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COLLEGE CALENDAR
1950 - 1951

FIRST SEMESTER

1950
September 11, Monday—Instruction begins
November 23, 24, Thursday; Friday—Thanksgiving recess
December 18, 1950, to January 2, 1951—Christmas recess

1951
January 26—End of first semester

SECOND SEMESTER

January 29, Monday—Instruction begins
February 12, Monday—Lincoln’s birthday, Holiday
February 22, Thursday—Washington’s birthday, Holiday
March 26 to 30—Spring recess
May 30, Wednesday—Memorial Day, Holiday
June 6—Commencement exercises

DIRECTORY

RIVERSIDE COLLEGE — RIVERSIDE, CALIFORNIA
3608 Terracina Drive—Telephone 4310

NORTH CORRIDOR:
West of Terracina archway
Administration Offices
  President
  Registrar and Assistant to President
  Dean of Women
  Secretary to the President
  Veterans Information
  Auditorium
East of Terracina archway
  Guidance and counseling offices
    Dean of the Faculty
    Head Counselor
    Director of Physical Education Department
    Secretary to Counseling Staff
    Guidance Office
  Library
    Office—Librarian, Assistant Librarian
    Reference and reading room

SOUTH CORRIDOR:
  Home Economics Department
  Commercial Department
  Music Department

EAST CORRIDOR:
  Office of Adult Division—Room 117
    Director of Adult Education
    Secretary to the Director
    Women’s Lounge—Room 116

WEST CORRIDOR:
  Auditorium stage
  Cosmetology Department—Room 220

Aeronautics Building—Terracina Drive at Saunders Street
Auditor’s Office—3580 Terracina Drive
Household Arts and Science Building—Riverside Avenue
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Rooms are numbered consecutively beginning at the archway turning east.

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ADMISSION TO THE COLLEGE

Effective from the beginning of the school year, 1950-51, Riverside College will be on the Semester Basis. Since 1923 this College has operated on the Quarter Plan but, for a number of reasons, it seemed wise for us to adopt the Semester Basis.

ADMISSION TO THE COLLEGE

IN FIRST-YEAR STANDING

Admission to the College in first-year standing may be granted to the applicant who is a certified graduate of a high school.

Admission requirements include: (1) written application on the form provided by the College; (2) complete official transcript of the applicant's high school record, including honorable dismissal from the school last attended.

The application for admission may be submitted either in person or by mail. The transcript of record is sent to the Registrar, on request of the applicant, by the principal of the high school from which transfer is made. If so desired, both application and transcript may be sent by the principal. To afford ample time for evaluation of credits and to insure against delay at time of registration, all credentials should be filed as soon as possible after graduation. Admission may be granted provisionally to the student whose application without credentials is received on or after the appointed registration days in the Fall or Spring Semester, but matriculation will be officially recognized as completed only when all credentials have been received and accepted.

IN ADVANCE STANDING

Admission in advanced standing may be granted to the student transferring from an institution of collegiate rank. Written application on the form provided and official transcripts of all high school and college work previously undertaken, including honorable dismissal from the institution last attended, are required.

SPECIAL STUDENTS

Riverside College accepts special students under two classifications: (1) An individual who is not a graduate of high school but is 18 years of age may enroll in the College, (2) An individual who wishes to enroll for fewer than 10 units.

AUDITORS

By special permission, students may attend, as auditors, certain lecture or recitation classes in which they are not actively enrolled. Admission cards may be obtained at the Registrar's Office.

Auditors do not participate in class recitations or discussions; they do not submit material of any kind for reviews; they do not have laboratory privileges, nor do they receive any academic credit for the courses which they attend.
MATRICULATION

PRE-REGISTRATION TEST

The Thurstone Aptitude Test is given all students who apply for admission to the College in first-year standing. The purpose is not to determine what applicants shall be admitted, but to obtain information which will enable counselors to give the educational and vocational guidance best suited to each student's need. The test is therefore an integral part of registration procedure, and as such is required for full matriculation. The tests are given the first week of the Fall Semester.

REGISTRATION

On the appointed days at the beginning of each college year, all students are expected to present themselves at the College for registration.

Registration includes filling out the information card, the selection of a program of study, and payment of the student membership fee. Each student is assigned to a counselor (preferably in the field of the student's major interest), who will aid him in the selection of his course of study and give him advice at intervals throughout the year when social or academic problems arise. The student may occasionally be called into conference with the counselor, but it is hoped that the student himself will take the initiative and seek counsel whenever occasion requires.

The student body card issued to the student serves as a certificate of membership in the Associated Student Body. It includes a year's subscription to the Tiger Times and a copy of the Tequesquite, and the privilege of admission to all athletic contests of the College.

After the first week of instruction the student must obtain the written approval of each instructor in whose class he desires to enroll before proceeding with matriculation. Approval forms may be obtained at the Office.

After the second week of either the Fall or Spring Semester registration is closed except to those students who transfer directly from other colleges or universities.

No student will be permitted to enroll for a second semester until all his records are complete.

STUDY PROGRAM REGULATIONS

Official recognition is given only to those courses which have been approved by the counselor and Registrar and duly entered upon the program card.

All students should attempt to arrange their programs, so far as is possible, for a full year.

Physical Education or Military Science is required of all students. Exemption from Physical Education may be granted (1) to the student who is registered for eight, or fewer, units; (2) to the student who is 25 years of age or over.

No one may enroll for less than 10 units or more than 17 units (including physical education or military training) without permission from the Registrar. Students are cautioned against enrolling for more work than they can reasonably carry. For those who are in good health and able to devote the major part of their time to college study, the normal load is 16 units.

The student who has made an average grade of B for all work undertaken in any one semester may enroll for 18 units in the following semester. The student who has made an A grade in all work undertaken in any one semester may enroll for 19 units in the following semester.

In the College of Letters and Science at the University of California no undergraduate student in his first semester of residence may take more than 16 units of work in addition to physical education or military training. Again: "seventy (sem.) units is the maximum amount of credit which a student may count toward the bachelor's degree in the University for work completed in a junior college, regardless of the College of the University he wishes to enter." If, therefore, the study-list total of any junior college student transferring to the University exceeds the University study-list maximums for any semester, or the maximum amount of credit allowed for work completed in a two year college, such excess units will be deducted by the University. Riverside College, however, will recognize for graduation in its own curricula all units which have been approved officially by the Registrar's Office.

When a student is in doubt concerning his eligibility to enroll in any course, he should seek the written approval of the instructor concerned before making out his study-list.

The student who has received a mark of failure or who has attained less than a C average for all courses undertaken is restricted to 16 units (not including physical education or military training).

COURSES OPEN TO TRANSFER STUDENTS

Students transferring directly from other collegiate institutions during the year may enroll in such courses in the College as they are qualified to undertake.

*Offered provided enough students enroll.
CHANGE OF PROGRAM

Programs may be changed at any time within the first week of any semester; that is, a course or courses may be dropped, or others added provided that all changes are submitted to and approved by the Registrar.

During the second week of the Fall and Spring Semesters, a course or courses may be dropped as provided above, but no course may be added without the written approval of the instructor whose class the student desires to enter. Approval forms may be obtained at the Office.

At the end of the second week in the Fall and Spring Semesters, study programs are to be regarded as fixed. No course may be added thereafter. A course may be dropped by petition. Petition forms may be obtained at the Office.

A course discontinued for any cause after the eighth week of the semester remains upon the permanent record, the student receiving at the end of the semester whatever grade the work and circumstances warrant.

Courses are not considered officially dropped unless the office has been notified formally upon the forms provided. If a student discontinues a course without formal withdrawal he will automatically receive a grade of F.

GRADUATION

DEGREE OF ASSOCIATE IN ARTS

Riverside College is a two year institution.

The degree of Associate in Arts will be conferred upon the student duly accredited as a high school graduate who completes satisfactorily a two year curriculum of 60 semester units, 20 units of which must be taken in residence. A student must be in residence the quarter preceding his graduation, and satisfy the following specific requirements:

I. English 1.

II. Physical Education and Hygiene. The requirement is fulfilled by completing Physical Education (4 semesters) and one of the following: Bacteriology 1, Hygiene 1, Physiology 1.

III. American History and Institutions: a study of American history and the United States constitutional system and ideals. The requirement is fulfilled by completing one of the following:

1. History 3
2. History 6
3. Examination, without unit credit. On written approval of the Registrar, ONLY.

IV. A major of at least 20 semester units in one of the four groups of subjects:

Group 1. Natural science, or mathematics, or mechanical drawing, or any combination of these.

Group 2. English, or foreign language, or fine arts, or any combination of these.

Group 3. Social science, or philosophy, or psychology, or commerce, or secretarial science, or home economics, or any combination of these.

Group 4. Vocational Courses.

*A unit represents one hour of passing work for a semester term of eighteen weeks; it may stand for one hour of classroom work and two hours of preparation, for three hours of laboratory work, or for such distribution as the particular course may demand.
GRADUATION

No student will be required to undertake a curriculum leading to the degree of Associate in Arts, but only the student who completes such a curriculum will become a candidate for graduation.

The degree of Associate in Arts does not necessarily qualify the student for admission to the upper division of the University, (1) because the curriculum requirements established for graduation from Riverside, a two year college, are not identical with the lower division requirements of the University; (2) because the general scholarship average required for graduation from Riverside, a two year college, may be any passing grade, whereas a general scholarship average of C or better is required by the University in all work of college level undertaken.

OFFICIAL TRANSCRIPT AND COPY OF RECORD

In the interest of the student who desires to continue his studies elsewhere the College issues an official transcript. This is a duly certified record of all work completed or undertaken by the student at the College. It is forwarded direct to the institution designated by the student, but only if there is a reasonable presumption that he will be admitted. One official transcript and one copy of record is furnished free upon request.

COURSES OF INSTRUCTION

NOTE OF EXPLANATION

Following the title of each course its value in semester units is shown by a number in parenthesis. The semester in which the course is given is shown by Roman Numeral I for the Fall Semester and Roman Numeral II for the Spring Semester. Yr. indicates that the course extends throughout the Fall and Spring Semesters. A course which is designated by a double number, for instance, Geography 3A, 3B, is continued through two successive semesters, ordinarily running from September to June. In some instances, however, the first part of a course might be given in the Spring Semester. The first half of such a course is a prerequisite to the second half unless there is a definite statement to the contrary.

Courses numbered 1-49 are accepted for full credit at most colleges and universities. Courses numbered 50-99 are essentially terminal in nature although there are a few exceptions. Consult the catalogue of the college or university of your choice for these exceptions.

GENERAL INFORMATION

All of the courses offered by the College, except a few which are noted as they appear in this section of the Catalogue, are accepted by the University, either toward fulfillment of the lower division requirements or in preparation for a chosen major, or as electives.

Courses marked with an asterisk (*) are not open to first-year students; those marked with a dagger (†) require the approval of the instructor.

A unit of work represents one hour of passing work for a semester term of eighteen weeks: it may stand for one hour of classroom work and two hours of preparation, for three hours of laboratory work, or for such distribution as the particular course may demand.

Listed below are the organized programs in majors and curricula offered at Riverside College. They are typical of the four-year colleges and universities especially the University of California for the first and second years.

Accounting
Agriculture
  Pre-Agriculture: Economics
  Pre-Agriculture: Education
  Pre-Agronomy
  Pre-Animal Science – Pre-Veterinary
Plant Science
  Pre-Horticulture: Sub-Tropical Horticulture
  Pre-Food Technology
  Pre-Plant Pathology
  Pre-Truck Crops
Anthropology
Apparel
  Apparel Design
  Apparel Merchandising
Architecture
COURSES OF INSTRUCTION

Art
  Appreciation and History of Art
  Industrial Design
  Interior Decoration & Costume Design
Astronomy
Bacteriology
Botany
Business
  General Business
  Banking and Finance
  Industry
  Management and Industry
  Marketing
  Office Management
Chemistry
  Pre-Chiropractic
  Pre-Dental
Economics
  Economics
Engineering
  Aeronautical Engineering
  Chemical Engineering
  Civil Engineering
  Electrical Engineering
  Mechanical Engineering
  Mining Engineering
  Petroleum Engineering
English
  English
  English and Speech (Teaching)
Pre-Entomology and Parasitology
Forestry
French
Geography
Geology
German
History
Home Economics
  General
  Clothing
  Dietetics
  Major for Teachers
  Promotional Work
Industry
International Relations
Journalism
  Laboratory Technician: Medical Technician
  Pre-Landscape Design
  Pre-Legal
  Office Management
Mathematics
  Pre-Medicine
  Pre-Metallurgy
Meteorology
Music (Teachers)
Nursing
  Pre-Nursing
  Public Health Nursing
Pre-Optometry
Pre-Osteopathy
Pre-Pharmacy
Philosophy
  Physical Education
    Men
    Women
    Physical Therapy
Physics
  General
  Applied: Acoustics
  Chemical
  Electricity and Magnetism
Political Science
  General
  Politics
  Public Relations
Psychology
Public Service
  Financial Administration
  Personnel Administration
  Public Management
  Public Welfare Administration
Sociology (Teaching)
Spanish
Teaching Major (Elementary)
Zoology
  Fish and Game
  Genetics: Museum work: Park Management: Teaching
  Physiology
  Specialized Curricula
  Accounting
  Aeronautics
  Aircraft and Engine Mechanics
  Business, General
  Clerical, General
  Cosmetology
  Education, General
  Journalism and Newspaper Work
  Merchandising and Salesmanship
  Secretarial
COURSES OF INSTRUCTION

AERONAUTICS

(See also pages 55)

3-A, 3-B. Meteorology (Meteorology 3 and Geography 3, U.C.L.A.) (3-3) Yr. Mr. Rohrer

Prerequisites: Algebra and Physics.

A study of the earth's atmosphere, the weather elements, air mass and frontal characteristics, a survey of regional distribution of weather and climate. Practice in making weather observations and interpreting weather maps and teletype sequence reports. Two lectures and one laboratory period weekly.

5A, 5-B. Weather Observation (Meteorology 5, U.C.L.A.) (3-3) Yr. Mr. Rohrer

Prerequisite: Meteorology 3.

Weather observations, care and calibration of weather instruments, weather map analysis, local and short range forecasting, climatic studies. One lecture and two laboratory periods weekly.

10. Celestial Navigation (See Astronomy 10)

*30-A, 30-B. Aerodynamics (3-3) Yr. Mr. Rohrer

Prerequisites: Mathematics 3 and Physics 1.

Physical properties of the air, air flow, air foil characteristics, life and drag computation, propeller theory, compressibility, performance, equilibrium and stability, elementary design factors. Three lectures weekly.

*99-A, 99-B. Independent Study (2-2) or (3-3) Yr. Mr. Rohrer

Special problems in some phase of aeronautics consistent with the student's program of study.

ANATOMY

(Physiology and Anatomy, See page 51)

ANTHROPOLOGY

1-A, 1-B. Introductory Anthropology: Cultural Anthropology (2-A, 2-B, U.C.) (3-3) Yr. Mr. Peck, Dr. Kneucker, Mr. Gladden, Mr. Cooper

1-A. Introductory Anthropology I Mr. Peck, Dr. Kneucker

A survey of the development of primitive man previous to recorded history. Theories on the origin and antiquity of man. Criteria for subdividing mankind into various stocks. The geographical distribution of primitive peoples. Growth of earliest cultures.

1-B. Cultural Anthropology II Mr. Peck, Mr. Gladden, Mr. Cooper

A survey of the range of cultural phenomena of primitive peoples, including material culture, social organization, religion, language, and other topics. Attention will be given to the story of the Indians of the American Southwest.

Either half of the course may be taken independently.

ARCHITECTURE

50-A, 50-B. Residential Design (3-3) Yr. Mr. Larson, Mr. Shepard

Original designs presented in working or presentation drawings. Plans, elevations, structural details, and perspectives in pencil, ink, or color. Art or drafting courses recommended but not required.

51-A, 51-B. Furniture Design (3-3) Yr. Mr. Larson, Mr. Shepard

Original designs of furniture, interior accessories, and simple wall arrangements using working and presentation drawings to illustrate contemporary and historic styles. Art or drafting courses recommended, but not required.

52-A, 52-B. History of Architecture (2-2) Yr. Mr. Shepard

Illustrated lectures on the history of architecture and furniture.

a. Pre-historic through Gothic.

b. Renaissance to modern times, non-historic and United States.

Should be taken with Architecture 50-A, 50-B or 51-A, 51-B.

53-A, 53-B. Commercial Structures (3-3) Yr. Mr. Shepard

Prerequisite: Architecture 50-A, 50-B.

Original designs using same processes as Architecture 50 and includes models.

54-A, 54-B. Interior Design (3-3) Yr. Mr. Shepard

Prerequisite: Architecture 51-A, 51-B.

Original designs in contemporary and period styles, illustrated by working and presentation drawings. Floor plans, wall elevations, details and perspectives presented in line and color.
ART

Preparation for the Major: Art 1, 4, 5, 21.

1-A, 1-B. History and Appreciation of Art (1-A, 1-B, U.C.) (3-3) Yr. Mr. Cooper
An introductory survey of the history of architecture, painting, sculpture and the minor arts.

4-A, 4-B. Form (2-A, 2-B, U.C.) (2-2) Yr. Mr. Cooper
Required of all art and architecture majors, and recommended for all art students.
A beginning college course in applied art. Problems involve line, space, volume, value, texture, movement, rhythm, color, perspective, representation and expression.

5-A, 5-B. Drawing and Painting (3-A, 3-B, U.C.) (2-2) Yr. Mr. Cooper
Prerequisite: Art 4.
Problems of perspective, dark and light, color and drawing from natural forms. Easel paintings and mural designs are developed. Projects in drawing and painting related to commerce and industry are emphasized.

21-A, 21-B. Water Color Painting (14-A, 14-B, U.C.) (2-2) Yr. Mr. Cooper
Prerequisite: Art 4, or may be taken concurrently with permission of instructor.
Various techniques of water-color painting; still life set-ups provide opportunity for careful study of lights and shadows, perspective, composition and color. Considerable time is devoted to landscape painting.

50-A, 50-B. Figure Drawing and Anatomy (1-1) Yr.
Intensive drawing from the model. Study of anatomy as related to art.

51-A, 51-B. Landscape (2-2) Yr.
A popular course which aims to develop the student's skill in landscape painting through intensive work, mostly out-of-doors.

52-A, 52-B. Advanced Problems in Art (2-2) Yr. Mr. Cooper
Prerequisites: Art 4 and any other art course.
Intended for the student who plans to continue in a special field.

ASTRONOMY

Preparation for the Major: Required: Astronomy 2, 7, Physics 1, 10, Mathematics 3, 4. Recommended: Chemistry 1, Aeronautics 2, English 12 and reading knowledge of German or French.

1-A, 1-B. Introduction to Astronomy (1-A, 1-B, U.C., U.C.L.A.) (2-2) Yr. Mr. Rohrer
A non-mathematical study of the solar and stellar systems. The principles of construction and operation of astronomical instruments, celestial coordinate systems, celestial navigation, the planets, stars, and nebulae. The course includes occasional observation period and two or three field trips. Two lectures weekly.

2-A, 2-B. Observational Astronomy (2-A, 2-B, U.C., U.C.L.A.) (1-1) Yr. Mr. Rohrer
Prerequisites: Astronomy 1 or Astronomy 7 (May be taken concurrently)
Laboratory problems in solar and stellar motions, stellar spectroscopy, eclipses, determinations of time, latitude, and longitude. One laboratory period weekly.

4. Spherical Astronomy (4, U.C.L.A.) (3) Mr. Rohrer
Prerequisites: Trigonometry and Astronomy 1 or 7.
Spherical trigonometry, the celestial sphere, refraction, planetary motions, time, aberration, parallax, proper motion, binary star orbits, and determination of time, longitude, and latitude. Two lectures and one laboratory period weekly.

7-A, 7-B. General Astronomy (7-A, 7-B, U.C., U.C.L.A.) (3-3) Yr. Mr. Rohrer
Prerequisites: Mathematics 3 and Physics.
A study of the solar and stellar systems, including the study of eclipses, celestial coordinate systems, sunspots, comets and meteors, novae, and nebulae. Study of planetary and stellar motions, spectroscopy, laws of motion, gravity, parallax and elementary astrophysics. Three lectures weekly and occasional observation periods and field trips.

Prerequisites: Mathematics through trigonometry, and Astronomy 1.
Theory of celestial navigation, the astronomical triangle, observational instru-
ments, time, almanacs, navigation tables, lines of position and fixes, the running fix. Two lectures weekly.

**70-A, 70-B. Astronomical Photography (2-2) Yr. Mr. Rohrer**

Astronomical applications of photography, including planetary, stellar, meteor and spectroscopic photography. The use of special films and plates, guiding for long period time exposures, and principles of construction of special astronomical cameras. One lecture and one laboratory period weekly.

**BACTERIOLOGY**

*Preparation for the Major:* Required: Bacteriology 1; Botany 1; Chemistry 1; Physics 2, Zoology 1; French or German. Recommended: Chemistry 10, 11, 13, 14; Physiology 1; Economics 1,

**1-A, 1-B. General Bacteriology (2 and 4, U.C.) (3-3) Yr. Dr. Kneucker**

*Recommended prerequisites:* High school chemistry or chemistry 3, or a course in a biological science.

The fundamental concepts and principles of bacterial life are studied with emphasis on the environmental factors such as the more important physical and chemical agencies influencing the growth of bacteria; their biochemical and physiological activities; their biochemical and morphological identification; their microscopic examination and cultivation; the bacteria of air, water, soil, milk, and dairy products, other foods; industrial applications; and introduction to the disease causing bacteria with a study of prophylaxis, immunity and treatment. This course fulfills the requirement in bacteriology set up by the State Board of Nurse Examiners. Two lectures and one laboratory period weekly.

**BIOLOGY**

**1-A, 1-B. General Biology (3-3) Yr. Mr. Jaeger**

A study of life as revealed in plants and animals, including the basic principles of morphology, physiology, and classification; also a brief presentation of human physiology and metabolism. Two lectures and one laboratory period weekly.

**52-A, 52-B. Natural History of Southern California (2-2) Yr. Mr. Jaeger**

A brief history of the native animals and plants, together with a consideration of the geological and physiographical background. Of special value to students preparing for teaching or biological field work. Lectures, readings, special reports, and field work.

**BOTANY**

*Preparation for the Major, U.C. (Berkeley)* Required: Botany 1, 15; Chemistry 1, 13. Recommended: French, German, and elementary courses in other biological sciences.

*Preparation for the Major, U.C.L.A.* Required: Botany 1, 15; Chemistry 1; Certain phases of botanical work require Geology 1, Physics 2, Bacteriology 1, Zoology 1.


*Prerequisite:* None; High school chemistry recommended.

A first-hand study of plants as an introduction to the basic knowledge of the organization of plant structures and the nature of the processes inherent in them. A presentation of scientific inferences and points of view about the plant portion of our environment. Frequent field trips. Three lectures and two laboratory periods weekly.

**2-A, 2-B. Field Botany (3-A, 3-B, U.C.L.A.) (2-2) Yr. Miss Cooper**

An introduction to the form, habit, and classification of native and ornamental plants. Frequent field trips. Two laboratory periods weekly.

**15-A, 15-B. Plant Morphology and Anatomy (2, 6, U.C.L.A.) (4-4) Miss Cooper**

*Prerequisite:* Botany 1.

Comparative morphology of the plant groups, and study of the structure and development of higher plants. Two lecture periods and two laboratory periods weekly.

**BUSINESS**


*Concurrent requirement:* Business 2-A, 2-B.

A course in accounting principles. The work is concerned with the classification of accounts, recording in books of original entry, posting to ledgers, use of control accounts, preparation of worksheets, balance sheets and profit and loss statements.

**2-A, 2-B. Accounting Laboratory (2-A, 2-B, U.C.L.A.) (1-1) Yr. Mr. Haas, Mr. Hislop**

*Concurrent requirement:* Business 1-A, 1-B.

A course in supplementary laboratory problems.

(3-3) Yr. Mr. Smith

The principles of law which are essential to business men; contracts, agency, partnerships, corporations, negotiable instruments, bailments, surety-ship and bankruptcy. Special emphasis is placed on real estate law, including mortgages, trust deeds and leases.

**28. Business Correspondence** (150, U.C.L.A.) (3) I, II

Mr. Stickney

A review of the mechanics of English as used in the writing of business letters, including study of the spelling of difficult words. A study of various types of business letters, such as sales letters, application letters, collection letters; and the correct methods of writing these letters.

**50-A, 50-B. Applied Accounting** (3-3) Yr. Mr. Haas

A beginning course in the fundamentals of accounting intended for secretaries, managers of small business concerns and accounting majors. The complete accounting cycle is covered, giving particular attention to the basic principles of debit and credit, analyzing and recording transactions, classification of accounts, use of special journals, correct banking procedure, handling business papers, and the preparation and interpretation of financial statements and reports.

**52. Payroll Accounting** (2) I

*Prerequisite:* Business 1-A, 1-B, and 2-A, 2-B or Business 50-A, 50-B.


**53. Income Tax Accounting** (2) II

*Prerequisite:* Business 1-A, 1-B, and 2-A, 2-B or Business 50-A, 50-B.

A study of the theory and method of preparation of income tax returns for individuals, partnerships and corporations. Actual forms are studied and returns are prepared.

**59-A, 59-B. Practical Bookkeeping** (3-3) Yr. Mr. Smith

This course is built around the activities of the general office worker rather than those of the accountant. It is recommended for those who wish to become secretaries, and those who wish to become general clerical workers. Content of the course includes: bank activities, bank statements, handling of cash transactions, checks, notes, charge accounts, statements, the cash journal, sales and purchases journals, payrolls, property records, depreciation, the theory of debit and credit, trial balances, and final statements.

**60-A, 60-B. Secretarial Typewriting** (3-3) Yr. Mrs. Hamilton, Mr. Hislop, Mr. Smith

This course is designed for students who expect to enter the commercial field as private secretaries and general clerical workers. It is open to students who have had no previous training in typewriting, and also those who have had some typewriting, but wish to build up a greater speed and accuracy. The course stresses mastery of the keyboard, personal and business letter-writing, and tabulating of statistical information.

**61-A, 61-B. Advanced Typewriting** (3-3) Yr. Mr. Hislop

*Prerequisite:* Business 60-A, 60-B or its equivalent.

Business letters, statistical typing, manuscripts, legal typing.

**62-A, 62-B. Personal Typewriting** (2-2) Yr. Mr. Hislop

This course is designed primarily for the student who needs typewriting for personal and vocational use. Many times the ability to type means the difference in getting or not getting a certain job. The course aims to give a thorough mastery of the keyboard, and the attainment of a practical typing speed. Students pursuing a four-year college course will find typing ability a valuable aid in preparing term reports.

**65-A, 65-B. Beginning Shorthand** (Gregg System) (5-5) Yr. Mr. Hislop

A basic course. A speed of 80 words a minute in five-minute dictation is developed.

**66-A, 66-B. Advanced Shorthand** (Gregg System) (3-3) Yr. Mr. Hislop

*Prerequisite:* Business 65-A, 65-B or its equivalent.

A review of fundamental theory with advanced vocabulary development. A skill of 120 to 140 words a minute is developed.

**67-A, 67-B. Transcription** (3-3) Yr. Mr. Hislop

*Prerequisite:* May follow or be taken concurrently with Business 66-A, 66-B.

Practice in the techniques of efficient shorthand transcription. Mailable letters transcribed from dictation at speeds up to 160 words per minute.
68-A, 68-B. Office Machines (3-3) Yr.  Mr. Haas, Mrs. Hamilton

A laboratory course to acquaint secretarial students with appliances used in modern offices. Mimeograph, spirit duplicator, multilith, multigraph, calculating machines, both key-driven and crank-driven, vari-typer, posting machines, voice recording and transcription, and addressograph. Required of all secretarial and office clerical students.

Either half of the course may be taken independently.

*69-A, 69-B. Office Practice (3-3) Yr.  Mr. Haas

Prerequisite: Business 68-A, 68-B.

An intensive finishing course for secretarial and clerical students. Instruction is given under simulated office conditions. The course provides additional practice in the use of office appliances. Emphasizes the development of the personal qualities of appearance and expression, of secretarial performances and of behavior traits helpful in office work. Required of all secretarial and office clerical students.

70. Filing (3) II  Mr. Haas

A laboratory course in the use of filing equipment. The Remington Rand Library Bureau 40-period course offers instruction and practice in Alphabetic, Numeric, Triple Check, Varidex filing and follow-up methods. This course stresses the basic rules and procedures common to all systems of filing. Required of all secretarial and office clerical students.

71. P.B.X. (Switchboard Operation) (1 or 2) I, II  Mr. Hislop

A study of cord pbx board and the necessary training to develop dexterity in operation.

81-A, 81-B. Business Mathematics (3-3) Yr.  Mrs. Hamilton

81-A I  A review of the fundamentals of arithmetic necessary for competent participation in business. Fractions, decimals, percentage, interest, bank discount, profit and loss, cash and trade discounts, and denominate numbers.

81-B II  This course provides instruction and practice in the operation of key-driven calculators, full keyboard and 10-key adding machines and crank-driven calculators, and cash registers. Practice is given in figuring and using discounts, net amounts, chain discounts, payrolls, interest and distributions. Designed especially for Accounting, General Business, and Merchandising and Salesmanship students.

83. Business English (3) I, II

A review in the fundamentals of grammar and sentence structure, punctuation, capitalization and vocabulary building which apply directly to the effective business message. Practice in preparation of oral and written reports, minutes, legal and commercial documents and research.

97-A, 97-B. Small Business Sequence (3-3) Yr.

Designed for the student who plans to make a career in the management of a small business enterprise.

Distribution of commodities from the producer to the consumer, methods of procuring capital for organization, expansion and maintenance of the enterprise, credits and collections, planning the budget, store location, store layout, interior decoration, what records to keep, what merchandise to buy, how to promote business, personal qualifications for managing a small business, personnel management and problems, advertising problems, inventory and stock control procedures, types of stores, consumer surveys, merchandise resources, partnership, corporations, contracts, legal relations, organization charts prepared, field trips to selected small businesses. Intensive case studies of selected small businesses.

98-A, 98-B. Salesmanship Sequence (3-3) Yr.

Designed for the student who plans to make a career in sales work. Wholesale and specialty selling; each student selects a sales proposition to analyze and sell to a qualified prospect in each of two fields.

Sales practice. Development of skill in the presentation of sales talks. Each student gains experience by developing and offering three complete sales presentations, one for each of the three fields of selling, wholesale, specialty, industrial. Practice is given in mastering the sales problems of how to secure prospects, gain favorable attention, create interest, arouse desire, obtain the prospect's order, handle objections.

Fundamentals of retail salesmanship, display and demonstration of merchandise, opportunities in the retail selling field, personality analysis, use of individual rating sheets, techniques for getting along with fellow employees and customers. Sales talks are written and demonstration sales are made. The literature is studied to obtain information on current business trends. Conferences on sales problems encountered in the field. Topics will be those brought in by the group and related directly to their experiences. Practice and drill in problem solving.

Recruiting, selecting, training, activating, compensating, maintaining morale of sales organizations.
COURSES OF INSTRUCTION

Psychology of selling, gaining knowledge and understanding of consumer buying habits, how to influence people, how to aid people in achieving their desires through merchandise selection.

99-A, 99-B. Retail Merchandising Sequence (3-3) Yr.
Designed for the student who plans to make a career in the field of retail merchandising.
Problems of store location, store layout, store organization and management, merchandise control, pricing, ethical standards in retailing, methods of procuring capital for organization, expansion, maintenance of the business enterprise, credits and collections, principles and techniques of buying for retail organizations, including inventory and stock control procedures, merchandise planning, use and interpretation of buyer's reports and retail mathematics for buyers, advertising, promotion policies, adjustment procedures, personnel problems, forms of retail organization, equipment, financing, insurance, budgeting, governmental relations, legal relations, transportation. Organization charts prepared. Field trips taken to downtown stores. Intensive case studies of retail stores.

CHEMISTRY

Preparation for the Major: Recommended: Chemistry 1, and one or more of 10, 11, 13, 14; Physics 1, 10; Mathematics 1; and a reading knowledge of German. This work may be completed, in part, in the upper division.

1-A, 1-B. General Chemistry (1-A, 1-B, U.C.) (5-5) Yr.
Mr. Brauti, Miss Cooper, Mr. Haslam

Prerequisites: High school chemistry or physics with not less than a C grade or Chemistry 3; Mathematics through intermediate algebra with at least a C grade; satisfactory score on chemistry aptitude test.

1-A I A basic course in the principles of chemistry with special emphasis on chemical calculations. This course is required in colleges of engineering, chemistry, agriculture, and pre-dental, pre-medical, pre-optometry, and pre-pharmacy students; of those majoring in bacteriology, geology, and dietetics. Three lectures and two laboratory periods weekly.

1-B II A continuation of chemistry 1-A with special emphasis on the theory and techniques of qualitative analysis.

3-A, 3-B. Introductory General Chemistry (2-A, 2-B, U.C.) (4-4) Yr.
Mr. Brauti, Miss Cooper, Mr. Haslam

An introductory course in the principles of inorganic chemistry with a brief introduction to organic and physiological chemistry.

This course meets the chemistry requirements for nurses, for majors in physical education, and for majors in home economics. Three lectures and one laboratory period weekly.

*10. Quantitative Analysis (2) I
Prerequisite: Chemistry 1-A, 1-B.

The principles and methods of volumetric and gravimetric analysis and their applications to simple methods of commercial analysis. Two lectures weekly. Recommended for students of chemistry, engineering, medicine, and dentistry.

*11. Quantitative Analysis: Laboratory (3) I
To be taken in conjunction with chemistry 10. Three laboratory periods weekly.

*13. Organic Chemistry (3) II
Prerequisite: Chemistry 1-A, 1-B.
The compounds of carbon, both aliphatic and aromatic. Three lecture periods weekly.

*14. Organic Chemistry: Laboratory (1 or 2 or 3) II
To be taken in conjunction with, or to follow chemistry 13. The course covers the preparation, properties, and reactions of typical organic compounds. One, two, or three laboratory periods weekly.

ECONOMICS

Preparation for the Major: Required: Economics 1; and at U.C.L.A., Accounting. Recommended: History 4 or Political Science.

Mr. Mackenzie

A study of the principles of economics, stressing such fundamental theories as those of national income and employment, value, money and banking, prices and allocation of resources, control of resources, interregional trade, taxation and fiscal policy, and types of economic organization.
50-A, 50-B. Economic Institutions and Problems (2-2) Yr.  Mr. Mackenzie

A more elementary course than Economics 1 with greater relative emphasis upon economic institutions and current economic problems.

ENGINEERING

Preparation for the Major: Instruction in engineering is based upon high school chemistry and physics, and three years of high school mathematics, including trigonometry. Only those who have attained an average grade of A or B in all these subjects are qualified as engineering students of college rank. Those not meeting the above requirements may take college courses of less difficulty to make up the deficiencies before beginning regular engineering courses.

1-A, 1-B. Plane Surveying (1-A, 1-B, U.C.) (3-3) Yr.  Mr. Twogood

Prerequisites: Plane trigonometry with grade of A or B and one year of high school mechanical drawing.

Field practice, calculations and mapping. Two lectures and one three-hour field or mapping period weekly.

*13. Materials and Processes (8 U.C., plus one lab.) (3) II  Mr. Twogood

Prerequisite: Open to second year engineering majors, only.

Study of materials of engineering and processes of manufacturing and fabrication. Elementary heat treatment of metals. Elementary physical testing of metals, woods, fabrics. Two lectures, one laboratory period weekly and occasional field trips.

22. Engineering Drawing (22 U.C.) (3) I or II  Mr. Larson, Mr. Shepard

Prerequisite: Engineering 50 or one year of high school drawing.

Geometric construction; pictorial drawing; theory of orthogonal projection; freehand orthographic, isometric, and oblique sketching; mechanical isometric and oblique drawing; primary auxiliary views, sectioning; A.S.A. conventional practices; threads and fasteners; use of scale; dimensioning; and simple working drawings.

23. Descriptive Geometry (23, U.C.) (2) II  Mr. Twogood

Prerequisites: Engineering 22 and Mathematics 3. Open only to engineering majors whose grade point average is 1.5 or higher for the first semester. The fundamental principals and their application to the solution of space problems arising in engineering. Two laboratory periods weekly.

24. Advanced Engineering Drawing (24, U.C.) (3) I or II  Mr. Larson, Mr. Shepard

Prerequisites: Engineering 22 and 23.

Detail drawings of machine parts, gears and cams, complete working drawings of fairly complex layouts; production illustration.

*35. Statics (35, U.C.) (3) I  Mr. Twogood

Prerequisites: Mathematics 4-A and Physics 1. Open to second-year engineering majors only.

Force and equilibrium problems, displacement, velocity and acceleration relations and their applications to engineering; algebraic and graphical methods. Three lectures weekly.

50. Mechanical Drawing (2) I or II  Mr. Larson, Mr. Shepard

Fundamentals of mechanical drawing. Open to students who have had less than one year of mechanical drawing in high school.

51. Aircraft Drawing (3) I or II  Mr. Larson, Mr. Shepard

Prerequisites: Engineering 22, 23, 24.

Aircraft dimensioning; details and assembling; production illustration; standard parts and fasteners; dash numbers; A.N. standards; lofting. For majors in aeronautics only.

ENGLISH

Preparation for the Major: The student who wishes to make English his major subject must have completed, with an average grade of C or higher, English 1 followed by English 6.

At least one ancient and one modern foreign language should be studied in high school and continued in college. Philosophy and at least one foreign language should be elected in the lower division.

1-A, 1-B. Composition (1-A, 1-B, U.C.) (3-3) Yr.  Mr. Anderson, Mr. Black, Mr. Bradshaw, Mr. Mackenzie, Mr. Patton, Mr. Stickney

The chief forms of composition, oral and written, with outside reading and written reports. Theme writing and individual conferences.

3-A, 3-B. Practical News Reporting (2-2) Yr.  Mr. Patton

Prerequisite: English 1, or may be taken concurrently.

Theory of the correctly written news and feature articles combined with contacts in actual reporting fields. Members of class may expect work on the college paper, the Tiger Times.
6-A, 6-B. English Literature (36-A, 36-B, U.C.) (3-3) Yr. Mr. Anderson

Prerequisite: English 1. Required for English Majors.

An historical survey of the entire course of English literature, its leading periods, movements, personalities and masterpieces. Lectures, recitations, collateral reading, and reports on special topics.

Non-dramatic poetry from the beginning to the present.

Either half of the course may be taken independently.

9-A, 9-B. Dramatic Art (10-A, 10-B, U.C.) (2-2) Yr. Mr. Black

Prerequisite: English 1, or may be taken concurrently.

Drama appreciation through a study of the principles of dramatic art. Readings in classical and modern drama from the point of view of production. Consideration of the problems of lighting, setting, make-up, and other phases of stage-craft. Lectures, oral and written reports, rehearsals.

11-A, 11-B. Advanced Composition (106-A, 106-B, U.C.) (2-2) Yr. Mr. Anderson

Studies in descriptive and narrative writing, writing, with special reference to the technique of the short story, fall semester. Expository writing, with relation to the presentation of facts, the familiar essay, and imagination in the service of thought, spring semester. Literary models are studied and the constant writing of themes required. Open to a limited number of students who have completed English 1 or its equivalent.

*12-A, 12-B. Public Speaking (Speech 1-A, 1-B, U.C.) (3-3) Yr. Mr. Allison

Prerequisite: English 1.

The study of the general principles of voice and diction; the acquiring of correct posture, gesture and platform manner; and the development of the particular speech skill of each student. Throughout the year attention is given to the preparation of speeches for delivery in class and in public. The course is a second-year subject, but is also open to qualified first-year students who are specializing in public speaking.

Either half of the course may be taken independently.

14-A, 14-B. American Literature (30-A, 30-B, U.C.) (2-2) Yr. Mr. Stalder

Prerequisite: English 1, or may be taken concurrently.

A study of the achievements in American literature from Colonial times to the present, outstanding literary personalities, memorable work, and reflections of American thought in literature. Lectures, discussions, collateral readings, and oral reports.

Either half of the course may be taken independently.

50-A, 50-B. English Composition (3-3) Yr. Mr. Bradshaw

(Formerly AA)

Principles of effective reading and writing applied to problems in the fields of current affairs and vocational study. Emphasis is on organization and development of ideas, with special attention to sources of information. The second semester is a continuation of the study of contemporary affairs and ideas and an introduction to contemporary literature. Recommended and required reading, individual conferences, informal talks and discussion techniques, written assignments.

51-A, 51-B. English Review (3-3) Yr. Mr. Stalder

Review of the essentials of English composition, stressing spelling, punctuation, grammar and sentence structure. This course is not to be substituted for English 1 or English 50 to fulfill the requirement in English Composition for the A.A. degree.

52-A, 52-B. Remedial Reading (2) I, II Mr. Bradshaw

Practice in reading for increased speed and comprehension. Speed reading films, reading problems and exercises.

53-A, 53-B. Advanced News Reporting (1-1) Yr. Mr. Patton

Prerequisites: English 1 and 3.

Open to a limited number of staff members who plan to continue affiliation with the College publications. Occasional meetings and conferences.

59-A, 59-B. Stagecraft (2-2) Yr. Mr. Shepard

Theory of stage design, set construction, and stage lighting. Practical work in connection with college dramatic productions.

FRENCH

Preparation for the Major: French 1, 2, 3. History 4, Philosophy 10, and Latin are strongly recommended. At U.C.L.A. Latin AB or its equivalent is required, and a second modern language recommended.

1-A, 1-B. Elementary French (1, 2, U.C.) (4-4) Yr. Mr. Richards

Study of French grammar, including pronunciation, conversation, composition, and reading of simple literary French. An additional one-hour period for laboratory work is required weekly.
Mr. Richards
Prerequisite: French 1 or its equivalent.
Further study of correct grammatical and idiomatic usage of French; reading of fairly difficult French literature. Students are advised to take French 3 also.

3-A, 3-B. Intermediate French (4, U.C.) (2-2) Yr.  
Mr. Richards
Prerequisite: French 1 or equivalent.
Conversation and composition in French on subjects of everyday life and on contemporary French reading material. Students are advised to take French 2 also.

GEOGRAPHY

1-A, 1-B. Introductory Geography (1, 2, U.C.) (3-3)  
Mr. Peck, Mr. Brand
1-A. Introductory Physical Geography (1, U.C.) I and II  
Mr. Peck
A study of the basic physical elements of the earth sciences (geography and geology) — especially rock structures, land forms, weather, climates, soils, and natural vegetation. Particular study will be made of local physical features. Map projections will be discussed with inquiry into the implications of the atomic era upon mapping.

1-B. Introductory Cultural Geography (2, U.C.) I and II  
Mr. Brand
A study of the basic cultural elements of geography (population distribution, general land use patterns and trade), and their correlation with the physical elements. Delimitation of the major geographic regions of the world.

Either half of the course may be taken independently.

5-A, 5-B. Economic Geography (5-A, 5-B, U.C.L.A.) (3-3) Yr.  
Mr. Brand
A world survey of the interrelationship of man with his economic activities and the factors of his natural environment. The products and industries of the world are stressed. An economic description of the world by regions is given. Sufficient physical geography is studied for one to understand how great an influence is environment upon man. (Primarily for students who need a year course in Economic Geography for specified degree requirements.)

GEOLOGY

1-A, 1-B. Introductory Geology (1, 2, U.C.) (4-4) Yr.  
Mr. Peck
1-A. Introductory Physical Geology I
The minerals and rocks that make up the earth’s crust. Rock formations and their structures. Volcanoes and volcanic eruptions. Earthquakes, their causes, and high frequency zones. Occurrences of ore and petroleum. The problem of water resources. Extensive use will be made of motion pictures and colored slides in supplementing the instruction in this course. Field trips will be made to local points of geological interest. Three lectures and one laboratory period weekly.

1-B. Introductory Historical Geology II  
Theories on the origin of the earth. The geological history of the earth. The development of plants and animals. Extensive use will be made of colored slides in supplementing the instruction in this course. Field trips will be made to local points of geological interest. Three lectures and one laboratory period weekly.

3. The Origin of Landscapes (117, U.C.) (2) I  
Mr. Peck
The scientific study of scenery. The development of the surface features of the landscape. Use of colored slides of various national parks. Two lectures weekly.

4. Geology of the United States (107, U.C.) (2) II  
Mr. Peck
Prerequisite: Geology 1-A, or Geology 3, or Geology 5-A, or Geography 1-A.
A regional survey of the geology and geography of the United States. Detailed analysis of the surface features and rock structures of the larger national parks. Influence of geology upon human activity. Two lectures weekly.

5-A, 5-B. General Geology (2, 3, U.C.L.A.) (3-3) Yr.  
Mr. Peck
5-A. General Physical Geology I
Identical to Geology 1-A, with the exception that laboratory work is omitted. Three lectures weekly. Occasional field trips.

5-B. General Historical Geology II  
Identical to Geology 1-B, with the exception that laboratory work is omitted. Three lectures weekly. Occasional field trips.

GERMAN

1-A, 1-B. Elementary German (1, 2, U.C.) (4-4) Yr.  
Mr. Richards
Study of German grammar, including pronunciation, conversation, composition, and reading of simple literary German. An additional one-hour period for laboratory work is required weekly.
2-A, 2-B. Intermediate German: Reading (3, U.C.) (2-2) Yr. Mr. Richards

Prerequisite: German 1-A, 1-B.
Further study of correct grammatical and idiomatic usage of German; reading of fairly difficult German literature. Students are advised to take German 3-A, 3-B also.

3-A, 3-B. Intermediate German: Conversation and Composition (4, U.C.) (2-2) Yr. Mr. Richards

Prerequisite: German 1-A, 1-B, or its equivalent.
Conversation and composition in German on subjects of everyday life and on contemporary German reading material. Students are advised to take German 2 also.

HISTORY
Preparation for the Major: Required: History 4, History 6, and Economics 1.

3-A, 3-B. History of the United States (2-2) Mr. Bradshaw, Mr. Brand, Mr. McDermont, Mr. Stalder, Mr. Stickney

The course meets the State requirement of American History and Institutions. Either half may be taken independently.

4-A, 4-B. History of European Civilization (4-A, 4-B, U.C.) (3-3) Yr. Mr. McDermont

The course covers a rapid survey of ancient and medieval civilizations of the European area followed by a more intensive study of the political and cultural institutions of modern European society and their extension throughout the world. Attention is given to Oriental societies as they come into contact with western civilization.

4-A. Early beginnings to 1815
4-B. 1815 to present day

This course is required for degrees at certain institutions, e.g., Stanford and U.S.C. It is recommended for majors in law, medicine, theology, and philosophy.

6-A, 6-B. Political and Social History of the United States (17-A, 17-B, U.C.) (3-3) Yr. Mr. Stalder

A detailed study of the political, social, and economic developments of the United States, and their influence on American institutions and thought.

6-B. The period from 1865 to the present day. This course fulfills the requirement of American history and institutions. It is recommended for majors in law, medicine, theology, and philosophy.

10. International Relations (3) I and II Mr. McDermont

Development of theories of international relations. A study of the League of Nations, the United Nations, and other agencies of international cooperation. Recommended for both terminal and transfer students. A one semester course.

HOUSEHOLD ART
2-A, 2-B. Clothing Construction and Selection (3-3) Yr. Mrs. Wilson

Garment construction and selection. Materials, color and styles, with consideration of individual needs and clothing wardrobe. One lecture and two laboratories weekly.

50-A, 50-B. Advanced Clothing (3-3) Yr. Mrs. Wilson

Prerequisite: Household Arts 2 or consent of instructor.
Continuation of work and application of principles of clothing construction given in first year, with special emphasis placed on pattern alteration, fitting, and tailoring.

51-A, 51-B. Household Management (2-2) Yr. Mrs. Wilson

Either half may be taken independently.

HOUSEHOLD SCIENCE
2-A, 2-B. Food Study and Preparation (4-4) Yr. Mrs. Wilson

Composition, selection, and preparation of food factors in cookery; analysis of recipes and standard products. Details and manipulation required to attain highest standards. Expenditure of time and money. Two lectures and two laboratory periods, weekly.

3-A, 3-B. Elements of Nutrition (2-2) Yr. Mrs. Wilson

Fundamental principles of human nutrition as applied to normal and special conditions of growth and physical development. Two lectures weekly.
COURSES OF INSTRUCTION

4-A, 4-B. Elements of Nutrition for Nurses (2-2) Yr. Mrs. Sonin
Same as course 3-A, 3-B, but with one laboratory period additional. Required in the Pre-Nursing curriculum.

HYGIENE

1. General Hygiene (2) I or II Mr. Gilkeson, Mr. Hammerschmidt, Mr. Steponovich
An elementary study of the human body, its activity, and its environment in relation to health. Fulfills the requirement in hygiene for the degree of Associate in Arts.

50-A, 50-B. Hygiene (2-2) Yr. Dr. Kneucker
A course in the principles of general pathology. The student familiarizes himself with the more important questions of pathology such as inflammation, new growth (cancer), deformities, functional and anatomical disturbances of the human body. A basic knowledge of contagious diseases, their control, prevention and personal prophylactics is acquired. This course is a complement to the courses of Anatomy and Physiology. Two lectures weekly.

LATIN

Preparation for the Major: Required: Four years of high school Latin or Latin 1, 2.

1-A, 1-B. Elementary Latin and Caesar (1, 2, U.C.) (4-4) Yr. Mr. Anderson
An introductory study, equivalent to the first two years of high school Latin.

2-A, 2-B. Cicero and Virgil (4-4) Yr.
Prerequisite: Two years of high school Latin or Latin 1.
Selected orations of Cicero, and Aeneid of Virgil.

MATHEMATICS

Preparation for the Major: Two years of high school algebra, plane and solid geometry, and trigonometry; Mathematics 3, 4. Recommended: physics and a reading knowledge of French and German.

A. Elementary Algebra (3-3) Yr. Mr. Larson
The equivalent of high school algebra, designed for those students who do not receive credit for algebra in high school.

B. Plane Geometry (2-2) Yr. Mr. Larson
The high school course in Plane Geometry designed for students who did not receive credit for it in high school, yet who must complete the work for lower division requirements.

C. Trigonometry (C, U.C.L.A.) (3) II Mr. Rohrer, Mr. Strandberg
Prerequisite: Plane geometry; one and one-half years of high school algebra, or course D.

D. Intermediate Algebra (D, U.C.L.A.) (3) I Mr. Rohrer, Mr. Strandberg
Prerequisite: One year of high school algebra.
Intermediate algebra through simultaneous quadratic equations.

E. Commercial Algebra (E, U.C.L.A.) (3) I Mr. Strandberg
Prerequisite: Mathematics A
Including fundamental operations, simple equations, ratio and proportion, applications to commercial problems, exponents and radicals, quadratic equations, series, functions and graphs, logarithms, and elementary statistics.

F. Slide Rule (2) I or II Mr. Rohrer
Theory of the slide rule, use of the slide rule for problems of multiplication, division, squares, cubes, square roots, cube roots, trigonometric functions, logarithms, and exponentials. The course is designed primarily for students of science, mathematics and engineering.


1. College Algebra (1, U.C.L.A.) (3) I
The usual topics in college, and review of trigonometry. It gives a thorough foundation for calculus, and is intended for majors in mathematics and the physical sciences. Not offered 1950-51.

3-A, 3-B. Analytic Geometry and Calculus (3-A, 3-B, U.C.) (4-4) Yr. Mr. Strandberg
Prerequisite: Four years of high school mathematics with over-all average grade of B or better. Open to all students; required of those taking Physics 1.
Plane analytic geometry and calculus, including conic sections, general equations of the second degree, elements of calculus with applications to geometry and mechanics.
4-A, 4-B. Solid Analytic Geometry and Calculus (4-A, 4-B, U.C.) (3-3) Yr.  
Mr. Strandberg  
Prerequisite: Mathematics 3.  
Continues the development and application of calculus; includes quadratic surfaces, partial derivatives, multiple integrals, and infinite series.

12. Elementary Statistics (3) II  
Mr. Strandberg  
Prerequisite: Mathematics 1 or consent of instructor.  
Basic concepts, statistical hypotheses, laws of probability, expectation, variance, regression, correlation and simple examples of least squares estimates. Not offered 1950-51.

32. Mathematics of Finance (2, U.C) (3) II  
Mr. Strandberg  
Prerequisite: Mathematics E or 1.  
Simple and compound interest, discount, annuities, payment of debts by various methods, depreciation and capitalized cost, and related topics. Designed for students interested in commerce or business administration.

*MILITARY SCIENCE AND TACTICS—R. O. T. C.*

An act of Congress, passed in June, 1916, provided for military training in certain educational institutions in the United States. This was an enlargement of the Morrill Act of 1863, which requires that a course in military training be given at all state colleges which are receiving federal aid. The government furnishes a competent corps of instructors and all uniforms and equipment necessary for students.

The primary object of Reserve Officers Training Corps is to qualify college students for commissions in the Officers Reserve Corps, a corps from which the country would be able to obtain officers in the subordinate grades in case of emergency. Enrollment in the R. O. T. C. does not obligate students to enter the Officers Reserve Corps; it simply qualifies them for a commission if they desire one. Members of the R. O. T. C. are not subject to call for strike duty or any service in the army, and are in no sense soldiers.

Graduates of junior colleges who have completed satisfactorily two years in the R. O. T. C. units may, upon entering an institution maintaining a senior R. O. T. C. unit, enroll in the advanced course in Military Science and Tactics, subject to the approval of the P. M. S. and T. of that institution. If admitted to the advanced course, they will receive from the government, in addition to their uniforms, approximately $15.00 a month for the full two years.

*MUSIC*

Structure of Music

1-A, 1-B. Elementary Harmony (3-3) Yr.  
Mr. Stone  
Prerequisite: To be taken concurrently with Music 3-A, 3-B.  

2-A, 2-B. Advance Harmony (3-3) Yr.  
Mr. Stone  

3-A, 3-B. Elementary Ear-Training and Reading (2-2) Yr.  
Mr. Stone  

4-A, 4-B. Advanced Music Reading and Dictation (2-2) Yr.  
Mr. Soye  
Prerequisite: Music 3-A, 3-B.  
Continuation of Music 3-A, 3-B on a higher level.

5-A, 5-B. Rudiments of Music (2-2) Yr.  
Mr. Stone  

51. Form and Analysis (2)  
Mr. Stone  
Prerequisite: Music 1-A, 1-B.  
Tonality, nonharmonic tones, modulation. Units of musical form and
COURSES OF INSTRUCTION

COURSES OF INSTRUCTION

Continuation of Music 32-A, 32-B on a higher level; keyboard harmony and improvisation.

Either half may be taken independently.

34-A, 34-B. Advanced Class Piano (2-2) Yr.  
Mr. Stone

Prerequisite: Consent of Instructor.

Repertory, memory, sightreading, technique, recitals.

Either half may be taken independently.

35-A, 35-B. Elementary Class Organ (2-2) Yr.  
Mr. Stone

Prerequisite: Medium ability in piano; permission of instructor.

Fundamentals of organ technique, pedalling, registration, hymn playing.

Either half may be taken independently.

36-A, 36-B. Intermediate Class Organ (2-2) Yr.  
Mr. Stone

Prerequisite: Consent of Instructor.

Simple compositions of Bach and others, fundamentals of church organ playing.

Either half may be taken independently.

37-A, 37-B. Advanced Class Organ (2-2) Yr.  
Mr. Stone

Prerequisite: Consent of Instructor.

Repertory, technique, registration, memory, improvisation, recitals.

Either half may be taken independently.

38-A, 38-B. String and Percussion Instruments (2-2) Yr.

39-A, 39-B. Woodwind and Brass Instruments (2-2) Yr.

40-A, 40-B. Choir (3-3) Yr.  
Mr. Sayre

Admission by private audition. Study and performance of secular and sacred unaccompanied choral music.

Either half may be taken independently.

41-A, 41-B. Vocal Ensemble (2-2) Yr.  
Mr. Sayre

Performance of choral music adapted to small vocal ensembles. Admission by permission of instructor.

Either half may be taken independently.
42-A, 42-B. Symphonic Band (3-3) Yr.
Performance of symphonic band material. Admission on approval of director.
Either half may be taken independently.

43-A, 43-B. Dance Band (1-1) Yr.
Practical dance band experience. Admission on approval of instructor.
Either half may be taken independently.

44-A, 44-B. Orchestra (2-2) Yr.
Study and performance of symphonic orchestral material. Admission on approval of instructor.
Either half may be taken independently.

45-A, 45-B. Instrumental Ensemble (2-2) Yr.
Performance of chamber music by small instrumental ensembles. Admission on approval of instructor.
Either half may be taken independently.

46-A, 46-B. Choral Conducting (2-2) Yr. Mr. Sayre
Principles and techniques of choral conducting; program building. Practice with choral groups.
Either half may be taken independently.

47-A, 47-B. Opera Workshop (2-2) Yr. Mr. Sayre
Technique of singing and acting in opera, leading to a full-scale operatic production. For advanced students. Enrollment by audition only.
Either half may be taken independently.

61-A, 61-B. Elementary Class Piano (2-2) Yr. Mr. Stone
Development of keyboard facility and sightreading. Repertory of simple piano material.
Either half may be taken independently.

NURSING

The College offers two programs in nursing. The one-year course enables the student to meet the requirements of some hospitals for entrance into their nurses training school. The student should enroll for Anatomy and Physiology, Bacteriology, Chemistry, Personal Hygiene and Elements of Nutrition.

42-A, 42-B. Symphonic Band (3-3) Yr.
Performance of symphonic band material. Admission on approval of director.
Either half may be taken independently.

43-A, 43-B. Dance Band (1-1) Yr.
Practical dance band experience. Admission on approval of instructor.
Either half may be taken independently.

44-A, 44-B. Orchestra (2-2) Yr.
Study and performance of symphonic orchestral material. Admission on approval of instructor.
Either half may be taken independently.

45-A, 45-B. Instrumental Ensemble (2-2) Yr.
Performance of chamber music by small instrumental ensembles. Admission on approval of instructor.
Either half may be taken independently.

46-A, 46-B. Choral Conducting (2-2) Yr. Mr. Sayre
Principles and techniques of choral conducting; program building. Practice with choral groups.
Either half may be taken independently.

47-A, 47-B. Opera Workshop (2-2) Yr. Mr. Sayre
Technique of singing and acting in opera, leading to a full-scale operatic production. For advanced students. Enrollment by audition only.
Either half may be taken independently.

61-A, 61-B. Elementary Class Piano (2-2) Yr. Mr. Stone
Development of keyboard facility and sightreading. Repertory of simple piano material.
Either half may be taken independently.

NURSING

The College offers two programs in nursing. The one-year course enables the student to meet the requirements of some hospitals for entrance into their nurses training school. The student should enroll for Anatomy and Physiology, Bacteriology, Chemistry, Personal Hygiene and Elements of Nutrition.

The two-year course satisfies the requirements for pre-nursing, for the degree of Associate in Arts, and may satisfy the lower division requirements in the College of Letters and Science.

PHILOSOPHY

Preparation for the Major: Philosophy 1, 10.

1-A, 1-B. Logic: Deductive and Inductive (12-14 U.C.) (3-3) Yr. Mr. Gladden
A systematic study of the formal elements of logic and its use in science and practical life. The nature of argument, fallacy, definition, propositional relations, syllogisms and dilemma. The theory of indirect evidence, canons, generalization, hypothesis, probability, and statistical method.

6-A, 6-B. Introductory Philosophy (6A-6B U.C.) (3-3) Yr. Mr. Gladden
In this course philosophy is presented as an attempt to think reflectively and critically upon the problems of everyday experience. Emphasis is placed upon philosophical questions which arise in discussions concerning education, the arts, religion, and the social and natural sciences. Lectures, discussions, collateral reading, and reports on special topics.

PHYSICAL EDUCATION

Physical education is required of all men and women. Choice of activity is allowed.

A student who has reason to believe that he will be excused from physical education because of physical disability must register and report to a physical education class until he has had a conference with the head of the department and the College physician.

Preparation for the Major, University of California, Berkeley: Required: Chemistry 1, Biology 1, Physiology 2; Psychology 1; Physical Education (3 semester units); and training in the various athletic activities. Recommended: English 12; Hygiene 1; Bacteriology 1.

Preparation for the Major, University of California, Los Angeles: Required: Chemistry 3; Physiology 2; Biology 1; Hygiene 1; Physical Education (2 semester units) and training in the various athletic activities.

For Men

The physical education course for men comprises activities for groups and individuals. Group activities include bowling, touch football, playground ball, basketball, and volleyball. Individual activities include golf,
swimming, badminton, and tennis.

A broad intramural program gives the student who is unable to make the varsity team a chance to participate in his favorite game. The activities in which he may engage are touch football, softball, basketball, tennis, bowling, and track and field. The intramural program is open to any man who has not earned a varsity letter in that particular sport and who is a regularly enrolled student.

After registering in the physical education class assigned by the counselor, men students may substitute practice and participation in a major sport after they have been accepted by the coach and excused by their physical education instructor. However, they must report back to a physical education class within one week after the close of the season. Athletic candidates failing to register at the beginning of a semester, or to return at the close of an athletic season, will not be given a grade for the semester’s work.

UNIFORMS

A regular uniform has been adopted to be worn by participants in physical education activities. Students are requested to supply themselves with the equipment described below before the opening of school.

Uniform for men at Riverside College: White gymnasium shirt, orange shorts, and rubber soled athletic shoes.

LOCKERS

A lock, locker and towels, for which he will be responsible, will be issued to each student.

General Course Requirements

1-A, 1-B. General Physical Education (1-1) Yr. Mr. Steponovich, Mr. Hammerschmidt, Mr. Hucklebridge

Meets the California requirement for physical education. General Physical Education classes are offered for students who enjoy team activities. Opportunity is given for competition between squads in games which provide fun and activity.

Instruction is given in the rules and techniques of each activity, and opportunity is provided to participate in order to improve the skill and ability of each student and to play the game with some degree of enjoyment and pleasure. This method assures each student the gaining of knowledge of physical activities while developing himself physically and improving his general health. The rules, sportsmanship and sports ethics are discussed and taught in class and on the athletic field. Two hours weekly.

2-A, 2-B. Elementary Tennis (1-1) Yr. Mr. Steponovich

Instruction in fundamental rules of tennis, such as ground strokes, service, volley, and smash. Students are classified as beginners, intermediate and advanced and given instruction accordingly. Two hours weekly.

4-A, 4-B. Swimming (1-1) Yr. Mr. Hollock

Fundamental instruction in all swimming strokes, crawl, elementary back, side, free style, and breast; realization of natural buoyancy, ability to float and dive.

5-A, 5-B. Badminton (1-1) Yr. Mr. Hucklebridge

Fundamentals, techniques, strategy and rules of the game. Students must be able to demonstrate a competent serve, forhand and backhand drives, a “kill shot” and the placement of these shots on the court.

6-A, 6-B. Bowling (1-1) Yr. Mr. Hammerschmidt

Bowling is a game that makes possible the development of a skill that can be enjoyed for a lifetime because it does not demand brawn. It teaches timing, balance, and coordination. Rules, bowling etiquette, and how to keep score; instruction on the techniques of footwork and handling the ball. Student pays for his own bowling at a reasonable student rate and provides his own transportation.

7-A, 7-B. Apparatus and Tumbling (1-1) Yr.

Includes exercises and stunts on apparatus. Offered to all men students interested in developing neuro-muscular control and skills that contribute to a more healthful and enjoyable period of exercises. Recommended for all Physical Education majors. Includes opportunities to exercise on parallel bars, side horse, weight lifting, horizontal bar, rope climbing and tumbling. The value of the course is expressed by the accomplishment of individual feats and muscular control along with personal development that is satisfying to the individual interested in his own physical well-being.

Intercollegiate Sports

16. Advanced Football (1-1) Mr. Steponovich

Team candidates only.

Includes instruction and preparation for participation on the football team. 5-8 hours weekly.
COURSES OF INSTRUCTION

17-A, 17-B. Advanced Basketball (1-1) Yr. Mr. Gilkeson
Team candidates only.
Instruction and preparation for participation on basketball team. 5-8 hours weekly.

18-A, 18-B. Advanced Track (1-1) Yr. Mr. Hucklebridge
Team candidates only.
Instruction and preparation for participation on the field teams. 5-8 hours weekly.

19. Advanced Baseball (1-1) II Mr. Hammerschmidt
Team candidates only.
Instruction and preparation for participation on the baseball team. 5-8 hours weekly.

20. Cross Country (1) I Mr. Hucklebridge
Team candidates only.
Instruction and preparation for participation on the cross country team. 5-8 hours weekly.

21. Advanced Golf (1) II Mr. Gilkeson
Team candidates only.
Instruction and preparation for participation on the golf team. 5-8 hours weekly.

22-A, 22-B. Advanced Tennis (1-1) Yr. Mr. Steponovich
Team candidates only.
Instruction and preparation for participation on the tennis team. 5-8 hours weekly.

23-A, 23-B. Advanced Swimming (1-1) Yr.
Team candidates only.
Instruction and preparation for participation on the swimming team. 5-8 hours weekly.

Academic Courses

30-A. First Aid (2) I Mr. Hammerschmidt

COURSES OF INSTRUCTION

The standard Red Cross course. Designed to teach the individual how to prevent accidents; to furnish him with sufficient knowledge to determine the nature and extent of an injury; and to train him as a first aider and to do the right thing at the right time. Students completing the course will have an opportunity to pass the tests for the Red Cross First Aid certificate.

31-A. Life Saving and Water Safety (2) I Mr. Hollock
Prerequisite: Ability to pass American Red Cross, intermediate or swimmers test.

The American Red Cross standard courses in water safety. Offered especially for the student majoring or minoring in physical education. Certificates granted to each student who completes the requirements. Study, demonstration, and practice of emergency treatment.

32-A. Introduction to Physical Education (1) I
An orientation course on the nature of physical education and the qualifications demanded of successful workers in this field. Opportunities for placement and methods of securing positions, as well as degree and credential requirements. Students wishing to pursue professional training in physical education will be assisted in formulating a program of study. Students planning to enter the field of physical education should take this course in their freshman year.

33-A, 33-B. Fundamental Activities (4-4) Yr. Mr. Hucklebridge
Prerequisite: 32-A, or may be taken concurrently.

Designed for major and minor students in physical education in their freshman year only. Fundamental knowledges, skills, and rules of the following major sports: Badminton, bowling, tennis, skiing, handball, golf, volleyball, boxing, and track. 6 hours weekly.

Either half may be taken independently.

34-A, 34-B. Advanced Fundamental Activities (4-4) Yr. Mr. Hucklebridge
Prerequisite: 32-A.

Designed for major and minor students in physical education in their sophomore year only. Fundamental knowledges, skills and rules of the following major sports: Football, speedball, basketball, wrestling, apparatus and gymnastics, baseball, softball, archery, square dancing and social dancing.

35. Community Recreation (2) I Mr. Hucklebridge
For those who wish to specialize in physical education, recreation, teaching, or related occupations. Theory and practical applications of public recrea-
tion and its problems. Play movement, the recreational needs of various age and occupational groups, the qualifications for recreational leadership, and the organization and direction of community recreational activities with special reference to the local school and municipal playgrounds. A term project is required of all students. 2 hours weekly.

36. Coaching Methods (2) II Mr. Hucklebridge
Emphasizes the principles essential to acquiring skills, knowledge, attitudes, appreciations, and understandings in sports. Extensive reading on the subject required. Limited to second year students who have completed the required first year courses of the physical education major.

Physical Education for Women
The following courses are offered to women in the Physical Education Department. Any individual sport may not be taken for more than one year.

1-A, 1-B. Archery (1-1) Yr. Two hours weekly Mrs. Huntley
2-A, 2-B. Badminton (1-1) Yr. Two hours weekly Mrs. Huntley
3-A, 3-B. Bowling (1-1) Yr. Two hours weekly Mrs. Huntley
5-A, 5-B. Golf (1-1) Yr. Two hours weekly Mrs. Huntley
9-A, 9-B. Swimming (1-1) Yr. Two hours weekly Mr. Hallock
11-A, 11-B. Tennis (1-1) Yr. Two hours weekly Mrs. Huntley
13-A, 13-B. W. A. A. Sports (1-1) Yr. Mrs. Huntley

In addition to the individual sports offered in physical education, a more intensive training is given in team sports preparatory to interclass games, sports days, and events sponsored by the Women's Athletic Association. Two hours weekly.

PHYSICS

1-A, 1-B. General (1-A, 1-B, U.C.L.A.) (4-4) Yr. Mr. Twogood
Prerequisite: High school physics and high school mathematics including trigonometry with average grade of B or better in both fields.
Mechanics, properties of matter, heat and sound. Primarily for students who expect to major in physics, and for students in engineering, chemistry, and architecture. Mathematics 3-A must be taken concurrently with Physics I-A. Three lectures and one laboratory period weekly.

1-C, 1-D. General (1-C, 1-D, U.C.L.A.) (3-3) Yr. Mr. Twogood
Prerequisite: Physics 1-A, 1-B.
Magnetism, electricity, and light presented as a continuation of Physics 1. Primarily for engineering students and for those who expect to major in physics. Two lectures and one laboratory period weekly.

2-A, 2-B. General (2-A, 2-B, U.C.L.A.) (4-4) Yr. Mr. Hill
Prerequisite: Math B and Math D or consent of instructor.
Properties of matter, mechanics, heat, wave motion, and sound are covered the first semester. Light, electricity and magnetism are covered the second semester. Meets the requirements for pre-medical or pre-dental students. Three one-hour lectures and one three-hour laboratory period weekly.

5. General (5, U.C.L.A.) (2) I Mr. Hill

50-A, 50-B. Physical Science Survey (3-3) Yr. Mr. Hill
This is an integrated science survey course covering the fields of geology, physics, chemistry, and astronomy. The course will stress the development of scientific thinking and an appreciation of the use of all fields of scientific knowledge in our modern civilization. Three lectures weekly.

PHYSIOLOGY
Preparation for the major: Required: Physiology I; Physics 2; Chemistry 1, 13. Recommended: Zoology 1; Chemistry 10, 11; a reading knowledge of French and German.

Physiology 1 or 2 is accepted in satisfaction of the requirement in hygiene for the degree of Associate in Arts.

1-A, 1-B. General (1-A, 1-C, U.C.) (3-3) Yr. Dr. Kneucker
Prerequisite: High school chemistry. Recommended: a high school biological science course, or chemistry 3 concurrently.
A study of the physiological processes in man. The relating of such functions to the muscular, circulatory, respiratory, digestive, nervous, excretory, reproductive and endocrine systems of the body. Two lectures and one laboratory period weekly.

2-A, 2-B. Physiology and Anatomy (4-4) Yr. Dr. Kneucker
Same as Physiology 1, but with an additional laboratory period each week devoted to anatomy. Designed especially for majors in nursing, physical education, or dietetics. Two lectures and two laboratory periods weekly.
POLITICAL SCIENCE

1-A, 1-B. Political Science (1 and 2, U.C.) (3-3) Mr. Mackenzie
The first half of the course deals with the principles and problems of
government, with emphasis on national government in the United States;
the second half is a comparative study of the governments of Great Britain,
France, Russia, and Japan.
Either half may be taken independently.

PSYCHOLOGY

Preparation for the Major: Required: Psychology 1, and either Physi-
ology 1 or Zoology 1. Recommended: French, German, Chemistry, Physics.

1-A, 1-B. General Psychology (1-A, 1-B, U.C.) (3-3) Yr. Mr. Gladden
Recommended Prerequisite: Biology 1, or Zoology 1, or Physiology 1 or
2, or Psychology 6.
The scientific study of mental processes and human behavior. Required for
upper division courses in psychology and education.

6-A, 6-B. Psychology (23, U.C.L.A.) (2-2) Yr. Miss Bickford
A practical course emphasizing the development of balanced personality.
For students interested in studying the interplay of emotional and intel-
lectual factors in the development of personality. Includes practice in study
techniques.

SOCIOLOGY

1-A, 1-B. Sociology (1-A, 1-B, U.C.L.A.) (3-3) Miss Fraser
A survey of social science. A description of man's life with particular
emphasis on life in America which includes the study of social institutions
and social problems.

SPANISH

Preparation for the Major: Required: Spanish 1, 2, 10 (each course
with not less than a C average); a minimum of two years of high school
Latin, or Latin 1. Recommended: Spanish 11; French, Italian, and addi-
tional Latin; History 8.

1-A, 1-B. Elementary Spanish (1 and 2, U.C.) (4-4) Yr. Miss Kincell
The essentials of Spanish grammar with careful drill on pronunciation,
reading, and writing, dictating and memorizing; translation of short stories
and plays, with conversation based on Spanish texts. Collateral reading,
with discussion in Spanish by the class. Open to students who have had no
Spanish, or only one year of high school Spanish. An additional one-hour
period for laboratory work is required weekly.

2-A, 2-B. Intermediate Spanish (3 and 4, U.C.) (4-4) Yr. Miss Kincell
Prerequisite: Spanish 1, or two or three years of high school Spanish
with grade of at least B.
Reading of Spanish novel, plays, short stories, periodicals with oral and
written exercises based upon class work. Reports on collateral reading.
Further study of Spanish grammar and syntax. Course is conducted largely
in Spanish.

10-A, 10-B. Advanced Spanish (25-A, 25-B, U.C.) (3-3) Yr. Miss Kincell
Prerequisite: Spanish 2, or four years of high school Spanish.
The modern and contemporary Spanish novel and drama. The first semester
is devoted to a study of the novel; the second semester to the drama. Selec-
tions from the works of important novelists and dramatists are read and
discussed in class and as collateral work, with reports in Spanish. History of
the Spanish novel and drama. Advanced theme writing upon selections read.

11-A, 11-B. Advanced Spanish Composition and Conversation (2-2) Yr.
Miss Kincell
Prerequisite: Spanish 2, four years of high school Spanish, or approval
of instructor.
A review of grammar, composition, and conversational practices. Individual
projects. This course is designed to meet the requirements of two classes
of students: (1) those desiring further preparation for courses in the uni-
versity; (2) those desiring greater facility in the practical use of the
language. Spanish majors are advised to take this course concurrently with
Spanish 10.

12-A, 12-B. Advanced Spanish (1-1) or (2-2) Yr. Miss Kincell
Prerequisite: Spanish 10 or permission of instructor.
Directed reading in Spanish literature. Oral and written reports submitted
at weekly conferences.

14. Advanced Spanish (1-1) or (2-2) Yr. Miss Kincell
Prerequisite: Spanish 10 or permission of instructor.
Directed reading in Latin-American literature. Oral and written reports
submitted at weekly conferences.
50-A, 50-B. Beginning Conversational Spanish (2-2) Yr. Miss Kincell
Open to students who have had no Spanish or only one year of high school Spanish. (Is not equivalent to Spanish 1.)
A supplementary course, with oral approach, designed for the student who requires review and oral drill upon the work he has previously taken, as well as for the beginner. Emphasis upon spoken Spanish and the early reading of easy stories and newspaper articles relative to Spanish and Spanish-American cultural materials. Attention to high frequency idioms and vocabulary building.

51-A, 51-B. Intermediate Conversational Spanish (2-2) Yr. Miss Kincell
Open to students who have had Spanish 1 or two years of high school Spanish. Same type of Course as Spanish 5.

VOCATIONAL COURSES
Students wishing to enroll in vocational courses should confer with the Registrar. Units received for work completed in shop courses will be counted in partial satisfaction of the requirements for the Associate in Arts degree, but the evaluation of such units for transfer will be left to the institution to which transfer is made.

ZOOLOGY
Preparation for the Major, U. C. (Berkeley): Required: Zoology 1, and high school chemistry or Chemistry 1. Recommended: Chemistry 13, 14; French or German; elementary courses in other biological subjects.

1-A, 1-B. General Zoology (1-A, 1-B, U.C.) (5-5) Yr. Mr. Jaeger
A study of the structure, classification, and the life histories of animal organisms. The essentials of animal embryology are covered. Lectures, discussions, and field trips. The principal animal types are studied in the laboratory. Three lectures and two laboratory periods weekly.

12. Entomology (4) II
Prerequisite: Biology 1 or Zoology 1, or equivalent. Open to students with the approval of the instructor.
Anatomy, physiology, and life history studies of insects, with special reference to insects of economic importance. Lectures, conferences, laboratory, and field work.

DEPARTMENT OF AERONAUTICS
RIVERSIDE COLLEGE
The Department of Aeronautics of Riverside College owns shop and laboratory equipment and audio-visual training materials valued at approximately $20,000. Most of this material was purchased through the War Assets Administration at a fraction of the $200,000 original cost. The Department of Aeronautics also has a U. S. Weather Bureau license for a teletype drop on the C. A. A. Weather Circuit A series 8009 and a C. A. A. Air Agency Certificate with ratings for Basic Ground School and Advanced Ground School.
The Department of Aeronautics offers pre-engineering (aeronautical) courses as well as several two-year courses leading to the Associate in Arts degree with a major in aeronautics. Additional courses in aeronautics will be added to the department from time to time when there is sufficient demand for them.

11. Advanced Aeronautical Drafting (See Engineering 3) Mr. Shepard
71-A, 71-B. Introduction to Aeronautics (2-2) Yr. Mr. Rohrer
An introduction to the field of aviation, including the history and development of commercial, military, and private flying; manufacturing and research; employment areas; elements of theory of flight, navigation, meteorology, and civil air regulations; and a few hours of link trainer and flight indoctrination experiences. The emphasis of the course is placed on the social aspects of aviation. Two lectures weekly, two field trips yearly, and occasional laboratory periods.

76-A, 76-B. Basic and Advanced Pre-Flight (3-3) Yr. Mr. Rohrer
Basic pre-flight, including elementary navigation, meteorology, radio communications, general service of aircraft, and civil air regulations. This course meets the requirements of the C. A. A. for Basic Ground School. Advanced pre-flight, continuation of basic pre-flight with additional instruction in civil air regulations, navigation, meteorology, and radio. Also instruction covering aircraft structures, theory of flight, and aircraft engines. This course meets the requirements of the C. A. A. for Advanced Ground School. Two lectures and one laboratory period weekly.

79-A, 79-B. Flight Instruction (11/2-11/2) Yr.
And aircraft rentals, available through arrangements with a privately owned flight school. Flight schedules to be arranged through the Department of Aeronautics.