

**FORT LEWIS**

**Agricultural and Mechanical College**

**DURANGO, COLORADO**



**1955 - 1957  
CATALOG**

**SERIES 6, No. 1**

## **OBJECTIVES OF THE COLLEGE**

The changing demands of our complex society determine that a school provide a flexible yet specific program for students entering lower division work and for those interested in terminal education. Consequently, the objectives of Fort Lewis A.&M. College are geared not only to meet the demands of senior colleges but also to meet the vocational requirements where terminal study is offered.

The specific objectives are as follows:

1. To provide two years of collegiate work acceptable to institutions of higher education.
2. To provide terminal vocational education.
3. To enable students to obtain cultural experiences which will be of value in a democratic society.
4. To provide community service, one of the forms of which are extension classes for adults.

The aims and purposes are generally in keeping with the philosophy of the Junior College Movement.

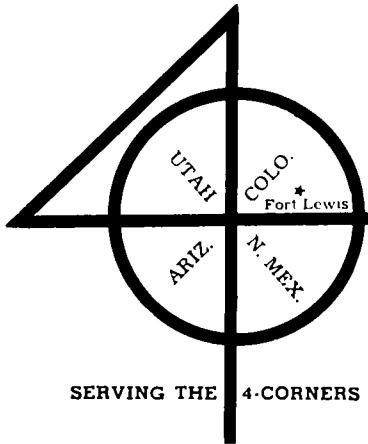
# Fort Lewis Agricultural and Mechanical College

## *Catalog*

1955 - 1957

DURANGO

COLORADO



### MEMBERSHIP IN EDUCATIONAL ASSOCIATIONS

National Commission on Accrediting  
American Association of Junior Colleges  
American Association of Collegiate Registrars  
and Admissions Officers  
Colorado-Wyoming Association of Collegiate  
Registrars and Admissions Officers

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Fort Lewis A. & M. College Bulletin

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Series 6, No. 1

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## COLLEGE CALENDAR

### First Semester

1955

September 8-10, Thursday-Saturday.....	Vocational Aptitude Tests for Freshmen
September 12 and 13, Monday and Tuesday.....	Freshman Days
September 14, Wednesday.....	Registration for all students
September 15, Thursday.....	Classes begin at 8:00 a.m. Late registration fee assessed.
September 21, Wednesday.....	Last day for full refund on withdrawal from college but does not include five dollar registration fee.
September 28, Wednesday.....	Registration closes and last day for schedule changes. Last day for dropping subject without prejudice (except for entering Freshman or withdrawal from college).
October 5, Wednesday.....	Last day for one-half refund and none thereafter.
October 7 and 8, Friday and Saturday.....	Homecoming
October 13, Thursday.....	Honors Convocation
October 27-28, Thursday and Friday.....	C.E.A. Convention
November 4, Friday.....	Last day for First-Semester Freshmen to drop subjects without prejudice, except for withdrawal from college.
November 14, Monday.....	Mid-semester grades due in Registrar's office at 8:00 a.m.
November 23, Wednesday.....	Thanksgiving Holidays begin at noon.
November 28, Monday.....	Classes reconvene at 8:00 a. m.
December 21, Wednesday.....	Christmas Holidays begin at 5:00 p. m.

## COLLEGE CALENDAR

1956

January 3, Tuesday.....	Classes reconvene at 8:00 a. m.
January 23-25 Monday-Wednesday.....	Final Examinations
January 25, Wednesday.....	Last day of First Semester

### Second Semester

January 30, Monday.....	Registration for all students
January 31, Tuesday.....	Classes begin at 8:00 a.m. Late registration fee assessed.
February 6, Monday.....	Last day for full refund on withdrawal from college, except for the five dollar registration fee.
February 13, Monday.....	Registration closes and last day for schedule changes. Last day for dropping courses without penalty.
February 20, Monday.....	Last day for one-half refund and none thereafter on withdrawal from college.
March 29, Thursday.....	Easter Vacation begins at 12:00 noon. Mid-semester grades due in Registrar's office.
April 2, Monday.....	Classes reconvene at 8:00 a. m.
May 2, Wednesday.....	Fort Lewis Day for High School seniors.
May 27, Sunday.....	Baccalaureate Service
May 28-30, Monday-Wednesday.....	Final Examinations
May 31, Thursday.....	Commencement

## TABLE OF CONTENTS

College Calendar .....	2-3
State Board of Agriculture .....	6
Personnel .....	7-9
Officers of Administration .....	7
Faculty .....	7-8
Dormitory Supervisors .....	8
Experiment Station Staff .....	9
Standing Committees .....	9
General Information .....	10-13
History .....	10
Campus and facilities .....	11
Selective Service Information .....	12
Information for Veterans .....	12-13
Service to Students .....	14-18
Living Accommodations .....	14
Student Health Service .....	14-15
Scholarships .....	15-17
Loan Funds .....	17
Employment Opportunities .....	17
Expenses .....	27-29
Student Organizations and Activities .....	29-31
Academic Information .....	31-36
How to Enroll .....	31
Requirements for Admission .....	32
Placement Tests .....	32
Grades and Grade Reports .....	34
Course Loads .....	34
Scholastic Requirements .....	35
Graduation .....	35
Extension Courses .....	36
Summer Music Camp .....	36
General Regulations .....	37-38
Courses of Study .....	47
Numbering and Lettering System Used .....	48
Lower Division .....	50-69

## TABLE OF CONTENTS

<b>Courses of Study, Continued</b>	
General Agriculture .....	50
Animal Husbandry .....	50-51
Forestry and Range Management .....	52
Engineering .....	53-54
General Arts and Science .....	55-57
Secondary Education .....	55
Pre-Law .....	55
Pre-Dental .....	56
Business Administration .....	58
Chemistry .....	59
Elementary Education .....	60
Home Economics .....	61
Medical Technology .....	62
Music .....	63
Music Education .....	64
Pharmacy .....	65
Physical Education .....	66
Pre-Medicine .....	67
Pre-Nursing .....	68
Pre-Veterinary .....	69
<b>Terminal Education .....</b>	<b>70-76</b>
Practical Agriculture .....	70-71
Vocational Business Administration .....	72
Secretarial Science .....	73
Terminal Engineering .....	74
Vocational Geology .....	75
Terminal Home Economics .....	76
<b>Description of Courses .....</b>	<b>81-95</b>
Agriculture .....	81-82
Biological Science .....	83
Business .....	84-85
Chemistry .....	85-87
Education .....	87
Engineering .....	88
English Language and Literature .....	88-89
Home Economics .....	89-90
Foreign Languages .....	90-91
Geology .....	91
Mathematics .....	91-92
Music .....	92-93
Physical Education .....	94
Physics .....	95
Social Studies .....	95

## STATE BOARD OF AGRICULTURE\*

	Address	Term Expires
Walter G. Lehrer.....	Denver	1961
Raman A. Miller.....	Strasburg	1961
Charles P. Warren.....	Fort Collins	1955
T. C. McPherson (deceased).....	Dolores	1957
Jesse McCabe.....	San Acacio	1955
L. S. McCandless.....	Craig	1957
George McClave.....	McClave	1959
Warren Monfort.....	Greeley	1959
Governor Edwin C. Johnson	} (ex-Officio Members)	
W. E. Morgan		

## OFFICERS\*

Warren Monfort.....	President
Charles P. Warren.....	Vice President
James R. Miller.....	Secretary
Joseph M. Whalley.....	Treasurer

## EXECUTIVE COMMITTEE\*

Warren Monfort	Walter G. Lehrer	Charles P. Warren
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\* As of January 1, 1955



## PERSONNEL\*

### OFFICERS OF ADMINISTRATION:

- Rea, Charles Dale.....President of College  
 B.S., Colorado A & M College  
 M.S., University of Southern California  
 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  
 LL.D., University of Colorado  
 D.Ed., Colorado State College of Education  
 D.Sc. University of Denver, Colorado A & M College
- Taylor, Randall D.....Director of Admissions  
 B.S., University of Nebraska  
 Graduate Study, Newark College of Engineering  
 Rutgers University  
 University of Nebraska  
 Iowa State  
 University of Colorado
- Reid, Charles H., Jr.....Registrar  
 A.B., Montclair State Teachers College  
 M.Ed., University of Colorado
- Black, Daniel E.....Business Manager  
 B.S., University of Colorado
- Thornberg, William A.....Assistant Business Manager  
 B.S., Temple University
- Wallace, Edwin W.....Director of Student Activities  
 B.S., University of New Mexico  
 Graduate Study, University of New Mexico

### FACULTY:

- Berg, David.....English, Speech, Dramatics  
 B.A., Colorado College  
 M.S., University of Utah
- Gross, Frederick Raymond, Jr.....Agriculture  
 B.S., University of Maryland
- Hart, Herbert D.....Chemistry  
 B.S., University of Denver  
 M.S., University of Denver  
 Advanced Graduate Study, University of Colorado
- Hershberger, Inez.....English, Foreign Language  
 A.B., Kalamazoo College  
 Graduate Study, University of Wisconsin  
 University of Chicago  
 University of Colorado  
 University of Mexico

\* As of January 1, 1955

- Hickman, Francis W.....Engineering  
 B.S., New Mexico School of Mines  
 Graduate Study, University of Colorado
- Johnson, Helen F.....Home Economics, Education  
 B.S., Iowa State College  
 Graduate Study, University of Cincinnati  
 University of Hawaii
- McKinnon, Max E.....Agriculture  
 B.S., Utah State Agriculture College  
 M.S., Utah State Agriculture College
- Meyer, Arthur T.....Music  
 B.A., University of Iowa  
 M.A., University of Iowa  
 M.F.A., University of Iowa
- Murphy, J. Kenneth.....Physical Education, Social Science  
 B.S., Colorado A & M College  
 M.E., Colorado A & M College
- Nethery, Ruby.....Librarian  
 B.A., University of Oklahoma  
 M.A., University of Oklahoma  
 B.L.S., University of Oklahoma  
 Advanced Graduate Study, Columbia University
- Pennington, Richard L.....Business  
 A.B., Colorado State College of Education  
 Graduate Study, Colorado State College of Education  
 University of Colorado
- Plunkett, Robert.....Business  
 B.S., Colorado State College of Education
- Reid, Charles H. Jr.....Mathematics  
 A.B., Montclair State Teachers College  
 M.Ed., University of Colorado
- Scott, Eugene M.....Chemistry  
 B.S., Northwestern University  
 A.M., Colorado State College of Education
- Thaemert, Jona C.....Biological Science  
 B.S., University of Denver  
 M.A., University of Denver
- Wallace, Edwin W.....Psychology, Physical Education  
 B.S., University of New Mexico  
 Graduate Study, University of New Mexico
- Taylor, Randall D.....Physics, Mathematics  
 B.S., University of Nebraska  
 Graduate Study, Newark College of Engineering  
 Rutgers University  
 University of Nebraska  
 Iowa State  
 University of Colorado

**DORMITORY SUPERVISORS:**

Mrs. Francis W. Hickman, Hostess, Lory Hall (For Women)

Mr. and Mrs. Gordon W. Anderson, Proctors, Snyder Hall (For Men)

\* As of January 1, 1955

**EXPERIMENT STATION STAFF\***

Mann, Herbert O., B.S., M.S.....Assistant Agronomist

Riddle, Kent H., B.S.....Assistant Animal Husbandman

**STANDING COMMITTEES****Admissions:**

Functions—Admitting students, maintaining the standards of the college, and handling disciplinary cases.

**Assembly:**

Functions—Planning and supervision of assemblies, dramatic productions, honors convocation, commencement, and programs of like nature.

**Athletics:**

Functions—Planning budget, schedules, and otherwise exercising control over the athletic program.

**Curriculum:**

Functions—Developing curriculum, revising catalog, and determining those eligible for graduation.

**Executive:**

Functions—Serving in administrative capacity during the absence of the President from the campus.

**Orientation:**

Functions—Planning and supervising the Freshman Orientation and Senior Day Programs.

**Public Relations and Planning:**

Functions—Promoting sound public relations and long-range planning for the campus.

**Student Financial Aids:**

Functions—Recommending and supervising scholarships or grants-in-aid, and supervising loans to students.

**Student Relations:**

Functions—Serving in an advisory capacity to the Student Government, and helping to coordinate social activities on campus.

\* As of January 1, 1955

## GENERAL INFORMATION

### HISTORY:

Fort Lewis Agricultural and Mechanical College is located on the site of a United States Army Fort of the 1880's, in what is now known as the San Juan Basin and the "Four Corners Area", seventeen miles west of Durango, Colorado. This area is near the junction of Colorado, Arizona, Utah, and New Mexico. When the necessity for troops in this general vicinity ceased, the government established an Indian School, using the land and buildings of the Fort for this purpose.

The Indian School was terminated in 1911, when the land was transferred from federal to state ownership. With this change Fort Lewis was established as an Agricultural and Vocational High School and was maintained as such until 1933, although some college courses were added to the academic offerings in 1927. From 1933 to the present time, however, Fort Lewis has been exclusively a college-level institution. Until 1948, it was a branch of Colorado A.&M. College, but in July of that year it became an independent institution. Like Colorado A. & M. it is administered by the State Board of Agriculture.

Administrators who guided the destinies of the college were Mr. G. F. Snyder, first Dean who served until his death in 1934, and Mr. E. H. Bader, Dean from 1935 until 1948. Mr. Charles W. McClain was then appointed acting Dean until Dr. Charles Dale Rea was appointed President on July 1, 1949.

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 them become established in worthwhile farming enterprises. Instructors are maintained in the field and most of the instruction is given to the student on the farm.

### THE NATURAL SETTING OF FORT LEWIS:

Fort Lewis is in an area unmatched for beauty. Thirty-five miles from the campus is Mesa Verde National Park. In this preserve are found the most famous prehistoric cliff dwellings in the United States. Nearby in northern New Mexico are the Aztec Ruins National Monument and the Chaco Canyon National Monument, both prehistoric sites. Near these is Shiprock, rising abruptly from the floor of the desert, a vast rocky spire that challenges the most experienced mountain climbers.

During the school year students are able to visit these and many other near-by areas of interest. Because of the propitious location of Fort Lewis in the heart of the San Juan Basin, unusual points of scenic beauty and of educational import are easily reached. Adding to the picturesqueness of it all, Indian Reservations of the Navajo, Apache, Ute, and other tribes are settled throughout the area. Indian weaving and jewelry are famous products of this region.

The Great Sand Dunes National Monument and the Black Canyon of the Gunnison National Monument are located at a somewhat greater distance from the campus, the latter being reached from Fort Lewis over the Million Dollar Highway between Silverton and Ouray, one of the most spectacular 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 Park, with its prehistoric cliff dwellings, and finally to the Grand Canyon National Park, where the Colorado

River has produced a panorama of erosion acclaimed as the most sublime spectacle in the world. North and northeast of Fort Lewis lie the La Plata and San Juan Mountains, among which are many of the most suigeneris peaks in the Rockies.

#### CAMPUS AND FACILITIES:

The rambling 6,318 acres of the school contain the campus, farm, and experimental station. Agricultural research is conducted in cooperation with the Colorado Agricultural Experiment Station, which is located at the College. Some of the projects include the testing of field and horticultural crops under high altitude conditions, the production and distribution of foundation seed, and investigation into the improvement of beef cattle by inbreeding techniques.

The campus is on State Highway 140 which leads to U. S. Highway 160. A college-owned bus provides daily transportation service between the campus and Durango. Located in the mountains, the campus is free from environmental noises and confusion.

Approximately forty college buildings are on the campus proper which is 500 yards long and 250 yards wide. All main instructional units are situated in a direct line with the library in the center. Student dormitories and veterans apartments are located near these units.

The principal buildings are of brick or stonewall construction. Individual buildings and classrooms are constructed so as to minimize fire hazards.

The gymnasium is a one and one-half floor building easily accessible to all students. Toilet and shower room facilities are available for both men and women. Showers are separated from dressing rooms by partitions. There are sufficient single lockers for all students.

The cafeteria and kitchen occupy a separate building and comprise a self-contained unit. The dining room will seat approximately 120 people. It is operated cafeteria style, and food is served by employees who meet health standards as set up by the State of Colorado.

The men's and women's dormitories are two story, brick constructed buildings. Private and semi-private rooms are available with sufficient space in each room for study. Each dormitory has a large lounge which provides space for recreation and group gatherings. All bedding is changed periodically and meets hygienic standards. Ample sanitary rest rooms and showers are maintained.

#### COLLEGE LIFE:

The small size of the student body allows for individual attention on the part of the faculty and administration; the general tenor of the campus is pleasant and friendly. Nearly all the students and staff make their home on the campus during the school year, and since there are no fraternities or sororities, participation in social events is open to all. Comfortable housing accommodations are available for married students.

The organization of recreational activities is largely extra-curricular in nature. Supervised by the Director of Student Activities, students plan and participate in a variety of leisure time pursuits, such as dancing, horseback riding, skiing, going on hayrides, deer hunting, trout fishing, mountain climbing, rock hunting, practicing archery, and any other activities wherever interest is evinced.

It is the policy of Fort Lewis to encourage not only a student activity program that will serve group interests of an academic or social

nature, but also one that will provide for individual development. The program attempts to promote an appreciation of cultural and esthetic experiences, as well as to imbue the student with the social responsibilities of the individual and the need for leadership. All of this activity is an intrinsic part of the democratic philosophy underlying the junior college movement in America.

#### **ORGANIZATION OF THE COLLEGE:**

Fort Lewis A. & M. College is a two-year state supported, co-educational institution under the control of the Colorado State Board of Agriculture, and is a member of the American Association of Junior Colleges.

The curriculum of the college is divided into two major areas: Lower Division; and Terminal Education. The college is on the semester system, two semesters making up the academic year.

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

Transcript of record at Fort Lewis A. & M. College is given full value at the University of Colorado. Credits are accepted at full value by other colleges and universities if the credits are those prescribed for a given curriculum.

#### **SELECTIVE SERVICE DEFERMENT FOR COLLEGE EDUCATION:**

The present regulations of the Selective Service Administration encourage capable and sincere students to receive a college education. Accordingly, every male student is entitled to one statutory deferment. Any student who is ordered for induction during an academic year and has never before been deferred is entitled to be deferred to the end of the academic year. Upon receipt of induction orders, the student may present the case to his local board at once.

Continued education after the first deferment demands that the student, while a freshman, stand in the upper half of the freshman class or get a score of 70 or above on the Selective Service College Qualification Test.

The deferred student must stand in the upper-two thirds of his sophomore class or score at least 70 on the Selective Service College Qualification Test in order to be entitled to continue as a junior; and while a junior he must either attain the standard set for the above test or stand in the upper three-fourths of his class in order to continue as a senior. A score of 70 or above in the Selective Service College Qualification Test will entitle a student to continue in school for the four years leading to a Bachelor's degree, provided he continues to attend college during the regular school year.

Reports must be made to draft boards at regular intervals concerning the status of men whose military service has been deferred while they attend college. It should be remembered that any deferment after the first statutory deferment is optional with the local selective service boards.

#### **INFORMATION FOR VETERANS:**

Fort Lewis A. & M. College is approved by the Veterans Administration for the training of both Korean and World War II Veterans. Provision has been made to help ex-service men and women obtain the benefits to which they are entitled. The Registrar will gladly answer questions about admission, credit for training in the armed services, college courses, and programs of study.

Veterans who are eligible for such benefits may obtain the first two years of their college work at Fort Lewis. Application for these rights should be made at the nearest Veterans Administration Office. This application should be made just as soon as the veteran has definitely decided where he wants to go to college and what course he wishes to pursue, so that his file can be set up and a "Certificate for Education and Training" can be issued prior to the opening of school.

All educational work done by the veteran while in active service will be evaluated and credit given where possible.

#### **INDIAN STUDENTS:**

Fort Lewis A. & M. College is a Federal Land Grant College and is an accredited State Institution of Higher Learning. Under a stipulation of the Federal Government, all Indian students are able to attend this College tuition free.

#### **MARINE CORPS OFFICER CANDIDATE PROGRAM:**

Any male student who is actually attending Fort Lewis and is pursuing a course of study in a field other than medicine, dentistry, or theology leading toward a baccalaureate degree is eligible for enrollment in the Marine Corps Platoon Leaders Class, if he also meets the physical, age, and other specific requirements. The Platoon Leaders Class is an officer candidate program designed to train high-caliber men in order to qualify them as officers in the Marine Corps. Training is limited to two summer periods of six weeks each and must be taken at a Marine Base.

In order to be deferred from induction, applicants for the Platoon Leaders Class must agree in writing, at the time of enrollment, to accept a commission, if tendered, and to serve not less than two years on active duty if ordered by the Secretary of the Navy; and to remain a member of a regular or reserve component until the eighth anniversary of the receipt of a commission.

## SERVICES TO STUDENTS

### LIVING ACCOMMODATIONS:

Lory Hall, for women, Snyder Hall, for men, are modern brick buildings in attractive locations on the campus. These dormitories afford comfortable accommodations for student residence and study. Social life in the residence halls is active and wholesome.

Students' rooms are furnished with beds and mattresses, pillows, bed linens (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.

For married students, apartments 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.

### STUDENT COUNSELING:

Each student at Fort Lewis is assigned to a faculty advisor on the basis of his vocational and major field interest. He becomes acquainted with his faculty advisor whose friendly interest helps him to solve personal problems and to plan and evaluate his college work as he goes along.

The student's advisor continues as such unless the student changes his major or asks to be transferred to someone else. In helping the student register, the advisor channels his assistance on the student's preferences, his previous record, and the test scores made on standard tests given during Freshman Days. He discusses and plans with the student the school or vocational choice to be selected when ready to leave Fort Lewis. The Director of Student Activities is also available as a counselor, and is in charge of assisting students in obtaining part-time jobs.

Fort Lewis A. & M. College invites any prospective student who desires clarification of his personal status in relation to college entrance to visit the Director of Admissions or the Registrar anytime during the summer months.

### STUDENT HEALTH SERVICE:

The Student Health Service provides out-patient treatment of minor illnesses and injuries to all full-time students. Physical ex-



aminations are required as a part of registration early in the first semester of attendance at Fort Lewis.

The Health Office is located in Lewis Hall and is staffed by the College Nurse. It is open two hours per day Monday through Friday while the College is in session. Illness can best be treated at the Health Office and students go to the office if it is at all possible. Serious illness or accidents requiring immediate emergency treatment are handled at the home of the nurse, if the Health Office is not open. Any illness requiring the attention of a physician is referred to a Durango physician at the student's expense. Any student who is ill and leaves the campus without consulting the nurse does so at his own responsibility.

The expense of special medications is to be paid for 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 75c for each dependent per semester is charged.

#### SCHOLARSHIPS:

Scholarships are equivalent to \$52.50 per semester and pay the tuition of the recipient.

#### JOINT HONOR SCHOLARSHIPS:

These scholarships are awarded by the Colorado State Institutions of Higher Learning upon the recommendations of the faculty or a 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 and must have attained a score of 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 still retain his scholarship if he is eligible for its continued use in the institution from which he transfers. The scholarship is 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 two semesters.

#### RECOGNITION-OF-MERIT

A student to be qualified for a Recognition-Of-Merit scholarship must be an entering freshman, must have ranked in the upper-half of his graduating class, must have demonstrated the capacity

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

The award is good for one year if the student maintains a 2.70 average in the first semester of his freshman year. This scholarship can be extended for another year if the student has had a cumulative average of 2.70 for the freshman year and maintains a 3.00 average in the sophomore year.

#### GRANTS-IN-AID:

A number of Athletic and Music grants are available to deserving students who have demonstrated particular ability in the fields of athletics and music.

Applicants must apply to the Athletic Directors for Athletic grants or to the Music Director for Music grants.

These awards are granted for a term of one year and pay the students' tuition.

#### SPONSORED SCHOLARSHIPS:

All other scholarships are awarded on a basis of need as well as for scholarship and all-around ability. Letter of application should be sent to the Director of Admissions, 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.

**Cortez Lions Club:** One scholarship is available to a graduate of Montezuma County High School and is good for one year.

**Cortez Rotary Club:** One scholarship is available to a graduate of Montezuma County High School and is good for one year.

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

**Durango Lions Club:** One scholarship is available to a graduate of the Durango High School and is good for one year.

**Durango Rotary Club:** Two scholarships are available to graduates of Durango High School and are good for one 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.

**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:** One scholarship is available to an average farm boy or farm girl of the San Juan Basin, in financial need, and is good for one year.

**La Plata County Teachers' Association:** One scholarship is available to a graduate of a La Plata County high school showing fi-

nancial need and preferably one who is planning to major in elementary education.

**Sally Ann Bakers "Holsum Bread" Scholarship:** This scholarship is available for a deserving athlete and is good for one year and pays the tuition of \$52.50 per semester and a total of \$105.00 for the academic year.

#### **LOAN FUNDS:**

Five 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, Durango Kiwanis Club 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 semester's work. Formal application must be made to the Student Financial Aids Committee.

#### **EMPLOYMENT OPPORTUNITIES:**

A number of campus jobs are available for students. Opportunities off the campus occasionally arise, and the students are directed to prospective employers.

The College is interested in the placement of its graduates who seek permanent positions, and will assist them in obtaining employment for which they are fitted.

#### **AWARDS:**

Each fall an Honors Convocation is held, at which time honor keys are presented to sophomores for outstanding scholarship during their freshman year.

Several outstanding graduates are awarded scholarships to senior colleges at commencement.

#### **LIBRARY:**

Serving every department of the college as a central unit of instruction, the library provides ever increasing facilities for research as well as for general reading. Located in the center of the campus, the building has ample room for individual and group study. It is open 51 hours per week during the regular school term.

The book collection contains 14,572 volumes. In addition there are 3,215 volumes of periodicals and more than 11,000 pamphlets.

The library has a notable and growing collection of Southwestern Literature and archaeological material about the San Juan Basin. It is staffed by a professionally trained librarian, plus an adequate number of student assistants.

**COMMISSARY AND BOOK STORE:**

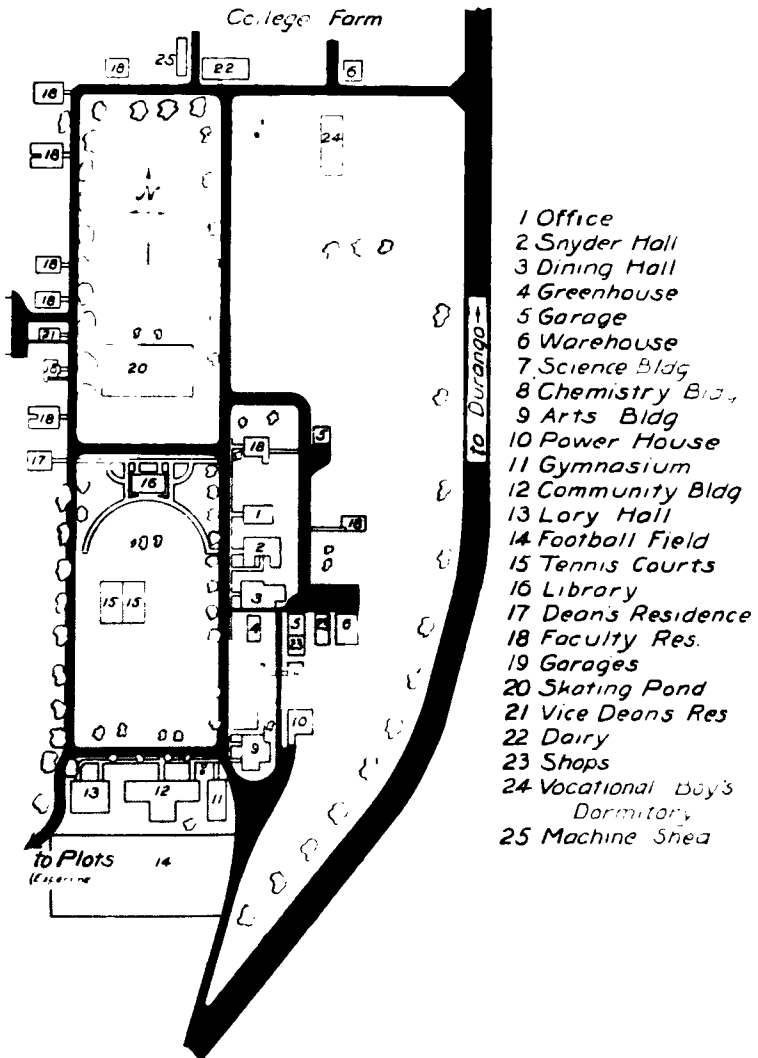
The college maintains a commissary and bookstore where students may purchase textbooks and school supplies, as well as groceries and common drug store items.

**SNACK BAR:**

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

**RECREATION HALL:**

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





**Campus**



**Livestock Judging**



**Lory Hall and South End of Campus**



**Winter Campus Scene**



**Central Campus Buildings**



**Lory Hall**





**Lory Hall Living Room**



**Snyder Hall Men's Dormitory**



College Cafeteria



Fort Lewis Bus

Fort Lewis Bus  
Fort Lewis Bus



**Registered Beef Herd on College Farm**



**Students Branding Cattle**



**Faculty Leading Commencement Procession**



**Cliff Dweller Ruins at Nearby Mesa Verde National Park**

**EXPENSES\*****GENERAL FEES:**

Effective, September 1955

Tuition (includes five dollar registration fee)—  
per semester.....\$52.50

Students registered for fewer than 12 hours will be allowed a deduction at the rate of \$4.50 per hour with a minimum fee of \$15.00. Non-resident tuition (paid in addition to resident tuition)—  
per semester.....\$15.00

Residence for the student under twenty-one years of age is established for tuition purposes when the parents or legal guardian has lived in the State of Colorado for at least twelve months prior to the student's enrollment at Fort Lewis A. & M. College. A student under twenty-one years of age who lives independently from parents or legal guardian must also fulfill the requirement of residency for twelve consecutive months in the State before registration.

The adult student fixes legal residence if he has resided in the State of Colorado for twelve consecutive months preceding enrollment and has declared his intentions to make Colorado his permanent residence, or if his parents have been residents of the State for the required period and during this time the adult student has not established legal residence in another state.

Associated Students fee (covers all student sponsored activities)—per semester.....\$18.25

Cadet fee (pays for the student's copy of the year book, collected at the beginning of the semester upon registration)..\$ 4.50

Students registered for fewer than 6 hours will not be assessed Associated Students fee or Cadet fee.

**SPECIAL FEES:**

Late Registration.....\$ 2.50

Fee for schedule change requested by the student.....\$ 1.00

Special examination fee.....\$ 3.00

Transcript of credits (the first one is free).....\$ 1.00

Applied music (in addition to regular tuition):

One half-hour lesson (voice or instrumental) per week—  
per semester.....\$22.50

Two half-hour lessons (voice or instrumental) per week—  
per semester.....\$37.50

**DEPOSITS:**

<sup>1</sup>Security deposit.....\$10.00

Apartment deposit.....\$20.00

Laboratory Fees—per semester.....\$10.00

The unused portions of these deposits are returned.

\* 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 \$10.00 Security deposit is against possible damage to school property, refundable in full at the end of school year, or prior thereto, when student leaves school upon proper clearance from each department.

**RESIDENCE FEES:**

Dormitory Room—per semester.....\$67.50

Rooms will be swept. Clean linens are furnished weekly.

Room rent is payable at registration on a semester basis.

Apartments: Furnished apartments, including utilities, are available for married students.

One-bedroom—per month.....\$30.00

Two-bedroom—per month.....\$32.00

Three-bedroom—per month.....\$34.00

**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 expense of maintaining the cafeteria. Payment is made at the serving counters. Meal tickets are available in the business office at \$15.00 each.

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**FEE REGULATIONS:**

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

Refund of tuition and fees: A student withdrawing during the first calendar week of the semester may have all tuition except the \$5.00 registration fee refunded. A student withdrawing after the first calendar week may have one-half of the tuition and fees refunded. No refund will be made after three calendar weeks from the date of registration.

Refund of rental fees: A student withdrawing from college as a result of official disciplinary action against him will automatically forfeit the dormitory rental. In the event that a student officially withdraws from college in a status of good standing, dormitory rental will be refunded with a pro rata charge deducted for each day that the room has been occupied.

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

**VETERANS:**

Those veterans who are still eligible for training under P. L. 16 or P. L. 894 may obtain their college work at Fort Lewis. They have all the rights and privileges of any of the students; however, they are required by the Veterans Administration to follow their rules and regulations.

Students under P. L. 550 pay all their expenses at registration in cash. Then they are reimbursed in the form of a monthly allotment check. In order to receive the allotment check as soon as possible, the veteran should turn in his "Certificate for Education and Training" to the Registrar on registration day. The Registrar in turn will make out an "Enrollment Certification" and send it to the Veterans Administration. The veteran is responsible each month for filling out and signing a "Certification of Training" form on the last day of the month and turning it into the Registrar. After these monthly certifications are received in the Veterans Administration, the checks are made out and forwarded directly to the veteran.

**AVERAGE COST PER YEAR:**

Tuition .....	\$105.00
Student Fees .....	41.00
Laboratory Fees .....	10.00
Room Deposit .....	10.00
Room .....	135.00
Board .....	450.00
	<hr/>
	\$751.00

Cost of books, supplies, and equipment will add to the above figure from \$50.00 per year for the General Arts and Science major to about \$100.00 per year for the Engineering major. Additional needs vary according to the taste of the individual student. Such expense as clothing allowances, spending money, entertainment, etc., should be provided for in addition to the amounts required for tuition, fees, books, supplies, and living expenses.

Cost of board will vary according to the eating habits of the individual student, since meals are served in the Dining Hall on a Cafeteria basis.

For the student who does not live on the campus total cost would be approximately \$225.00 since he would not have the expense of room and board.

**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 the many traditional affairs are the Fall Mixer, Honors Convocation, Homecoming, quarterly formals, and Commencement. Student assemblies are held periodically for the purposes of recreation and information, and prepared programs are presented by student groups and by speakers or performers drawn from outside the campus. 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 public appearances during the school year, is open to all students who are interested and sufficiently advanced in any band instrument.

**CHORUS:**

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

**RIFLE CLUB:**

The Campus Rifle Club is a member of the National Rifle Association. Both indoor and outdoor rifle ranges are located on the campus. The outdoor range has been constructed for large and small bore weapons, and adjoining the large caliber area is a pistol range. The indoor range is restricted to .22 caliber weapons. Membership in the rifle club is open to all students.

**DRAMATICS CLUB:**

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

**RADIO PROGRAMS:**

Station KIUP, which serves the San Juan Basin Area, allots weekly program time to Fort Lewis A. & M. College for the presentation of programs in the public interest. Student participation is encouraged.

**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 published 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 the selling of 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 and National Junior College Athletic Association. After two years of participation in this Conference, athletes are still eligible for two more years of competition in four-year colleges or universities. The intercollegiate athletic program is under the supervision of the Athletic Committee composed of faculty members.



Fort Lewis A. & M. College participates in the Athletic Injury Benefit Program sponsored by the State High School Athletic Association and underwritten by Security Life and Accident Company of Denver, Colorado. The purpose of the plan is to help defray as much as possible the cost of treatment of major injuries. The program provides scheduled benefits for specific injuries. The college is not liable for any amount in excess of the scheduled benefits. These benefits closely follow State Industrial Accident Commission fees and, in most cases, will pay the full cost of treatment. However, the policy does not guarantee to pay the entire amount of hospital bills.

#### RECREATIONAL SPORTS:

On the Fort Lewis A. & M. Campus are a ski tow and skating pond for those students interested in winter sports. In the fall and spring the tennis and horseshoe courts are popular attractions for the students. The rolling 6,000 acre campus is ideal for horseback riding, and facilities are available for students to stable their own horses at moderate prices.

#### 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, and a major performance by the college dramatic club. Future college students have an opportunity to become acquainted with the Fort Lewis Campus, the faculty, and student body.

## ACADEMIC INFORMATION

#### HOW TO ENROLL AT FORT LEWIS:

1. Write now for an application blank, and if you desire a catalog send your letter to the Director of Admissions, Fort Lewis A. & M. College, Durango, Colorado. In the letter tell whether you are entering from high school or have attended another collegiate institution, and state the courses of study you are considering. The Director of Admissions will be glad to answer any questions you may have.
2. Fill out your part of the application form and give it to your high school principal to complete and return to the Office of Admissions, Fort Lewis A. & M. College, Durango, Colorado. If you are transferring from another college send the application blank to Fort Lewis A. & M. College and ask your registrar to send a transcript to the College.
3. Immediately after receiving your Acceptance Notice make your reservation for housing if you desire to live on campus.
4. During the summer, you will be sent information about Freshman Days and registration.

#### HOW EARLY MAY ONE APPLY:

You may apply six months before the opening of the term in which you expect to enroll. If you are a high school senior, you

should apply for admission during your last semester of high school. Provisional admission will be given on the three and one-half years of work and on the list of courses "in Progress"

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

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 an unaccredited high school will be passed upon according to the merits of the individual case.

Students transferring from other colleges may be admitted to advanced standing at Fort Lewis A. & M. College; however, they must have a transcript of work completed at other colleges forwarded from the Registrar. Transferring students who expect to participate in athletics must request an official statement of the years of athletic participation charged against them to be sent with the transcript.

Veterans who did not complete high school but are able to present a "High School Equivalency Certificate" will also be admitted.

Adults and terminal students who have not graduated from high school may be admitted provisionally, subject to a demonstration of their ability to do college work.

Students not desiring regular college status, who wish to pursue a special program of study, may be admitted as a special student at the discretion of the President and the Director of Admissions.

#### **DEFINITION:**

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.

Sophomore: A student who has completed at least 30 semester hours of college work.

#### **PLACEMENT TESTS:**

Placement and vocational aptitude tests are given to new students before registration. These tests are required, 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.

The results are used for guidance purposes and to assist the counselor 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 tests are required to take Remedial Reading during the first semester 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 determined in accordance with academic standards of college work. The curricula requirements of the student who later transfers to a senior college or university have been carefully selected to fulfill the requirements of the lower division of these 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.

**AUDITING PRIVILEGES:**

A student may register for auditing privileges in courses if he desires to attend the classes regularly, but does not wish to take final examinations, receive grades, or credit. Auditors are required to pay fees at the same rate as if enrolled for credit. They must, upon registration, declare themselves as auditors and may not change to credit basis after the first two weeks of the semester. A student enrolled for credit in a course may not change to an auditing basis in the same course after the first two weeks of the semester. When registering, a student may take both audit and credit courses, but the total 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 to him on registration day. 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 whom his advisor will be.

**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 for this purpose.

**REPETITION OF COURSES:**

If a student receives an F or WF in a required course, he must repeat the course. If a student fails he cannot take an advanced course in the same field until the course is taken again and passed.

If a student repeats a course, his official grade is the last one made. When a student has repeated a course in which he has previously obtained a passing grade, credit for the earlier grade on his record will be placed in parenthesis and hours attempted and grade points earned by the earlier grade will not be counted in the computation of the student's scholastic average. All hours of "F, WF" however, will be counted.

**CREDIT ALLOWED FOR MILITARY SERVICE:**

Credit will be allowed according to the recommendations established by the American Council on Education. One semester hour credit for required Physical Education will be granted for each

semester in residence up to a maximum of four semester hours. Other credit will be given where possible.

**CREDIT MEASUREMENT:**

The unit of measurement for credit purposes is the semester hour. One semester hour is the equivalent of one hour of recitation, lecture, or a minimum of two hours laboratory work per week for one semester, unless otherwise specified in the course description. For each classroom hour of lecture or recitation two hours of preparation are expected.

**GRADE POINT AND QUALITY SYSTEM:**

Official reports of grades is by letter only as follows:

- A (Excellent)
- B (Good)
- C (Average)
- D (Poor, but passing)
- F (Failure)
- I (Incomplete)
- WP (Withdraw without prejudice)
- WF (Withdraw failing)

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 I automatically becomes F if the work is not completed during the subsequent semester for which the grade I was reported. It is given only upon agreement between the Registrar and the instructor concerned.

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.

**GRADE REPORTS:**

Reports are sent out to parents or guardians at mid-semester and at the end of the semester. Self-supporting students over 21 years of age or married students, if they request it of the Registrar in writing, may have their reports sent to them instead of to their parents.

On November 14, and on March 29, mid-semester grade reports are due in the Registrar's Office for all students.

Students may on the following Wednesday obtain them from their advisor.

**COURSE LOADS AND LIMITS:**

The normal student load is sixteen semester hours. The minimum load for a full time student is twelve hours and the maximum eighteen hours. Only after a student has been in attendance at Fort Lewis for one semester and has shown marked ability, will he be permitted to take more than the maximum load, upon approval of the Registrar.

**SCHOLASTIC REQUIREMENTS:**

Students whose scholastic averages fall below 1.25 on their semester report for the first semester of their freshman year and below 1.50 cumulative averages in subsequent semesters are automatically suspended and required to appear before the Admissions Committee before they will be allowed to register for the next semester.

The student may be placed on academic probation for the succeeding semester or be transferred to another curriculum. The action will be noted on the student's permanent record card and his parents so notified.

A student who is placed on Academic Probation can return to good standing by attaining the minimum requirement at the end of a semester, and on his permanent record card the date and phrase "academic probation lifted" will be recorded.

If a student on Academic Probation fails to improve his scholastic average during the subsequent semester, he will be suspended for a semester after which he may be allowed to re-enter on probation, and the action so noted on his permanent record card.

**GRADUATION:**

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

1. Have been regularly enrolled at least two semesters, including the one at the time of his graduation unless all work has been completed at the end of the first semester at Fort Lewis.
2. Complete a minimum of 65 semester hours of work, including six hours of English Composition and four hours of physical education (unless officially excused), and one hour of College Adjustment.
3. Have obtained a cumulative 2.0 quality point average ("C" average).
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 responsibilities.
6. Have removed from his record all marks of deficiency in those subjects for which he expects credit for graduation.
7. Be in attendance at Commencement (unless course requirements are completed at the end of the first semester).
8. Pass the spelling tests requirement of freshman English Composition.

The student may graduate under the catalogue requirements for the year in which he registered at Fort Lewis for the first time, provided he completes the requirements within a continuous three year period. The student is solely responsible for knowing the rules and regulations concerning graduation requirements and for registering for the courses necessary to meet specifications for the degree or certificate.

**DEGREE, CERTIFICATE:**

Fort Lewis A. & M. College grants the degree, Associate of Arts, and a Certificate of Completion.

The Associate of Arts Degree is granted to students who meet the general requirements of the lower division curriculum selected. A maximum of ten semester hours in terminal courses will be allowed toward the degree if approved by the student's advisor excluding College Adjustment Credit.

The Certificate of Completion is granted to students in terminal education who meet the general requirements for graduation and the specific requirements of the curriculum selected.

**GRADUATION WITH HONORS:**

The requirements for degrees or certificates with honors are as follows:

With Highest Honors—grade point average of 3.90 or above.

With High Honors—grade point average of 3.75 but less than 3.90.

With Honors—grade point average of 3.30 but less than 3.75.

To be eligible for honors the student must have earned at least 30 semester hours in residence at Fort Lewis.

**EXTENSION COURSES:**

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

Credits for extension work toward the Associate of Arts Degree will apply only when the student has matriculated as a regular student to work toward the degree.

**SUMMER MUSIC CAMP:**

The San Juan Basin Music Camp is held each June on the campus of Fort Lewis A. & M. College. The purpose of the camp is to provide a highly stimulating musical experience for the junior and senior high school students of the area.

The Music Camp faculty is headed by men of national and regional reputation, and this specialized staff is augmented by outstanding high school directors of the basin.

The camp offers, at a nominal cost, a well-rounded program which includes concert band, orchestra, chorus, small ensembles, private lessons, and recreational activities.

A concert of the band, orchestra, and chorus terminates the Music Camp and is open to the public.

## GENERAL REGULATIONS

### LATE REGISTRATION:

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

Each day missed will be counted as an absence unless the work is made up before mid-semester.

### CHANGE OF PROGRAM:

The college reserves the right to cancel a class if enrollment in that class is not deemed sufficient. A fee of \$1.00 will be charged to a student for any change in registration, the only exception being the College's acceptance of the responsibility for the change of program.

For any change of registration, a student must make arrangements with his advisor, the instructors concerned, and the Registrar.

### ADDING A COURSE:

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

### DROPPING A COURSE:

A course may be dropped without discredit by any student during the first two weeks of class sessions in any semester, except students in their first semester of college attendance who have until the end of the seventh week. After the expiration of these time limits, a grade of "WF" will be reported in a course which is dropped unless he appears before the Admissions Committee and validates his reason for dropping the course in which case a grade of "WP" may be reported. No course may be dropped within two weeks of the end of a semester unless the student appears before the Admissions Committee to show cause.

### WITHDRAWAL FROM COLLEGE:

A student who desires to withdraw from college must 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, hostess or proctor of the dormitory, and the business manager. For a student who is dropping all courses and withdrawing from college, the grade in each course will be designated as "WP" or "WF" as the case may be.

Students who withdraw from college without obtaining from the Registrar the official withdrawal form, completing it, and returning it to the Business Office will receive a grade of "F" in all courses affected and forfeit all deposits.

**STUDENT REGULATIONS:**

Students with cars on the campus must register them by completing a permit to register, provided by the Registrar's office on registration day, and must park them in the parking lots provided.

Hours for the residence halls have been set up by the students, and 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 which is 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 A. & M. College attendance is required at all class sessions in which the student is enrolled. If a student's number of absences in a course exceeds the number of credit hours, or their equivalent, the Director of Admissions may require the student to appear before the Admissions Committee.

Absences because of college approved activities are allowed to be made up without penalty; however, it is the student's responsibility to make the arrangements with the instructor concerned.

The student is held responsible for all work missed in each course due to any absence. Absences incurred because of late registration will not count if the class work is made up by mid-semester.

**FINAL EXAMINATIONS:**

Final examinations are given in most courses at the end of each semester. Every student is required to take each of his final examinations at the scheduled time and place in order to receive credit.

A student absent from a final examination without an excuse from the Registrar is graded "F" and required to repeat the semester's work if credit is desired for the course. However, if the Registrar excuses the student because of illness or for other mitigating causes, the student is entitled to take a special examination at a fee of \$3.00.

**TRANSCRIPTS:**

When a student requests a transcript for the purpose of transferring to another college or university, his status is reported on it. A student whose scholastic average is above the minimum required by this College and has obtained the necessary clearances will receive on his transcript a notation to the effect that he is in "Good Standing". A student who is on probation, under suspension, or has been dismissed will have such information specified on the transcript as to whether the action was taken for academic or disciplinary reasons.

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





**College Radio Production**



**Fort Lewis College Players**



**Band**



**Chorus**



**Archery**



**Rifle Club**



**Homecoming Queen**



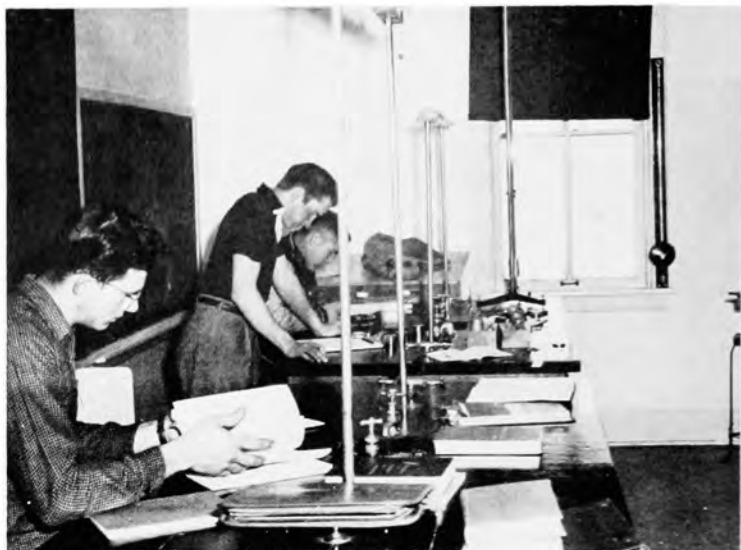
**Semi-Formal Dance**



**Refreshment Time at College Mixer**



**Carpentry Class**



**Physics Laboratory**



**Students Surveying**



**Chemistry Laboratory**



**Scene in Home Economics Laboratory**



**Zoology Laboratory**



**Commercial Class**



## COURSES OF STUDY

Lower Division college work is offered in the four major areas of Agriculture, Business, Engineering, and Arts and Sciences. Within the field of Agriculture, students may major in general agriculture, animal husbandry, forestry, and range management. In the Business field, a student may take work in Business Administration or Secretarial Science. In Engineering, work may be taken in civil, electrical, or mechanical engineering. Arts and Sciences offers specialization in chemistry, education, home economics, music, physical education, pre-law, pre-medicine, pre-nursing, pre-pharmacy, pre-veterinary, and general arts and science. Terminal Vocational courses are offered for those students who are not planning to take a full four year program. These courses are offered in the fields of Practical Agriculture, Secretarial Science, Terminal Engineering, Terminal Home Economics, Vocational Business Administration, and Vocational Geology. Note: Since course requirements in all colleges vary with time and demand, the administration of Fort Lewis A. & M. College reserves the right to alter the course listings where curriculum research deems it necessary.

### LOWER DIVISION COLLEGE:

On the next few pages are outlined courses of study for students planning to major in either Agriculture, Business, Engineering, or Arts and Sciences. The specialized courses within these divisions are also included. These curricula have been planned with reference to the requirements of typical four-year colleges where 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.

# NUMBERING AND LETTERING SYSTEM USED

## Letter Abbreviations

- Ag Agriculture
- BS Biological Science
- C Chemistry
- Ph Physics
- B Business
- Ed Education
- EL English Language and Literature
- E Engineering
- G Geology
- SS Social Studies
- HE Home Economics
- M Mathematics
- FL Foreign Languages
- Mu Music
- PE Physical Education

## Numbering System

- Terminal Course numbers are prefixed with.....0
- Lower Division Courses.....1-99
- Freshman Courses .....1-49
- Sophomore Courses .....50-99

Odd Numbers signify first Semester

Even Numbers signify second Semester

The letter "L", following a course number, indicates a laboratory period in conjunction with the particular course.

## Meaning of Numerals

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

All freshmen must register for English Composition. Also Remedial Reading must be included in the first semester by those students who do not make a passing grade in the Reading Orientation Examination. All students must pass the spelling test requirement of English Composition before graduation.

All freshmen (new students: no previous college, and transfers of less than full sophomore rank) are required to take college adjustment. The only exceptions are returning Freshmen who have taken the adjustment 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 College Nurse of a written request from the College physician.

#### PURPOSES OF PHYSICAL EDUCATION:

The purposes of the physical education, health and recreational program, which includes intercollegiate athletics at Fort Lewis A. & M. College, are as follows:

1. To enable all students to gain physical skills, personal health, a sense of sportsmanship, and an awareness of the rules and techniques of all sports.
2. To teach the lower division courses which lead to a degree in Health, Recreation, and Physical Education.
3. To encourage a long range physical education program which may assure in the student a robust physical condition while in college and in later life.

## AGRICULTURE

### FRESHMAN YEAR

#### First Semester

		Hours	Credits
Ag-17	Introductory Animal Husbandry .....	(3-2)	4
•EL-1	Remedial Reading .....	(2-0)	1
EL-3	English Composition .....	(3-0)	3
C-1	General Chemistry .....	(3-0)	3
Ed-1	College Adjustment .....	(1-0)	1
Ag-1	Crop Production .....	(2-2)	3
C-5L	Chemistry Laboratory .....	(0-3)	1
PE-1	Men's Physical Activity .....	(0-2)	1

16 or 17

#### Second Semester

		Hours	Credits
Ag-40	Farm Machinery .....	(2-3)	3
EL-4	English Composition .....	(3-0)	3
C-2	General Chemistry .....	(3-0)	3
C-6L	Chemistry Laboratory .....	(0-3)	1
Ag-74	Feeds and Feeding .....	(2-3)	3
Ag-16	Elements of Dairying .....	(1-2)	2
PE-2	Men's Physical Activity .....	(0-2)	1

16

## GENERAL AGRICULTURE

### SOPHOMORE YEAR

#### First Semester

		Hours	Credits
BS-75	General Bacteriology .....	(2-3)	3
BS-9	Introduction to Zoology .....	(3-3)	4
BS-21	General Botany .....	(3-3)	4
SS-55	Principles of Economics .....	(3-0)	3
BS-52	Applied Entomology .....	(2-3)	3
PE-51	Men's Physical Activity .....	(0-2)	1

18

#### Second Semester

		Hours	Credits
BS-22	General Botany .....	(2-3)	3
Ag-80	General Poultry .....	(2-2)	3
Ag-54	General Horticulture .....	(3-2)	3
SS-56	Principles of Economics .....	(3-0)	3
Ag-64	Irrigation Practices .....	(1-2)	2
Ag-60	Soils .....	(3-2)	4
PE-52	Men's Physical Activity .....	(0-2)	1

19

69 or 70

\* Required of all students who do not make a passing grade in the Reading Orientation Examination. Students not required to take Remedial Reading may elect Farm Carpentry or Welding.

**ANIMAL HUSBANDRY**

**SOPHOMORE YEAR**

**First Semester**

	<b>Hours</b>	<b>Credits</b>
BS-9 Introduction to Zoology .....	(3-3)	4
M-11 Intermediate Algebra .....	(3-0)	3
BS-21 General Botany .....	(3-3)	4
EL-61 Speech .....	(2-0)	2
SS-55 Principles of Economics .....	(3-0)	3
PE-51 Men's Physical Activity .....	(0-2)	1
		<hr style="width: 100%; border: 0.5px solid black;"/>

17

**Second Semester**

	<b>Hours</b>	<b>Credits</b>
BS-22 General Botany .....	(2-3)	3
C-64 Basic Organic Chemistry .....	(3-3)	4
Ag-68 Livestock Judging .....	(0-3)	1
SS-56 Principles of Economics .....	(3-0)	3
Ag-54 General Horticulture .....	(2-2)	3
Ag-60 Soils .....	(3-2)	4
PE-52 Men's Physical Activity .....	(0-2)	1
		<hr style="width: 100%; border: 0.5px solid black;"/>

19

67 or 68

## FORESTRY AND RANGE MANAGEMENT

A college course in this field of specialization prepares qualified candidates for professional employment, either with various governmental agencies or with 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.

### FRESHMAN YEAR

First Semester		Hours	Credits
*EL-1	Remedial Reading .....	(2-0)	1
EL-3	English Composition .....	(3-0)	3
BS-21	General Botany .....	(3-3)	4
M-11	Intermediate Algebra .....	(3-0)	3
C-1	General Chemistry .....	(3-0)	3
C-5L	Chemistry Laboratory .....	(0-3)	1
Ed-1	College Adjustment .....	(1-0)	1
PE-1	Men's Physical Activity .....	(0-2)	1

16 or 17

Second Semester		Hours	Credits
EL-4	English Composition .....	(3-0)	3
C-2	General Chemistry .....	(3-0)	3
C-6L	Chemistry Laboratory .....	(0-3)	1
M-12	Trigonometry .....	(3-0)	3
BS-22	General Botany .....	(2-3)	3
BS-36	Principles of Conservation .....	(2-0)	2
PE-2	Men's Physical Activity .....	(0-2)	1

16

### SOPHOMORE YEAR

First Semester		Hours	Credits
E-51	Elementary Surveying .....	(2-3)	3
BS-9	Introduction to Zoology .....	(3-3)	4
SS-55	Principles of Economics .....	(3-0)	3
EL-61	Speech .....	(2-0)	2
G-11	General Geology .....	(3-3)	4
PE-51	Men's Physical Activity .....	(0-2)	1

17

Second Semester		Hours	Credits
E-56	Basic Mapping .....	(0-6)	2
C-64	Basic Organic Chemistry .....	(3-3)	4
G-12	General Geology .....	(3-3)	4
Ag-60	Soils .....	(3-2)	4
PE-52	Men's Physical Activity .....	(0-2)	1
SS-56	Principles of Economics .....	(3-0)	3

18

65 or 66

\*Required of all students who do not make a passing grade in the Reading Orientation Examination.

## ENGINEERING

The customary divisions of the field of engineering are Civil, Electrical, and Mechanical. Related fields are those of Industrial Arts and Industrial Arts Education. Civil Engineering comprises such activities as irrigation engineering, highway engineering, structural engineering, and sanitary engineering. Electrical engineering deals with the application of electricity, its transmission and utilization. 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.

### FRESHMAN YEAR

First Semester		Hours	Credits
*EL-1	Remedial Reading .....	(2-0)	1
EL-3	English Composition .....	(3-0)	3
E-1	Mechanical Drawing .....	(1-6)	3
M-21	College Mathematics I .....	(5-0)	5
*M-03	Refresher Algebra .....	(3-0)	0
C-1	General Chemistry .....	(3-0)	3
C-3L	General Chemistry Laboratory .....	(0-6)	2
Ed-1	College Adjustment .....	(1-0)	1
PE-1	Men's Physical Activity .....	(0-2)	1

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18 or 19

Second Semester		Hours	Credits
EL-4	English Composition .....	(3-0)	3
M-22	College Mathematics II .....	(5-0)	5
*M-4	Solid Geometry .....	(2-0)	2
C-2	General Chemistry .....	(3-0)	3
C-4L	General Chemistry Laboratory .....	(0-6)	2
E-2	Descriptive Geometry .....	(1-6)	3
PE-2	Men's Physical Activity .....	(0-2)	1

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17 or 19

### SOPHOMORE YEAR

First Semester		Hours	Credits
Ph-53	General Physics .....	(3-4)	5
M-57	Differential Calculus .....	(5-0)	5
E-51	Elementary Surveying .....	(2-3)	3
E-61	Engineering Problems Solution .....	(0-4)	2
PE-51	Men's Physical Activity .....	(0-2)	1
*EL-21	Introduction to Literature .....	(3-0)	(3)
*E-70	Mechaniam .....	(2-3)	(3)

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19

\*Required of all students who do not make a passing grade in the Reading Orientation Examination.

†Required of all engineering students who do not have credit for second year high school algebra.

‡Not required but an excellent course for engineering students who do not have high school credit in solid geometry.

Second Semester		Hours	Credits
Ph-54	General Physics .....	(3-4)	5
M-58	Integral Calculus .....	(5-0)	5
E-52	Advanced Surveying .....	(2-3)	3
PE-52	Men's Physical Activity .....	(0-2)	1
E-64	Applied Mechanics .....	(3-0)	3
EL-22	Introduction to Literature .....	(3-0)	3
			17 or 20
			73 or 76

<sup>3</sup>Required of all engineering students in majors other than Mechanical and Electrical engineering.

<sup>4</sup>Required of Mechanical and Electrical engineers.



## GENERAL ARTS AND SCIENCE

The General Arts and Science major offers students the opportunity to acquire a liberal education and to lay the foundation for professional or technical study.

As a basis for a liberal education, the curriculum for the General Arts and Science major is so arranged that students are expected to study the fundamentals of various broad fields of knowledge such as the biological sciences, the humanities, the physical sciences, and the social studies. This major also gives the student the opportunity to specialize in the fields of Pre-Law, Pre-Dentistry, Biology (General Biology, Botany, Bacteriology, Zoology), Secondary Education, English, Geology, Mathematics, Foreign Language, Physics, Psychology and Social Studies (History, Economics, Political Science, and Sociology).

All students majoring in General Arts and Sciences are required to complete 65 semester hours of work in the following fields of study in order to graduate.

(On the next two pages are outlined the courses that may be selected to meet the following requirements.)

College Adjustment.....	1
Biological Science .....	6 to 8
English Language .....	6
Humanities .....	6
Physical Education .....	4
Physical Sciences .....	6 to 8
Social Studies .....	6
<sup>1</sup> Foreign Languages .....	6 to 10
<sup>1</sup> Mathematics .....	6
	41 to 49
<sup>2</sup> Electives .....	16 to 24

<sup>1</sup> Select either field of study.

<sup>2</sup> Electives are approved by the students' advisor.

## SECONDARY EDUCATION

A student wishing to teach in high school or at the college level must major in General Arts and Science, include educational psychology and complete an approved number of hours in a particular subject matter field in place of electives.

## PRE-LAW

Students must major in General Arts and Science to enter a school of law.

Pre-Law students must include as electives a year of accounting, government, economics, speech, and mathematics if any of these subjects are not used to satisfy the broad field requirements of General Arts and Science.

## PRE-DENTAL

The requirements of the American Association of Dental Schools may be met by the General Arts and Science curriculum if biology, general chemistry, organic chemistry, and physics are included.

Courses which will satisfy the General Arts and Science requirements:

### Biological Sciences

Biology	Hours
BS-3, 4    General Biology .....	8
BS-9        Introduction to Zoology .....	4
BS-21, 22    General Botany .....	7
<b>Psychology</b>	
Ed-53        General Psychology .....	3
Ed-54        Personality and Social Adjustment .....	3
Ed-62        Educational Psychology .....	3

### English Language

Freshman English	Hours
EL-3, 4     English Composition .....	6
*EL-1       Remedial Reading .....	1

### Humanities

Music	Hours
EL-21       Introduction to Literature .....	3
EL-22       Introduction to Literature .....	3
EL-55       Biography .....	2
EL-69       Survey of English Literature .....	3
EL-70       Survey of English Literature .....	3
<b>Foreign Languages</b>	
<sup>1</sup> FL-5, 6     First Year Spanish .....	10
<sup>1</sup> FL-55, 56    Second Year Spanish .....	6
<sup>1</sup> FL-15, 16    First Year German .....	10
<sup>1</sup> FL-65, 66    Second Year German .....	6

Literature	Hours
Mu-15       Introduction to Musical Literature .....	2
Mu-16       Introduction to Musical Literature .....	2

### Mathematics

	Hours
M-2         Slide Rule .....	1
M-4         Solid Geometry .....	2
M-11        Intermediate Algebra .....	3
M-12        Trigonometry .....	3
M-21, 22    College Mathematics .....	10

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

<sup>1</sup> Offered in alternate years, beginning with 1956-57

<sup>2</sup> Offered in alternate years, beginning with 1955-56

## Physical Education

Freshman Physical Education		Hours
PE-1, 2	Men's Physical Activity .....	2
PE-39, 40	Women's Physical Activity .....	2
Sophomore Physical Education		
PE-51, 52	Men's Physical Activity .....	2
PE-89, 90	Women's Physical Activity .....	2

## Physical Sciences

Chemistry		Hours
C-1, 2	General Chemistry .....	6
C-3L, 4L	General Chemistry Laboratory .....	4
C-5L, 6L	Chemistry Laboratory .....	2
Geology		
G-11, 12	General Geology .....	8
Physics		
Ph-5, 6	The Physical Sciences .....	8
Ph-53, 54	General Physics .....	10

## Social Studies

History		Hours
SS-7	United States History .....	3
SS-8	United States History .....	3
Government		
SS-17	American Government .....	3
SS-18	State and Local Government .....	3
Economics		
SS-56	Principles of Economics .....	3
SS-57	Principles of Economics .....	3
Sociology		
SS-67	Introduction to Sociology .....	3
SS-68	Introduction to Sociology .....	3

## BUSINESS ADMINISTRATION

### FRESHMAN YEAR

#### First Semester

		Hours	Credits
*EL-1	Remedial Reading .....	(2-0)	1
EL-3	English Composition .....	(3-0)	3
B-1	Introduction to Business .....	(3-0)	3
B-21	Principles of Accounting .....	(3-2)	4
Ed-1	College Adjustment .....	(1-0)	1
PE-1, 30	Physical Activity .....	(0-2)	1
BS-3	General Biology .....	(3-3)	4

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16 or 17

#### Second Semester

		Hours	Credits
EL-4	English Composition .....	(3-0)	3
B-22	Principles of Accounting .....	(3-2)	4
EL-12	Vocabulary Building .....	(2-0)	2
B-58	Payroll Accounting .....	(1-2)	2
PE-2, 40	Physical Activity .....	(0-2)	1
BS-4	General Biology .....	(3-3)	4

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16

### SOPHOMORE YEAR

#### First Semester

		Hours	Credits
SS-55	Principles of Economics .....	(3-0)	3
B-51	Intermediate Accounting .....	(3-0)	3
	<sup>1</sup> Foreign Language .....	(5-0)	(5)
<sup>1</sup> EL-21	Introduction to Literature .....	(3-0)	(3)
PE-51, 59	Physical Activity .....	(0-2)	1
M-11	Intermediate Algebra .....	(3-0)	3
<sup>2</sup> Ph-1	The Physical Sciences .....	(3-3)	4

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17 or 19

#### Second Semester

		Hours	Credits
SS-56	Principles of Economics .....	(3-0)	3
B-54	Elementary Cost Accounting .....	(3-0)	3
	<sup>1</sup> Foreign Language .....	(5-0)	(5)
<sup>1</sup> EL-22	Introduction to Literature .....	(3-0)	(3)
PE-52, 90	Physical Activity .....	(0-2)	1
M-12	Trigonometry .....	(3-0)	3
<sup>2</sup> Ph-2	The Physical Sciences .....	(3-3)	4

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17 or 19

\*Required of all students who do not make a passing grade in the Reading Orientation Examination.

<sup>1</sup>Take either sequence of courses so that there is at least a total of 3 credits per semester. The following courses may be substituted for Introduction to Literature: Survey of English Literature; Biography, and Introduction to Musical Literature.

<sup>2</sup>The following courses may be substituted for the Physical Sciences: General Geology; General Physics; or General Chemistry with Chemistry Laboratory.

## CHEMISTRY

## FRESHMAN YEAR

		Hours	Credits
<b>First Semester</b>			
*EL-1	Remedial Reading .....	(2-0)	1
EL-3	English Composition .....	(3-0)	3
M-21	College Mathematics I .....	(5-0)	5
C-1	General Chemistry .....	(3-0)	3
C-3L	General Chemistry Laboratory .....	(0-6)	2
SS-7	United States History .....	(3-0)	3
Ed-1	College Adjustment .....	(1-0)	1
PE-1, 39	Physical Activity .....	(0-2)	1

18 or 19

		Hours	Credits
<b>Second Semester</b>			
EL-4	English Composition .....	(3-0)	3
<sup>1</sup> SS-8	United States History .....	(3-0)	3
C-2	General Chemistry .....	(3-0)	3
C-4L	General Chemistry Laboratory .....	(0-6)	2
M-22	College Mathematics II .....	(5-0)	5
PE-2, 40	Physical Activity .....	(0-2)	1
M-2	Slide Rule .....	(1-0)	1

18

## SOPHOMORE YEAR

		Hours	Credits
<b>First Semester</b>			
M-57	Differential Calculus .....	(5-0)	5
<sup>1</sup> C-71	Quantitative Analysis .....	(2-8)	4
<sup>2</sup> Ed-53	General Psychology .....	(3-0)	3
	<sup>4</sup> German .....		3-5
PE-51, 89	Physical Activity .....	(0-2)	1

16 or 18

		Hours	Credits
<b>Second Semester</b>			
M-58	Integral Calculus .....	(5-0)	5
<sup>2</sup> Ed-54	Personality and Social Adjustment .....	(3-0)	3
<sup>1</sup> C-72	Quantitative Analysis .....	(2-8)	4
	<sup>4</sup> German .....		3-5
PE-52, 90	Physical Activity .....	(0-2)	1

16 or 18

\*Required of all students who do not make a passing grade in the Reading Orientation Examination.

<sup>1</sup>The following courses may be substituted for United States History: Government or Introduction to Sociology.

<sup>2</sup>The following courses can be substituted for Psychology: General Botany or Zoology.

<sup>3</sup>Organic Chemistry may be substituted for Quantitative Analysis.

<sup>4</sup>If German will not be offered during the student's second year, interchange German and United States History or substitute other social studies courses.

## ELEMENTARY EDUCATION

For Secondary Education see General Arts and Science.

### FRESHMAN YEAR

First Semester		Hours	Credits
*EL-1	Remedial Reading .....	(2-0)	1
EL-3	English Composition .....	(3-0)	3
BS-3	General Biology .....	(3-3)	4
<sup>1</sup> M-11	Intermediate Algebra .....	(3-0)	3
	<sup>1</sup> Foreign Language .....		3 or 5
<sup>2</sup> SS-7	United States History .....	(3-0)	3
Ed-1	College Adjustment .....	(1-0)	1
PE-1, 39	Physical Activity .....	(0-2)	1

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15 or 18

Second Semester		Hours	Credits
EL-4	English Composition .....	(3-0)	3
BS-4	General Biology .....	(3-3)	4
<sup>1</sup> M-12	Trigonometry .....	(3-0)	3
	<sup>1</sup> Foreign Language .....		3 or 5
<sup>2</sup> SS-8	United States History .....	(3-0)	3
PE-18	Personal Living .....	(3-0)	3
PE-2, 40	Physical Activity .....	(0-2)	1

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17 or 19

### SOPHOMORE YEAR

First Semester		Hours	Credits
Ed-53	General Psychology .....	(3-0)	3
<sup>2</sup> Ph-5	The Physical Sciences .....	(3-3)	4
<sup>4</sup> EL-69	Survey of English Literature .....	(3-0)	3
EL-61	Speech .....	(2-0)	2
Ed-75	Introduction to Elementary Education .....	(3-0)	3
PE-51, 89	Physical Activity .....	(0-2)	1

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16

Second Semester		Hours	Credits
Ed-62	Educational Psychology .....	(3-0)	3
Ed-66	Child Psychology .....	(2-0)	2
<sup>2</sup> Ph-6	The Physical Sciences .....	(3-3)	4
<sup>4</sup> EL-70	Survey of English Literature .....	(3-0)	3
EL-62	Speech .....	(2-0)	2
Ed-80	School Management .....	(2-0)	2
PE-52, 90	Physical Activity .....	(0-2)	1

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17

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65 or 70

\*Required of all students who do not make a passing grade in the Reading Orientation Examination.

<sup>1</sup>Take either course.

<sup>2</sup>The following courses may be substituted for United States History: Government or Introduction to Sociology.

<sup>3</sup>General Geology or Chemistry may be substituted for the Physical Sciences.

<sup>4</sup>The following courses may be substituted for Survey of English Literature: Introduction to Literature; Introduction to Musical Literature, and Biography.

## HOME ECONOMICS

## FRESHMAN YEAR

First Semester		Hours	Credits
HE-1	Introduction to Home Economics .....	(1-0)	1
EL-3	English Composition .....	(3-0)	3
*EL-1	Remedial Reading .....	(2-0)	1
BS-9	Introduction to Zoology .....	(3-3)	4
HE-7	Elementary Textiles .....	(1-3)	3
C-1	General Chemistry .....	(3-0)	3
C-5L	Chemistry Laboratory .....	(0-3)	1
Ed-1	College Adjustment .....	(1-0)	1
PE-39	Women's Physical Activity .....	(0-2)	1
			17 or 18
Second Semester		Hours	Credits
EL-4	English Composition .....	(3-0)	3
HE-8	Clothing and Construction .....	(2-3)	3
C-2	General Chemistry .....	(3-0)	3
BS-66	Human Anatomy and Physiology .....	(3-3)	4
C-6L	Chemistry Laboratory .....	(0-3)	1
PE-40	Women's Physical Activity .....	(0-2)	1
			15
			32 or 33

## SOPHOMORE YEAR

First Semester		Hours	Credits
HE-71	House Planning .....	(2-2)	3
BS-75	General Bacteriology .....	(2-3)	3
Ed-53	General Psychology .....	(3-0)	3
SS-67	Introduction to Sociology .....	(3-0)	3
EL-61	Speech .....	(2-0)	2
HE-61	Effective Home Management .....	(2-0)	2
PE-89	Women's Physical Activity .....	(0-2)	1
			17
Second Semester		Hours	Credits
C-64	Basic Organic Chemistry .....	(3-6)	5
HE-72	Interior Decoration .....	(2-2)	3
<sup>1</sup> Ed-54	Personality and Social Adjustment .....	(3-0)	3
<sup>1</sup> Ed-62	Educational Psychology .....	(3-0)	3
PE-90	Women's Physical Activity .....	(0-2)	1
SS-68	Introduction to Sociology .....	(3-0)	3
HE-52	Household Equipment .....	(1-2)	2
			17
			33 or 34
			65 or 67

\*Required of all students who do not make a passing grade in the Reading Orientation Examination.

<sup>1</sup>Take either course.

## MEDICAL TECHNOLOGY

### FRESHMAN YEAR

First Semester		Hours	Credits
<sup>1</sup> EL-1	Remedial Reading .....	(2-0)	1
EL-3	English Composition .....	(3-0)	3
C-1	General Chemistry .....	(3-0)	3
C-3L	General Chemistry Laboratory .....	(0-6)	2
M-11	Intermediate Algebra .....	(3-0)	3
<sup>1</sup> SS-67	Introduction to Sociology .....	(3-0)	3
Ed-1	College Adjustment .....	(1-0)	1
PE-1, 39	Physical Activity .....	(0-2)	1
			16 or 17

Second Semester		Hours	Credits
EL-4	English Composition .....	(3-0)	3
C-2	General Chemistry .....	(3-0)	3
C-4L	General Chemistry Laboratory .....	(0-6)	2
M-12	Trigonometry .....	(3-0)	3
<sup>1</sup> SS-68	Introduction to Sociology .....	(3-0)	3
PE-2, 40	Physical Activity .....	(0-2)	1
	Electives .....		2
			17

### SOPHOMORE YEAR

First Semester		Hours	Credits
C-65	Organic Chemistry .....	(3-6)	5
C-71	Quantitative Analysis .....	(2-8)	4
BS-3	General Biology .....	(3-3)	4
<sup>2</sup> EL-21	Introduction to Literature .....	(3-0)	3
PE-51, 89	Physical Activity .....	(0-2)	1
			17

Second Semester		Hours	Credits
C-66	Organic Chemistry .....	(3-6)	5
BS-4	General Biology .....	(3-3)	4
<sup>2</sup> EL-22	Introduction to Literature .....	(3-0)	3
PE-52, 90	Physical Activity .....	(0-2)	1
	Electives .....		2 to 3
			15 or 16
			65 or 66

\*Required of all students who do not make a passing grade in the Reading Orientation Examination.

<sup>1</sup>United States History or Government may be substituted for Introduction to Sociology.

<sup>2</sup>The following courses may be substituted for Introduction to Literature: Survey of English Literature; Introduction to Musical Literature, and Biography.



## MUSIC

The courses offered by the Department of Music are designed to meet the individual needs and interests of the student. For a major in music, the student may select a curriculum leading either to a major in applied music or to a major in music education.

For the student who wishes to choose music as an elective, a wide variety of courses may be selected.

### FRESHMAN YEAR

First Semester		Hours	Credits
*EL-1	Remedial Reading .....	(2-0)	1
EL-3	English Composition .....	(3-0)	3
<sup>1</sup> Mu-37	Applied Music (Piano) .....	(1 <sup>1</sup> / <sub>2</sub> -0)	1
Mu-39	Applied Music (Major) .....	(1-0)	3
Mu-1	Fundamental Theory .....	(1-4)	3
Mu-15	Introduction to Music Literature .....	(2-0)	2
<sup>2</sup> Mu-21	Band .....	(0-3)	1
<sup>2</sup> Mu-27	Chorus .....	(0-3)	1
Ed-1	College Adjustment .....	(1-0)	1
PE-1, 39	Physical Activity .....	(0-2)	1
			15 or 17
Second Semester		Hours	Credits
EL-4	English Composition .....	(3-0)	3
<sup>1</sup> Mu-38	Applied Music (Piano) .....	(1 <sup>1</sup> / <sub>2</sub> -0)	1
Mu-40	Applied Music (Major) .....	(1-0)	3
Mu-2	Fundamental Theory .....	(1-4)	3
Mu-16	Introduction to Music Literature .....	(2-0)	2
<sup>2</sup> Mu-22	Band .....	(0-3)	1
<sup>2</sup> Mu-28	Chorus .....	(0-3)	1
PE-2, 40	Physical Activity .....	(0-2)	1
	<sup>3</sup> Electives .....		3
			16 or 18

### SOPHOMORE YEAR

First Semester		Hours	Credits
Mu-51	Advanced Theory .....	(4-1)	4
<sup>1</sup> Mu-81	Applied Music (Piano) .....	(1 <sup>1</sup> / <sub>2</sub> -0)	1
Mu-83	Applied Music (Major) .....	(1-0)	3
Mu-61	History of Music .....	(2-0)	2
<sup>2</sup> Mu-71	Band .....	(0-3)	1
<sup>2</sup> Mu-77	Chorus .....	(0-3)	1
PE-51, 89	Physical Activity .....	(0-2)	1
	<sup>3</sup> Electives .....		5
			17
Second Semester		Hours	Credits
Mu-52	Advanced Theory .....	(4-1)	4
<sup>1</sup> Mu-82	Applied Music (Piano) .....	(1 <sup>1</sup> / <sub>2</sub> -0)	1
Mu-84	Applied Music (Major) .....	(1-0)	3
Mu-62	History of Music .....	(2-0)	2
<sup>2</sup> Mu-72	Band .....	(0-3)	1
<sup>2</sup> Mu-78	Chorus .....	(0-3)	1
PE-52, 90	Physical Activity .....	(0-2)	1
	<sup>3</sup> Electives .....		5-6
			17 or 18
			67 — 72

\*Required of all students who do not make a passing grade in the Reading Orientation Examination.

<sup>1</sup>Piano is required of all music majors until sufficient proficiency has been acquired.

<sup>2</sup>Either course is required.

<sup>3</sup>Electives are to be chosen from the sciences, social studies, foreign languages.

Foreign language is required of voice majors.

# MUSIC EDUCATION

## FRESHMAN YEAR

		Hours	Credits
<b>First Semester</b>			
*EL-1	Remedial Reading .....	(2-0)	1
EL-3	English Composition .....	(3-0)	3
<sup>1</sup> Mu-37	Applied Music (Piano) .....	( $\frac{1}{2}$ -0)	1
Mu-39	Applied Music (Major) .....	(1-0)	3
Mu-1	Fundamental Theory .....	(1-4)	3
Mu-15	Introduction to Musical Literature .....	(2-0)	2
<sup>2</sup> Mu-21	Band .....	(0-3)	1
<sup>2</sup> Mu-27	Chorus .....	(0-3)	1
Ed-1	College Adjustment .....	(1-0)	1
PE-1, 39	Physical Activity .....	(0-2)	1
Mu-7	String Instruments .....	(0-3)	1

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 16 or 18

		Hours	Credits
<b>Second Semester</b>			
EL-4	English Composition .....	(3-0)	3
<sup>1</sup> Mu-38	Applied Music (Piano) .....	( $\frac{1}{2}$ -0)	1
Mu-40	Applied Music (Major) .....	(1-0)	3
Mu-2	Fundamental Theory .....	(1-4)	3
Mu-16	Introduction to Musical Literature .....	(2-0)	2
<sup>2</sup> Mu-22	Band .....	(0-3)	1
<sup>2</sup> Mu-28	Chorus .....	(0-3)	1
PE-2, 40	Physical Activity .....	(0-2)	1
Mu-8	Brass and Percussion Instruments .....	(0-2)	1

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 15 or 16

## SOPHOMORE YEAR

		Hours	Credits
<b>First Semester</b>			
Mu-51	Advanced Theory .....	(4-1)	4
<sup>1</sup> Mu-81	Applied Music (Piano) .....	( $\frac{1}{2}$ -0)	1
Mu-83	Applied Music (Major) .....	(1-0)	3
Ed-53	General Psychology .....	(3-0)	3
Mu-61	History of Music .....	(2-0)	2
<sup>2</sup> Mu-71	Band .....	(0-3)	1
<sup>2</sup> Mu-77	Chorus .....	(0-3)	1
PE-51, 89	Physical Activity .....	(0-2)	1
Mu-9	Woodwind Instruments .....	(0-1)	1
<sup>3</sup> Electives	.....		2

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 16 or 18

		Hours	Credits
<b>Second Semester</b>			
Mu-52	Advanced Theory .....	(4-1)	4
<sup>1</sup> Mu-82	Applied Music (Piano) .....	( $\frac{1}{2}$ -0)	1
Mu-84	Applied Music (Major) .....	(1-0)	3
Ed-62	Educational Psychology .....	(3-0)	3
Mu-62	History of Music .....	(2-0)	2
<sup>2</sup> Mu-72	Band .....	(0-3)	1
<sup>2</sup> Mu-78	Chorus .....	(0-3)	1
PE-52, 90	Physical Activity .....	(0-2)	1
<sup>3</sup> Electives	.....		2

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 18

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 67 or 72

\*Required of all students who do not make a passing grade in the Reading Orientation Examination.

<sup>1</sup>Piano is required of all music majors until sufficient proficiency has been acquired.

<sup>2</sup>Either course is required.

<sup>3</sup>Electives are to be chosen from the sciences, social studies, foreign languages, Foreign language is required of voice majors. (German or French)

## PHARMACY

The aim of this curriculum is to give the student the first two years of work leading toward a Five-Year combined course in Business and Pharmacy. Students wishing to earn a Bachelor of Science degree only in Pharmacy should plan to transfer at the end of the Freshman year, since they are required to have three years of residence in an approved School of Pharmacy.

### FRESHMAN YEAR

First Semester		Hours	Credits
*EL-1	Remedial Reading .....	(2-0)	1
EL-3	English Composition .....	(3-0)	3
C-1	General Chemistry .....	(3-0)	3
C-3L	General Chemistry Laboratory .....	(0-6)	2
BS-3	General Biology .....	(3-3)	4
Ed-1	College Adjustment .....	(1-0)	1
M-11	Intermediate Algebra .....	(3-0)	3
PE-1, 39	Physical Activity .....	(0-2)	1
			17 or 18
Second Semester		Hours	Credits
EL-4	English Composition .....	(3-0)	3
C-2	General Chemistry .....	(3-0)	3
C-4L	General Chemistry Laboratory .....	(0-6)	2
BS-4	General Biology .....	(3-3)	4
M-12	Trigonometry .....	(3-0)	3
PE-2, 40	Physical Activity .....	(0-2)	1
			16

### SOPHOMORE YEAR

First Semester		Hours	Credits
C-65	Organic Chemistry .....	(3-6)	5
SS-55	Principles of Economics .....	(3-0)	3
B-21	Principles of Accounting .....	(3-2)	4
<sup>1</sup> BS-75	General Bacteriology .....	(2-3)	(3)
<sup>1</sup> EL-21	Introduction to Literature .....	(3-0)	(3)
PE-51, 89	Physical Activity .....	(0-2)	1
			16
Second Semester		Hours	Credits
C-66	Organic Chemistry .....	(3-6)	5
SS-56	Principles of Economics .....	(3-0)	3
EL-22	Introduction to Literature .....	(3-0)	3
B-22	Principles of Accounting .....	(3-2)	4
PE-52, 90	Physical Activity .....	(0-2)	1
			16
			65 or 66

\*Required of all students who do not make a passing grade in the Reading Orientation Examination.

<sup>1</sup>Take either course.

# PHYSICAL EDUCATION

## FRESHMAN YEAR

First Semester		Hours	Credits
*EL-1	Remedial Reading .....	(2-0)	1
EL-3	English Composition .....	(3-0)	3
<sup>1</sup> C-1	General Chemistry .....	(3-0)	3
<sup>1</sup> C-5L	Chemistry Laboratory .....	(0-3)	1
<sup>2</sup> SS-7	United States History .....	(3-0)	3
PE-11	History and Principles of Physical Ed. ....	(2-0)	2
Ed-1	College Adjustment .....	(1-0)	1
PE-1	Men's Physical Activity .....	(0-2)	1
			14 or 15
Second Semester		Hours	Credits
EL-4	English Composition .....	(3-0)	3
SS-8	United States History .....	(3-0)	3
<sup>1</sup> C-2	General Chemistry .....	(3-0)	3
<sup>1</sup> C-6L	Chemistry Laboratory .....	(0-3)	1
PE-18	Personal Living .....	(3-0)	3
PE-24	First Aid .....	(2-0)	2
PE-2	Men's Physical Activity .....	(0-2)	1
			16

## SOPHOMORE YEAR

First Semester		Hours	Credits
BS-9	Introduction to Zoology .....	(3-3)	4
<sup>3</sup> EL-21	Introduction to Literature .....	(3-0)	3
Ed-53	General Psychology .....	(3-0)	3
PE-65	Principles of Recreation .....	(2-0)	2
PE-69	Coaching of Football .....	(2-0)	2
PE-51	Men's Physical Activity .....	(0-2)	1
	Elective .....		2
			17
Second Semester		Hours	Credits
PE-70	Coaching of Basketball .....	(2-0)	2
PE-74	Officiating in Sports .....	(2-0)	2
Ed-54	Personality and Social Adjustment .....	(3-0)	3
BS-66	Human Anatomy and Physiology .....	(3-3)	4
<sup>3</sup> EL-22	Introduction to Literature .....	(3-0)	3
Ed-62	Educational Psychology .....	(3-0)	3
PE-52	Men's Physical Activity .....	(0-2)	1
			18
			65 or 66

\*Required of all students who do not make a passing grade in the Reading Orientation Examination.

<sup>1</sup>The following courses may be substituted for General Chemistry and laboratory:  
The Physical Sciences, or General Geology.

<sup>2</sup>The following courses may be substituted for United States History:  
Government, Principles of Economics, Introduction to Sociology.

<sup>3</sup>The following courses may be substituted for Introduction to Literature:  
Survey of English Literature, Foreign Language, Introduction to Musical Literature, and Biography.

## PRE-MEDICINE

### FRESHMAN YEAR

First Semester		Hours	Credits
•FL-1	Remedial Reading .....	(2-0)	1
EL-3	English Composition .....	(3-0)	3
C-1	General Chemistry .....	(3-0)	3
C-3L	General Chemistry Laboratory .....	(0-6)	2
EL-61	Speech .....	(2-0)	2
M-11	Intermediate Algebra .....	(3-0)	3
<sup>1</sup> SS-67	Introduction to Sociology .....	(3-0)	3
Ed-1	College Adjustment .....	(1-0)	1
PE-1, 39	Physical Activity .....	(0-2)	1

18 or 19

Second Semester		Hours	Credits
EL-4	English Composition .....	(3-0)	3
C-2	General Chemistry .....	(3-0)	3
C-1L	General Chemistry Laboratory .....	(0-6)	2
EL-62	Speech .....	(2-0)	2
M-12	Trigonometry .....	(3-0)	3
<sup>1</sup> SS-68	Introduction to Sociology .....	(3-0)	3
PE-2, 40	Physical Activity .....	(0-2)	1

17

### SOPHOMORE YEAR

First Semester		Hours	Credits
BS-3	General Biology .....	(3-3)	4
Ph-53	General Physics .....	(3-4)	5
C-65	Organic Chemistry .....	(3-6)	5
<sup>2</sup> EL-69	Survey of English Literature .....	(3-0)	3
PE-51, 89	Physical Activity .....	(0-2)	1

18

Second Semester		Hours	Credits
BS-4	General Biology .....	(3-3)	4
Ph-54	General Physics .....	(3-4)	5
C-66	Organic Chemistry .....	(3-6)	5
<sup>1</sup> EL-70	Survey of English Literature .....	(3-0)	3
PE-52, 90	Physical Activity .....	(0-2)	1

18

71 or 72

\*Required of all students who do not make a passing grade in the Reading Orientation Examination.

<sup>1</sup>The following course sequences may be substituted for Introduction to Sociology: United States History or Government.

<sup>2</sup>The following courses may be substituted for Survey of English Literature: Introduction to Literature, or Introduction to Musical Literature, and Biography.

## PRE-NURSING

### FRESHMAN YEAR

First Semester		Hours	Credits
*EL-1	Remedial Reading .....	(2-0)	1
EL-3	English Composition .....	(3-0)	3
C-1	General Chemistry .....	(3-0)	3
C-5L	Chemistry Laboratory .....	(0-3)	1
SS-67	Introduction to Sociology .....	(3-0)	3
<sup>1</sup> EL-21	Introduction to Literature .....	(3-0)	3
Ed-1	College Adjustment .....	(1-0)	1
PE-39	Women's Physical Activity .....	(0-2)	1
	Electives .....		2
			17 or 18
Second Semester		Hours	Credits
EL-4	English Composition .....	(3-0)	3
C-2	General Chemistry .....	(3-0)	3
C-6L	Chemistry Laboratory .....	(0-3)	1
SS-68	Introduction to Sociology .....	(3-0)	3
<sup>1</sup> EL-22	Introduction to Literature .....	(3-0)	3
PE-40	Women's Physical Activity .....	(0-2)	1
	Electives .....		3
			17

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 she is transferring in order to make sure that she meets the entrance requirements.

\*Required of all students who do not make a passing grade in the Reading Orientation Examination.

<sup>1</sup>Students may substitute Survey of English Literature.

## PRE-VETERINARY

### FRESHMAN YEAR

First Semester		Hours	Credits
*EL-1	Remedial Reading .....	(2-0)	1
EL-3	English Composition .....	(3-0)	3
C-1	General Chemistry .....	(3-0)	3
C-3L	General Chemistry Laboratory .....	(0-6)	2
M-11	Intermediate Algebra .....	(3-0)	3
<sup>1</sup> SS-7	United States History .....	(3-0)	3
Ed-1	College Adjustment .....	(1-0)	1
PE-1, 39	Physical Activity .....	(0-2)	1

16 or 17

#### Second Semester

		Hours	Credits
EL-4	English Composition .....	(3-0)	3
C-2	General Chemistry .....	(3-0)	3
C-4L	General Chemistry Laboratory .....	(0-6)	2
EL-12	Vocabulary Building .....	(2-0)	2
<sup>1</sup> SS-18	State and Local Government .....	(3-0)	3
<sup>1</sup> SS-8	United States History .....	(3-0)	3
PE-2, 40	Physical Activity .....	(0-2)	1

17

### SOPHOMORE YEAR

#### First Semester

		Hours	Credits
BS-21	General Botany .....	(3-3)	4
C-65	Organic Chemistry .....	(3-6)	5
<sup>2</sup> Mu-15	Introduction to Musical Literature .....	(2-0)	2
BS-9	Introduction to Zoology .....	(3-3)	4
<sup>2</sup> SS-67	Introduction to Sociology .....	(3-0)	3
PE-51, 89	Physical Activity .....	(0-2)	1

19

#### Second Semester

		Hours	Credits
<sup>3</sup> SS-68	Introduction to Sociology .....	(3-0)	3
C-66	Organic Chemistry .....	(3-6)	5
<sup>2</sup> Mu-16	Introduction to Musical Literature .....	(2-0)	2
<sup>2</sup> EL-22	Introduction to Literature .....	(3-0)	3
PE-52, 90	Physical Activity .....	(0-2)	1
	Electives .....		2

13 or 16

66 or 69

\*Required of all students who do not make a passing grade in the Reading Orientation Examination.

<sup>1</sup>Student may substitute sequences in Psychology, Economics, or Sociology.

<sup>2</sup>Student may substitute Survey of English Literature so that there is a total of 6 hours.

<sup>3</sup>Psychology or Principles of Economics may be substituted for Sociology.

## DIVISION OF TERMINAL EDUCATION

Students who are not planning a four-year college course are offered the opportunity of taking two-year courses in Practical Agriculture, Vocational Business Administration, Secretarial Science, Terminal Engineering, Vocational Geology, and Terminal Home Economics. 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-year college and be acceptable toward a degree.

Upon satisfactory completion of the courses outlined below, the student will receive a certificate of completion.

## PRACTICAL AGRICULTURE

This two-year short course in Practical Agriculture is designed to make better farmers and ranchers. A student may specialize either along the lines of ranch practices and cattle production or farming and crop production.

### FRESHMAN YEAR

First Semester		Hours	Credits
*EL-1	Remedial Reading .....	(2-0)	1
EL-3	English Composition .....	(3-0)	3
<sup>1</sup> Ag-03	Ranch Practices .....	(1-3)	2
Ag-31	Farm Carpentry .....	(1-3)	2
Ed-1	College Adjustment .....	(1-0)	1
BS-21	General Botany .....	(3-3)	4
Ag-11	Introductory Animal Husbandry .....	(3-2)	4
PE-1	Men's Physical Activity .....	(0-2)	1
			17 or 18
Second Semester		Hours	Credits
EL-4	English Composition .....	(3-0)	3
<sup>1</sup> Ag-04	Ranch Practices .....	(1-3)	2
BS-22	General Botany .....	(2-3)	3
Ag-16	Elements of Dairying .....	(1-2)	2
Ag-35	Acetylene Welding .....	(1-3)	2
Ag-40	Farm Machinery .....	(2-3)	3
PE-2	Men's Physical Activity .....	(0-2)	1
			16

\*Required of all students who do not make a passing grade in the Reading Orientation Examination.

<sup>1</sup>Courses in Ranch Practices may be taken only by students with no previous experience on a ranch or farm. These courses are for students who desire to specialize in Ranch and Cattle Production.



**SOPHOMORE YEAR**

**First Semester**

	<b>Hours</b>	<b>Credits</b>
Ag-01 Farm and Ranch Management .....	(3-0)	3
Ag-07 Arithmetic in Agriculture .....	(2-0)	2
Ag-36 Arc Welding .....	(1-3)	2
Ag-1 Crop Production .....	(2-2)	3
Ag-45 Handicraft .....	(1-3)	2
PE-51 Men's Physical Activity .....	(0-2)	1
Electives .....		3
		16

**Second Semester**

	<b>Hours</b>	<b>Credits</b>
Ag-08 Agricultural Seminar .....	(1-3)	2
Ag-74 Feeds & Feeding .....	(2-2)	3
Ag-54 General Horticulture .....	(2-2)	3
Ag-68 Livestock Judging .....	(0-3)	1
Ag-64 Irrigation Practice .....	(1-2)	2
Ag-16 Elements of Dairying .....	(1-2)	2
BS-36 Principles of Conservation .....	(2-0)	2
PE-52 Men's Physical Activity .....	(0-2)	1
		16
		65 or 66

## BUSINESS

There are two terminal vocational courses offered in the field of business for those students who are not planning to take a full four-year course. These curricula have been planned with reference to the needs of the student.

**One-year Courses:** For the one-year business student who wishes to find employment with a minimum amount of time spent in preparation, it is possible to take only one year of either terminal curriculum. The first year courses will provide the same basic knowledge and training provided by any business school for employment as a secretary, stenographer, typist, or other clerical assistant. A college transcript can be supplied the student as evidence of taking one year of college business training.

However, it is desirable that the student studying under a terminal curriculum complete the full two-year course, as the second year of training will allow him to develop a more complete background of business knowledge. Upon completion of either of the two-year terminal curricula a certificate of completion will be issued.

### VOCATIONAL BUSINESS ADMINISTRATION

#### FRESHMAN YEAR

First Semester		Hours	Credits
*EL-1	Remedial Reading .....	(2-0)	1
EL-3	English Composition .....	(3-0)	3
B-21	Principles of Accounting .....	(3-2)	4
B-1	Introduction to Business .....	(3-0)	3
B-7	Elementary Typewriting .....	(1-3)	2
Ed-1	College Adjustment .....	(1-0)	1
B-09	Business Mathematics .....	(3-0)	3
PE-1, 39	Physical Activity .....	(0-2)	1

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17 or 18  
Credits

Second Semester		Hours	Credits
B-08	Business Communications .....	(3-0)	3
B-22	Principles of Accounting .....	(3-2)	4
B-8	Advanced Typewriting .....	(1-3)	2
B-54	Payroll Accounting .....	(1-2)	2
B-017	Introduction to Advertising .....	(3-0)	3
PE-2, 40	Physical Activity .....	(0-2)	1

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15

#### SOPHOMORE YEAR

First Semester		Hours	Credits
B-05	Business Law .....	(3-0)	3
B-51	Intermediate Accounting .....	(3-0)	3
SS-55	Principles of Economics .....	(3-0)	3
B-01	Introduction to Insurance .....	(3-0)	3
EL-61	Speech .....	(2-0)	2
PE-51, 89	Physical Activity .....	(0-2)	1

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15  
Credits

Second Semester		Hours	Credits
B-04	Income Tax Accounting .....	(3-0)	3
B-52	Elementary Cost Accounting .....	(3-0)	3
B-06	Business Law .....	(3-0)	3
EL-62	Speech .....	(2-0)	2
SS-56	Principles of Economics .....	(3-0)	3
PE-52, 90	Physical Activity .....	(0-2)	1
	Electives .....		2 or 3

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17 or 18

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65 or 66

\*Required of all students who do not make a passing grade in the Reading Orientation Examination.

# SECRETARIAL SCIENCE

## FRESHMAN YEAR

		Hours	Credits
<b>First Semester</b>			
*EL-1	Remedial Reading .....	(2-0)	1
EL-3	English Composition .....	(3-0)	3
B-1	Introduction to Business .....	(3-0)	3
B-11	Stenography I .....	(3-0)	3
B-7	Elementary Typewriting .....	(1-3)	2
PE-1, 39	Physical Activity .....	(0-2)	1
Ed-1	College Adjustment .....	(1-0)	1
B-05	Business Law .....	(3-0)	3
			16 or 17
<b>Second Semester</b>			
		Hours	Credits
B-08	Business Communications .....	(3-0)	3
B-12	Stenography II .....	(3-0)	3
B-8	Advanced Typewriting .....	(1-3)	2
B-06	Business Law .....	(3-0)	3
B-017	Introduction to Advertising .....	(3-0)	3
PE-2, 40	Physical Activity .....	(0-2)	1
			15

## SOPHOMORE YEAR

		Hours	Credits
<b>First Semester</b>			
B-011	Office Practice .....	(3-0)	3
B-21	Principles of Accounting .....	(3-2)	4
B-01	Introduction to Insurance .....	(3-0)	3
EL-61	Speech .....	(2-0)	2
B-09	Business Mathematics .....	(3-0)	3
PE-51, 89	Physical Activity .....	(0-2)	1
			16
<b>Second Semester</b>			
		Hours	Credits
B-012	Office Practice .....	(3-0)	3
B-22	Principles of Accounting .....	(3-2)	4
B-54	Payroll Accounting .....	(1-2)	2
EL-62	Speech .....	(2-0)	2
PE-52, 90	Physical Activity .....	(0-2)	1
	Electives .....		5 or 6
			17 or 18
			65 or 66

\*Required of all students who do not make a passing grade in the Reading Orientation Examination.

## TERMINAL ENGINEERING

### FRESHMAN YEAR

First Semester		Hours	Credits
*EL-1	Remedial Reading .....	(2-0)	1
E-1	Mechanical Drawing .....	(1-6)	3
EL-3	English Composition .....	(3-0)	3
Ag-35	Acetylene Welding .....	(1-3)	2
<sup>1</sup> SS-17	American Government .....	(3-0)	3
M-11	Intermediate Algebra .....	(3-0)	3
Ed-1	College Adjustment .....	(1-0)	1
PE-1	Men's Physical Activity .....	(0-2)	1
			16 or 17
Second Semester		Hours	Credits
EL-4	English Composition .....	(3-0)	3
E-2	Descriptive Geometry .....	(1-6)	3
Ag-36	Arc Welding .....	(1-3)	2
<sup>1</sup> SS-18	State and Local Government .....	(3-0)	3
M-12	Trigonometry .....	(3-0)	3
M-2	Slide Rule .....	(1-0)	1
PE-2	Men's Physical Activity .....	(1-2)	1
			16

### SOPHOMORE YEAR

First Semester		Hours	Credits
Ed-53	General Psychology .....	(3-0)	3
SS-55	Principles of Economics .....	(3-0)	3
Ag-31	Farm Carpentry .....	(1-3)	2
E-51	Elementary Surveying .....	(2-3)	3
EL-61	Speech .....	(2-0)	2
<sup>2</sup> B-21	Principles of Accounting .....	(3-2)	4
<sup>2</sup> G-11	General Geology .....	(3-3)	4
PE-51	Men's Physical Activity .....	(0-2)	1
			18
Second Semester		Hours	Credits
Ed-54	Personality and Social Adjustment .....	(3-0)	3
SS-56	Principles of Economics .....	(3-0)	3
E-52	Advanced Surveying .....	(2-3)	3
EL-62	Speech .....	(2-0)	2
<sup>2</sup> B-22	Principles of Accounting .....	(3-2)	4
<sup>2</sup> G-12	General Geology .....	(3-3)	4
	Electives .....		2
PE-52	Men's Physical Activity .....	(1-2)	1
			18
			68 or 69

\*Required of all students who do not make a passing grade in the Reading Orientation Examination.

<sup>1</sup>American History may be substituted for Government

<sup>2</sup>Take either sequence upon advisor's approval.

## VOCATIONAL GEOLOGY

### FRESHMAN YEAR

First Semester		Hours	Credits
*EL-1	Remedial Reading .....	(2-0)	1
EL-3	English Composition .....	(3-0)	3
G-11	General Geology .....	(3-3)	4
M-11	Intermediate Algebra .....	(3-0)	3
E-1	Mechanical Drawing .....	(1-6)	3
C-1	General Chemistry .....	(3-0)	3
C-5L	Chemistry Laboratory .....	(0-3)	1
Ed-1	College Adjustment .....	(1-0)	1
PE-1	Men's Physical Activity .....	(0-2)	1
			19 or 20
Second Semester		Hours	Credits
EL-4	English Composition .....	(3-0)	3
G-12	General Geology .....	(3-3)	4
M-12	Trigonometry .....	(3-0)	3
E-2	Descriptive Geometry .....	(1-6)	3
C-2	General Chemistry .....	(3-0)	3
C-6L	Chemistry Laboratory .....	(0-3)	1
M-2	Slide Rule .....	(1-0)	1
PE-2	Men's Physical Activity .....	(0-2)	1
			19

### SOPHOMORE YEAR

First Semester		Hours	Credits
G-51	Mineralogy .....	(3-3)	4
E-51	Elementary Surveying .....	(2-3)	3
EL-61	Speech .....	(2-0)	2
<sup>1</sup> SS-55	Principles of Economics .....	(3-0)	3
<sup>2</sup> C-71	Quantitative Analysis .....	(2-8)	4
PE-51	Men's Physical Activity .....	(0-2)	1
			17
Second Semester		Hours	Credits
E-52	Advanced Surveying .....	(2-3)	3
E-62	Speech .....	(2-0)	2
<sup>1</sup> SS-56	Principles of Economics .....	(3-0)	3
<sup>2</sup> C-72	Quantitative Analysis .....	(2-8)	4
PE-52	Men's Physical Activity .....	(0-2)	1
	Electives .....		3
			16
			71 or 72

\*Required of all students who do not make a passing grade in the Reading Orientation Examination.

<sup>1</sup>Government may be substituted for Principles of Economics.

<sup>2</sup>The Physical Sciences may be substituted for Quantitative Analysis.

## TERMINAL HOME ECONOMICS

This two-year course is designed to provide the future home-maker 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.

### FRESHMAN YEAR

First Semester			
		Hours	Credits
*EL-1	Remedial Reading .....	(2-0)	1
EL-3	English Composition .....	(3-0)	3
HE-1	Introduction to Home Economics .....	(1-0)	1
HE-01	Elementary Foods .....	(0-6)	3
HE-7	Elementary Textiles .....	(1-4)	3
Ed-1	College Adjustment .....	(1-0)	1
SS-67	Introduction to Sociology .....	(3-0)	3
PE-39	Women's Physical Activity .....	(0-2)	1
			15 or 16
Second Semester			
		Hours	Credits
EL-4	English Composition .....	(3-0)	3
HE-02	Meal Planning .....	(0-6)	3
HE-8	Clothing and Construction .....	(2-3)	3
HE-08	Infant and Child Care .....	(2-2)	3
SS-68	Introduction to Sociology .....	(3-0)	3
PE-40	Women's Physical Activity .....	(0-2)	1
			16

### SOPHOMORE YEAR

First Semester			
		Hours	Credits
HE-71	House Planning .....	(2-2)	3
HE-61	Effective Home Management .....	(2-0)	2
HE-05	Food Preservation .....	(0-4)	2
Ed-53	General Psychology .....	(3-0)	3
EL-61	Speech .....	(2-0)	2
PE-89	Women's Physical Activity .....	(0-2)	1
	Electives .....		4
			17
Second Semester			
		Hours	Credits
HE-72	Interior Decoration .....	(2-2)	3
HE-61	Household Equipment .....	(1-2)	2
Ed-54	Personality & Social Adjustment .....	(3-0)	3
EL-62	Speech .....	(2-0)	2
PE-24	First Aid .....	(2-0)	2
PE-90	Women's Physical Activity .....	(0-2)	1
	Electives .....		4
			17
			65 or 66

\*Required of all students who do not make a passing grade in the Reading Orientation Examination.





**Mascot and Cheerleaders**



**Empire Conference and Regional Champions, N.J.C.A.A.—1954**





**Action on The Court**



**Aggies vs. Pueblo Junior College**



## DESCRIPTION OF COURSES

### AGRICULTURE

- Ag-1 CROP PRODUCTION** I (2-2)3  
A study of the principles of field crop production with special emphasis on cultural practices and botanical characteristics of crops grown throughout Colorado and the inter-mountain states.
- Ag-11 INTRODUCTORY ANIMAL HUSBANDRY** I (3-2)4  
A study of commercial domestic livestock which includes cattle, sheep, horse, swine. This study is made on both the purebred and market classification.
- Ag-16 ELEMENTS OF DAIRYING** II (1-2)2  
An introduction to the dairy industry. A brief study of the history and development of the industry, the composition properties, and food value of milk. An introduction to the development and manufacturing of dairy products.
- Ag-31 FARM CARPENTRY** I (1-3)2  
Fundamental use, operation, and care of working tools and equipment.
- Ag-35 ACETYLENE WELDING** I, II (1-3)2  
This course involves the fundamental uses and methods of operating oxacetylene welding equipment.
- Ag-36 ARC WELDING** I, II (1-3)2  
The course offered in arc welding offers practical experience in the fundamental operation of electric welding equipment.
- Ag-40 FARM MACHINERY** II (2-3)3  
A theory, demonstration, and maintenance course which includes repair, operation, adjustment, and care of farm machinery.
- Ag-45 HANDICRAFT** I (1-3)2  
Basic processes of handicraft including wood turning, plastics, etc. Basic instructions on the use of hand and power tools.
- Ag-54 GENERAL HORTICULTURE** II (2-2)3  
A general course covering the principles underlying the propagation, improvement, and marketing of horticultural crops.  
Prerequisite: Botany.

**Ag-60 SOILS** **II (3-2)4**

A basic course dealing with the formation, properties, and management of soils with special attention given to soil conditions that affect moisture relations and elementary fertility analysis.

Prerequisite: Year of college chemistry or permission of instructor.

**Ag-64 IRRIGATION PRACTICE** **II (1-2)2**

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

**Ag-68 LIVESTOCK JUDGING** **II (0-3)1**

Selection and judging of market and breeding classes of livestock.

**Ag-74 FEEDS AND FEEDING** **II (2-2)3**

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

Prerequisite: Ag-11

**Ag-80 GENERAL POULTRY** **I (2-2)3**

A general course dealing with the elementary principles of the feeding, breeding, incubation, rearing, housing, and management of farm poultry.

**Terminal Agriculture****Ag-01 FARM AND RANCH MANAGEMENT** **I (3-0)3**

Size of farm, type and rates of production, combination of enterprises, labor and machinery efficiency are considered.

**Ag-03 RANCH PRACTICES** **I (1-3)2**

This course is designed to give students having no agricultural background actual experience in handling stock and agricultural equipment. A practical introduction to other agricultural activities.

**Ag-04 RANCH PRACTICES** **II (1-3)2**

A continuation of Ag-03.

**Ag-07 ARITHMETIC IN AGRICULTURE** **I (2-0)2**

A review of the principles of arithmetic with special emphasis on practical agricultural problems.

**Ag-08 AGRICULTURAL SEMINAR** **II (1-3)2**

Students study selected problems with emphasis on a local situation.

## BIOLOGICAL SCIENCE

- BS-3 GENERAL BIOLOGY** I (3-3)4  
The basic principles of the science of living matter; metabolism, irritability, and reproduction of higher animals and higher plants. Credit for BS-3 suspended until student completes BS-4.
- BS-4 GENERAL BIOLOGY** II (3-3)4  
Heredity; brief survey of animal and plant kingdoms; ecology; evolution.  
Prerequisite: BS-3
- BS-9 INTRODUCTION TO ZOOLOGY** I (3-3)4  
A study of the principles of zoology with reference to man. Demonstration and laboratory work are used to illustrate these principles.
- BS-21 GENERAL BOTANY** I (3-3)4  
A study of the structure, function, and development of higher plants.
- BS-22 GENERAL BOTANY** II (2-3)3  
The development of plants from simple to complex forms.  
Prerequisite: BS-21
- BS-36 PRINCIPLES OF CONSERVATION** II (2-0)2  
A survey of the forest, range, wildlife, and other natural resources; policies and programs adopted for their protection and utilization. Open to all students.
- BS-51 APPLIED ENTOMOLOGY** I (2-3)3  
Elementary anatomy and physiology of insects; the life histories, habits, and control recommendations for the more important insect pests.  
Prerequisite: BS-3 or concurrently.
- BS-66 HUMAN ANATOMY AND PHYSIOLOGY** II (3-3)4  
A lecture and demonstration course in the structure and function of the human body.  
Prerequisite: BS-4, College Chemistry recommended.
- BS-75 GENERAL BACTERIOLOGY** I (2-3)3  
An elementary study of bacteria with emphasis upon their role in everyday life.  
Prerequisites: C-1, C-2, BS-3 recommended.

**BUSINESS**

- B-1 INTRODUCTION TO BUSINESS** I (3-0)3  
A survey of business principles, problems, practices, and procedures. Provides a background for the more specialized business courses that follow—accounting, economics, marketing, finance and law. Furnishes the student with a vocabulary of business terms.
- B-7 ELEMENTARY TYPEWRITING** I (1-3)2  
A beginning course in typewriting. Speed and accuracy in the operation of the typewriter by the touch system; business letters. Students who have had one year of typewriting in high school may not take this course for credit.
- B-8 ADVANCED TYPEWRITING** II (1-3)2  
Advanced production typewriting, business letters, manuscripts, bibliographies, stencils, and masters.  
Prerequisite: B-7, or 2 years of High School Typewriting.
- B-11 STENOGRAPHY I** I (3-0)3  
This course comprises a study of the basic principles of Gregg Shorthand, dictation, and the building of speed. Students who have had one year of shorthand in high school may not take this course for credit.
- B-12 STENOGRAPHY II** II (3-0)3  
Shorthand speed building; vocabulary building, and typewritten transcription.  
Prerequisite: B-11
- B-21 PRINCIPLES OF ACCOUNTING** I (3-2)4  
A study of the fundamentals and principles of accounting applicable to business ownership with emphasis on the single proprietorship type business.  
Prerequisite: High School Bookkeeping is desirable.
- B-22 PRINCIPLES OF ACCOUNTING** II (3-2)4  
A continuation of B-21, with emphasis on accounting for partnerships and corporations. Practice Set.  
Prerequisite: B-21
- B-51 INTERMEDIATE ACCOUNTING** I (3-0)3  
Preparation of statements for corporation, trading and manufacturing concerns, a study of problems of valuation.  
Prerequisite: B-22
- B-54 ELEMENTARY COST ACCOUNTING** II (3-0)3  
A study of process and job order cost accounting with some attention to standard and distribution costs.  
Prerequisite: B-22
- B-58 PAYROLL ACCOUNTING** II (1-2)2  
Principles of accounting applied to payroll. A study of the laws that apply to payroll.  
Prerequisite: B-21

**Terminal Courses**

- B-01 INTRODUCTION TO INSURANCE** I (3-0)3  
Designed to familiarize students with the nature, uses, and importance of life insurance in everyday living, and not merely to aid in training life insurance salesmen. A consideration of the classification and nature of policies, types of companies, measurement of risks, mortality tables, settlement options, reserves, annuities, premiums, group insurance, and similar subjects.

- B-04 INCOME TAX ACCOUNTING** II (3-0)3  
A study of the provisions of federal income tax laws and the regulations affecting the determination of net taxable income, and the preparations of tax returns for individuals, and corporations.  
Prerequisite: B-21
- B-05 BUSINESS LAW** I (3-0)3  
Introduction to the study of business law followed by specific study in the subjects of creditors' powers, business torts, and contracts. Materials used in this course consist of text, cases, statutes and business forms. These materials include the materials used in the subsequent business law courses in this series.
- B-06 BUSINESS LAW** II (3-0)3  
Study of text, cases, and statutes in the subjects of agency, bailments, sales and negotiable instruments.  
Prerequisite: B-05
- B-08 BUSINESS COMMUNICATIONS** II (3-0)3  
Analysis and writing of business letters including sales, credit, collection, adjustment, service, etc. Principles of report writing as applied to the types of reports commonly required in business.  
Prerequisite: EL-2, B-7
- B-09 BUSINESS MATHEMATICS** I (3-0)3  
A course designed to meet the minimum needs of the students of business. Fundamental processes and their application to business situations are studied.
- B-011 OFFICE PRACTICE** I (3-0)3  
The emphasis in this course is on the functions of the office and office organization; work in the office, office layout, equipment, supplies, and forms, personnel problems in the office.  
Prerequisite: B-11
- B-012 OFFICE PRACTICE** II (3-0)3  
Continuation of B-011  
Prerequisite: B-011
- B-017 INTRODUCTION TO ADVERTISING** I (3-0)3  
Theory and functions of advertising, copy, media, and techniques of presentation.

### CHEMISTRY

- C-1 GENERAL CHEMISTRY** I (3-0)3  
A basic course in the fundamentals and principles of chemistry, including the composition of matter, chemical change, fundamentals of atomic structure, gas laws, chemical reactions, and calculations. Must be accompanied by C-3L or C-5L.  
Prerequisite: High School Algebra or consent of instructor.
- C-3L GENERAL CHEMISTRY LABORATORY** I (0-6)2  
A course designed to give the student background and experience in basic laboratory techniques and in observation. Experiments performed will include simple measurements, characteristic chemical reactions, simple molecular weight determination, oxidation-reduction reactions, etc. This course is intended to meet the requirements of chemistry majors, engineering, and professional students. Must be accompanied by C-1.

**C-5L CHEMISTRY LABORATORY I (0-3)1**

Fulfills the requirements of home economics, pre-nursing, agricultural majors, and liberal arts students. Selected experiments will be performed to emphasize certain basic scientific principles and to introduce the student to scientific laboratory techniques, observations, skills, and calculations. Not open to chemistry majors, engineering or pre-professional students other than pre-nursing. Must be accompanied by C-1.

**C-2 GENERAL CHEMISTRY II (3-0)3**

A continuation of C-1. The chemistry of the metals, and the theories and techniques of inorganic qualitative analysis are studied. Considerable emphasis is placed upon the relationship between atomic structure and the properties of matter. A brief introduction to organic chemistry is included. This course must be accompanied by C-4L or C-6L.

**C-4L GENERAL CHEMISTRY LABORATORY II (0-6)2**

A continuation of C-3L. Experiments will be performed to provide the student with further useful concepts. About two-thirds of the laboratory time will be spent on the practice of inorganic qualitative analysis. This course is intended to meet the chemistry laboratory requirements for students majoring in chemistry and engineering, or pre-professional students.  
Prerequisites: C-1, C-3L.

**C-6L CHEMISTRY LABORATORY II (0-3)1**

A continuation of C-5L intended to help the student further develop his chemical laboratory experience, techniques, skills, and observations. About one-fourth of the time will be spent on inorganic qualitative analysis.

This course is not open to students majoring in chemistry or engineering nor pre-professional except pre-nursing. Must be accompanied by C-2.

Prerequisites: C-1, C-3L or C-5L.

**C-64 BASIC ORGANIC CHEMISTRY II (3-6)5**

Lecture and laboratory. A brief survey of the fields of organic and biochemistry. Typical classes and reactions of organic compounds are studied; these are followed by a summary of biochemistry to include fats, sugars, proteins, digestion of food, natural products, etc. This course is intended to fulfill the requirements of all students not majoring in chemistry who do not wish to take a full year of organic chemistry.

Prerequisite: C-2, and C-4L or C-6L

**C-65 ORGANIC CHEMISTRY II (3-6)5**

Lecture and laboratory. A study of the preparation and properties of the simpler aliphatic and aromatic mono-functional and polyfunctional compounds. The theories involved and proof of the composition of many of the compounds are considered.

Prerequisite: C-2, C-4L or consent of instructor.

**C-66 ORGANIC CHEMISTRY II (3-6)5**

Lecture and Laboratory. A continuation of C-65. The more complex polyfunctional aliphatic and aromatic compounds are studied including substances of biological or technical importance and some heterocyclic compounds.

Prerequisite: C-65



**C-71 QUANTITATIVE ANALYSIS I (2-8)4**

Lecture and laboratory. A survey of volumetric and gravimetric analysis including theory and calculations. This course alone will meet the analytical chemistry requirements of pre-medical, pre-dental, pre-veterinary, medical technology, or of other students not majoring in chemistry.

Prerequisites: C-2, C-6L, or C-4L.

**C-72 QUANTITATIVE ANALYSIS II (2-8)4**

A continuation of C-71 including volumetric and gravimetric precipitations, properties of precipitates, organic precipitants and electrolytic methods of analysis.

This course together with C-71 fulfills the analytical chemistry requirements of chemistry majors and others desiring a full year of analytical chemistry.

Prerequisite: C-71

**EDUCATION****Ed-1 COLLEGE ADJUSTMENT I (1-0)1**

An orientation program required of all freshmen, as well as transfer students who have not had an equivalent course.

Consists of a series of lectures designed to acquaint students with personal adjustment to college life.

**Ed-53 GENERAL PSYCHOLOGY I (3-0)3**

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

**Ed-54 PERSONALITY AND SOCIAL ADJUSTMENT II (3-0)3**

Includes individual emotional adjustments and the various phases of inter-relationships between the individual and the group.

Prerequisite: Ed-53

**Ed-62 EDUCATIONAL PSYCHOLOGY II (3-0)3**

The phases of psychology relating to the problems of teaching, with emphasis on growth, intelligence, individual differences, motivation, learning, heredity, and environment.

Prerequisite: Ed-53

**Ed-66 CHILD PSYCHOLOGY II (2-0)2**

A study of the growth, adjustment, and abilities of children (from birth through elementary grades). Emphasis is placed upon guiding the development of normal children.

Prerequisite: Ed-53

**Ed-75 INTRODUCTION TO ELEMENTARY EDUCATION I (3-0)3**

An introductory course dealing with the principles and facts underlying educational activities, 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.

**Ed-80 SCHOOL MANAGEMENT II (2-0)2**

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.

## ENGINEERING

- E-1 MECHANICAL DRAWING** **I (1-6)3**  
Care and use of instruments, applied geometry, isometric and orthographic projections, auxiliary projections, pictorial representations and perspectives, with special emphasis on lettering.
- E-2 DESCRIPTIVE GEOMETRY** **II (1-6)3**  
The graphical representations of points, lines, and geometrical magnitudes in space.  
Prerequisite: E-1
- E-51 ELEMENTARY SURVEYING** **I (2-3)3**  
Care and use of surveying instruments. Solutions of surveying problems, plane surveying methods of measuring distances, angles and elevations.  
Prerequisite: M-11 or M-21, M-22
- E-52 ADVANCED SURVEYING** **II (2-3)3**  
Geodetic surveying method, astronomical observations, topographic surveys. Hydrographic surveys used in irrigation and drainage. Field practices in these branches.  
Prerequisite: E-51
- E-56 BASIC MAPPING**  
Fundamentals of forest mapping, use of staff compass, abney hand level, and other specialized equipment.  
Prerequisite: E-51
- E-61 ENGINEERING PROBLEMS SOLUTION** **I (0-4)2**  
Formal and computational solution of problems in engineering.  
Prerequisite: M-21, M-22
- E-64 APPLIED MECHANICS (STATICS)** **II (3-0)3**  
Co-planar, non-co-planar, concurrent and non-concurrent force systems.  
Centroids and moments of inertia.  
Prerequisite: M-21, M-22, Ph-53
- E-70 MECHANISM** **II (2-3)3**  
Elements of machinery: motion-transmitting parts such as gears, belts, link work, etc. Including three hours laboratory per week.  
Prerequisite: E-2 or permission of instructor.

## ENGLISH LANGUAGE AND LITERATURE

- EL-1 REMEDIAL READING** **I (2-0)1**  
A course designed to meet the needs of the student who has shown marked deficiencies in the Reading Orientation Examination required of all entering freshmen.
- EL-3 ENGLISH COMPOSITION** **I (3-0)3**  
Required of freshmen. Practice in both written and oral composition. The course is designed to develop correct language habits and to train the student in logical thought and effective expression. A comprehensive spelling test must be passed to achieve complete credit in the course.
- EL-4 ENGLISH COMPOSITION** **II (3-0)3**  
Required of freshmen. A continuation of EL-3. This course also trains the student in collecting, organizing, and presenting material in larger units of composition. Another comprehensive spelling test must be passed to achieve full credit in the course.

- EL-12 VOCABULARY BUILDING** II (2-0)2  
A study of words, with the object of increasing the vocabulary and gaining more accurate meanings for less common words.
- EL-21 INTRODUCTION TO LITERATURE** I (3-0)3  
Reading and analysis of short stories, novels, and non-fiction prose.
- EL-22 INTRODUCTION TO LITERATURE** II (3-0)3  
Reading and analysis of poems and plays.
- EL-55 BIOGRAPHY** I (2-0)2  
Lives of great men, ancient and modern, analyzed as literature and patterns of living.
- EL-61 SPEECH** I (2-0)2  
A general introductory course in public speaking planned to give fundamental theory and practice in speech preparation and delivery.
- EL-62 SPEECH** II (2-0)2  
A continuation of EL-61 with special emphasis on persuasion and parliamentary speaking.  
Prerequisite: EL-61 or equivalent.
- EL-69 SURVEY OF ENGLISH LITERATURE** I (3-0)3  
Chronological study of the greater figures and forces in the main stream of English Literature from the beginning to 1800.
- EL-70 SURVEY OF ENGLISH LITERATURE** II (3-0)3  
Continuation of EL-69
- EL-75 RADIO PRODUCTION** I (1-2)2  
A general introductory course. Training in microphone technique, tape recordings, and radio speaking. Experience is gained in stand-ard radio station procedures.
- EL-76 RADIO PRODUCTION** II (1-2)2  
A continuation of EL-75 Activities include radio acting, writing, and directing. Student management of productions is encouraged.
- HOME ECONOMICS**
- HE-1 INTRODUCTION TO HOME ECONOMICS** I (1-0)1  
An introductory survey of the home economics field as a major course of study in college and as a possibility for future employment.
- HE-7 ELEMENTARY TEXTILES** I (1-4)3  
Application of art and economic principles to the selection and construction of textiles and clothing.
- HE-8 CLOTHING AND CONSTRUCTION** II (2-3)3  
Fundamental construction processes applied to the making of clothing by the study of fashions, style trends, great fashion designers. The study of the use of the commercial pattern.
- HE-52 HOUSEHOLD EQUIPMENT** II (1-2)2  
Selection and care of mechanical equipment for the home based upon the latest scientific applications.

- HE-61 EFFECTIVE HOME MANAGEMENT** I (2-0)2  
Time, energy, and money management. Family finance, budget-making, meal planning, short cuts in the home.
- HE-71 HOUSE PLANNING** I (2-2)3  
Types of home plans, material, construction practices. Floor plans based on the needs and desires of the family.
- HE-72 INTERIOR DECORATION** II (2-2)3  
Basic course in decorating and furnishings of a home. The making of draperies, slip covers, upholstering, and curtains. The use of color and the effect it has on the house and the people who live in it. Prerequisite: HE-71

#### Terminal Courses

- HE-01 ELEMENTARY FOODS** I (0-6)3  
Emphasis on fundamental processes of cooking and marketing. Training in the preparation of simple meals and party refreshments.
- HE-02 MEAL PLANNING** II (0-6)3  
Provides more practice in individual and group work in planning, preparing and serving meals. Solving the problems of hostess in serving food on various occasions in the modern American home. Prerequisite: HE-01
- HE-05 FOOD PRESERVATION** I (0-4)2  
Traditional methods of canning and preserving. Emphasis on modern principles of quick-freezing and the uses and techniques of the pressure cooker. Laboratory activities.
- HE-08 INFANT AND CHILD CARE** II (2-2)3  
A study of the growth pattern from conception through infancy and the third year of life. Prenatal and postnatal factors which influence early development. The responsibilities of adults for providing a favorable home environment. Emphasis upon guidance and provision for care.

#### FOREIGN LANGUAGES

Note: Students having high school credit for two years of foreign language may not take the first year of the same language in college for credit. German and Spanish are offered during alternate years beginning with German in 1955-56.

- FL-5 FIRST YEAR SPANISH** I (5-0)5  
A course in grammar, prose composition, reading, and conversation.
- FL-6 FIRST YEAR SPANISH** II (5-0)5  
Further study of Spanish grammar with emphasis on reading, composition and conversation. Prerequisite: FL-5.
- FL-15 FIRST YEAR GERMAN** I (5-0)5  
A course in grammar, pronunciation, and reading.
- FL-16 FIRST YEAR GERMAN** II (5-0)5  
Continuation of FL-15. Prerequisite: FL-15

- FL-55 SECOND YEAR SPANISH** I (3-0)3  
A course in second-year Spanish with emphasis on reading and conversation.  
Prerequisite: FL-6.
- FL-56 SECOND YEAR SPANISH** II (3-0)3  
Continuation of FL-55.  
Prerequisite: FL-55.
- FL-65 SECOND YEAR GERMAN** I (3-0)3  
A continuation of FL-16 with emphasis on reading and conversation.  
Prerequisite: FL-16
- FL-66 SECOND YEAR GERMAN** II (3-0)3  
A continuation of FL-65.  
Prerequisite: FL-65.

**GEOLOGY**

- G-9 INTRODUCTION TO GEOLOGY** I, II (3-0)3  
This course deals with the Earth and its geographic, stratigraphic, and structural development throughout geologic time, and the record of the evolution of life as interpreted through a study of rocks and fossils. This course is offered only by extension and is contingent upon the demand.
- G-11 GENERAL GEOLOGY** I (3-3)4  
A general introduction to physical and historical geology. For students majoring or minoring in geology, and for other students who wish to have a total of eight hours in introductory geology.
- G-12 GENERAL GEOLOGY** II (3-3)4  
Continuation of G-11  
Prerequisite: G-11
- G-51 MINERALOGY** I (3-3)4  
A comprehensive course in the fields of mineralogy. The student is introduced to the more important fields of mineralogy, including crystallography, systematic mineralogy, chemical and physical mineralogy. Lectures are supplemented by laboratory determination of minerals by physical and chemical tests, and by study of collections.  
Prerequisite: General Geology and General Chemistry, one of which may be taken concurrently by permission of instructor.

**MATHEMATICS**

- M-03 REFRESHER ALGEBRA** I (3-0)0  
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-2 SLIDE RULE** II (2-0)1  
Open to all students of the college. Instruction in the basic principles and use of the slide rule.
- M-4 SOLID GEOMETRY** II (2-0)2  
A study of the properties and theorems pertaining to solids and their application. No credit allowed those students who have had high school solid geometry.  
Prerequisite: High School Plane Geometry.

- M-11 INTERMEDIATE ALGEBRA** **I (3-0)3**  
 Review of elementary algebra, linear and quadratic equations, variation, linear systems, exponents, functions and graphs, logarithms, and some statistics.  
 Prerequisite: 1 year High School Algebra or M-03
- M-12 TRIGONOMETRY** **II (3-0)3**  
 Trigonometric functions of acute angles, trigonometric functions of the general angle, review of logarithms, solutions of right and oblique triangles, trigonometric functions of two angles, reduction formulas, trigonometric equations.  
 Prerequisite: M-11
- M-21 COLLEGE MATHEMATICS I** **I (5-0)5**  
 A course designed for engineering students, mathematics and science majors.  
 Coordinates and loci, functions and graphs, linear equations and systems, variation, quadratic equations and systems, locus of an equation, binomial theorem, logarithms, theory of equations, radian measure, angles, trigonometric functions, and solving right triangles.  
 Prerequisite: 1½ units of high school algebra, 1 unit plane geometry.
- M-22 COLLEGE MATHEMATICS II** **II (5-0)5**  
 Properties of trigonometric functions, fundamental relations, trigonometric identities and equations, functions of two angles, solution of oblique triangles, inverse trigonometric functions, polar coordinates, complex numbers. The straight line; locus problems, transformation of coordinates, the circle, tangents, conic sections, coordinates, distances, directions, equations, and loci of space.  
 Prerequisite: M-21
- M-57 DIFFERENTIAL CALCULUS** **I (5-0)5**  
 Variables and functions, theory of limits, derivative, differentiation of algebraic functions and applications, the inverse of differentiation, differentiation of transcendental functions, and law of the mean.  
 Prerequisites: M-21, M-22.
- M-58 INTEGRAL CALCULUS** **II (5-0)5**  
 The definite integral, techniques of integration, geometrical applications of definite integrals. Further applications of differentials, limits, physical applications of definite integrals, infinite series, partial differentiation, curves and surfaces in space, double integrals.  
 Prerequisite: M-57

## MUSIC

### Theory

- Mu-1 FUNDAMENTAL THEORY** **I (4-0)3**  
 An integrated course in music fundamentals, theory, ear training, sight singing, and keyboard.
- Mu-2 FUNDAMENTAL THEORY** **II (4-0)3**  
 A continuation of Mu-1 including traditional tertian harmony, both written and keyboard. Four part writing using primary and secondary triads, dominant seventh chords and their inversions.  
 Prerequisite: Mu-1

**Mu-51 ADVANCED THEORY** I (4-0)4  
A continuation of Mu-2 including secondary sevenths, sequences modulation to relative tonalities, and non-essential tones.  
Prerequisite: Mu-2

**Mu-52 ADVANCED THEORY** II (4-0)4  
A continuation of Mu-51 with further expansion of the chordal material.  
Prerequisite: Mu-51

#### Literature and History

**Mu-15 INTRODUCTION TO MUSICAL LITERATURE** I (2-0)2  
A survey course designed to acquaint the student with the masterpieces of musical literature, principles of musical form and style.

**Mu-16 INTRODUCTION TO MUSICAL LITERATURE** II (2-0)2  
A continuation of Mu-15.

**Mu-61 HISTORY OF MUSIC** I (2-0)2  
A study of the development of music from its earliest beginnings through the age of Bach and Handel.

**Mu-62 HISTORY OF MUSIC** II (2-0)2  
New styles: the rise of opera, the age of Haydn and Mozart, the romantic and post-romantic periods, and the twentieth century.

#### Music Education

**Mu-7 STRING INSTRUMENTS** I (0-3)1  
Class lessons in a playing knowledge of all string instruments.

**Mu-8 BRASS AND PERCUSSION INSTRUMENTS** II (0-2)1  
Class lessons in a playing knowledge of all brass and percussion instruments.

**Mu-9 WOODWIND INSTRUMENTS** I (0-2)1  
Class lessons in a playing knowledge of woodwind instruments.

#### Ensembles

**Mu-21, 22, 71, 72 BAND** I, II (0-3)1  
Open to all students who are proficient in playing a band instrument. Attendance at all public performances is required.

**Mu-27, 28, 77, 78, CHORUS** I, II (0-3)1  
Open to all students who can and wish to sing. Attendance at all public performances is required.

#### Applied Music (Private Lessons)

Private lessons are given in piano and cello. These lessons are available to all students at any level of instruction. They may be taken with or without credit.

**Mu-37, 38, 81, 82 PIANO OR CELLO** I, II (½-0)1  
A half-hour private lesson per week in piano or cello. Open to all students.  
Special fee \$22.50 per semester.

**Mu-39, 40, 83, 84 PIANO OR CELLO** I, II (1-0)3  
A one hour private lesson per week in piano or cello. Open to all students, but designed primarily for the music major.  
Special fee \$37.50 per semester.

**PHYSICAL EDUCATION, HEALTH, AND RECREATION**

- PE-1 MEN'S PHYSICAL ACTIVITY** **I (0-2)1**  
 A course designed to promote physical fitness through such activities as volley ball, basketball, tennis, softball, and recreational games.
- PE-2 MEN'S PHYSICAL ACTIVITY** **II (0-2)1**  
 A continuation of PE-1
- PE-11 HISTORY & PRINCIPLES OF PHYSICAL EDUCATION I** **(2-0)2**  
 Preparation for majors in physical education, giving historical background and a general survey of physical education, health, recreation.
- PE-18 PERSONAL LIVING** **II (3-0)3**  
 A study of the maintenance and improvement of health.
- PE-24 FIRST AID** **II (2-0)2**  
 Instruction in first aid techniques leading to the Standard Red Cross Certificates and to the Advanced Certificate for qualified students.
- PE-39 WOMEN'S PHYSICAL ACTIVITY** **I (0-2)1**  
 Softball, soccer, volleyball, basketball, and physical fitness exercises.
- PE-40 WOMEN'S PHYSICAL ACTIVITY** **II (0-2)1**  
 Folk dancing, badminton, archery, tennis, winter sports, and physical fitness exercises.
- PE-51 MEN'S PHYSICAL ACTIVITY** **I (0-2)1**  
 A continuation of PE-2 with an added emphasis on skill in sports and carry-over activities.
- PE-52 MEN'S PHYSICAL ACTIVITY** **II (0-2)1**  
 A continuation of PE-51.
- PE-65 PRINCIPLES OF RECREATION** **I (2-0)2**  
 Course designed to study the philosophy, basis, needs, interests, and worthy use of leisure time in the individual and community phases of recreation.
- PE-69 COACHING OF FOOTBALL** **I (2-0)2**  
 Theory and practice of coaching; strategy and tactics; study of the different offenses and defenses; ethics and sportsmanship.
- PE-74 OFFICIATING SPORTS** **II (2-0)2**  
 Discussion and practice of officiating techniques in football, basketball, baseball, wrestling, and track and field.
- PE-78 COACHING OF BASKETBALL** **II (2-0)2**  
 Theory and practice of coaching; strategy and tactics; study of the different offenses and defenses; ethics and sportsmanship.
- PE-89 WOMEN'S PHYSICAL ACTIVITY** **I (0-2)1**  
 A continuation of PE-40
- PE-90 WOMEN'S PHYSICAL ACTIVITY** **II (0-2)1**  
 A continuation of PE-89



**PHYSICS**

- Ph-5 THE PHYSICAL SCIENCES** I (3-2)4  
A course designed to give a broad understanding of the field of the physical sciences. Designed to fulfill the physical science requirements for curricula other than science majors and engineers. Covers in a broad correlated manner the fields of physics, meteorology, geology, chemistry, and astronomy.
- Ph-6 THE PHYSICAL SCIENCES** II (3-2)4  
A continuation of Ph-5  
Prerequisite: Ph-5
- Ph-53 GENERAL PHYSICS** I (3-4)5  
A course forming the basis for studies in applied science and engineering. Covers the fundamental principles of mechanics, heat, and sound.  
Prerequisite: M-21, M-22 or M-11, M-12
- Ph-54 GENERAL PHYSICS** II (3-4)5  
A continuation of Ph-53. Covers the fundamental principles of light, magnetism, electricity, and modern physics.  
Prerequisite: Ph-53

**SOCIAL STUDIES**

- SS-7 UNITED STATES HISTORY** I (3-0)3  
A study of the origin and development of the United States from the discovery of America to the Civil War.
- SS-8 UNITED STATES HISTORY** II (3-0)3  
History of the United States from the Civil War to the present, and the development of the nation as a world power.
- SS-17 AMERICAN GOVERNMENT** I (3-0)3  
The fundamental principles upon which the American Government is founded; the organization of, and services rendered by, the national government, together with current political problems.
- SS-18 STATE AND LOCAL GOVERNMENT** II (3-0)3  
A study of the nature, organization, and operation of state and local governments in the United States.
- SS-55 PRINCIPLES OF ECONOMICS** I (3-0)3  
A study of the fundamental principles of economics with emphasis upon special problems in the field. Gives those not intending to specialize in the subject an outline of the general principles of economics. Not open to freshmen.
- SS-56 PRINCIPLES OF ECONOMICS** II (3-0)3  
Continuation of SS-55  
Prerequisite: SS-55
- SS-67 INTRODUCTION TO SOCIOLOGY** I (3-0)3  
Nature and dynamics of human society, the major social institutions, the various environments conditioning society, such as the geographical and cultural, and the factors and forces producing social changes.
- SS-68 INTRODUCTION TO SOCIOLOGY** II (3-0)3  
Continuation of SS-67

