become ill should avail themselves of the services offered. Any illness requiring the attention of a physician will be referred to a Durango physician at the student's expense. Any student who is ill and leaves the campus without consulting the Health Service does so at his own responsibility.

The expenses of special medications are to be borne by the patient.

Veterans are entitled to the same privileges under the Health Service as all other students.

Married students may obtain this Health Service for their families if they wish. A fee of \$.50 for each dependent per quarter is charged.

Statements of illness will be issued by the nurse only if the student has been seen for his illness at the dispensary.

#### SCHOLARSHIPS:

#### Joint Honor Scholarships:

These scholarships are awarded by the Colorado State Institutions of Higher Learning upon the recommendation of the faculty or committee of the faculty of each accredited high school in Colorado. The students to receive the scholarships must rank in at least the upper twenty-five per cent of their graduating class in scholarship and must have attained a score at or above an established minimum on the American Council on Education Psychological Examination. While selections shall be made primarily upon the basis of scholastic achievement and promise of collegiate success, financial need may be taken into consideration.

A scholarship recipient is privileged to transfer at the end of any term from one participating institution to another and retain his scholarship if he is eligible for the continued use of the scholarship in the institution from which he transfers. The scholarship will be granted for a four-year period.

The holders must maintain an accumulative average within the upper one-fourth of their respective classes in order to keep the scholarship from year to year. A year is to be considered the equivalent of three quarters.

Recognition-of-Merit Scholarships: The State Board of Agriculture authorizes the award of a limited number of Recognition-of-Merit Scholarships. To qualify for one, a student must be an entering freshman, have ranked in the upper onethird of the graduating class, have demonstrated the capacity for leadership through activity participation, and have the recommendation of his high school principal or superintendent.

The award is good for one year, but can be extended for another year if the holder maintains a cumulative average which would place him in the upper one-fourth of the freshman class.

All other scholarships will be awarded on a basis of need as well as scholarship and all-round ability. Letter of application should be sent to the Registrar, Fort Lewis A & M College.

American Association of University Women: One scholarship is available to a girl graduate of a San Juan Basin high school and is good for two years.

Durango Herald-Democrat: One scholarship is available to a graduate of a San Juan Basin high school and is good for one year.

Durango Lions Club: Two scholarships are available to graduates of the Durango High School and are each good for one year

Durango Rotary Club: Two scholarships are available to graduates of San Juan Basin high schools and are each good for one year.

Gamma Gamma chapter of Beta Sigma Phi: One scholarship is available to a girl intending to pursue an academic course, residing in La Plata county, and ranking in the upper third of her high school class. Scholarship renewable for a second year if the holder maintains a B average during her freshman year. O.E.S. Kensington Club: One scholarship is available to a graduate of a San Juan Basin high school and is good for one year.

Foster Office Supply: One scholarship is available to a graduate of a San Juan Basin high school and is good for one year. The student is to major in business.

Radio Station KIUP: One scholarship is available to a graduate of a San Juan Basin high school who wishes to pursue a course in speech or a related field, and is good for one year.

Young Farmers and Homemakers of Durango: Two scholarships are available to an average farm boy and average farm girl of the San Juan Basin, in financial need, and are good for one year.

Farm Women's Extension Club: One scholarship is available to a Durango girl showing financial need and ranking in the upper 10% of her class.

La Plata County Teachers' Association: One scholarship is available to a graduate of a La Plata County high school showing financial need and preferably one who is planning to major in Education.

Bruce Sullivan: One scholarship is available to a graduate of a La Plata County high school and is good for one year.

Dr. J. G. McKinley: One scholarship is available to a graduate of a San Juan Basin high school and is good for one year.

#### LOAN FUNDS:

Four 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, and the Business and Professional Women's Loan Fund. The combination of all loan funds is known as the Fort Lewis Loan Fund. Money may be borrowed by worthy students after the completion of one quarter's work. Formal application must be made to the loan-fund committee.

#### AWARDS:

Each fall an Honors Convocation is held at which three first place honor keys and a second place honor key are presented to four sophomores for outstanding scholarship and activity during their freshman year.

At the Final Convocation the Campus Club presents medals for scholarship and service to an outstanding sophomore girl and boy, and certificates of merit to an outstanding freshman girl and boy.

#### COMMISSARY AND BOOK STORE:

The college maintains a commissary and bookstore where students may purchase textbooks and school supplies, as well as groceries and common drug store items.

#### SNACK BAR:

The college maintains a snack bar for the convenience of all student residents.

#### **RECREATION HALL:**

The "Rec Hall" has ping pong, pool, and card tables, juke box. and easy chairs, and is open at regularly appointed hours under student council sponsorship.

#### **EMPLOYMENT OPPORTUNITIES:**

A limited number of campus jobs are available for worthy students. In addition, work opportunities off the campus occasionally arise, and students are directed to prospective employers.

### **EXPENSES\***

#### GENERAL FEES:

Effective, Fall Quarter 1952

Tuition and regular fees-per quarter .....\$35.00

Students registered for fewer than 12 hours will be allowed a deduction at the rate of \$3.00 per hour.

Non-resident tuition (paid in addition to resident tuition---per quarter) 10.00 Student and Agency fee (covers all student sponsored activities) per quarter 11.75

Cadet fee (pays for the student's copy of the yearbook, collected at the beginning of the quarter when a student first registers) 4.50

Students registered for fewer than 6 hours will not be assessed Student and Agency fee or Cadet fee.

#### SPECIAL FEES:

Late registration	5.00
Fee for schedule change requested by the student	1.00
	<b>B</b> .00
Transcript of credits after the first one, which is free	1.00
Applied music (in addition to regular tuition):	
One half-hour lesson (voice or instrumental) per wee	k—
per guarter 18	5.00
Two half-hour lessons (voice or instrumental) per wee	k—
per quarter	5.00

#### DEPOSITS:

<sup>3</sup> Security deposit (Dormitory)	<b>10.0</b> 0
Apartment deposit	<b>20</b> .00
Laboratory breakage deposit-per quarter	5.00

The unused portions of these deposits are returned.

#### **RESIDENCE FEES:**

Dormitory Room—per quarter
One bedroom—per month30.00Two-bedroom—per month32.00Three bedroom—per month34.00

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

<sup>1</sup> This \$10 Security deposit is against possible damage to school dormitory property; refundable in full at end of school year, or prior thereto in case student leaves school, if there is no property damage incurred.

#### MEALS:

Meals are served in the dining hall, which is operated on the cafeteria style. Food prices to students are based on minimum costs consistent with actual operating costs of maintaining the cafeteria. Payment is made at the serving counters. Meal tickets are available in the business office at \$15.00 each.

#### FEE REGULATIONS:

Payment of fees: All tuition, fees, and deposits for the quarter are payable at the time of registration—the first day of each quarter. Registration is not considered as being complete until the student has met his financial obligations in full.

Veterans: Students planning to attend under the G. I. Bill (PL-346 and PL-16) should come prepared to finance their living expenses for a period of 60 days. This is the normal amount of time required to set up a veteran's file in the regional office and begin issuing monthly checks.

If a student does not have an eligibility certificate at the time of registration, he will be required to pay all tuition and fees in cash. However, a refund will be made on this money to the amount that is covered by the eligibility certificate.

A student whose eligibility expires before the end of a quarter will be required to pay cash for that portion of his expenses that are not covered.

Refunds: A student withdrawing during the first week of the quarter may have all tuition and fees refunded. A student withdrawing after the first week of the quarter but before the close of the third week may have one-half of the tuition and fees refunded. No refund will be made after three weeks from the date of registration.

All refunds will be paid not later than three weeks after a student has terminated his work at the college.

## **Student Organizations and Activities**

Fort Lewis A & M College has a full, well-rounded calendar of social activities for the year. This calendar is planned and prepared by the student social committee representing the student body.

The extra-curricular activities range from those mentioned later in this section to the informal dances, picnics, parties, and other affairs which have become a tradition on campus. Among these many traditional affairs are the Fall Mixer, Honors Convocation, Homecoming Weekend, quarterly formals, and Final Convocation. Student assemblies are held periodically for purposes of recreation and information, and prepared programs are presented by student groups and by speakers and performers drawn from outside the campus. By far the greatest portion of the total cost of extra-curricular activities is covered by the regular student activities fee. Free movies are presented one evening each week in the College Auditorium.

#### STUDENT GOVERNMENT:

The affairs of the student body are managed by the Student Council, consisting of specially elected officers, together with presidents and vice-presidents of classes and housing groups.

Acting as the executive committee of the student body, the Student Council considers all problems brought before it, and presents its findings to the general assembly of the students. Faculty advisors are ex-officio members of the Student Council and other agencies of student government.

#### BAND:

Membership in the college band, which makes several appearances throughout 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 a varied interest during the school year, and membership is open to all interested and qualified stundents. During the spring quarter the chorus and the band make a tour of the San Juan Basin.

#### RIFLE CLUB:

Both indoor and outdoor rifle ranges are located on the campus. The outdoor range has been constructed for both small bore and large bore rifles; adjoining this is a pistol range. The indoor range is restricted to .22 calibre rifles. The rifle club is open to all interested students.

#### DRAMATIC CLUB:

The dramatic club is open to all students, and try-outs are held for each of the plays given throughout the year at student assemblies and on community occasions. Participants not only develop their acting abilities, but also learn principles of stage design and set construction, costuming, make-up, playwriting, and direction.

#### CHRISTIAN PHILOSOPHICAL SOCIETY:

This organization is a non-sectarian religious society open to all students. The club provides a social outlet as well as a medium for discussion of spiritual problems for religiousminded students.

#### SMOKE SIGNALS:

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

#### CADET:

The Cadet is the Fort Lewis A & M College yearbook which is published each year by a staff of students. This publication illustrates college activities and student life for the year. The staff members receive practical experience in planning, writing, editing, and selling advertising.

#### THE ALUMNI ASSOCIATION:

All students who have been regularly enrolled at Fort Lewis are members of the Fort Lewis Alumni Association, which promotes the welfare of the college by uniting former classmates. The Association meets annually for Homecoming Weekend.

#### INTERCOLLEGIATE ATHLETICS:

Fort Lewis A & M College is a member of the Empire States College Conference. After two years of participation within this Conference, athletes are still eligible for two more years of competition in four-year colleges or universities.

#### **RECREATIONAL SPORTS:**

On the Fort Lewis A & M College campus are a ski tow and a skating pond for those students interested in winter sports. In the fall and spring the tennis and horseshoe courts are popular with the students. The College also owns several saddle horses, and during the year, students may use them to go horseback riding around the more than 6,000 acres of the campus and nearby territory. In addition, facilities are available for students to stable their own horses at moderate expense.

#### SENIOR DAY:

On the annual Senior Day, Fort Lewis students and faculty are hosts to seniors from all San Juan Basin high schools. The program for the day includes games, picnics, athletic exhibitions, social dancing, a major performance by the college dramatic club, and a rodeo. Future college students have an opportunity to become acquainted with the Fort Lewis campus and its faculty and student body.

# **Academic Information**

#### **REQUIREMENTS FOR ADMISSION:**

An application for admission, accompanied by a transcript of the high school record, must be submitted before the time of registration. It may be submitted as soon as the applicant has graduated from high school, but it should be submitted early enough to permit a reply to reach the applicant well before the date of registration (preferably by September 1). In Colorado, application blanks may be secured from any high school principal; applicants from outside Colorado should write to The Registrar, Fort Lewis A & M College, Hesperus, Colorado, requesting an application blank.

Any graduate of an accredited high school who has completed fifteen acceptable units of high school work, including three units of English, is eligible for admission to the Freshman Class. Applications from graduates of unaccredited high schools will be passed upon according to the merits of the individual cese.

Students intending to transfer to a senior college or university should assure themselves that they meet the high school requirements for admission to that institution.

An applicant for admission who has already attended another institution of college rank may not disregard his collegiate record and apply for admission as a freshman.

Students transferring from other institutions of college rank may be admitted to advanced standing at Fort Lewis A & M College. Those students applying for advanced standing must have a transcript of college work sent to The Registrar, Fort Lewis A & M College, Hesperus, Colorado, from every institution attended. All transferring students who expect to participate in athletics must request, with the transcript of credits, an official statement of the years of athletic participation (football, basketball, baseball, and track), charged against them.

Students of mature years who have not graduated from high school may be admitted provisionally, subject to their demonstrating ability to do work of college grade.

Students not desiring regular college status, who wish to pursue a special course of study, may be admitted as special students at the discretion of the President and the Registrar.

#### **VETERANS:**

Veterans retaining eligibility under the provisions of PL-346 or PL-16 are accepted at Fort Lewis A & M College. To be certified for this training the veteran should go to his nearest Veterans Administration Office and make application for an eligibility certificate. The veteran must also make application for admission to the College and go through the regular registration procedure.

#### DEFINITIONS:

Unit: A unit of work in high school is defined as a course covering a school year of not less than thirty-six weeks, with five periods of at least forty minutes each per week. (Two periods of manual training, domestic science, drawing, or laboratory work are equivalent to one period of classroom work.) This is equivalent to one hundred and eighty actual "periods" per unit. The fifteen units are equivalent to thirty "points."

Major: A major consists of three unit courses in one of the following fields (English, Foreign Language, Mathematics, Science, Social Studies).

Minor: A minor consists of two unit courses in one of the following fields (Foreign Language, Mathematics, Science, Social Studies).

High School is interpreted as meaning 9th, 10th, 11th, and 12th grades.

Terminal: Students who do not intend to continue their formal education above the junior college level are designated as "terminal." The program of terminal students is governed by the division in which they wish to specialize. To be admitted to Fort Lewis A & M College as a terminal student, the candidate for admission must be a graduate of an accredited four-year high school, or must be able to satisfy the college officials of his ability to do college-grade work.

#### PLACEMENT TESTS:

Placement tests are given new students two days preceding registration. These tests are required of all students, but not in the sense that they are entrance examinations. Students do not "pass" or "fail" these tests, but instead they are used to determine interests and abilities of new students.

The results are used for guidance purposes and to assist the student's counselors in advising and planning a course of study so that the student will get the most out of college.

Those who make low scores in the reading and English usage tests are required to take Review English during the first quarter of their Freshman Year.

#### COURSES OF STUDY REQUIREMENTS:

The curriculum selected by the individual student depends upon his present interests and his future plans. The requirements of each curriculum have been chosen according to what the student will do on its completion. The requirements of those curricula which call for a student to transfer to a senior college or university have been carefully selected in an attempt to fulfill the requirements of the lower division of those institutions. Since many senior colleges and universities differ in their lower division requirements, students who plan to continue college work after leaving Fort Lewis should decide upon the college to which they will transfer and plan their course here so that they will meet the lower division requirements of the college of their choice. If such requirements violate the requirements of the curriculum selected here at Fort Lewis A & M College, they can be changed by the approval of the head of that department.

#### N.C.D. COURSES:

A student may register for No Credit Desired in courses if he desires to attend the classes regularly, but does not wish to take the final examination or receive grades or credit. Credit for such courses can not be established at a later date. When registering, a student may take both N.C.D. and credit courses. but the total involved should not exceed the normal load.

#### **REGISTRATION:**

After the student has fulfilled admission requirements, he will receive a notice that he has been accepted for admission. Registration materials will be available for him on registration dav.

Each regular and special student must go through the registration procedure, fill out all forms provided, and pay his tuition and fees at the appointed time.

The student should report in the college library at the time of registration. As soon as he enters the library, he will receive a permit to register, other registration forms and materials, and information as to who his counselor will be.

On Thursday following the registration of the Fall Quarter, there will be an All-School Student and Faculty meeting in the Auditorium at 11:00 a.m. Attendance is required.

#### **REMOVAL OF HIGH SCHOOL DEFICIENCIES:**

Students with high school deficiencies should make arrangements to remove them during their Freshman Year. Fort Lewis A & M College offers certain courses to provide opportunities for students to remove these deficiencies. No college credit will be given for such courses when they are used to remove high school deficiencies.

#### CREDITS:

A credit hour represents one class or lecture period, or one two-hour or three-hour laboratory period, per week for one quarter. Such credit hours in colleges using the quarter system are commonly known as quarter hours. Credit in the required Physical Education courses is given on the basis of one credit hour per quarter.

#### GRADES AND QUALITY POINTS:

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

- (Excellent) Α
- в (Good)
- (Average)
- (Poor, but passing) (Condition)
- C D E F
- (Failure)
- Ī (Incomplete)
- ŴΡ (Withdrawn while passing)
- WF (Withdrawn while failing)

The grade of E is given when the student's work in the course is of a quality only slightly below passing. It may be raised to D by subsequent passing of a condition examination, which must be taken before the end of the regular quarter next following the quarter in which the grade of E was incurred. A condition not so removed becomes a failure (F).

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 within one year from the end of the quarter for which the grade of I was reported.

In computing a student's scholastic average, the following scale of quality 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 has been reported.

#### COURSE LOADS AND LIMITS:

The nomal student load is sixteen quarter hours. The minimum load for a full time student is twelve hours and the maximum seventeen hours. Only after a student has been in attendance at Fort Lewis for one quarter and has shown his ability, will he be permitted to take more than the maximum load. Students that wish to take more than the maximum load must obtain the approval of The Registrar.

#### SCHOLASTIC REQUIREMENTS:

In general, students preparing for transfer to other colleges or eventual graduation from college, should maintain a scholastic average grade of C. Students whose scholastic average falls below 1.4 in any quarter are required to appear before the Admissions Committee, which considers each case individually.

The student may be placed on probation or transferred to another curriculum. If a student on probation fails to improve his grade average during the subsequent quarter, he will be suspended for a quarter after which he will be allowed to re-enter on probation.

#### GRADUATION:

To graduate from Fort Lewis A & M College a student must:

- 1. Have been regularly enrolled at least three quarters including the one at the time of his graduation.
- 2. Complete 90 credit hours of work including nine hours of English Composition or its equivalent, plus six credit hours of Physical Education (unless officially excused).
- 3. Complete Freshman Orientation.
- 4. Satisfy the requirements of the curriculum selected.
- 5. Satisfy all general and specific requirements of Fort Lewis A & M College which pertain to him, including the fulfillment of all financial obligations.
- 6. Have removed from his record all marks of deficiency in those subjects for which he expects to receive credit towards graduation.
- 7. Be in attendance at the Final Convocation (unless course requirements are completed at the end of the fall or winter quarters.)

#### DEGREE. CERTIFICATES:

Fort Lewis A & M College grants the degree, Associate in Arts; also a two year certificate for those who complete 90 credit hours of work (excluding physical education), but who fail to satisfy the requirements for the degree (see below); and a one year Business Certificate.

The Associate in Arts degree is granted to students who meet the general requirements for graduation and the specific requirements of the curriculum selected, and complete the 90 credit hours of work (excluding six hours of physical education) with 2.00 quality point average.

A One Year Business Certificate of accomplishment is granted, representing the completion of 48 credit hours, composed of 30 credit hours in secretarial or business administrationaccounting and 15 credit hours elective in either business or other college work, and three credit hours of physical education.

# **General Regulations**

#### LATE REGISTRATION:

A student is required to pay a late registration fee for register-ing after the regularly appointed registration day. The student registering late will be required to make up all the work he has missed. No student will be permitted to register after the second week of any quarter for a full time class schedule.

#### CHANGE OF PROGRAM:

The college reserves the right to cancel a class if enrollment in that class is not deemed sufficient to justify it.

A fee of \$1.00 will be charged to a student for any course added to or dropped from his program after the first full week of each quarter, the only exception being the College's acceptance of the responsibility for the change of program. No new course for credit may be added to a student's program after the first week of class sessions of each quarter except with a written request and approval of the instructor whose "new class" is involved, and in no case later than the beginning of the third week of regular class sessions of each quarter. For any change of program, a student must make arrangements with his advisor, the instructors concerned, and The Registrar.

#### **DROPPING A COURSE:**

A course may be dropped, without discredit and without record, by any student during the first two weeks of the quarter; except students in their first quarter of college attendance, who have until the end of the eighth week of the quarter. After the expiration of these time limits, a grade of either WP or WF will be reported in a course which is dropped. After the seventh week of the quarter (except as noted above for students in their first quarter of college attendance), the grade of WF is mandatory unless the student is dropping all courses and withdrawing from college in which event the grade in each class will be designated as WP or WF as the case may be.

#### WITHDRAWAL FROM COLLEGE:

A student who desires to withdraw from college should first obtain the necessary withdrawal form from The Registrar. Withdrawal will be permitted only after the student has obtained clearance from his class instructors, the librarian, the dormitory proctor, and the business manager.

#### STUDENT REGULATIONS:

Students with cars on the campus are expected to register them with the office on registration day and park them in the parking lots provided.

Hours for the residence halls are set up by the students, and the students are expected to abide by them.

Disciplinary action in minor infractions is handled by a committee of students. In more serious cases, however, the responsibility for action lies in the hands of the Admissions Committee made up of faculty members.

The college reserves the right to dismiss, at any time, without financial refund, any student who is guilty of serious misconduct.

#### **CLASS ATTENDANCE:**

At Fort Lewis attendance is required at all sessions of each class in which the student is enrolled. All absences because of neglect, work, calls home, etc., are considered as unexcused. Absences due to serious illness or strictly unavoidable circumstances may be excused if the instructor in charge of the course is satisfied as to the cause. Absences will also be excused when incurred by reason of participation in official school activities such as athletics, or other approved activities. In such cases, the instructor in charge must submit the names of the students to be excused to The Registrar at least 24 hours before the scheduled activity or trip.

At any time during the quarter, if in the opinion of the instructor a particular student has accumulated an excessive number of absences, his name will be reported to The Registrar together with a written explanation of his delinquency. He may then be dropped from the course or be allowed to continue on a probationary basis.

The student is held responsible for completing to the satisfaction of the instructor in charge all work missed due to any absences excused or unexcused.

#### **EXAMINATIONS:**

Final Examinations are given in each course at the end of the quarter. Each student must take each of his examinations at the scheduled time and place in order to receive credit in each course.

#### TRANSCRIPTS:

When a student requests a transcript for the purpose of transferring to another college or university, his status is reported on the transcript. A student whose scholastic average is above the minimum required by this college will receive on his transcript a notation to the effect that he is in good standing. A student who is on probation or has been suspended will have such information noted on the transcript.

The phrase "Entitled to Honorable Dismissal" will appear on transcripts of students who are not subject to disciplinary action and have met all financial obligations. In the case of students not entitled to honorable dismissal, the words "Entitled to Honorable Dismissal" will be deleted and a letter of explanation will accompany the transcripts.

The first transcript is supplied free of charge. A fee of \$1.00 will be charged for all subsequent transcripts.

# **COURSES OF STUDY**

Lower division college work is offered in the three major divisions: Agriculture, Engineering, and Arts & Sciences. Within the division of Agriculture, students may major in general agriculture, animal husbandry, or forestry and range management. In Engineering, work may be taken in Civil, Electrical, or Mechanical engineering. The division of Arts & Science offers specalization in business administration, education (teacher training), music, physical education, chemistry, pharmacy, pre-law, pre-medicine, pre-nursing, and pre-veterinary.

Terminal vocational courses are offered for those students who are not planning to take a full four-year course. These courses are offered in the fields of practical agriculture, ranch-classroom course in cattle production, secretarial science, general business, and home-making.

These are practical courses that will prepare the student directly for occupation in these fields. The San Juan Basin Branch Station of the Colorado Agricultural Experiment Station is located at the College.

Agricultural research at Fort Lewis A & M College is conducted in cooperation with the Colorado Agricultural Experiment Station.

Projects consist of the testing of field and horticultural crops under high altitude conditions, and the production and distribution of foundation seed; also of animal investigation in the comparison of types of beef cattle and inbreeding for the improvement of strains.

Most of the agricultural facilities of the College, which include pastures and feed production, are utilized in this livestock and crop improvement program.

In cooperation with the Veterans Administration, a vocational agricultural program serves veterans living in Dolores, Montezuma, La Plata, and Archuleta counties. The objective of this training is to aid the veteran in acquiring proficiency in farming skills and managerial abilities and to help him become established in worth while farming enterprises. Instructors are maintained in the field and most of the instruction is given to the student on the farm.

#### LOWER DIVISION COLLEGE:

On the next few pages are outlined courses of study for students planning to major in either Agriculture, Engineering, or Arts and Sciences and the specialized courses within these divisions. These curricula have been planned with reference to the requirements of typical four year colleges at which students may be likely to continue their work after two years at Fort Lewis A & M College. Students are advised, however, to check their selection of courses and subjects of study against the published requirements of the particular institution to which they intend to transfer

All freshmen must register for English Composition. Also Review English must be included in the fall quarter by those students who do not make a passing grade in the English Orientation Examination.

All **freshmen** (new students: no previous college, and transfers of less than full sophomore rank) are required to take Freshman Orientation, (the only exception being **returning** Freshmen who have taken the Orientation course at Fort Lewis A & M College.)

All students are required to take two years of physical education except veterans, women students over 25, or students who are excused for health reasons upon presentation to The Registrar of a written request from their family physician.

# AGRICULTURE

Instruction in the Division of Agriculture is designed to train students for general or specialized agricultural study. Students in this division take the same course during the freshman year but begin to take courses more closely related to their major interest in the sophomore year.

## **General Agriculture**

#### FRESHMAN YEAR

AH-1 E-2 •E-1 Ag-1 FM-1 PE-1	Fall Quarter           Introductory Animal Husbandry           English Composition           Review English           Crop Production           Farm Carpentry           Physical Education           Freshman Orientation	(3-0) (3-0) (5-0) (0-6) (0-2)	Credits 5 3 1 5 2 1 0
	Tresiman Orientation	(1-0)	

16 or 17

19

54 or 55

		Winter Quarter	Hours
E-3 B-1	English	Composition	(3-0)
B-1	General	Botany	(3-4)
Č-7	General	Chemistry	(3-6)
M-10	Algebra		(5-0)
PE-2		Education	

E-4 B-3 C-8 H-1 PE-3	Spring QuarterHourEnglish Composition(3-0)General Botany(3-4)General Chemistry(3-6)General Horticulture(4-2)Physical Education(0-2)	3 5 5 5
		19

\*Review English is required for all students who do not make a passing grade in English Orientation Examination.

16

53

#### SOPHOMORE YEAR

C-11	Fall Quarter Organic Chemistry	Hours (3-6)	Credits 5
En-1 Es-40 Z-1	Farm & Home Insects American Government		5 3 5
Z-1 PE-4	Introduction to Zoology Physical Education		1
			19

		Hours	Credits
C-15	Organic Chemistry	(3-6)	5
PB-21	General Bacteriology		5
ES-41	American Government	(3-0)	3
FM-5	Farm Blacksmithing	(0-6)	2
PE-5	Physical Education	(0-2)	1

AH-12 Ag-18 FM-12 Ag-2 PE-6	Spring Quarter         Hours           Feeding         (4-2)           Irrigation Practices         (3-0)           Farm Machinery and Power         (1-6)           Soils         (5-3)           Physical Education         (0-2)	Credits 5 3 3 6 1
		18

# **Animal Husbandry**

#### SOPHOMORE YEAR

C-11	Fall Quarter Organic Chemistry	Hours (3-6)	Credits 5
ES-3 En-1 Z-1 PE-4	Frinciples of Economics	(3-0) (3-4) (3-4)	3 5 5 1
FC-4	Physical Education	(0 =)	19

	Winter Quarter	Hours	Credits
AH-5 ES-4	Livestock Judging Principles of Economics		35
PB-21 FM-5	General Bacteriology Farm Blacksmithing Meats		24
AH-30 PE-5	Physical Education	(0-2)	i
			17

Ah-7 AH-12 Ag-10 FM-12 PE-6	Spring Quarter Elements of Dairying Feeds and Feeding Principles of Genetics Farm Machinery and Power Physical Education	(4-2) (5-0) (1-6)	Credits 3 5 5 3 1
	-		17

53

# **Forestry and Range Management**

A college course in this field of specialization prepares qualified candidates for professional employment, either with various governmental agencies or by private enterprise, in forest management, forest industries, forest recreation, game management, range management, and grazing. Since the field is limited, colleges impose special requirements on students; reference is made to those set forth, as typical in the Bulletin of the Colorado A & M College, Fort Collins, Colorado, including the requirements of practical field instruction during residence in an organized summer camp.

The following program of courses is for the first two years:

#### FRESHMAN YEAR

E-2 *E-1 Z-1 AG-1 ES-40 PE-1	Fall Quarter           English Composition           Review English           Introduction to Zoology           Crop Production           American Government           Physical Education           Freshman Orientation	(3-0) (3-4) (5-0) (3-0) (3-0) (0-2)	Credits 3 1 5 3 1 0 17or 18
E-3 M-10 B-1 C-7 PE-2	Winter Quarter English Composition Algebra General Botany General Chemistry Physical Education	(5-0) (3-4) 	<b>Credits</b> 3 5 5 5 1 1 19
E-4 M-11 B-3 C-8 PE-3	Spring Quarter English Composition Trigonometry General Botany General Chemistry Physical Education	(3-0) (3-4) (3-6)	Credits 3 5 1 17 53 or 54

<sup>\*</sup>Review English is required for all students who do not make a passing grade in the English Orientation Examination

#### SOPHOMORE YEAR

CE-1	Fall Quarter	Hours	Credits
F-3 ES-3 E-23	Principles of Conservation Principles of Economics	(2-0) (3-0)	2 3
E-23 Ph-1 PE-4	Public Speaking Priciples of Physics Physical Education		2 3 1
			15

F-4 ES-4 Ph-2 G-1 E-24 PE-5	Winter QuarterHoursPrinciples of Conservation(2-0)Principles of Economics(3-0)Priciples of Physics(3-0)Physical Geology(4-3)Public Speaking(2-0)Physical Education(0-2)	Credits 2 3 5 2 1
PE-5	Physical Education	$\frac{1}{16}$

F-34	Spring Quarter Basic Mapping	Hours (1-6)	Credits 3
ES-5 Ag-2 Ph-3 E-25	Principles of Economics	(3-0)	3 3
Ag-2	Soils		· 6
Ph-3	Priciples of Physics	(3-0)	3
E-25	Public Speaking		2
PE-6	Physical Education	(0-2)	1
			18

49

# **Home Economics**

#### FRESHMAN YEAR

E-2	Fall Quarter English Composition	Hours (3-0)	Credits 3
•E-1	Review English	(3-0)	1
Ž-1	Introduction to Zoology	(3-4)	5
E-42	Fiction		(3)
TC-80	Elementary Textiles	(1-0)	*
<b>PE-61</b> Ed-9	Physical Education General Psychology Freshman Orientation	(3-0)	(3) 0

Hours 

 Fiours
 (3-6)

 Poetry
 (3-0)

 Principles of Fabrics and Construction
 (1-6)

 Physical Education
 (0-2)

 General Psychology
 (3-0)

 Winter Qu General Chemistry English Composition Poetry Winter Quarter C-7 Ĕ-3 E -43 -81 PE-62 Ed-10

	Spring Quarter	Hours	Credits
C-8	General Chemistry	(3-6)	5
C-8 E-4	English Composition	(3-0)	3
TC-83	Art and Technique of Modern Fashion	(1-6)	4
E-44	Biography	(3-0)	(3)
Ed-12	Educational Psychology		(3)
PE-63	Physical Education	(0-2)	1

16

48 or49

15

#### SOPHOMORE YEAR

C-11	General Chemistry	Hours (3-6)	Credits 5
ES-55 Ph-1	Introduction to Sociology	(3-0)	33
ES-1	Principles of Physics Principles of Economics	(3–0)	3
E-23 PE-64	Public Speaking Physical Education		2 1
	-		17

ES-56 Ph-2 ES-3 E-24 HM-70 PE-65	Winter Quarter Introduction to Sociology Principles of Physics Publics Speaking Effective Management of the Home Physical Education	(3-0) (3-0) (2-0) (3-0)	Credits 3 3 2 2 3 1
PE-65	Physical Education	(0-2)	1

VP-21 VP-21L Ph-3 ES-3 RA-25 PE-66	Spring Quarter Human Anatomy and Physiology Laboratory Principles of Physics Principles of Economics Making the Home More Attractive Physical Education	(0-2) (3-0) (3-0) (5-0)	Credits 5 1 3 5 1 1 18
			50

\*Review English is required for all students who do not make a passing grade in the English Orientation Examination

16 or 17

Credits

16

# ENGINEERING

The customary divisions of the field of engineering are Civil, Electrical, and Mechanical Engineering. Related fields are those of Industrial Arts and Industrial Arts Education. Civil engineering comprises such activities as irrigation engineering, highway engineering, structural engineering, sanitary engineering. Electrical engineering deals with the applications of existing techniques in the field of electricity, and the development of new engineering applications. Mechanical engineering relates to the design, construction, and operation of machinery, the generation and transmission of power, and the use of machines in economic production, including such machinery as steam turbines, steam boilers, diesel engines, air-conditioning and refrigeration machinery, and new materials of construction.

The following program of courses is required. During the freshman year all engineers take the same courses. In the sophemore year optional courses are offered according to the branch of engineering that the student is planning on following.

#### FRESHMAN YEAR

	Fall Quarter	Hours	Credits
E-2	English Composition	(3-0)	3
1Ē-1	Review English		ĭ
M-15	College Algebra	(5-0)	5
<sup>2</sup> M-15a	Advanced High School Algebra		ň
C-1	Inorganic Chemistry	(3-6)	5
MĒ-1	Mechanical Drawing		2
PE-1	Physical Education		1
	Freshman Orientation	(1-0)	ō
			16 or 17

E-3 M-16 M-16a C-3 ME-2 PE-2	Winter Quarter English Composition Plane Trigonometry High School Solid Geometry Inorganic Chemistry Mechanical Drawing Physical Education	(5-0) (2-0) (3-6) (0-6)	Credits 3 5 0 5 2 1 16
E-4 M-17 C-5 ME-3 M-2 PE-3	Spring Quarter English Composition Analytical Geometry Inorganic Chemistry Descriptive Geometry Slide Rule Physical Education	(5-0) (3-6) (1-6) (1-0)	Credits 5 5 1 1 18 56 or 57

**Review English is required for all students who do not make a passing grade** in the English Orientation Examination

These courses are required of students who have not had these courses in high school.

#### SOPHOMORE YEAR

Ph-25 M-36 E-42 CE-1 PE-4 CE-11 ME-5	Fall Quarter         General Physics	(5-0) ( <b>3-0)</b> (3-3) (0-3) (3-0)	Credits 5 3 4 1 3 2 18 or 21
Ph-26 M-37 E-43 CE-15 PE-5	Winter Quarter General Physics Calculus II Poetry Theoretical Mechanics (Statics) Physical Education	- (5-0) - (3-0) - (4-0)	Credits 5 3 4 1 18

Ph-27 M-38 CE-4 CE-18 PE-6 E-44 ME-15 ME-16	Spring Quarter General Physics Calculus III Advanced Surveying Strength of Materials Physical Education Biography Mechanism (Mechanical only) Mechanism Laboratory	(5-0) (2-3) (4-0) (0-3) (3-0) (3-0)	Credits 5 3 (4) 1 3 3 2
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17 or 20

53 or 59

## **General Arts and Science**

Under this heading is composed instruction in such general sciences as chemistry, physics, biology, botany, zoology), and geology, and in the field of the arts, which include language and literature, music. mathematics, history, and the social studies (sociology, economics. government, and psychology).

Students may work for a college degree in one or more of these fields. either wiht the aim of acquiring a general cultural education or for the purpose of developing a vocational specialty; the vocational possibilities include both practical employment (for example, as a chemist) and teaching at the high-school or college level. An undergraduate major in General Arts and Science is a proper foundation for graduate study and training in many of the professions, such as law and medicine.

Students electing to major in General Arts and Science or preparing for training in the professional fields of medicine, veterinary medicine, dentistry, law, and others should select courses with reference to the requirements of the college or university from which they expect to graduate. Many of the specific courses in General Arts and Science are included in the programs for the several specialized fields of study set forth on the following pages.

All students in the division of Arts & Science are required to complete a definite number of hours in the following fields of study during their freshman and sophomore years. These courses are as follows:

	Hours
Biological Sciences Inglish Language Iumanities Physical Education Physical Sciences Social Sciences	9 9 6
· · · · · · · · · · · · · · · · · · ·	51
Modern Languages Mathematics Electives	(9)
	96

<sup>&</sup>lt;sup>1</sup>These courses are suggested, but not absolutely required for freshman and sophomore years.

## Courses which will satisfy the foregoing requirements:

#### **Biological Sciences**

Biology Z-1 B-1 B-3	Introduction to Zoology General Botany	10urs 5 5 5
B-3	General Botany	5

Psychology	Ho	urs
Ed-9	General Psychology	3
Ed-10	General Psychology	3
Ed-11	General Psychology	3
Ed-12	Educational Psychology	3

#### English Language

Freshman	English		H	lours
E-2	English	Composition		3
E-3		Composition		3
E-4		Composition		3
•E-1	Review	English		1

#### Humanifies

Literature				Hours
E-42	Fiction			 . 3
E-43	Poetry			 . 3
E-44	Biography			 . 3
E-65			Literature	3
E-66			Literature	 3
E-67	Survey of	English	Literature	 3

Modern Lar	nguages H	ours
1L-21	First Year Spanish	5
L-22	First Year Spanish	5
L-23	First Year Spanish	5
°L-24	Second Year Spanish	3
L-25	Second Year Spanish	3
L-26	Second Year Spanish	3
<sup>8</sup> L-40	First Year German	5
L-41	First Year German	5
L-42	First Year German	5
4L-43	Second Year German	3
L-44	Second Year German	3
L-45	Second Year German	3

<sup>1</sup>Offered in alternate years, beginning 1952-53 <sup>3</sup>Offered in alternate years beginning 1952-53 if there is sufficient demand for it. <sup>3</sup>Offered in alternate years beginning 1951-52

<sup>\*</sup>Review English is required for all students who do not make a passing grade in the English Orientation Examination

<sup>&#</sup>x27;Offered alternate years beginning 1951-52, if there is sufficient demand for it.

### Mathematics

M-10 Algebra M-11 Trigonometry M-20 Mathematics of Finance M-15 College Algebra M-16 Plane Trigonometry M-17 Analytical Geometry	
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#### **Physical Education**

	Physical Physical	Education	Hour 1111	5
Sophomore PE-4, 64 PE-5, 65 PE-6, 68	Physical Physical	Education Education	Hour:	5

#### **Physical Sciences**

Chemistry C-1 C-3 C-5 C-7 C-8	Inorganic Chemistry Inorganic Chemistry Inorganic Chemistry General Chemistry General Chemistry	Hours 5 5 5 5 5 5
Geology G-1 G-2	Physical Geology Historical Geology	Hours 5 5
Physics Ph-1 Ph-2 Ph-3 Ph-25 Ph-26 Ph-27	Principles of Physics Principles of Physics Principles of Physics General Physics General Physics General Physics	Hours 3 3 5 5 5 5

#### Social Sciences

Economics ES-3 ES-4 ES-5	Principles of Economics	3
Sociology ES-55 ES-56 ES-57	Introduction to Sociology	3
Government ES-40 ES-41 ES-42	t American Government American Government American Government	3
History ES-80 ES-81 ES-82 ES-86 ES-87 ES-88	American History American History American History History of Western Civilization History of Western Civilization History of Western Civilization	3333

The following are some typical curricula which are for Arts and Science students intending to major in one of these fields.

# **Business Administration**

E-2 •E-1	FRESHMAN YEAR Fall Quarter English Composition		Credits 3
BS-30	Review English Principles of Accounting Physical Education Electives	(0-6) (0-2)	1 3 1
	Freshman Orientation		0 16 or 17

E-3 M-10	Winter Quarter English Composition	
BS-31	Principles of Accounting Physical Education Electives	(0-6)

E-4 <b>M-20</b> BS-32 PE-3, 63	Spring Quarter English Composition Mathematics of Finance Principles of Accounting Physical Education Electives	(4-0) ( <b>0-6)</b>
	Electives	

16

16

Credits 35314

16 Credits

#### SOPHOMORE YEAR

	Fall Quarter	Hours	Credits
ES-3	Principles of Economics		3
1	Modern Language		5
<sup>1</sup> Ε-42	Fiction	. (3-0)	(3)
	Public Speaking	. (2-0)	(2)
PE-4, 64	Physical Education	(0-2)	1
	Electives		7

		Hours	Credits
ES-4	Principles of Economics	(3-0)	3
1	Modern Language	(5-0)	5
<sup>1</sup> E-43	Poetry	(3-0)	(3)
<sup>1</sup> E-24	Public Speaking	(2-0)	(2)
BS-34	Cost Accounting	(4-0)	4
PE-5,65	Physical Education	(0-2)	1
	Electives		3

		Hours	Credits
ES-5	Principles of Economics	(30)	3
1	Modern Language	(5-0)	5
E-44	Biography	(3-0)	(3)
<sup>1</sup> E-25	Public Speaking	(2-0)	(3) (2)
BA-1	Business Organization & Management	(4-0)	4
PE-6, 66	Physical Education	(0-3)	1
BS-35	Cost Accounting	(4-0)	<u> </u>
			17

49

<sup>•</sup>Review English is required for all students who do not make a passing grade in the English Orientation Examination

<sup>&</sup>lt;sup>1</sup>Take either of the courses so that there is total of 5 credits per quarter in this group.

Credits

16

17 or 18

## Chemistry

FRESHMAN YEAR

E-2	Fall Quarter English Composition	Hours (3-0)	Credits 3
<sup>1</sup> E-1 E-65	Review English	(3-0)	1
C-1	Inorganic Chemistry	(3-6)	3
M-15	College Algebra	(5-0)	5
PE-1, 61	Physical Education Freshman Orientation	(0-2) (1-0)	1 0

Winter Quarter Hours 

 E-3
 English Composition
 (3-0)

 E-66
 Survey of English Literature
 (3-0)

 C-3
 Inorganic Chemistry
 (3-6)

 M-16
 Plane Trigonometry
 (5-0)

 PE-2, 62
 Physical Education
 (0-2)

E-4	English Composition	Hours (3-0)
C-5 M-17	Survey of English Literature Inorganic Chemistry Analytical Geometry	. (3-0) (3-6) (5-2)

#### SOPHOMORE YEAR

	Fall Quarter	Hours	Credits
ES-40	American Government		3
C-31	Inorganic Qualitative Analysis	(2-6)	4
M-36	Calculus		5
PE-4, 64	Physical Education	(0-2)	1
	Electives		3

ES-41 C-33 M-37 PE-5, 65	Winter Quarter       Hour         American Government       (3-0)         Quantitative Analysis       (3-6)         Calculus       (5-0)         Physical Education       (0-2)         *Electives       (3-1)	s Credits 3 5 1 2 16
ES-42 C-36 M-38 PE-6, 66	Spring Quarter     Hour       American Government     (3-0)       Quantitative Analysis     (2-9)       Calculus     (5-0)       Physical Education     (0-2)       *Electives	3
		16 48

Review English is required for all students who do not make a passing grade in the English Orientation Examination.

alt is recommended that the courses for these electives be selected from either E-23,24,25 Public Speaking (2-0)2; L-40,41,42 First Year German (5-0)5; or L-43,44,45 Second Year German (3-0)3.

# **Education (Teacher Training)**

## FRESHMAN YEAR

	Fall Quarter	Hours	Credits
E-2	English Composition	(3-0)	3
<sup>1</sup> E-1	Review English	(3-0)	1
ES-40	American Government	(3-0)	3
8Z-1	Introduction to Zoology	(3-4)	(5)
°Ph-1	Principles of Physics		(3)
Ed-9	General Psychology	(3-0)	3
PE-1.61	Physical Education	(0-2)	1
	Freshman Orientation	(1-0)	0

14 or 17

Credits 33 (Š) (5) (3) 3 1 3

E-3	Winter Quarter English Composition	Hou (3-4
E-3 ES-41	American Government	(3-
2C-7	General Chemistry	
*B-1	General Botany	
2Ph-2	Principles of Physics	. (3-(
PE-35	Personal Hygiene	(3-0
PE-2. 62	Physical Education	
Ed-10	General Psychology	(3-0

16 or 17

(3) 18

49

		Hours	Credits
Ed-12	Educational Psychology	(3-0)	3
E-4	English Composition		3
E-4 ES-42	American Government		3
<sup>2</sup> C-8	General Chemistry	(3-6)	(5)
₹B-3	General Botany	(3-4)	(5)
Ph-3	Principles of Physics		(3)
PE-36	Community Hygiene & Sanitation	(3-0)	3
PE-3, 63	Physical Education	(0-2)	ĩ
Ed-49	School Management	. (3–0)	(3)

#### SOPHOMORE YEAR

	Fall Quarter	Hours
E-65	Survey of English Literature	(3-0)
E-23	Public Speaking	(2-0)
ES-80	American History	. (3-0)
Ed-82	Psychology of Childhood	
PE-4.64	Physical Education	(0-2)
	Electives	

	Winter Quarter	Hours
E-66	Survey of English Literature	
<b>M-1</b> 0	Algebra	(5-0)
E-24	Public Speaking	(2-0)
ES-81	American History	(3-0)
PE-5,65	Physical Education	(0-2)
	Electives	

E-67 E-25 ES-82 Ed-39 PE-6, 66	Spring Quarter Survey of English Literature Public Speaking American History Introduction to Elementary Education Physical Education Electives	(2-0) (3-0) (4-0)	<b>Credita</b> 3 2 3 4 1 3
			16

<sup>1</sup>Review English is required for all students who do not make a passing grade in the English Orientation Examination

<sup>&</sup>lt;sup>2</sup>These courses may be taken to fulfill the requirement of 9 hours of physical science. If you choose Physics, you should plan to take the full sequence Ph-1,2,3, or if chemistry is the choice, sequence C-7,8 should be taken.

<sup>&</sup>lt;sup>8</sup>These courses will satisfy the requirement in Biological Science. The combi-nation of either Z-1 and B-1 may be taken, or B-1 and B-3.

Credits

313142110

# **Applied Music**

Piano required of all music majors until sufficient proficiency has been acquired to meet requirements. FRESHMAN YEAR

#### Fall Ouaston

	Fall Quarter	Hours
E-2	English Composition	
*E-1	Review English	(3-0)
	Applied Music (Major)	
	Applied Music (Minor)	(₩-0)
Mu-3	Fundamental Theory	
Mu-12	Introduction to Music Literature	(2-0)
	<ul> <li>Orchestra, Band, Chorus</li> </ul>	(0-3)
PE-1. 61	Physical Education	
	Freshman Orientation	(1-0)

15-or 16 dits

	Winter Quarter	Hours	Credi
E-3	English Composition		3
	Applied Music (Major)	(1-0)	3
	Applied Music (Minor)	( 14-0)	ĭ
Mu-4	Fundamental Theory	(5-0)	4
Mu-13	Introduction to Music Literature	(2-0)	2
	*Orchestra, Band, Chorus		ĩ
PE-2 62	Physical Education	(0-2)	

	Spring Quarter	Hours
E-4	English Composition	(3-0)
	Applied Music (Major)	(1-0)
	Applied Music (Minor)	(1/4-0)
Mu-5	Fundamental Theory	
Mu-14	Introduction to Music Literature	
	Orchestra, Band, Chorus	(0-3)
PE-3, 63	Physical Education	(0-2)

# 15

45 or 46

Credits 4 ŝ ĩ ī 4 or 5 ī 17 or 18 Credits 4 3 1 3 1 4 or 5 1 17 or 18

### SOPHOMORE YEAR

	Fall Quarter	Hours
Mu-9	Advanced Theory	
	Applied Music (Major)	(1-0)
	Applied Music (Minor)	¥-0)
Mu-15	History of Music	(3-0)
	Orchestra, Band, Chorus	(0-3)
PE-4, 64	Physical Education	(0-2)

	Winter Quarter	Hours
Mu-10	Advanced Theory	
	Applied Music (Major)	
	Applied Music (Minor)	
<b>Mu-1</b> 6	History of Music	(3-0)
	Orchestra, Band, Chorus	
	'Electives	
<b>PE-</b> 5, 65	Physical Education	(0-2)

	Spring Quarter	Hours	Credits
Mu-11	Advanced Theory	(5-0)	4
	Applied Music (Major)	(1-0)	3
	Applied Music (Minor)	<b>¼-</b> 0)	1
Mu-17	History of Music	(3-0)	3
	Orchestra, Band, Chorus	(0-3)	1
	<sup>1</sup> Electives		4 or 1
PE-6, 66	Physical Education	(0-2)	1
	-		

Student must elect one.
 Voice major must elect a Modern Language
 Review English is required for all students who do not make a passing grade in the English Orientation Examination

# **Music Education**

FRESHMAN YEAR

## Same course as for Applied Music

### SOPHOMORE YEAR

	Fall Quarter	Hours	Credits
Ed-9	General Psychology		3
Mu-9	Advanced Theory	(5-0)	4
	Applied Music (Major)	(1-0)	2 or 3
	Applied Music (Minor)		1
Mu-15	History of Music	(3-0)	3
	Orchestra, Band, Chorus		1
	Electives		2 or 3
PE-4.64	Physical Education	(0-2)	1

17	or	18
----	----	----

	Winter Quarter	Hours	Credits
<b>Mu-</b> 10	Advanced Theory Applied Music (Major)		2 or 3
	Applied Music (Major)		1 1
Mu-16	History of Music		3
Ed-10	General Psychology		3
	"Orchestra, Band, Chorus Electives		$\stackrel{1}{2}$ or 3
<b>PE-5</b> . 65	Physical Education		1
			17 or 18

Mu-11	Spring Quarter Advanced Theory	Hours (5-0)	Credits
Mu-11	Applied Music (Major)		2 or 3
	Applied Music (Minor)		1
Mu-17	History of Music		3
Ed-12	Educational Psychology		3
	*Orchestra, Band, Chorus		1
PE-6.66	Physical Education	(0 <b>-2</b> )	1
			<b>17 or</b> 18

\*Student must elect one. Voice major must elect a Modern Language

## Pharmacy

FRESHMAN YEAR

E-2 *E-1 C-1 Z-1 PE-1, 61	Fall Quarter           English Composition           Review English           Inorganic Chemistry           Introduction to Zoology           Physical Education           Freshman Orientation	(3-0) (3-6) (3-4) (0-2)	Credits 3 1 5 5 1 0 15 or 16
E-3 C-3 B-1 M-10 PE-2, 62	Winter Quarter English Composition Inorganic Chemistry General Botany Algebra Physical Education	(3-6) (3-4) (5-0)	Credits 3 5 5 5 1 19
E-4 C-5 B-3 M-11 PE-3, 63	Spring Quarter English Composition Inorganic Chemistry General Botany Trigonometry Physical Education	(3-6) (3-4) (3-0)	Credits 3 5 3 1 17 51 or 52

Pharmacy students are required to spend three years in residence at the school where they will receive their degree: therefore, these students should plan to transfer at the end of their freshman year.

\*Review English is required for all students who do not make a passing grade in the English Orientation Examination

# **Physical Education**

FRESHMAN YEAR

	Fall Quarter	Hours
E-2	English Composition	(3-0)
•Ē-1	Review English	(3-0)
ES-86	History of Western Civilization	
Z-1	Introduction to Zoology	
PE-20	Orientation to Physical Education	
PE-1	Physical Education	
	Freshman Orientation	

17	or	1
Cred	lits	
3 3 3 5		
1		

17

	Winter Quarter	Hours
E-3	Winter Quarter English Composition	(3-0)
ĒS-87	History of Western Civilization	3-0)
PE-35	Personal Hygiene	(3-0)
C-7	General Chemistry	(3-6)
PE-2	Physical Education Electives	
	Electives	*****

16

17

#### SOPHOMORE YEAR

	Fall Quarter Ho	OUR	Credits
Ed-9	General Psychology		3
	Survey of English Literature or Fiction (		3
Ed-15	Methods in Teaching Football	4-0)	4
ES-40	American Government	3-0)	3
<b>PE-90</b>	First Aid		2
PE-4	Physical Education	)-2)	1

Ed-10 Ed-16 ES-41 PE-80 PE-5	Winter Quarter General Psychology 'Survey of English Literature or Poetry Methods in Teaching Basketball American Government Principles of Recreation Physical Education	(3-0) (4-0) (3-0) (3-0)	Credits 3 4 3 3 1
Ed-16 ES-41 PE-80	<sup>1</sup> Survey of English Literature or Poetry Methods in Teaching Basketball American Government Principles of Recreation	(3-0) (4-0) (3-0) (3-0)	<b>3</b> 4 3

VP-21 VP-21L Ed-12 PE-17 PE-30 PE-6	Spring Quarter         Hours           Human Anatomy and Physiology         (5-0)           Human Anatomy & Physiology Laboratory         (0-2)           Educational Psychology         (3-0)           Organization & Management of Sports         (3-0)           Treatment of Injuries & Care & Prevention         (2-0)           Physical Education         (0-2)	Credits 5 1 3 3 2 1
		15

48

\*Review English is required for all students who do not make a passing grade in the English Orientation Examination <sup>1</sup>Choose either subject

8

# **Pre-Law**

#### FRESHMAN YEAR

	Fall Quarter	Hours	Credits
E-2	English Composition	(3-0)	3
ιE-1	Review English	(3-0)	ĩ
E-65	Survey of English Literature	(3-0)	3
ES-40	American Government	(3-0)	3
ES-86	History of Western Civilization		3
	Electives		3
PE-1.61	Physical Education	(0-2)	ĭ
-	Freshman Orientation	(1-0)	ō

16 or 17

16

	Winter Quarter	Hours
E-3	English Composition	(3-0)
E-66	Survey of English Literature	(3-0)
ES-41	History of Western Civilization	(3-0)
ES-87	American Government	(3-0)
	Electives	
PE-2 62	Physical Education	(0-2)

	Spring Quarter	Hours	Credits
E-4	English Composition		3
E-67	Survey of English Literature	(3-0)	3
ES-42	American Government		3
ES-88	History of Western Civilization	(3-0)	3
	Electives		3
PE-3, 63	Physical Education	(0-2)	1

16

48 or 49

16

48

#### SOPHOMORE YEAR

E-23	Fall Quarter Public Speaking	Hours (2-0)	Credits 2
Ed-9 ES-80	General Psychology American History	(3-0) (3-0)	33
PE-4, 64	Electives Physical Education		7 1

		Hours	Credits
E-24	Public Speaking General Psychology	(2-0)	2
Ed-10 ES-81	American History	(3-0)	3
	2Electives		7
PE-5, 65	Physical Education	(0-2)	1
			16

E-25	Spring Quarter Public Speaking	Hours (2-0)	Credits 2
ES-82	American History	(3-0)	38
PE-6 66	Physical Education	(0-2)	ĭ
Ed-11	General Psychology	(3-0)	3
			16

<sup>1</sup>Review English is required for all students who do not make a passing grade in the English Orientation Examination.

<sup>&</sup>quot;Electives should be selected from Science, Language, Mathematics, or Accounting.

# **Pre-Medicine**

FRESHMAN YEAR

Credits 3 3 5 1 0 5 5

	Winter Quarter	Hours
E-3 ES-41 C-3 M-10 PE-2, 62	English Composition American Jovernment Inorganic Chemistry Algebra Physical Education	. (3-0) . (3-6) . (5-0)

		Hours
E-4	English Composition	.(3-0)
E-4 E <b>S-42</b> C-5	American Government	(3-0)
C-5	Inorganic Chemistry	(3-6)
M-11	Trigonometry	(3-0)
PE-3, 63	Physical Education	(0-2)
	•	

#### SOPHOMORE YEAR

Ph-25	Fall Quarter General Physics	Hours (3-4)	Cre
E-65 E-23	Survey of English Literature Public Speaking	. (3-0)	
PE-4.64	*Electives Physical Education	(0-2)	

		Hours	Credits
Ph-26	General Physics		5
E-66 E-24	Survey of English Literature Public Speaking	(2-0)	2
<u>C-33</u>	Quantitative Analysis	(3-6)	5
PE-5,65	Physical Education	(0-2)	1

Ph.27	Spring Quarter General Physics	Hours (3-4)	Credits
E-67 E-25	Survey of English Literature Public Speaking	(3-0)	32
PE-6, 66	* Electives	(0-2)	5 1
			16

<sup>1</sup>Review English is required for all students who do not make a passing grade in the English Orientation Examination.

17 or 18

Credits 3355 51 17 Credits

> 15 49 or 50

16

16

48

It is recommended that a foreign language such as German be included in these electives.

<sup>\*</sup>Ag-10 Genetics (5-0)5 may be taken in place of other electives.

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## **Pre-Nursing**

FRESHMAN YEAR

E-2 E-1 E-42 ES-55 Ed-9 P <b>E-61</b>	Fall Quarter           English Composition           Review English           Fiction           Introduction to Sociology           General Psychology           Physical Education           Freshman Orientation           Electives	(3-0) (3-0) (3-0) (3-0) (0-2)	Credits 3 3 3 3 1 0 3
--	--	---	--

16 or 17

E-3 C-7 ES-56 Ed-10 PE-62	Winter Quarter English Composition General Chemistry Introduction to Sociology General Psychology Physical Education	 Credits 3 5 3 3 1
		15

E-4 C-8 ES-57 PE-63 Ed-11	Spring Quarter English Composition General Chemistry Introduction to Sociology Physical Education General Psychology	(3-6) (3-0) (0-2)	Credits 3 5 3 1 3
		(0 0)	15

Students may transfer to most schools of nursing at the end of the freshman year. However, some schools require additional college work and therefore a second year may be arranged. The student should consult the bulletin of the school to which he is transferring in order to make sure that he meets the entrance requirements.

<sup>\*</sup>Review English is required for all students who do not make a passing grade in the English Orientation Examination.

17

47 or 48

18

18

15 or 16

# **Pre-Veterinary**

#### FRESHMAN YEAR

E-2 *E-1 C-1 ES-40 PE-1, 61	English Composition Review English Inorganic Chemistry American Government Physical Education Preshmen Orientation	(3-0) (3-6) (3-0) (0-2)	Credits 3 5 3 1 0
			0 3

	Winter Quarter	Hours
E-3	English Composition	(3-0)
C-3	Inorganic Chemistry	(3-6)
B-1	General Botany	
ES-41	American Government	
PE-2, 62	Physical Education	

E-4 C-5 ES-42 <b>PE-3. 6</b> 3 E-44	Spring Quarter English Composition Inorganic Chemistry American Government Physical Education Biography	(3-6) (3-0) ( <b>0-2</b> )	<b>Credits</b> 3 5 3 1 3
			15

SOPHOMORE YEAR

		Hours	Credits
C-11	Organic Chemistry	(3-6)	5
Ph-1	Principles of Physics	(3-0)	3
E-65	Survey of English Literature	(3-0)	3
Ed-9	General Psychology	(3-0)	3
ES-80	American History	(3-0)	3
PE-4, 64	Physical Education	(0-2)	1

C-15 Ph-2 E-66 Ed-10 ES-81 PE-5, 65	Winter Quarter Organic Chemistry Principles of Physics Survey of English Literature General Psychology American History Physical Education	(3-0) (3-0) (3-0) (3-0)	Credits 5 3 3 3 3 3 1

Ph-3	Spring Quarter Survey of English Literature American History Organic Chemistry Principles of Physics Physical Education	(3-0) (3-6)	Credits 3 3 5 <b>5</b> 3 1
			15
			51

<sup>\*</sup>Review English is required for all students who do not make a passing grade in the English Orientation Examination.

## TERMINAL VOCATIONAL COURSES:

Students who are not planning a four-year college course are offered the opportunity of taking two-year courses in agriculture, homemaking, and commerce. These courses afford practical training which will be of immediate value to the students in obtaining jobs, running their own farms or ranches, or setting up and maintaining a home.

Graduation from high school is not required. Any student who has sufficient age and experience to profit from such courses will be accepted. However, students admitted without evidence of high school graduation will not receive college credits that would be transferable to a four-vear college and be acceptable toward a degree. In no case will courses bearing the prefix "0" in front of the course number in the course description be granted college transfer credit.

Upon satisfactory completion of the courses outlined below, the student will receive a certificate or an Associate in Arts degree.

## **Practical Agriculture**

This two year short course in Practical Agriculture is designed to make better farmers and ranchers. The course is divided into two sections in the second year. The student may take either one of these sections according to his interests and needs. In one section study is directed along the lines of ranch practices and cattle production. This course deals with the actual work of cattle breeding, raising, and grooming for market.

In the other section study is directed along the lines of farming and crop production. This course deals with farm management and the production of gainful crops.

# **Practical Agriculture**

E-2 *E-1 Ag-1 AH-1 FM-1 PE-1	FIRST YEAR Fall Quarter English Composition Review English Crop Production Introductory Animal Husbandry Farm Carpentry Physical Education Freshmen Orientation		Credits 3 5 5 2 1 0
E-3 B-1 PA-010 FM-5 RA-5 PE-2	Winter Quarter English Composition General Botany Arithmetic in Agriculture Farm Blacksmithing Handicraft Physical Education	(3-4) (3-0) (0-6) (0-6)	16 or 17 Credits 3 5 3 2 2 1 16
E-4 B-3 AH-7 AH-12 PE-3	Spring Quarter English Composition General Botany Elements of Dairying Feeds and Feeding Physical Education	(3-4) (2-2) (4-2)	16 Credits 3 5 3 5 1 17 17 49 or 50

\*Review English is required for all students who do not make a passing grade in the English Orientation Examination.

# Practical Agriculture—Ranch & Cattle Production

SE	COND	YEAR
- 11	A	~-

	SECOND IEAN		
		Hours	Credits
PA-03	Farm Management	_ (4-0)	4
En-1	Farm & Home Insects	(3-4)	5
PA-021	Agriculture Seminar	(0-4)	2
•PA-05	*Ranch Practices	(0-6)	2
F-3	Principles of Conservation	. (2-0)	2
PA-04	Livestock Diseases	(2-3)	3
PE-4	Physical Education	(0-2)	1
			17 or 19

<b>AH-3</b> 0	Winter Quarter	Hours (0-8)	Credits 4
AH-5	Livestock Judging	14 45	2
PA-011	Farm and Ranch Accounting	(3-0)	3
PA-022	Agriculture Seminar	(0-4)	2
•PA-06 F-4	Ranch Practices	. (0-6)	2
F-4	Principles of Conservation	(2-0)	z
PE-5	Physical Education Electives	(0-2)	2
			16 or 18

PA-023 FM-15 FM-12 Ag-2 •PA-07 PE-6	Spring Quarter Agriculture Seminar Rural Electrification and Sanitation Farm Machinery and Power Soils Ranch Practices Physical Education	( <b>2-3)</b> (1-6) (5-3)	Credits 2 3 5 6 2 1
			15 or 17

<sup>48</sup> or 54

Fifty

<sup>\*</sup>Courses in Ranch Practices may be taken only by students with no previous experience on a farm or ranch.

# Practical Agriculture—Farm & Crop Production

## SECOND YEAR

EN-1 PA-03 PA-021 <b>F-3</b> PA-04 PE-4	Fall Quarter         Farm and Home Insects         Farm Management         Agriculture Seminar         Principles of Conservation         Livestock Diseases         Physical Education	(4-0) (0-4) (2-0) (2-3)	Credtts 5 4 2 2 3 1 1 17
PA-011 AH-30 PA-022 AH-5 F-4 PE-5	Winter Quarter Farm and Ranch Accounting Meats Agriculture Seminar Livestock Judging Principles of Conservation Physical Education	(0-8) (0-4) (0-4) (2-0)	Credits 3 2 2 2 1 14
PA-023 Ag-2 FM-12 FM-15 PE-6	Spring Quarter Agriculture Seminar Solis Farm Machinery and Power Rural Electrification and Sanitation Physical Education Electives	(5-3) (1-6) (2-3) (0-2)	Credita 2 6 3 1 2 17 

## Homemaking

This two year course is designed to provide the future homemaker with the basic, practical knowledge for efficient management of a home as well as to acquaint her with ideas and methods for making it attractive and comfortable. Also included in the course is the study and application of fashion and dress design.

FIRST YEAR Fall Cuarter E-2 English Composition *E-1 Review English FN-010 Attractive and Wholesome Breakfasts TC-80 Art of Color and Style Ed-9 General Psychology PE-61 Physical Education (Women's) Freshmen Orientation	(3-0) (1-6) (1-6) (3-0) (0-2)	Credits 3 1 4 4 3 1 0 15 or 16
Winter Quarter       Miniter Quarter         E-3       English Composition       Interval of the second sec	(1-6) (3-0)	Credits 3 4 4 3 1 15
E-4 English Composition Inners In FN 027 Attractive and Wholesome Dinners Internation TC-83 Art and Technique of Modern Fashion Ed-11 General Psychology PE-63 Physical Education (Women's) Electives	(1-6) (1-6) (3-0)	Credits 3 4 3 1 3 18

48 or 49

#### SECOND YEAR

ES-55 FN-036 TC-90 E-23 PE-90 PE-64	Introduction to Sociology	(1-6) (1-6) (2-0)	Credits 3 4 2 2 1 16
E-24	Winter Quarter           Introduction to Sociology           Party Foods           Sewing for the Home           Effective Management in the Home           Public Speaking           Women's Physical Education	(3-0) (1-6) (1-6) (3-0) (2-0)	Credits 3 4 4 3 2 1 17
ES-57 FN-038 TC-53 RA-25 PE-66		(3-0) (1-6) (1-6) (5-0)	Credits 3 4 5 1 17 50

 $^{\rm s}Review$  English is required for all students who do not make a passing grade in the English Orientation Examination.

## **Commerce**

The courses offered in this general field are for those students who wish to find employment with a minimum amount of time spent in preparation. These courses provide the basic knowledge and training for employment as a secretary, stenographer, typist, or other clerical assistant.

### ONE YEAR TERMINAL COURSE IN SECRETARIAL SCIENCE

	Fall Quarter	Hours	Credits
<sup>1</sup> E-1	Review English	(3-0)	1
<sup>2</sup> BS-10	Theory of Shorthand	(5-0)	5
BS-05	Business Communications	(3-0)	š
BS-1	Principles of Typewriting	. (0-š)	š
BS-021	Filing Systems		Ă
PE-1 61	Physical Education	(0-2)	ĩ
	Freshmen Orientation	. (1-0)	ô

16 or 17

BS-2 BS-06 PE-2, 62	Winter Quarter         Image: Market Strength Strengt Strength Strength Strength Strengt Strength Strengt	(0-3) (3-0) (4-0)	Credits 5 3 3 4 1

16

4BS-12 BS-019 BS-046 BS-36 PE-2, 62	Spring Quarter         H           Dictation         Secretarial Training         Secretarial Training           Business Orientation         Payroll Accounting         Secretarial Training           Physical Education         Secretarial Training         Secretarial Training	(3-0) (3-0) (3-0)	Credits 5 3 3 1 15
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47 or 48

<sup>1</sup>Review English is required for all students who do not make a passing grade in the English Orientation Examination.

<sup>3</sup>If a student has had shorthand in high school, he will take: BS-014, Shorthand Review, (5-0)5.

<sup>a</sup>If a student has had shorthand in high school, he will take: BS-023, Dictation and Transcription, (5-0)5.

If a student has had shorthand in high school, he will take BS-024, Dictation & Transcription,(5-0)5.

## **One-Year Business Course**

		Hours	Credits
*E-1	Review English	(3-0)	1
BS-30	Principles of Accounting	(0-6)	3
BS-05	Business Communications	(3-0)	3
BS-021	Filing Systems	(0-4)	4
BS-1	Principles of Typewriting	(0-3)	3
<b>BA-03</b>	Introduction to Insurance	(3-0)	3
PE-1 61	Physical Education	(0-2)	1
, .,	Freshmen Orientation	(1-0)	0

17	ог	18
17	or	18

53 or 54

BS-31 BS-06 BS-040 BS-34 BA-04 PE-2 62	Winter Quarter Principles of Accounting Business Communications Psychology of Business Cost Accounting Introduction to Advertising Physical Education	(3-0 <del>)</del> (4-0) (4-0) (3-0)	Credits 3 4 4 3 1
	•		18

BS-32 BS-36 BA-1 BS-03 <sup>1</sup> M-20 PE-3, 63	Spring Quarter Principles of Accounting Payroll Accounting Business Organization & Management Introduction to Income Tax Mathematics of Finance Physical Education	(3-0) (4-0) (3-0) (4-0)	Credits 3 4 3 4 1
			18

\*Review English is required for all students who do not make a passing grade in the English Orientstion Examination. <sup>1</sup>If M-20 is desired, student must take Algebra M-10.

## Fifty Four

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# **Vocational Business**

#### FIRST YEAR

		Hours	Credits
•E-1	Review English	(3-0)	Į
BS-10	Theory of Shorthand Business Communications	(3-0)	3
BS-05 BS-1	Principles of Typewriting	(0-3)	3
BS-30	Principles of Accounting	(0-6)	3
PE-1, 61	Physical Education	(0-2)	1
	Freshman Orientation	(1-0)	

15 or 16

Credits 533331

15

Winter Quarter	
BS-11 Theory of Shorthand BS-06 Business Communications	(5-0)
BS.31 Principles of Accounting	(0-6)
BS-2 Principles of Typewriting PE-2, 62 Physical Education	(0-3) (0-2)

	Spring Quarter Dictation	Hours	Credits 5
BS-12	Payroll Accounting	. (3-0)	3
BS-36	Principles of Accounting	(0-6)	3
BS-32 BS-07	Business Communications	. (3-0)	3
PE-3 63	Physical Education	(0-2)	1
1			
			15

45-or 46

18

#### SECOND YEAR

	Fall Quarter	Hours	Credits
BS-014	Shorthand Review	(5-0)	5
BA-03	Introduction to Insurance	. (3-0)	3
BS-021	Filing Systems	(0-4)	4
DF-4 64	Physical Education	(0-2)	1
г Б-4, 04	Electives	(• =)	5

BS-040 BS-34 BA-04	Winter Quarter Dictation and Transcription Psychology of Business Cost Accounting Introduction to Advertising Physical Education	(4-0) (4-0) (3-0)	<b>Credits</b> 5 4 3 1
			17

BS-024 BS-019 BA-1 BS-039 PE-6, 66	Spring Quarter Dictation and Transcription Secretarial Training Business Organization and Management Introduction to Income Tax Physical Education	(3-0) (4-0) (3-0)	Credits 5 3 4 3 1
			16
			51

"Review English is required for all students who do not make a passing grade in the English Orientation Examination.

# **DESCRIPTION OF COURSES**

Note: Following the titles of individual courses, which are grouped by department in alphabetical order, the letters, F. W. S, indicate the quarter (Fall, Winter, Spring) during which the course is offered. Arabic numerals in the parenthesis are used to indicate the number of actual hours spent in class and laboratory, while the last number on the line indicates the number of credit hours for the course. Thus, for example, the figures "(3-4)5" would mean that the course requires three hours of class and four hours of laboratory work each week, and carries five guarter hours of credit.

Courses whose numbers begin with a zero, for example PA-01, are primarily intended for students following the curriculums outlined for the Terminal Vocational Courses. (The credits for these courses are not transferable to other colleges.)

#### AGRICULTURE

#### AGRONOMY

#### Ag-1 CROP PRODUCTION

A study of the principles of field crop production with special emphasis on cultural practices and botanical characteristics of crops grown in the state.

#### Ag-2 SOILS

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.

### Ag-10 PRINCIPLES OF GENETICS

A study of fundamental principles of heredity, variation, breeding and evolution. Emphasis is placed upon the physical basis of heredity, independent inheritance, and linkage. Prerequisites: B1, B3, Z1.

#### Aq-18 IRRIGATION PRACTICES

A study of the systems used in irrigation, water supply, water measurement, methods of irrigation, soils in relation to irrigation, water efficiency, drainage, and the water requirements of different crops. Prerequisite: Ag-1

### ANIMAL HUSBANDRY

#### AH-1 INTRODUCTORY ANIMAL HUSBANDRY F (3-4)5 Selecting and evaluating beef cattle, dairy cattle, sheep, swine, and horses on a purebred and market basis. Emphasis placed on types, breeds, markets, and market classification.

### AH-5 LIVESTOCK JUDGING

Selection and judging of market and breeding classes of livestock.

### S (5-3)6

F (5-0)5

## S (3-0)3

# S (5.0)5

W (0-4)2

### AH-7 ELEMENTS OF DAIRYING

S (2-2)3 An introduction to the dairy industry. A brief study of the history and development of the industry and of the composition, properties, and food value of milk. An introduction to the manufacturing processes for butter, ice cream, cheese, and other dairy products.

#### AH-12 FEEDS AND FEEDING

Feeds and their use in feeding livestock. Calculation of rations which meet requirements for maintenance, growth, and production. Prerequisite: AH1.

### AH-30 MEATS

Fifty Six

A study of meats from the producer's and consumer's stand-point. The slaughter, dressing, cutting, curing, and nutritive value of meats. Trips to packing plants.

#### FARM MECHANICS

### FM-1 FARM CARPENTRY

Rafter cutting and erection, framing, making wood appliances, drawing, care and use of tools, and painting.

#### FM-5 FARM BLACKSMITHING

Forge work for the farmer, involving construction and repair work in shaping, annealing, hardening, and tempering: acetylene and electric welding.

### FM-12 FARM MACHINERY AND POWER

A theory, demonstration and maintenance course in motors, engines, and transportation equipment used on the farm, which includes repair, instruction, operation and adjustment of farm machinery.

#### FM-15 RURAL ELECTRIFICATION AND SANITATION S (2-3)3

Rural uses of electricity on the farm for light and power, water supply, and sewage disposal.

### RA-5 HANDICRAFT

Basic processes of handicraft, including woodworking, metal working, etc. Operation of power machinery.

### PRACTICAL AGRICULTURE

#### PA-03 FARM AND RANCH MANAGEMENT F (4-0)4 Size of farm, type and rates of production, combination of enterprises, labor and machinery efficiency are considered.

#### PA-04 LIVESTOCK DISEASES

The course does not take the place of veterinary practice but aids the farmer in identifying common livestock diseases and in learning emergency treatments he can give before a veterinarian is available.

# F (0-6)2

### W (0-6)2

### W (0-6)2

## S (4-2)5

W (0-8)4

# S (1-6)3

F (2-3)3

PA-05 RANCH PRACTICES F (0-6)2	
This course is offered for the purpose of giving students, with no previous agriculture experience, actual experience in hand- ling stock, and enabling the student to participate in other activities that confront stockmen and ranchers. No credi offered to students with previous experience in farm or ranch work	r t
PA-06 RANCH PRACTCIES W (0-6)2 A continuation of PA-05.	2
PA-07 RANCH PRACTICES S (0-6)2 A continuation of PA-06.	2
PA-010 ARITHMETIC IN AGRICULTURE W (3-0)3	3
A review of the principles of arithmetic with special emphasis on application to everyday farming problems.	s
PA-011 FARM AND RANCH ACCOUNTING W (3-0)3 A study of farm record keeping. Practical value of records is stressed.	3 s
PA-021 AGRICULTURAL SEMINAR F (0-4)2 Students study chosen problems with emphasis on a local situation.	2 1
PA-022 AGRICULTURAL SEMINAR W (0-4)2 A continuation of PA-021.	2
PA-023—AGRICULTURAL SEMINAR S (0-4)2 A continuation of PA-022.	2
BIOLOGY	
Bacteriology	
PB-21 GENERAL BACTERIOLOGY W (3.4) An elementary study of bacteria with emphasis upon their role in everyday life. Prerequisites: C1, C3, C5, or C7 and C8.	<b>5</b> e
Botany	
B-1 GENERAL BOTANY W (3-4): The structure and functions of higher plants.	5
<b>B-3 GENERAL BOTANY</b> S (3-4)5 The development of plants from simple to complex forms. Prerequisite: B1.	5
Conservation	
F-3 PRINCIPLES OF CONSERVATION F (2-0)2	2
Open to all students of the college. A survey of the forest range, wildlife, and other natural resources; policies and programs adopted for their protection and use. Basic and non- renewable resources are accented during this quarter.	f
F-4 PRINCIPLES OF CONSERVATION W (2-0)2	2
Continuation of $F3$ , with accent upon biological resources.	

## Fifty Seven

### Entomology

#### En-1 FARM AND HOME INSECTS F (3-4)5 Elementary anatomy and physiology of insects; the life histories. habits and control recommendations for the more important insect pests. Prerequisite: Z1, or concurrent registration in Z1.

#### Horticulture

#### H-1 GENERAL HORTICULTURE S (4-2)5 A general course covering the principles underlying the propagation, improvement, and marketing of horticultural crops. Prerequisite: B1.

### Physiology

VP-21 HUMAN ANATOMY AND PHYSIOLOGY S (5-2)6 A lecture and demonstration course in anatomy and physiology. Prerequisite: C1, C3, C5 or C7 and C8.

### Zoology

#### Z-1 INTRODUCTION TO ZOOLOGY A study of the principles of Zoology with reference to man. Demonstration and laboratory work are used to demonstrate these principles.

#### CHEMISTRY

#### C-1 INORGANIC CHEMISTRY

F (3-6)5 A presentation of the basic principles of chemistry and a study of the more common elements. Lectures and laboratory exercises. Recommended for majors in chemistry, pharmacy, premedicine and engineering.

C-3 INORGANIC CHEMISTRY

A continuation of C1. Includes chemistry of non-metallic elements. Lectures and laboratory exercises. Prerequisite: C1.

C-5 INORGANIC CHEMISTRY

A continuation of C3. Includes the chemistry of the metallic elements. Prerequisite: C3.

C-7 GENERAL CHEMISTRY

> A course of lectures, laboratory work, and demonstration dealing with the facts and principles of chemistry in a broad manner. This course is primarily for agricultural and arts and science students, not majoring in the sciences.

#### W (3-6)5

S (3-6)5

W (3-6)5

F (3-4)5

#### C-8 GENERAL CHEMISTRY S (3-6)5 A continuation of C7, with more emphasis on the study of the elements and their compounds. Prerequisite: C7. C-11 ORGANIC CHEMISTRY F (3-6)5

# An elementary course in the chemistry of carbon compounds. Lectures and laboratory exercises. Prerequisites: C1, C3, C5, or C7 and C8.

#### C-15 ORGANIC CHEMISTRY W (3-6)5 The chemistry of fats, carbohydrates, and proteins. Lectures and laboratory exercises. Prerequisite: C11.

C-17 **ORGANIC CHEMISTRY** S (3-6)5 Chief emphasis is placed on the chemistry of cyclic compounds. Lectures and laboratory exercises. Prerequisite: C15.

#### C-31 INORGANIC QUALITATIVE ANALYSIS F (2-6)4 A discussion of the principles of inorganic analytical separations. Lectures and laboratory exercises. Prerequisites: C1, C3, C5, or C7 and C8.

C-33 QUANTITATIVE ANALYSIS W (3-6)5 A consideration of the theory and techniques involved in the use of modern analytical instruments in quantitative analysis. Lectures and laboratory exercises. Prerequisites: C1, C3, C5, or C7 and C8.

#### C-36 QUANTITATIVE ANALYSIS S (2-9)5 A continuation of the study of the principles and practices of inorganic quantitative analysis. Lectures and laboratory exercises. Prerequisite: C33.

## COMMERCE

### General Business

- **BUSINESS ORGANIZATION & MANAGEMENT** BA-1 S (4-0)4 Managerial processes and relationships; principles of authority. responsibility and accountability.
- PRINCIPLES OF TYPEWRITING **BS-1** F (0.3)3 Speed and accuracy in the operation of the typewriter by the touch system; business letters. PRINCIPLES OF TYPEWRITING BS-2 W (0-3)3 Business letters, office forms, tabulations. Prerequisite: BS1 BS-10 THEORY OF SHORTHAND **F** (5-0)5 The fundamentals of Gregg shorthand.

#### BS-11 THEORY OF SHORTHAND W (5-0)5 The fundamentals of Gregg shorthand. Prerequisites: BS1, BS10.

#### **BS-12 DICTATION** S (5-0)5 Dictation and transcription, vocabulary building. Prerequisite: BS11.

## Fifty Nine

BS-30 PRINCIPLES OF ACCOUNTING F (0-6 A study of the fundamentals and principles of accountin applicable to business ownership.	
BS-31 PRINCIPLES OF ACCOUNTING W (0-6 Continuation of BS30. Partnership.	)3
BS-32 PRINCIPLES OF ACCOUNTING S (0-6 Continuation of BS31. Corporation.	)3
BS-34 COST ACCOUNTING W (4-0 Process and job lot accounting. Prerequisite: BS30.	)4
BS-35 COST ACCOUNTING S (4-0 Continuation of BS-34 Prerequisite: BS-34	)4
BS-36 PAYROLL ACCOUNTING S (3-0 Principles of records applied to payroll. Terminal Business	)3
<b>BA-03</b> INTRODUCTION TO INSURANCE F (3-0 A basic course covering the various fields of insurance.	)3
<b>BA-04</b> INTRODUCTION TO ADVERTISING W (3-0 A basic course covering the various fields of advertising.	)3
BS-05 BUSINESS COMMUNICATIONS F (3-0 A study of communications used in business; letter writin conferences, telegrams, speeches, report writing, etc.	
BS-06 BUSINESS COMMUNICATIONS W (3-0 A continuation of BS-05.	)3
BS-07—BUSINESS COMMUNICATIONS S (3-0 A continuation of BS-06.	)3
BS-014 SHORTHAND REVIEW F (5-0 Review of shorthand theory. Dictation and transcription.	)5
BS-019 SECRETARIAL TRAINING S (3-0 Duties of the secretary. Prerequisites: BS1, BS11.	)3
BS-021 FILING SYSTEMS F (0-4 A study of filing systems and practical application of principle	
BS-023 DICTATION AND TRANSCRIPTION W (5-0 Unfamiliar dictation; dictation and transcription. Perequisites: BS11 or BS14	)5
BS-024 DICTATION AND TRANSCRIPTION S (5-0 Advanced dictation and transcription. Prerequisite: BS023.	)5
BS-039 INTRODUCTION TO INCOME TAX S (3-0 A study of the general provisions of the income tax laws.	)3
BS-040—PSYCHOLOGY OF BUSINESS W (4-0 Study of the application of psychology to the business situation	) <b>4</b> n.
BS-046 BUSINESS ORIENTATION S (3-0 Overall view of the business world.	)3

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### EDUCATION

#### Ed-9 GENERAL PSYCHOLOGY

Fundamental principles of psychology and their application to life, covering particularly the topics of personality, emotions, intelligence, attention, perception, learning, memory, thinking, and motivation.

Prerequisite to all psychology courses.

### Ed-10 GENERAL PSYCHOLOGY

A continuation of Ed-9 covering especially individual emotional adjustments and the various phases of inter-relationships between the individual and the group. Prerequisite: Ed-9.

### Ed-11 GENERAL PSYCHOLOGY

A continuation of Ed-10. Prerequisite: Ed-10.

### Ed-12 EDUCATIONAL PSYCHOLOGY

A study of the phases of psychology bearing upon the problems of teaching, with emphasis on growth, intelligence, individual differences, motivation, learning, heredity, and environment. The principles of psychology as applied to education. Prerequisite: Ed10.

#### Ed-15 METHODS IN TEACHING FOOTBALL

A theoretical course dealing with the methods of coaching, strategy, tactics, football systems, training and diet, scouting, rules interpretation, equipment in secondary schools.

## Ed-16 METHODS IN TEACHING BASKETBALL W (4-0)4

Methods of coaching offense and defense, styles of play,, strategy, training and diet, rules interpretation, equipment in secondary schools.

#### Ed-25 MUSIC FOR ELEMENTARY TEACHERS W (3-0)3 A comprehensive study of the rudiments of music; gauged to fit the needs of the classroom teacher who teaches her own music.

#### Ed-26 MUSIC FOR ELEMENTARY TEACHERS S (3-0)3 How to present note and reading songs; music appreciation in the elementary school. Survey of elementary level music texts.

## Ed-39 INTRODUCTION TO ELEMENTARY EDUCATION S (4-0)4

An introductory course dealing with the essential principles and facts underlying educational activity; the school as a social institution, as a community institution, and as a community or state responsibility; the evolution of methods in the light of the educative process and the nature of learning; current practices and means of evaluating education.

F (3-0)3

S (3-0)3

S (3-0)3

### F (4-0)4

## W (3-0)3

## Ed 49 SCHOOL MANAGEMENT

An introduction to the field of techniques and methods of teaching, a study of curriculum building as suggested in the state course of study, and a study of objectives of elementary schools. Practical applications are made of new projects and methods of rural and elementary teaching.

### Ed-50 SCHOOL MANAGEMENT

A continuation of Ed-49. Prerequisite: Ed-49.

### Ed.82 PSYCHOLOGY OF CHILDHOOD

A study of the growth, adjustment and capacities of children from conception through the elementary school years. Emphasis is placed upon what to do in guiding the development of normal children.

Prerequisite: Ed-10.

### ENGINEERING

#### Civil Engineering

#### CE-1 SURVEYING

Plane surveying methods of measuring distances, angles, and elevations. Care and use of surveying instruments. Prerequisites: M16 or M11.

#### ADVANCED SURVEYING CE-4

Geodetic surveying methods. Astronomic observations. Topographic surveys. Hydrographic surveys used in drainage and irrigation. Field practices in these branches. Prerequisite: CE1.

#### BASIC MAPPING **F-34**

Fundamentals of forest mapping, use of staff compass, Abney hand level, and other specialized equipment.

#### CE-11 ENGINEERING PROBLEM SOLUTION F (3-0)3

Formal and computational phases of the solution of problems in engineering. Prerequisites: M2, M16.

#### W (4-0)4 CE-15 THEORETICAL MECHANICS (Statics)

Coplanar, non-coplanar, concurrent and non-concurrent force systems. Centroids and moments of inertia.

### CE-18 STRENGTH OF MATERIALS

Applications of the principles of mechanics and elasticity to the investigation of stresses and deformations in structural members and machine elements. Combined stresses.

#### Mechanical Engineering

MECHANICAL DRAWING ME-1 F (0-6)2 Care and use of instruments; lettering; geometrical construction and projection.

# Sixty Two

## S (2-3)3

S (1-6)3

# S (4-0)4

F (3-3)4

## F (3-0)3

S (3-0)3

F (3-0)3

tations. Prerequisite: ME1.

#### ME-3 DESCRIPTIVE GEOMETRY

The graphical representation of geometrical magnitudes in space. Prerequisite: ME2.

- F (0-6)2 ME-5 MACHINE DRAWING The production of detail and assembly drawings of machines.
- ME-15 MECHANISM

Elements of machinery; motion-transmitting parts such as gears, belts, link work, etc. Prerequisite: ME5.

## ME-16 MECHANISM LABORATORY

Drawing room practice to accompany ME15. Prerequisite: ME5.

### ENGLISH LANGUAGE AND LITERATURE

#### E-1 **REVIEW ENGLISH**

Required of those students who need the subject on the basis of their achievement in the placement test. Drill in basic language skills through a remedial reading approach, and reviewing of sentence structure, speech parts, and punctuation.

#### E-2 ENGLISH COMPOSITION

Required of freshmen. Practice in both written and oral composition. This course is designed to develop correct language habits and to train the student in logical thought and effective expression.

#### ENGLISH COMPOSITION E-3

Required of freshmen. A continuation of E2. This course trains the student in collecting, organizing, and presenting material in larger units of composition. Prerequisite: E2.

#### E-4 ENGLISH COMPOSITION

Required of freshmen. A continuation of E3. This course continues to emphasize exposition and the use of narration and description in communicating sensory experience. Prerequisite: E3.

#### PUBLIC SPEAKING E-23

A general introductory course in public speaking planned to give the fundamentals of speech preparation and to develop simple and direct speaking. Practice in preparation and delivery of speeches. Two quarters are required for credit. Prerequisite: E2.

# W (3-0)3

### S (3-0)3

F (2-0)2

### S (3-0)3

### F (3-0)1

F (3-0)3

# W (0-6)2

S (1-6)3

Sixty Three

# S (0-6)2

E-24	PUBLIC SPEAKINGW (2-0)2A continuation of E23.Prerequisite: E-23.
E-25	<b>PUBLIC SPEAKING S (2-0)2</b> A continuation of E24 (Largely vocabulary building). Prerequisite: E24.
E-42	FICTION F (3-0)3 Reading and analysis of four or five typical modern novels, to foster appreciation and enjoyment.
E-43	<b>POETRY W</b> (3-0)3 A careful study of famous poems to encourage further reading and to enhance enjoyment.
E-44	<b>BIOGRAPHY</b> S (3-0)3 Lives of great men, ancient and modern, analyzed as to style and patterns of living.
E-65	SURVEY OF ENGLISH LITERATURE F (3-0)3 Chronological study of English literature from Anglo-Saxon to present century.
E-66	SURVEY OF ENGLISH LITERATURE W (3-0)3 A continuation of E65.
E-67	SURVEY OF ENGLISH LITERATURE S (3-0)3 A continuation of E66.
E-068	<b>RADIO-JOURNALISM</b> F (0-1)1 An introduction to the principles of radio production and journalism. A laboratory course for the production of the college newspaper, annual book, and radio program.
E-069	RADIO-JOURNALISMW (0-1)1A continuation of E-068.
E-070	RADIO-JOURNALISMS (0-1)1A continuation of E-069.

#### ENTOMOLOGY

(See under "Biology")

#### GEOGRAPHY

(See under "History and Social Science")

#### GEOLOGY

#### G-1 PHYSICAL GEOLOGY

A study of the earth, the materials which make up the earth, its structure, surface features, and the geological processes involved. One Saturday field trip is required. Prerequisites: C5 or C7 and C8.

W (4-3)5

S (4-3)5

#### G-2 HISTORICAL GEOLOGY

A history of the development of the earth and its features from its origin to the present, and the accompanying evolutionary changes as revealed in the fossil record. One Saturday field trip is required. Prerequisite: G1.

## GOVERNMENT

(See under "History and Social Science") HISTORY AND SOCIAL SCIENCE

ES-3	<b>PRINCIPLES OF ECONOMICS</b> The purpose is to teach fundamental principles; to field of economics in the way most helpful to furthe detailed study of special problems and to give t intending to specialize in the subject an outline of th principles of economics. Not open to freshmen.	op r a	a more se not
ES-4		w	(3-0)3
ES-5	PRINCIPLES OF ECONOMICS Continuation of ES4.	S	(3-0)3
ES-40	AMERICAN GOVERNMENT: National, State, and		cal (3-0)3
	Fundamental principles upon which the American go is founded, the organization and services of the nation and local government, and the current political pro- the units.	ver nal	nment , state,
ES-41	AMERICAN GOVERNMENT: National, State, and		
	Continuation of ES40.	w	(3.0)3
ES-42	AMERICAN GOVERNMENT: National, State, and		
	Continuation of ES41.	S	(3-0)3
ES-55	<b>INTRODUCTION TO SOCIOLOGY</b> Nature and dynamics of human society, the maj institutions, the various environments conditioning such as the geographic and cultural, and the factors a producing social changes.	or s	ociety.
<b>ES</b> -56	INTRODUCTION TO SOCIOLOGY Continuation of ES55.	w	(3-0)3
ES-57	INTRODUCTION TO SOCIOLOGY Continuation of ES56.	S	(3-0)3
ES-80	AMERICAN HISTORY: The Old World Period (14		-1815) (3-0)3
	A course surveying the origin and development of th States from the discovery of America to the present the role of the United States as an American nation world power.	ie da	United y, and
<b>ES-8</b> 1	AMERICAN HISTORY: The New World Period (18		-1898) (3-0)3
ES-82	Continuation of ES80. AMERICAN HISTORY: The One World Period (18	98 S	- <u>)</u> (3-0)3
	Continuation of ES81.	-	(0 0/0
ES-86	<b>HISTORY OF WESTERN CIVILIZATION</b> A course tracing the story of civilization from the most times to the present day. Balanced attention is given to social, economic, and cultural developments.	st a	(3-0)3 incient litical,
<b>ES-8</b> 7	•	W	(3-0)3
ES-88	HISTORY OF WESTERN CIVILIZATION Continuation of ES87.	S	(3-0)3

F (1-6)4

## HOMEMAKING

- FN-010 ATTRACTIVE AND WHOLESOME BREAKFASTS F (1-6)4 How to prepare and serve "the most important meal of the day." with careful attention to a well balanced diet.
- ATTRACTIVE AND WHOLESOME LUNCHES FN-011 W (1-6)4 Menu-planning and preparation of lunch, with special attention to box lunches, salads, and sandwich preparation.
- ATTRACTIVE AND WHOLESOME DINNERS S (1-6)4 FN-012 Emphasis is placed on fulfilling dietary requirements with well-chosen, well-prepared foods. Special attention given to meat and dessert recipes. Includes proper way of serving formal and informal dinners, buffets.
- FN.036 MODERN METHODS OF FOOD PRESERVATION F (1-6)4 Includes traditional methods of canning and preserving, but concentrates on quick-freezing, the pressure cooker. Work in laboratory with these methods.
- W (1-6)4 PARTY FOODS **FN-037** Planning and preparation of foods for coffees, brunches, party lunches, teas, and other types of formal and informal parties.
- QUANTITY COOKING FOR SOCIAL AFFAIRS S (1-6)4 FN-38 How to plan the menu, purchase the food, prepare the dishes for large social affairs, such as banquets, formal teas, etc., with laboratory work in connection with campus affairs of this type.
- ART OF COLOR AND STYLE F (1-6)4 TC-80 Application of art and economic principles to the selection and construction of textiles and clothing.
- PRINCIPLES OF FABRICS AND CONSTRUCTION W (1-6)4 TC-82 Fundamental construction processes applied to the making of clothing becoming to the individual. Study and use of commercial patterns.
- ART & TECHNIQUE OF MODERN FASHION TC-83 S (1-6)4 Study of fashion magazines, style trends, great fashion designers includes some use of original design with emphasis upon appropriate use of line, color, texture for the individual.
- FANCY WORK SEWING TC-053 S (1-6)4 Embroidery, knitting, crochet, tatting, hand hemstitching, etc.
- TAILORING TC-090 Planning and construction of a tailored garment such as a coat
  - or suit.
- HM-70 EFFECTIVE MANAGEMENT IN THE HOME W (3-0)3 Family finance, budget-making, includes economical meal-planning, saving shortcuts, time and money management.
- MAKING THE HOME MORE ATTRACTIVE RA-25 S (5-0)5 Types of home plans, materials and construction practices. Decoration and furnishing of home. Artistic appreciation of furniture, rugs, textiles and other furnishings.
- SEWING FOR THE HOME RA-26 W (1-6)4 Basic course in curtain and drapery making, upholstering, and slip-cover making. May also include repairing of rugs, weaving etc. Use of sewing machine attachments.

## HORTICULTURE (See under "Agriculture")

### MATHEMATICS

#### SLIDE RULE M-2

Open to all students of the college. Instruction in the basic principles and use of the slide rule.

#### HIGH SCHOOL PLANE GEOMETRY M-5a F (4-0)0 Remedial course in plane geometry for those with no high school geometry or insufficient preparation for college mathematics courses.

#### ALGEBRA M-10

Review of elementary algebra, linear and quadratic equations, variation, linear systems, exponents, functions and graphs, logarithms.

#### TRIGONOMETRY M-11

Trigonometric functions of acute angles, trigonometric func-tions of the general angle, review of logarithms, solutions of right and oblique triangles, trigonometric functions of two angles, reduction formulas, trigonometric equations. Prerequisite: M10.

#### 'M-15 COLLEGE ALGEBRA

Coordinates and loci, functions and graphs, linear equations of an equation, variation, quadratic equations and systems, locus of an equation, binomial theorem, logarithms. Prerequisite:  $1\frac{1}{2}$  units of high school algebra.

## M-15a ADVANCED HIGH SCHOOL ALGEBRA

A required course for all engineering and chemistry majors who lack credit in advanced high school algebra, and open to all other students who desire a comprehensive review of high school algebra to prepare for later mathematics courses in college.

### \*M-16 PLANE TRIGONOMETRY

W (5-0)5 The trigonomertic functions and their properties, solving right triangles, radian measure, fundamental relations, trigonometric identities and equations, functions of two angles, solution of oblique triangles, inverse trigonometric functions, polar coordinates, complex numbers. Prerequisite: M-15.

#### M-16a HIGH SCHOOL SOLID GEOMETRY W (2-0)0

A required course for all engineering majors who lack credit in high school solid geometry.

### Sixty Seven

## W (5-0)5

S (3.0)3

# F (5-0)5

F (3-0)0

S (1-0)1

<sup>\*</sup>A standard course for students expecting to take advanced college mathematics.

### \*M.17 ANALYTICAL GEOMETRY

Theory of equations; the straight line; locus problems; transformation of coordinates; the circle; tangents; conic sections; coordinates, distances, directions, equations, and loci of space. Prerequisite: M-16.

#### M-20 MATHEMATICS OF FINANCE

Simple interest, compound interest, equations of equivalence, simple and ordinary annuities, perpetuities, amortization and sinking funds, bonds, depreciation, and some statistics. Prerequisite: M-10.

#### CALCULUS I M-36

Variables and functions, theory of limits, derivative, differentiation of algebraic functions and applications, the inverse of differentiation. These with M-37 and M-38 comprise the standard college course in calculus. Prerequisite: M-15, M-16, M-17.

#### M-37 CALCULUS II

Differentiation of transcendental functions, the law of the mean, the definite integral, techniques of integration, geometrical applications of definite integrals. Prerequisite: M-36.

#### M-38 CALCULUS III

Further applications of differentials, limits. physical appli-cations of definite integrals, infinite series, partial differen-tiation, curves and surfaces in space, double integrals. Prerequisite: M-37.

\*A standard course for students expecting to take advanced college mathematics.

### MODERN LANGUAGES

- L-21 FIRST YEAR SPANISH F (5-0)5 A course in grammar, prose composition, reading, and conversation. W (5-0)5 1.-22 FIRST YEAR SPANISH Further study of Spanish grammar with emphasis on reading. composition, and conversation. Prerequisite: L21.
- L-23 FIRST YEAR SPANISH S (5-0)5 Continuation of L22. Prerequisite: L22.

#### L-24 SECOND YEAR SPANISH F (3-0)3 A course in second year Spanish with emphasis on reading and conversation. Prerequisite: L23.

## S (4-0)4

F (5-0)5

S (5-0)5

# W (5-0)5

#### S (5-0)5

Descr	Description of Courses	
L-25	SECOND YEAR SPANISH Continuation of L24 Prerequisite L24.	W (3-0)3
L-26	SECOND YEAR SPANISH Continuation of L25. Prerequisite: L25	S (3-0)3
L-40	FIRST YEAR GERMAN A course in grammar, pronunciation, and reading.	F (5-0)5
L-41	FIRST YEAR GERMAN A continuation of L40. Prerequisite: L40.	W (5-0)5
L-42	FIRST YEAR GERMAN A continuation of L41. Prerequisite: L41.	S (5-0)5
L-43	SECOND YEAR GERMAN A continuation of L42, with emphasis on reading versation. Prerequisite: L42.	<b>F</b> (3-0)3 g and con-
L-44	SECOND YEAR GERMAN A continuation of L43. Prerequisite: L43.	W (3-0)3
L-45	<b>SECOND YEAR GERMAN</b> A continuation of L44. Prerequisite: L44.	S (3-0)3

## MUSIC

Mu-3	<b>FUNDAMENTAL THEORY</b> An integrated course in music fundamentals, ear tr singing and theory of music.	<b>F (5-0)4</b> aining, sight
Mu-4	<b>FUNDAMENTAL THEORY</b> A continuation of Mu3. Prerequisite: Mu3.	W (5-0)4
Mu-5	<b>FUNDAMENTAL THEORY</b> A continuation of Mu4. Prerequisite: Mu4.	S (5-0)4
Mu-6	<b>STRING INSTRUMENTS</b> Class lessons in a playing knowledge of all string	F (0·3)1 instruments.
<b>M</b> u-7	WOODWIND INSTRUMENTS Class lessons in a playing knowledge of all wood- ments.	W (0-2)1 wind instru-
Mu-8	BRASS AND PERCUSSION INSTRUMENTS Class lessons in a playing knowledge of all brass an instruments.	<b>S (0-2)1</b> d percussion

#### ADVANCED THEORY M11-9

Seventy

Ear training and dictation. Choral-style simple chromatic melodics. Chromatic harmony used as embellishment of, and a substitute for, diotonic harmony. Continued work in original composition and keyboard harmony. Prerequisite: Mu5.

#### ADVANCED THEORY Mu-10

A continuation of Mu9. Further development of the chromatic element. The augumented sixth chords. Chromatic modulations; keyboard harmony. Prerequisite: Mu9.

### Mu-11 ADVANCED THEORY

Emphasis on original composition for voice and instrument; accompaniment writing. Contrapuntal devices. Prerequisite: Mu10.

- Mul2 INTRODUCTION TO MUSICAL LITERATURE F (2-0)2 A survey course designed to acquaint the student with the masterpieces of musical literature, principles of musical form and style.
- INTRODUCTION TO MUSICAL LITERATURE W (2.0)2 Mu-13 Continuation of Mu-12.
- Mu-14 INTRODUCTION TO MUSICAL LITERATURE S (2-0)2 Continuation of Mu-13.

#### Mu-15 HISTORY OF MUSIC

Study of the sources of our music. Beginnings of scale, notation, harmony, etc. Early schools of composition, culminating in Palestrina, Bach, and Handel.

### Mu-16 HISTORY OF MUSIC

Evolution of the modern sonata traced through Haydn, Mozart, and Beethoven. Rise of Romanticism and the music of the Romantic composers: Schubert, Mendelssohn, Schumann, Chopin, Liszt, and others.

#### Mu-17 HISTORY OF MUSIC

The opera from Gluck to Wagner. Effect of Wagner's theories on music to the present day, Brahms and "the cause of absolute music." Nationalistic composers, including Tschaikowsky, Dvorak, Sibelius, and Greig. French Impressionism: Franck, Debussy, Ravel, and others.

#### ORCHESTRA, BAND, CHORUS

Receive one credit for each quarter of participation.

### APPLIED MUSIC (Minor)

Freshmen and Sophomore years-One half-hour lesson a week. Open to all students of the college and may be used as a minor instrument for music majors.

### APPLIED MUSIC (Major)

F W S (1-0)3 Two half-hour lessons a week. For music majors only in their major instrument.

## F (3-0)3

W (3-0)3

## S (3-0)3

## F W S (0-3)1

F W S (1/2-0)1

W (5-0)4

F (5-0)4

## S (5-0)4

## PHYSICAL EDUCATION

## Courses for Men

	Courses for Men
PE-1	<b>PHYSICAL EDUCATION</b> F (0-2)1 Apparatus, track, games, remedial or restricted as indicted by classification tests.
PE-2	PHYSICAL EDUCATION W (0-2)1 A continuation of PE1.
PE-3	<b>PHYSICAL EDUCATION</b> S (0-2)1 A continuation of PE2. Emphasis on skills in sports and post- school activities.
PE-4	<b>PHYSICAL EDUCATION</b> F (0-2)1 A variety of activities taught for physiological and recreational values.
PE-5	<b>PHYSICAL EDUCATION</b> W (0-2)1 A continuation of PE4, with some selection on the part of the student.
<b>PE-6</b>	<b>PHYSICAL EDUCATION</b> S (0-2)1 A continuation of PE5, with some selection on the part of the student.
<b>PE-17</b>	ORGANIZATION AND MANAGEMENT OF SPORTS
	<b>S</b> (3-0)3 The organization of the entire physical education program and the management of the physical plant as well as the activity program.
PE-20	<b>ORIENTATION TO PHYSICAL EDUCATION</b> F (3-0)3 Preparation for majors in physical education giving historical background for physical education, health, recreation and safety, and general survey of physical education.
PE-30	TREATMENT OF INJURIES, CARE & PREVENTION
	S (2-0)2 A course of practical and theoretical study of massage, band- aging, treatment of sprains, bruises, strains, and wounds
PE-35	A study of the factors of healthful living, such as heredity, anatomical factors, personal habits, physical fitness.
	<b>COMMUNITY HYGIENE AND SANITATION</b> S (3-0)3 A study of water supply, food and milk sanitation, ventilation, sewage disposal, housing, lighting, and health agencies.
PE-50	METHODS OF BASEBALL S (2-0)2 A study of the fundamentals, including batting, fielding, conditioning, training, and methods of teaching baseball.
PE-80	PRINCIPLES OF RECREATION F (2-0)2 Course designed to study philosophical bases, needs, interests, use of leisure time, and scope of recreation — individual, community, and industrial.
PE-90	
PE-61	COURSES FOR WOMEN FIRST YEAR PHYSICAL EDUCATION F (0-2)1 Soccer. speedball, volleyball, ping pong, and physical fitness exercises.

- W (0-2)1 PE-62 FIRST YEAR PHYSICAL EDUCATION Volleyball, basketball, folk dancing, badminton, winter sports. and physical fitness exercises.
- PE-63 FIRST YEAR PHYSICAL EDUCATION S (0-2)1 Baseball, folk dancing, archery, tennis, golf, and physical fitness exercises.
- SECOND YEAR PHYSICAL EDUCATION F (0-2)1 PE-64 Continuation of PE63.
- SECOND YEAR PHYSICAL EDUCATION W (0-2)1 PE-65 Continuation of PE64.
- PE-66 SECOND YEAR PHYSICAL EDUCATION S (0-2)1 Continuation of PE65.

#### PHYSICS

- F (3-0)3 PRINCIPLES OF PHYSICS Ph-1 Lecture course on principles and application of mechanics.
- W (3-0)3 PRINCIPLES OF PHYSICS Ph-2 Lecture course on principles and applications of heat, light, and sound.
- PRINCIPLES OF PHYSICS S (3.0)3 Ph-3 Lecture course on principles and applications of electricity, magnetism and modern physics.
- GENERAL PHYSICS F (3-4)5 Ph-25 A course covering the fundamental principles of mechanics forming the basis for studies in applied science. For students in Engineering. Prerequisites: M15 and M16
- W (3-4)5 Ph-26 GENERAL PHYSICS A course covering the fundamental principles of sound and light. For students in Engineering. Prerequisite: Ph25.
- Ph-27 GENERAL PHYSICS S (3-4)5 A continuation of Ph26. A course covering the fundamentals of magnetism, electricity, and modern physics. For students in Engineering.

Prerequisite: Ph26.

PHYSIOLOGY (See under "Biology")

POLITICAL SCIENCE (See under "History and Social Science")

> PSYCHOLOGY (See under "Education")

SOCIOLOGY (See under "History and Social Science")

> ZOOLOGY (See under "Biology")

# Colorado State Institutions of Higher Learning

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