OFFICERS OF ADMINISTRATION

THE BOARD OF EDUCATION

LEWIS P. ALABASTER (1951)
(Appointed September 22, 1947)
3564 Ramona Drive

MRS. WILLARD G. BABCOCK
2501 Prince Albert Drive

JOHN G. GABBERT (1952)
3471 Rubidoux Drive

MRS. E. M. BONNETT, JR. (1951)
7515 Victoria Avenue

GEORGE C. POOLEY, JR. (1952)
3979 Chapman Place

OFFICERS OF THE BOARD

President: JOHN G. GABBERT
Vice Pres.: LEWIS P. ALABASTER
Clerk: MRS. WILLARD G. BABCOCK

SUPERINTENDENT OF SCHOOLS

IRA C. LANDIS
School Administration Building

ASSISTANT SUPERINTENDENT OF SCHOOLS

CARL C. CRESS
School Administration Building

EXECUTIVE OFFICERS

President: ARTHUR G. PAUL
Assistant to the President; Registrar: ORLAND W. NOBLE
Dean of the Faculty: THOMAS G. ALLISON
Dean of Women: FRANCES M. FRASER
Director of Adult Education: JOHN C. OHEMEN
Librarian: EUGENE C. MCKNIGHT
Fairfax Corner

Night Scene
Between Classes
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1949

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AUGUST

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OCTOBER

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1950

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SCHOOL CALENDAR

College Year
September 12, 1949 - June 7, 1950

1949

Sept. 12, Monday - Instruction begins
Nov. 11, Friday - Armistice Day, holiday
Nov. 24-25, Thursday, Friday - Thanksgiving recess
Dec. 2, Friday - First progress grade report. Last day to remove withheld grades.

Dec. 5, Monday - Beginning of second twelve weeks
Feb. 22, Wednesday - Washington's birthday, holiday
March 10, Friday - Second progress grade report. Last day to remove withheld grades.

March 13, Monday - Beginning of third twelve weeks
March 27-31 incl. - Spring recess
May 30, Tuesday - Memorial day, holiday
May 29, 31, June 1, 2, 5, 6 - Final Examinations
June 7, Wednesday - Last day to remove withheld grades
June 7, Wednesday - Commencement Exercises

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

DIRECTORY

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
Library
Office - Librarian, Assistant Librarian
Reference and reading room

SOUTH CORRIDOR:
Office of student publications - Room 114
Y Shack
Instructors' parking lot

EAST CORRIDOR:
Office of Adult Division - Room 117
Director of Adult Education
Secretary to the Director
College Bookstore - Room 101
Women's Lounge - Room 116

WEST CORRIDOR:
Tigers' Den - 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
La Casa de Lenguas - Fairfax Avenue
### DEPARTMENTS OF INSTRUCTION

Rooms are numbered consecutively beginning at the archway turning east.

#### QUADRANGLE, FIRST FLOOR

<table>
<thead>
<tr>
<th>Department</th>
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<td>Physics, Engineering</td>
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<td>Physiology</td>
<td>109</td>
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<tr>
<td>Commerce</td>
<td>108, 120, 300</td>
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<tr>
<td>Botany</td>
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<td>Bacteriology</td>
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<td>English: Public Speaking, Dramatic Art</td>
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#### QUADRANGLE, SECOND FLOOR

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<td>Zoology, Biology</td>
<td>206, 207</td>
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<tr>
<td>History, Sociology</td>
<td>208, 211</td>
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<tr>
<td>Economics, Political Science</td>
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<tr>
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#### BASEMENT

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<td>Physics, Photographic Laboratory</td>
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<td>Household Arts and Science</td>
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<tr>
<td>Spanish</td>
<td>La Casa de Lenguas</td>
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### 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 Autumn, Winter, or Spring Quarter, 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

Admission as a special student may be granted to the applicant of college age who is not a high school graduate or who wishes to enroll for fewer than ten 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 review; they do not have laboratory privileges, nor do they receive any academic credit for the courses which they attend.
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 Autumn Quarter.

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 September 23, December 9, and March 17, 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 quarter until all his records are complete.

STUDY LIST REGULATIONS

Official recognition is given only to those courses which have been approved by the counselor and Registrar and duly entered upon the matriculation 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 quarter may enroll for 18 units in the following quarter. The student who has made an A grade in all work undertaken in any one quarter may enroll for 19 units in the following quarter.

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.

STUDY-LIST CHANGES

Study-lists may be changed on or before the following dates: September 16, December 9, March 17; that is, a course or courses may be dropped, or

*Offered provided enough students enroll.
others added, provided that all changes are submitted to and approved by the Registrar.

During the weeks, September 19-23, December 5-9, March 13-17, 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.

On September 26, December 12, and March 20, study-lists 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 November 4, February 10 or May 8 remains upon the Matriculation Card, the student receiving at the end of the quarter whatever grade the work and circumstances warrant.

Courses are not considered dropped unless the Office has been notified formally upon the forms provided.

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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 90 quarter units* (60 semester units), 30 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 (1) or (2) or (3).

(1) Physical Education (6 quarters) and one of the following:
   Bacteriology 1, Hygiene 1, Physiology 1.
(2) Physical Education (3 quarters) and Military Science (3 quarters) and Hygiene 1.
(3) Military Science (6 quarters) and Hygiene 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 30 quarter 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.

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*A unit represents one hour of passing work for a quarter term of twelve 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.
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.

The following curriculum is suggested as a well-balanced academic program for the average first year student whether he expects to terminate his education in Riverside College or to transfer to a senior college or university.

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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<tbody>
<tr>
<td>English 1</td>
<td>3 units</td>
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<tr>
<td>Foreign language</td>
<td>3 or 4 &quot;</td>
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<tr>
<td>Natural science</td>
<td>3, 4, or 5 &quot;</td>
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<tr>
<td>Social science</td>
<td>3 &quot;</td>
</tr>
<tr>
<td>Physical Education or Military Science</td>
<td>½ &quot;</td>
</tr>
<tr>
<td>Electives</td>
<td>0, or 1 &quot;</td>
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<tr>
<td><strong>Total (maximum)</strong></td>
<td><strong>16½ units</strong></td>
</tr>
</tbody>
</table>

**Official Transcript**

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 and carries with it honorable dismissal. 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 is furnished free upon request.

**Copy of Record**

One copy of record is furnished free to the student requesting it. The copy of record carries honorable dismissal but no academic recommendation.
<table>
<thead>
<tr>
<th>Courses of Instruction</th>
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<tbody>
<tr>
<td>Business</td>
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<tr>
<td>General Business</td>
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<tr>
<td>Banking and Finance</td>
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<tr>
<td>Industry</td>
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<tr>
<td>Management and Industry</td>
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<tr>
<td>Marketing</td>
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<tr>
<td>Office Management</td>
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<tr>
<td>Chemistry</td>
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<tr>
<td>Pre-Chiroprody</td>
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<tr>
<td>Pre-Dental</td>
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<tr>
<td>Economics</td>
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<tr>
<td>Engineering</td>
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<tr>
<td>Aeronautical Engineering</td>
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<td>Chemical Engineering</td>
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<tr>
<td>Civil Engineering</td>
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<tr>
<td>Electrical Engineering</td>
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<tr>
<td>Mechanical Engineering</td>
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<tr>
<td>Mining Engineering</td>
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<tr>
<td>Petroleum Engineering</td>
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<tr>
<td>English</td>
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<tr>
<td>English</td>
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<tr>
<td>English and Speech (Teaching)</td>
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<tr>
<td>Pre-Entomology and Parasitology</td>
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<tr>
<td>Forestry</td>
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<tr>
<td>French</td>
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<tr>
<td>Geography</td>
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<td>Geology</td>
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<td>German</td>
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<td>History</td>
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<td>Home Economics</td>
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<tr>
<td>General</td>
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<td>Clothing</td>
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<tr>
<td>Dietetics</td>
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<td>Major for Teachers</td>
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<tr>
<td>Promotional Work</td>
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<td>Industry</td>
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<td>International Relations</td>
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<td>Journalism</td>
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<tr>
<td>Laboratory Technician: Medical Technician</td>
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<tr>
<td>Pre-Landscape Design</td>
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<td>Pre-Legal</td>
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<tr>
<td>Office Management</td>
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<tr>
<td>Mathematics</td>
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<tr>
<td>Pre-Medicine</td>
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<tr>
<th>Courses of Instruction</th>
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<tbody>
<tr>
<td>Pre-Metallurgy</td>
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<tr>
<td>Meteorology</td>
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<tr>
<td>Music (Teachers)</td>
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<tr>
<td>Nursing</td>
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<tr>
<td>Pre-Nursing</td>
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<tr>
<td>Public Health Nursing</td>
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<tr>
<td>Pre-Optometry</td>
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<td>Pre-Osteopathy</td>
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<td>Pre-Pharmacy</td>
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<td>Philosophy</td>
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<tr>
<td>Physical Education</td>
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<tr>
<td>Men</td>
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<td>Women</td>
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<td>Physical Therapy</td>
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<td>Physics</td>
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<tr>
<td>General</td>
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<tr>
<td>Applied: Acoustics</td>
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<tr>
<td>Chemical</td>
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<tr>
<td>Electricity and Magnetism</td>
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<tr>
<td>Political Science</td>
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<td>General</td>
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<td>Politics</td>
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<td>Public Relations</td>
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<td>Psychology</td>
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<td>Public Service</td>
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<tr>
<td>Financial Administration</td>
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<tr>
<td>Personnel Administration</td>
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<td>Public Management</td>
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<tr>
<td>Public Welfare Administration</td>
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<tr>
<td>Sociology (Teaching)</td>
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<tr>
<td>Spanish</td>
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<tr>
<td>Teaching Major (Elementary)</td>
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<tr>
<td>Zoology</td>
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<tr>
<td>Fish and Game</td>
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<tr>
<td>Genetics: Museum work: Park Management: Teaching</td>
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<tr>
<td>Physiology</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Specialized Courses</th>
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<tbody>
<tr>
<td>Aeronautics</td>
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<tr>
<td>Aircraft and Engine Mechanics</td>
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<tr>
<td>General Clerical</td>
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<tr>
<td>Cosmetology</td>
</tr>
<tr>
<td>General Education</td>
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<tr>
<td>Journalism and Newspaper Work</td>
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<tr>
<td>Secretarial Science</td>
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</tbody>
</table>
**AERONAUTICS**

(See also pages 53, 54)

**1. Introduction to Aeronautics**  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.
Two units, each quarter.

**2. Meteorology** (3 U.C.L.A., Geography 111 and 112 U.C.)  Mr. Rohrer
Prerequisites: Algebra and Physics.
A study of the atmosphere, weather elements, clouds, fog, atmospheric circulation fronts and frontogenesis, thunderstorms. Practice in making weather observations and interpreting teletype reports. A study of the fundamental principles of weather map analysis, weather forecasting, and climatology. Two lectures and one laboratory period weekly.
Three units, each quarter.

**30. Aerodynamics** (Engineering 121 U.C.)  Mr. Rohrer
Prerequisites: Mathematics 3 and Physics 1.
Physical properties of the air, air flow, air foils, lift and drag computations, propeller theories, boundary layer control, compressibility, performance, elementary design factors, load factors, equilibrium and stability, weight and balance control, special problems of performance and design. Limited to second-year students. Three lectures and one laboratory period weekly.
Four units, each quarter.

**31. Aircraft Jet Propulsion**  Mr. Rohrer
Prerequisites: Three years of high school mathematics, including trigonometry, physics, and chemistry.
A study of the principles of the continuous thermal duct, the intermittent thermal duct, continuous turbine-compressor unit, and liquid rocket motor. Emphasis shall be placed on design and performance computations, including problems of fuel selection, materials, and problems of super-sonic and space flight. Two lectures and one laboratory period weekly.
Three units, second 18 weeks.

**99. Independent Study**  Mr. Rohrer
Prerequisite: Approval of the instructor.
Special problems in some phase of aeronautics consistent with the student's program of study. This course is limited to second-year students.
Two or three units, each quarter.

**ANATOMY**

(Physiology and Anatomy, See Page 49)

**ANTHROPOLOGY**

1. Introductory Anthropology (2A U.C.)  Mr. Peck
A survey of the development of primitive man previous to recorded history. Growth of earliest cultures. Attention will be given to the story of the Indians of the American Southwest.
Three units, second 18 weeks.

**ARCHITECTURE**

1. Residential Design  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.
Three units, each quarter.

2. Furniture Design  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.
Three units, each quarter.

4. History of Architecture  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 1 or 2.
Two units each quarter.
11. **Commercial Structures**
Mr. Shepard

*Prerequisite:* Architecture 1.

Original designs using same processes as Architecture 1 and includes models.

Three units, each quarter.

12. **Interior Design**
Mr. Shepard

*Prerequisite:* Architecture 2.

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.

Three units, each quarter.

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**ART**

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

1. **History and Appreciation of Art** (1A-1B U.C.)
Mr. Cooper

An introductory survey of the history of architecture, painting, sculpture and the minor arts.

a. Prehistoric and ancient periods.

b. The middle ages.

c. The renaissance and modern periods.

Three units, each quarter.

4. **Form** (2A-2B U.C.)
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.

Two units, each quarter.

5. **Drawing and Painting** (3A-3B U.C.)
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.

Two units, each quarter.

7. **Figure Drawing and Anatomy**

Intensive drawing from the model. Study of anatomy as related to art.

One unit, each quarter.

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20. **Landscape**

A popular course which aims to develop the student's skill in landscape painting through intensive work, mostly out-of-doors.

Two units, each quarter.

21. **Water Color Painting** (14A-14B U.C.)
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.

Two units, each quarter.

22. **Advanced Problems in Art**
Mr. Cooper

*Prerequisites:* Art 4 and any other art course.

Intended for the student who plans to continue in a special field.

Two units, each quarter.

(See Adult Division also Page 56)

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**ASTRONOMY**

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

1. **Introduction to Astronomy** (1 U.C. and U.C.L.A.)
Mr. Rohrer

*Prerequisite:* None.

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 periods and two or three field trips. Two lectures weekly.

Two units, each quarter.

2. **General Astronomy Laboratory** (2 U.C. and U.C.L.A.)
Mr. Rohrer

*Prerequisites:* Astronomy 1 or Astronomy 7 (May be taken concurrently).

Laboratory problems in solar and stellar astronomy, observational equipment and techniques, planetary motions, sun spots, meteors, stellar motions, stellar
spectroscopy, eclipses, determinations of time, latitude, and longitude. One laboratory period each week.

One unit, each quarter.


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.

Three units, each quarter.


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

Two units, each quarter.

12. Spherical and Nautical Astronomy (U.C.L.A. 4 and 12) Mr. Rohrer

Prerequisites: Algebra, trigonometry, and Astronomy 1 or 7.
Spherical trigonometry, the celestial sphere, refraction, planetary motions, time, aberration, parallax, proper motions of the stars, binary star orbits, occultations and eclipses, astronomical photography, the sailings, and principles and practices of celestial navigation. Two lectures and one laboratory weekly.

Three units, each quarter.

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; Hygiene 3.

1. General Bacteriology (2 and 4 U.C.) Mr. 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; an 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.

Three units, each quarter.

BIOLOGY

1. General Biology 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.

Three units, each quarter.

2. Natural History of Southern California 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.

Two units, each quarter.

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.

1. General Botany (1 U.C.; 1 U.C.L.A.) Miss Cooper

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.

Five units, each quarter.
2. **Field Botany (3 U.C.L.A.)** Miss Cooper
   
   **Prerequisite:** None.
   
   An introduction to the form, habit, and classification of native and ornamental plants. Frequent field trips. Two laboratory periods weekly.
   
   Two units, each quarter.

15. **Plant Morphology and Anatomy (2, 6 U.C.L.A.)** 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.
   
   Four units, each quarter.

**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. **General Chemistry (1A-1B U.C.)** Mr. Brauti, Miss Cooper, Mr. Haslam
   
   **Prerequisites:** High school chemistry with not less than a B grade, or Chemistry 3, and mathematics through trigonometry. High school physics recommended.
   
   A basic course in the principles of chemistry with special emphasis on chemical calculation. The spring quarter is devoted to qualitative analysis. This course is required in colleges of engineering, chemistry, agriculture; and of pre-medical, pre-dental, pre-optometry, and pre-pharmacy students; of those majoring in chemistry, bacteriology, geology, and physics, and for those planning to specialize in dietetics. Three lectures and two laboratory periods weekly.
   
   Five units, each quarter.

3. **General Chemistry (2A-2B U.C.)** Mr. Brauti, Miss Cooper, Mr. Haslam
   
   An introductory course emphasizing the principles of inorganic chemistry and including a brief introduction to elementary organic and physiological chemistry.
   
   This course meets the chemistry requirement for nurses, for majors in physical education, and for majors in home economics. Three lectures and one laboratory period weekly.
   
   Four units, each quarter.

*10. **Quantitative Analysis** Mr. Brauti
   
   **Prerequisites:** Chemistry 1.
   
   The principles and methods of quantitative analysis and their application to simple methods of commercial analysis. Two lectures, autumn and winter quarters.
   
   Two units, first 18 weeks.

*11. **Quantitative Analysis: Laboratory** Mr. Brauti
   
   To be taken in conjunction with, or to follow, Chemistry 10. Three laboratory periods weekly, autumn and winter quarters.
   
   Three units, first 18 weeks.

*13. **Organic Chemistry** Mr. Haslam
   
   **Prerequisites:** Chemistry 1.
   
   The compounds of carbon. Two lecture periods weekly, each quarter.
   
   Three units, second 18 weeks.

*14. **Organic Chemistry: Laboratory** Mr. Haslam
   
   To be taken either in conjunction with, or to follow, Chemistry 13. The preparation, properties, and reactions of typical organic compounds. One or two laboratory periods weekly, each quarter.
   
   Two or three units, second 18 weeks.

**COMMERCE**

*1. **Principles of Accounting (1A-1B U.C.L.A., 6A-6B U.C.)** Mr. Haas, Mr. Hislop
   
   **Concurrent Requirement:** Accounting problems.
   
   Two lectures and one laboratory period weekly. Limited to second-year students, or approval of instructor.
   
   Three units, each quarter.

**Accounting: Laboratory (2A-2B U.C.L.A.)** Mr. Haas, Mr. Hislop
   
   A course in supplementary laboratory problems. Required of all students who register for Principles of Accounting.
   
   One unit, each quarter.

*2. **Applied Bookkeeping** Mr. Haas
   
   Elementary principles of double entry bookkeeping for secretaries, small business concerns, and personal finance. Requires no previous knowledge of bookkeeping. Two lectures weekly.
   
   Three units, each quarter.

*3. **Business 51** Mr. Haas
   
   A study of small business organization and operation. Emphasis will be placed on types of organization, location, problems of finance, methods of merchandising, recruitment and training of personnel, and allied topics.
Each student will select a type of small business in which he is interested, and will engage in the study of that business throughout the course. Three lectures weekly, and laboratory by arrangement.

Three units, each quarter.


Prerequisite: Sophomore standing.

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

Three units, each quarter.

**Business 61**

An introductory course in a civil law, designed primarily for the business student. Major emphasis of the course is upon contracts and negotiable instruments; but also covered is bailments, guaranty and suretyship, insurance, agency, partnership, corporation, mortgages, and current social legislation. Attention is given to logical reasoning of cases, and application of rules of law to everyday problems of business. Three lectures weekly.

Three units, each quarter.

**Business Mathematics**

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. Three lectures weekly, fall and winter quarters.

Two units, each quarter.

**Beginning Shorthand** (Gregg System)

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

Five units, each quarter.

**Advanced Shorthand** (Gregg System)

Prerequisite: Beginning Shorthand or equivalent.

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

Five units, each quarter.

**Beginning Typing**

Three units, each quarter.

**Advanced Typing**

Prerequisite: Beginning Typing, or equivalent.

Business letters, statistical typing, manuscripts, legal typing.

Three units, each quarter.

**Office Practice**

Prerequisite: One year of shorthand.

The study of secretarial practice, office methods and procedure, including filing.

Three units, spring quarter.

**Office Machines**

A laboratory course to acquaint secretarial students with appliances used in a modern office. Students will be given an opportunity to specialize in the machines of their choice. Mimeograph, spirit duplicating, calculating machines both key-driven and crank-driven, vari-typer, posting machines, voice recording and transcribing, multilith, and addressograph. Three lectures weekly.

Three units, fall and winter quarters.

**Advanced Office Machines**

Prerequisites: Office Machines and permission of the instructor.

Advanced training in the use of calculating and duplicating machines. Projects will be assigned.

Three units, fall and winter quarters.

**P.B.X. (Switchboard Operation)**

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

One or two units, each quarter.

**Business Correspondence** (150 U.C.L.A.)

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.

Two units, each quarter.

**Secretarial Work Practice**

Prerequisite: A well-developed skill in typing is essential to this course. Shorthand ability is of value but is not essential. The student should have taken business machines and business correspondence, or should be taking these courses concurrently.
The student is assigned to a faculty member to act as his secretary. The student will have the opportunity to meet the same work-production encountered in paid employment.

Three to five units, each quarter.
Consultation hours by appointment.

COSMETOLOGY
(See page 55)

ECONOMICS

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

*1. Principles of Economics (1A-1B U.C.) Mr. Mackenzie
The principles of economics, including such fundamental theories as those of value, price, wages, interest, rent, and profits; with a consideration of the problems of society which arise from existing methods of production and distribution of wealth, such as railways, public ownership, combinations and trusts, socialism, and taxation.

Three units, each quarter.

**2. Economic Principles and Problems Mr. Mackenzie
A more elementary course than Economics 1 with greater relative emphasis upon economic institutions and current economic problems.

Two units, each quarter.

Elementary Statistics (See page 39)

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.

**A. Engineering. Mechanical Drawing Mr. Shepard
Fundamentals of mechanical drawing. Open to students who have had less than one year of mechanical drawing in high school.

Two units, first or second 18 weeks.

1. Plane Surveying (Engineering 1 U.C.) Mr. Twogood
Prerequisites: Plane trigonometry with grade of A or B and one year high school mechanical drawing.

Field practice, calculations and mapping. Two lectures and one three-hour field or mapping period weekly. Engineering majors take fall and winter quarters only.

Three units, each quarter.

2. Engineering Drawing (22 U.C.) Mr. Shepard
Prequisite: Engineering A 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.

Three units, first or second 18 weeks.

**3. Aircraft Drawing Mr. Shepard
Prequisites: Engineering 2, 11, and 12.
Aircraft dimensioning; details and assembling; production illustration; standard parts and fasteners; dash numbers; A.N. standards; lofting. For majors in aeronautics only.

Three units, first or second 18 weeks.

**6. Elements of Applied Electricity Mr. Bliss
Prequisites: Two years of high school mathematics and either physics or electric shop.
Simple circuits, direct and alternating currents, calculation of wire sizes, electrical machines, telephone and radio circuits. Credit not transferrable except as a free elective as the course does not parallel any at the University.

Three units, each quarter.

11. Descriptive Geometry (23 U.C.) Mr. Twogood
Prequisites: Engineering 2 and Mathematics 3. Open only to engineering majors whose grade point average is 1.5 or higher for the first quarter. The fundamental principles and their application to the solution of space problems arising in engineering. One lecture and two laboratory periods weekly.

Two units, second 18 weeks.

12. Advanced Engineering Drawing (24 U.C.) Mr. Shepard
Prequisites: Engineering 2 and 11.
Detail drawings of machine parts; gears and cams, complete working drawings of fairly complex units; structural detailing (introduction); electrical and piping layouts; production illustration.

Three units, first or second 18 weeks.

*13. Materials and Processes (40 U.C.) Mr. Twogood
Prequisite: Open to second-year engineering majors, only.
Study of materials of engineering and processes of manufacture and fabrication. Heat treatment of alloys and elementary testing. Three lectures and one laboratory period weekly.

One unit, first 18 weeks; 2 units, second 18 weeks.

**22. Technical Drawing**

*Prerequisite:* Engineering 2 and 12.

Emphasis on the technical approach to engineering drawing for skill in drafting, using the mechanical tools available, such as the drafting machines, lettering sets, etc.

2 units, first or second 18 weeks.

*35. Statics and Kinematics (35 U.C.)*

*Prerequisites:* Mathematics 4A 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.

Three units, first 18 weeks.

**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.

**R. English Composition**

*Miss Bickford, Mr. Black,*

Review of the essentials of English composition, stressing spelling, punctuation, grammar, and sentence structure. This course is not to be substituted for English 1, which is required of all students.

Three units, fall or winter or spring quarter (for A.A. degree).

1. Composition (1A-1B U.C.)

*Mr. Anderson, Miss Bickford, Mr. Black,*

*Mr. Bradshaw, Mr. Patton, Mr. Stickney*

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

Three units, each quarter.

3. Practical News Reporting

*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.

Two units, each quarter.


*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.

a. Non-dramatic poetry from the beginning to 1830 (autumn quarter).

b. Victorian and twentieth century poetry, first six weeks; drama, second six weeks (winter quarter).

c. Non-fiction prose, first six weeks; the novel, second six weeks (spring quarter).

Three units, each quarter.

9. Dramatic Art (10A-10B U.C.)

*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.

Two units, each quarter.

11. Advanced Composition (106 U.C.)

*Mr. Anderson*

Studies in descriptive and narrative writing, with special reference to the technique of the short story, autumn and winter quarters. Expository writing, with relation to the presentation of facts, the familiar essay, and imagination in the service of thought, spring quarter. 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.

Two units, each quarter.

*12. Public Speaking (Speech 1A-1B U.C.)*

*Mr. Allison, Mr. Black*

*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.

Three units, each quarter.
**13. Advanced News Reporting** 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.

One unit, each quarter.

*14. American Literature (30 U.C.) Mr. Stalder

Prerequisite: English 1, or may be taken concurrently.

A study of the achievements in American letters 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.

Two units, each quarter.

*19. Advanced Dramatic Art (20 U.C.) Mr. Black

Prerequisites: English 1, 9.

A continuation of English 9.

Two units, each quarter.

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**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. **Elementary French (1-2 U.C.) Mr. Richards**

Study of French grammar, including pronunciation, conversation, composition, and reading of simple literary French.

Four units, each quarter.

2. **Intermediate French (3 U.C.) 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.

Two units, each quarter.

3. **Intermediate French (4 U.C.) 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.

Two units, each quarter.

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**GEOGRAPHY**

2. **Physical Geography (1 U.C.) Mr. Peck**

A survey of the basic physical elements of geography, especially 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.

Three units, first 18 weeks.

3. **Economic Geography (5A-5B U.C.) Mr. Brand**

A world survey of the interrelationship of man in his economic activities and the factor of his natural environment. The products and industries of the world are stressed. An economic description of the world by regions is given.

Three units, each quarter.

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**GEOLOGICAL SCIENCES**

**Geology**

Preparation for the Major. Required: Chemistry 1; Physics 2; Engineering 1; Geology 1; Mineralogy 1; trigonometry, freehand and geometrical drawing. Recommended: Geology 3, French, German, Mathematics 1, 3. For petrological, mineralogical, or economic undertakings, Chemistry 10-11 is desirable.

1. **Introductory Geology (1, 2 U.C.) Mr. Peck**

The nature and structure of the materials composing the earth. The processes that shape the earth's surface. Occurrences of ores and petroleum. Origin and geological history of the earth and the development of its animal and plant inhabitants. Field trips to local points of geological interest. Three lectures and one laboratory period weekly.

Four units, each quarter.

3. **Geology of the United States (107 U.C. and 117 U.C.) Mr. Peck**

Prerequisite: Either Geology 1 or Geography 1.

A regional survey of the geology of the United States with emphasis upon economic resources. Geographical distribution and methods of extraction of petroleum, coal and the useful minerals. Distribution of soil types. Influence of structure upon land forms and human activity. Two lectures and field work weekly.

Three units, each quarter.
Mineralogy

1. Introductory Mineralogy (4A-4B U.C.) Mr. Peck
Crystal morphology and projection, determination of minerals by their physical and chemical properties, and descriptive mineralogy. Open only to students who are preparing for a major in science or engineering. Limited to twenty-four students. One lecture, one discussion, and two laboratory periods.

Four units, each quarter.

German

1. Elementary German (1-2 U.C.) Mr. Richards
Study of German grammar, including pronunciation, conversation, composition, and reading of simple literary German.

Four units, each quarter.

2. Intermediate German: Reading (3 U.C.) Mr. Richards
Prerequisite: German 1.
Further study of correct grammatical and idiomatic usage of German; reading of fairly difficult German literature. Students are advised to take German 3 also.

Two units, each quarter.

3. Intermediate German: Conversation and Composition (4 U.C.) Mr. Richards
Prerequisite: German 1 or 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.

Two units, each quarter.

History


3. History of the United States Mr. Bradshaw, Mr. Brand, Mr. McDermont, Mr. Stalder, Mr. Stickney
The course meets the State requirement of American History and Institutions.

Three units, autumn and winter quarters; or three units, winter and spring quarters.

Household Art

2. Clothing Construction and Selection Mrs. Wilson
Garment construction and selection. Materials, color, and styles, with consideration of individual needs and clothing wardrobe. One lecture and two laboratories weekly.

Three units, each quarter.

3. Advanced Clothing 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.

Three units, each quarter.

**4. Household Management  Mrs. Wilson**

Two units, each quarter.

**HOUSEHOLD SCIENCE**

2. Food Study and Preparation  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.

Four units, each quarter.

3. Elements of Nutrition  Mrs. Wilson
Fundamental principles of human nutrition as applied to normal and special conditions of growth and physical development. Two lectures weekly.

Two units, each quarter.

4. Elements of Nutrition for Nurses  Miss Throckmorton
Same as course 3, but with one laboratory period additional. Required in the Pre-Nursing curriculum.

Two units, each quarter.

**HYGIENE**

1. General Hygiene  Mr. Gilkeson, 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.

Three units, fall or winter or spring quarter.

2. Hygiene  Mr. 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.

Two units, each quarter.

**ITALIAN**

Preparation for the Major. Required: Italian 1, 2. Recommended: a reading knowledge of Latin.

1. Elementary Italian (1-2 U.C.)  Mr. Richards

Three units, each quarter.

2. Intermediate Italian (3-4 U.C.)  Mr. Richards
Prerequisite: Italian 1 or equivalent.

Further study of grammar; composition and conversation; reading of modern prose, drama, and verse, with oral and written exercises based thereon.

Three units, each quarter.

**LATIN**

Preparation for the Major. Required: four years of high school Latin or Latin 1.

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

Four units, each quarter.

2. Cicero and Virgil
Prerequisite: Two years of high school Latin, or Latin 1.

Selected orations of Cicero, and Aeneid of Virgil.

Four units, each quarter.

**MATHEMATICS**

Preparation for the Major. Two years of high school algebra, plane and solid geometry, and trigonometry; Mathematics 3, 4. Recommended: Physics and a suitable knowledge of English and Grammar.

Their control, prevention and personal prophylactics is acquired. This course is a complement to the courses of Anatomy and Physiology. Two lectures weekly.

Two units, each quarter.
A. Elementary Algebra
The equivalent of high school algebra, designed for those students who did not receive credit for algebra in high school.
Three units, each quarter.

B. Plane Geometry
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.
Two units, each quarter.

C. Trigonometry
Prerequisite: Plane geometry; one and one-half years of high school algebra, or course D.
Mr. Strandberg
Four units, second 18 weeks.

D. Intermediate Algebra
Prerequisite: One year of high school algebra.
Intermediate algebra through simultaneous quadratic equations.
Mr. Strandberg
Four units, first 18 weeks.

E. Commercial Algebra (E U.C.L.A.)
Prerequisite: Mathematics A.
Mr. Strandberg
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.
Three units, first 18 weeks.

F. Slide Rule
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.
2 units, fall or winter or spring quarter.

1. College Algebra
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.
Two units, fall and winter quarters.

3. Analytic Geometry and Calculus (3A-3B U.C.)
Prerequisite: Four years of high school mathematics with overall 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.
Four units, each quarter.

4. Solid Analytic Geometry and Calculus (4A-4B U.C.)
Prerequisite: Mathematics 3.
Mr. Strandberg
Continues the development and application of calculus; includes quadratic surfaces, partial derivatives, multiple integrals, and infinite series.
Three units, each quarter.

12. Elementary Statistics
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.
Mr. Rohrer
Three units, spring quarter.

32. Mathematics of Finance (2 U.C.)
Prerequisite: Mathematics E or 1.
Mr. Strandberg
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.
Three units, second 18 weeks.

*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 offered provided enough students enroll.
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.

Military Science and Tactics: Theoretical

Prerequisite: Two years of high school R.O.T.C.; or one year junior college basic R.O.T.C.; or attendance at one Civilian Military Training Camp. The year course satisfies the requirement in hygiene for the degree of Associate in Arts.

Organization, defense act, interior guard duty, musketry, map reading, sand table exercises, company administration and supply, mechanization, defense against chemical warfare, mechanization and airplane attack, historical examples, camp sanitation, and camp expedients. Two one-hour periods weekly.

One unit, each quarter.

MUSIC

Preparation for the Major. Required: Music 1, 2, 3, 4, 5, 6. Recommended: related courses in art, English, philosophy; foreign languages, particularly French, German, or Italian. Specialization presupposes some ability in piano playing.

1. School Music Education
   (a) Suggested courses: 1, 2, 3, 4, 5, 6, 20, 30, 31, 32, 33, 37 or 38, 39, or 40, 46.
   (b) With specialization in band and orchestra. Suggested courses: 1, 2, 3, 4, 5, 6, 20, 30, 32, 37, 38, 42, 44.

2. Applied Music
   (a) With specialization in voice. Suggested courses: 1, 2, 3, 4, 5, 20, 30, 31, 32, 33, 39 or 40, 46.
   (b) With specialization in piano and/or organ. Suggested courses: 1, 2, 3, 4, 5, 20, 32, 33, 34, 35, 36.
   (c) With specialization in an orchestral instrument. Suggested courses: 1, 2, 3, 4, 5, 6, 20, 32, 37, 38, 43, 44.

A specialized two-year course should include the following: Music 1, 2, 3, 4, 20, 30, 32, and performance in one or two of the choral or instrumental organizations.

Structure of Music

1. Elementary Harmony
   Prerequisite: To be taken concurrently with Music 3 unless excused by instructor.


   Three units, each quarter.

2. Advanced Harmony
   Prerequisite: Music 1. Course to be taken concurrently with Music 4 unless excused by instructor.


   Three units, each quarter.

3. Elementary Music Reading and Dictation
   Prerequisite: Music 3.

   Continuation of Music 3 on a higher level.

   Two units, each quarter.

4. Advanced Music Reading and Dictation
   Prerequisite: Music 3.

   Continuation of Music 3 on a higher level.

   Two units, each quarter.

5. Counterpoint
   Prerequisite: Music 1.

   Two, three and four part counterpoint, analysis of works of sixteenth century contrapuntalists. Keyboard work.

   Two units, each quarter.

6. Orchestration
   Prerequisite: Harmony 1 and permission of instructor.
Techniques of scoring for orchestra, band and instrumental ensembles.
Two units, each quarter.

**Musical Culture**

20. History and Appreciation of Music  
Mr. Sayre
The appreciation and enjoyment of good music through intelligent listening. The evolution of music from ancient times to the present. The development of musical form. The lives of great composers and analyses of their works, illustrated by recordings. Three lectures weekly, assigned readings, term papers.
Three units, each quarter.

**Musical Performance**

30. Elementary Class Voice  
Mr. Sayre
Group work in voice production, diction and interpretation. Opportunity provided for individual attention and performance.
Two units, each quarter.

31. Advanced Class Voice  
Mr. Sayre
*Prerequisite:* Music 30 or equivalent.
Continuation of Music 30, with emphasis on solo performance and the building of repertoire. Recital performance required.
Two units, each quarter.

32A. Elementary Class Piano  
Mr. Stone
Development of keyboard facility; sight-reading of folk tunes and easier classics; repertory of simple piano material.
One unit of terminal credit, each quarter.

32B. Elementary Class Piano  
Mr. Stone
Similar to Music 32A, but more extensive. Open to music majors, music minors and students who wish transferrable credit.
Two units, each quarter.

33. Intermediate Class Piano  
Mr. Stone
*Prerequisite:* Music 32B or Proficiency Test.
Fundamentals of classical piano technique, finger dexterity.
Two units, each quarter.

34. Advanced Class Piano  
Mr. Stone
*Prerequisite:* Music 33 or Proficiency Test 2.
Continuation of Music 33 on a higher level; keyboard harmony and improvisation.
Two units, each quarter.

35. Elementary Class Organ  
Mr. Stone
*Prerequisite:* Music 32B or Proficiency Test 2 and permission of instructor. Limited enrollment.
Fundamentals of organ technique, pedalling simple registration, hymn playing.
Two units, each quarter.

36. Intermediate Class Organ  
Mr. Stone
*Prerequisite:* Music 35 or Proficiency Test 3.
Continuation of Music 35. Little preludes and fugues of Bach, pieces, fundamentals of church organ playing.
Two units, each quarter.

37. Band and Orchestral Instruments I  
Mr. Oaks
Techniques of playing string and percussion instruments.
Two units, each quarter.

38. Band and Orchestral Instruments II  
Mr. Oaks
Technique of playing woodwind and brass instruments.
Two units, each quarter.

39. Chorus  
Mr. Sayre
Study and performance of secular and sacred choral music, accompanied and unaccompanied. Open to all students with singing ability.
Two units, each quarter.

40. A Cappella Choir  
Mr. Sayre
Admission by private audition. Study and performance of secular and sacred unaccompanied choral music.
Three units, each quarter.

41. Vocal Ensemble  
Mr. Sayre
Performance of choral music adapted to small vocal ensembles. Admission by permission of instructor.
Two units, each quarter.
42. Symphonic Band
Mr. Oaks
Performance of symphonic band material. Admission on approval of director.
Three units, each quarter.

43. Dance Band
Mr. Oaks
Practical dance band experience. Admission on approval of director.
One unit, each quarter.

44. Orchestra
Mr. Oaks
Study and performance of symphonic orchestral material. Admission on approval of director.
Two units, each quarter.

45. Instrumental Ensemble
Mr. Oaks
Performance of chamber music by small instrumental ensembles. Admission on approval of instructor.
Two units, each quarter.

46. Choral Conducting
Mr. Sayre
Principles and techniques of choral conducting; program building. Practice with choral groups.
Two units, each quarter.

*Proficiency Tests

Students should make an appointment with instructor concerned, at the beginning of the academic year.

Proficiency Test 1. At the piano.
(a) Major scales up to three flats and three sharps, hands separate, two octaves, at slow tempo.
(b) Simple piece memorized.
(c) Sightreading of folk-tune and hymn.

Proficiency Test 2. At the piano.
(a) All major and harmonic minor scales, hands together parallel, four octaves at slow tempo.
(b) Simple classic piece memorized.
(c) Sightreading of simple piece.

Proficiency Test 3. At the organ.
(a) Accurate pedalling of scales and exercises.
(b) Legato and distinct playing of hymn, using hands and feet.
(c) Identification of tone quality and stop-labels.

Nature Appreciation
Mr. Bliss
Prerequisite: Two years of high school English with grade of B or better.
A course designed to heighten the enjoyment and appreciation of natural beauty. Study of landscape, clouds, storms, the sea, the stars; reading of nature writers; exercises in analysis, description, and photography of interesting places in the vicinity of Riverside. Discussion of methods of living in the open, vacation trips, and mountaineering. Two hours weekly.
Two units, each quarter.

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. Logic: Deductive and Inductive (12-14 U.C.) 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.
Three units, each quarter.

6. Introductory Philosophy (6A-6B U.C.) 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.
Three units, each quarter.
10. History of Philosophy (10 U.C.)  
Mr. Gladden  
Recommended: History 4.  
An historical survey of the development of philosophy, its leading periods, movements, personalities, and masterpieces. Lectures, discussions, collateral reading and reports on special topics.  
a. Classical philosophy from the pre-Socratics to Plotinus.  
b. Medieval, Renaissance, and modern philosophy from Scholastics to the Utilitarians.  
c. Philosophy from Kant to the present with special reference to contemporary systems of idealism, naturalism and pragmatism.  
Three units, each quarter.

PHYSICAL EDUCATION

Physical education is required of all men who are not taking Military Training. It is required of all 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; Biology 1, Physiology 2, Psychology 1; Physical Education (3 quarter 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 (3 quarter units); and training in the various athletic activities.

For Men

Physical Education
The physical education course for men comprises activities for groups and individuals. Group activities include bowling, touch football, speedball, playground ball, basketball, volley ball and baseball. Individual activities include wrestling, boxing, golf, swimming, badminton, and tennis. In tennis, match play is a regular feature of the training.  
Physical Education (section limit, 35). (Gymnasium and Field.) 
Tennis: Class limit, 24.  
One-half unit, each quarter.

Athletics
Men who can pass the required physical examination may elect an athletic activity in place of physical education. The object of the training is the developing of representative athletic teams. Those enrolled are under the instruction and supervision of the College athletic coaches, and at the close of a season’s schedule are transferred to classes in physical education for the rest of the quarter.  
One-half unit, each quarter.

For Women

Physical Education
Mrs. Huntley  
The physical education course for women comprises the following activities and types of training: folk and character dances; gymnastic games; group and team competition in volley ball, basketball, tennis, archery, badminton, bowling, hockey, swimming and golf. Two hours weekly.  
One-half unit, each quarter.

Athletics
Mrs. Huntley  
In addition to the sports offered in the general physical education course a more intensive training is given in extracurricular athletics preparatory to interclass games, play days, and events sponsored by the Women’s Athletic Association. Tennis or any of the team sports may be elected.  
One-half unit, each quarter.

For Men and Women

First Aid and Water Safety
Mr. Hallock, Mr. Hammerschmidt  
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 to do the right thing at the right time.  
Three units, fall quarter.

Fundamental Activities
Mr. Hucklebridge  
Development of skills in individual and team sports. Limited to Physical Education majors.  
Three units, spring quarter.

Coaching Methods
Mr. Gilkeson  
Principles of interscholastic and intercollegiate athletics. Techniques of coaching and officiating.  
Three units.
PHYSICS

Preparation for the Major. Required: Physics 1, 10; Chemistry 1; Mathematics 3, 4. Recommended: A reading knowledge of French and German. Physics 1 and 10 are equivalent to (4A, 4B, 4C U.C.)

1. General Physics
   Mr. Bliss
   Prerequisites: High school physics and high school mathematics including trigonometry with average grade of B or better in both fields. Mechanics, properties of matter, and heat. Primarily for students who expect to major in physics, and for students in engineering, chemistry, and architecture. Mathematics 3 must be taken concurrently with Physics 1. Three one-hour conferences and one laboratory period weekly.
   Four units, each quarter.

2. General Physics (2 and 3 U.C.)
   Mr. Strandberg, Mr. Twogood
   Prerequisites: High school algebra and geometry with recommending grades. Properties of matter, mechanics, heat, light, sound, electricity and magnetism. Meets the requirements for pre-medical or pre-dental students. Three one-hour classes and one laboratory period weekly.
   Four units, each quarter.

3. Photography
   Mr. Bliss
   Prerequisite: High school chemistry or physics with grade of A or B. Lectures on making exposures, pictorial composition, lighting, slide making, apparatus, and materials; criticism of student's photography.
   Two units, each quarter.

4. Physics (10 U.C.)
   Mr. Strandberg
   The course offers a brief presentation of the more important principles of physics with experimental illustrations. A non-mathematical course without laboratory.
   Two units, each quarter.

5. General Physics
   Mr. Bliss
   Prerequisite: Physics 1. Magnetism, electricity, wave motion, sound, light presented as a continuation of Physics 1. Primarily for engineering students and for those who expect to major in physics. Two one-hour conferences and one laboratory period weekly.
   Three units, each quarter.

PHYSIOLOGY

Preparation for the Major. Required: Physiology 1; 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. General Physiology (1A, 1C U.C.)
   Mr. 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.
   Three units, each quarter.

2. Physiology and Anatomy (1A, 1C, 102, U.C.)
   Mr. 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.
   Four units, each quarter.

POLITICAL SCIENCE

1. Political Science (1 and 2 U.C.)
   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.
   Three units, each quarter.

PSYCHOLOGY

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

1. General Psychology (1A-1B U.C.)
   Mr. Gladden
   The scientific study of mental processes and human behavior. Required for upper division courses in psychology and education. Recommended Prerequisite: Biology 1, or Zoology 1, or Physiology 1 or 2, or Psychology 6.
   Three units, each quarter.
<table>
<thead>
<tr>
<th>COURSES OF INSTRUCTION</th>
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<tbody>
<tr>
<td><strong>6. Psychology (23 U.C.L.A.)</strong> Miss Bickford</td>
</tr>
<tr>
<td>A practical course emphasizing the development of balanced personality. For students interested in studying the interplay of emotional and intellectual factors in the development of personality. Includes practice in study techniques.</td>
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<td>Two units, each quarter.</td>
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<tr>
<td><strong>RUSSIAN</strong></td>
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<tr>
<td><strong>1. Elementary Russian</strong> Mr. Richards</td>
</tr>
<tr>
<td>Prerequisite: Two years of foreign language in high school or one year in college with a grade of B or better. Study of Russian grammar; drill in pronunciation; mastery of a basic vocabulary; reading of simple prose and poetry.</td>
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<tr>
<td>Four units, each quarter.</td>
</tr>
<tr>
<td><strong>SOCIOLOGY</strong></td>
</tr>
<tr>
<td><strong>1. Sociology (1A-1B U.C.L.A.)</strong> Miss Fraser</td>
</tr>
<tr>
<td>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.</td>
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<tr>
<td>Three units, each quarter.</td>
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<tr>
<td><strong>SPANISH</strong></td>
</tr>
<tr>
<td><strong>Preparation for the Major.</strong> 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 additional Latin; History 8.</td>
</tr>
<tr>
<td><strong>1. Elementary Spanish (1 and 2 U.C.)</strong> Miss Kincell, Mr. Richards</td>
</tr>
<tr>
<td>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.</td>
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<tr>
<td>Four units, each quarter.</td>
</tr>
<tr>
<td><strong>2. Intermediate Spanish (3 and 4 U.C.)</strong> Miss Kincell</td>
</tr>
<tr>
<td>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.</td>
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<tr>
<td>Four units, each quarter.</td>
</tr>
<tr>
<td><strong>5. Beginning Conversational Spanish</strong> Miss Kincell</td>
</tr>
<tr>
<td>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.</td>
</tr>
<tr>
<td>Two units, each quarter.</td>
</tr>
<tr>
<td><strong>6. Intermediate Conversational Spanish</strong> Miss Kincell</td>
</tr>
<tr>
<td>Open to students who have had Spanish 1 or two years of high school Spanish. Same type of Course as Spanish 5.</td>
</tr>
<tr>
<td>Two units, each quarter.</td>
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<tr>
<td><strong>10. Advanced Spanish (25A-25B U.C.)</strong> Miss Kincell</td>
</tr>
<tr>
<td>The modern and contemporary Spanish novel and drama. The first eighteen weeks are devoted to a study of the novel; the second eighteen weeks to the drama. Selections 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.</td>
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<tr>
<td>Three units, each quarter.</td>
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<tr>
<td><strong>11. Advanced Spanish Composition and Conversation</strong> Miss Kincell</td>
</tr>
<tr>
<td>Prerequisite: Spanish 2, four years of high school Spanish. 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 university; (2) those desiring greater facility in the practical use of the language. Spanish majors are advised to take this course concurrently with Spanish 10.</td>
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<tr>
<td>Two units, each quarter.</td>
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</tbody>
</table>
12. Advanced Spanish  Miss Kincell

Prerequisite: Spanish 10 or permission of instructor.

Directed reading in Spanish literature. Oral and written reports submitted at weekly conferences.

One or two units, each quarter.

14. Advanced Spanish  Miss Kincell

Prerequisite: Spanish 10 or permission of instructor.


One or two units, each quarter.

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.

Preparation for the Major, U. C. L. A. Required: Zoology 1, Chemistry 1. Recommended: French or German.

1. General Zoology (1A-1B U.C.)  Mr. Jaeger

A study of the structure, classification, and the life histories of animal organisms. During the spring quarter 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.

Five units, each quarter.

*12. Entomology  Mr. Jaeger

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.

Four units, spring quarter.

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.

COURSES OF INSTRUCTION

11. Advanced Aeronautical Drafting (See Engineering 3)  Mr. Shepard

81. Basic and Advanced Pre-Flight  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.

Three units, each quarter.

86. Flight Instruction

And aircraft rentals available through arrangements with a privately owned flight school. Flight schedules to be arranged through the Department of Aeronautics. Credit of 1½ units each quarter may be granted.
92. Aircraft Mechanics
Mr. Aanstad
Theory and shop instruction covering woodwork, metal work, dope and fabric, cable splicing, rigging, welding, maintenance and repair of aircraft, and all other subjects necessary to qualify for the C. A. A. Aircraft Mechanic License. Two lectures and one to six laboratory periods weekly.
Three to eight units, each quarter.

95. Aircraft Engine Mechanics
Mr. Aanstad
Theory and shop instruction, covering the servicing and operation of aircraft engines, overhauls, periodic inspections, and trouble shooting. Also thorough instruction on carburetion, electrical systems, propellers, lubrication, instruments, and all other subjects necessary to qualify for the C. A. A. Aircraft Engine Mechanic License. Two lectures and one to six laboratory periods weekly.
Three to eight units, each quarter.

DEPARTMENT OF COSMETOLOGY
RIVERSIDE COLLEGE

Cosmetology
Mrs. Colwell, Mrs. Smith

The course in cosmetology trains students for positions as licensed operators in beauty shops. Those students who complete the course are eligible to take the state board examination in cosmetology. The regular course extends over a period of 1600 hours as required by the State Board of Cosmetology and includes such branches of the profession as permanent waving, hair styling and cutting, pedicuring, creative hair styling, “Curly Cutting,” hair tinting, facial work and manicuring. Consideration is also given to such related subjects as personal hygiene, public health, physiology, bacteriology, psychology, shop ethics and salesmanship.

Students must be at least seventeen years of age and high school graduates. Not required, but recommended as prerequisites are: chemistry, physics and life science. Good health is also a requisite.

Students in the Riverside College Cosmetology Department find three types of learning stressed: (1) individual instruction in all departments; (2) class work; (3) shop experience. Upon the satisfactory completion of the course, all students are graduated from the department. Those students who wish to receive the Associate in Arts degree must also complete the following courses: English 1 and History 3.

The Cosmetology Department offers a brush-up course for out-of-state operators or for those who wish to improve their technique. These courses range from two to eight weeks in length.
THE ADULT DIVISION

The Board of Education of the Riverside City Schools, in May, 1945, placed all adult education activities under Riverside College. This division is administered by a director and is known as the Adult Division of Riverside College. Classes are held both during the day and in the evening. A wide range of subjects is offered and a constant attempt is made to arrange new classes as the needs of the community change.

Any adult eighteen years of age, or a graduate of an accredited high school, is eligible for admission to classes. No tuition is charged but students are expected to buy books and to pay for materials and supplies.

Many of the courses carry either high school or college credit. Those persons working for credit must comply with the following regulations:

1. Make written application to the office within the first three weeks of the school quarter.
2. Provide an official transcript of previous schooling.

Under certain conditions it is possible for day school students to attend evening classes. Grades and grade points are determined in the same manner as in regular day classes.

A student who wishes to complete work for the high school diploma must have his program of study approved by the Director of the Adult Division.

Another service offered is the administration and supervision of the General Educational Development Tests of the United States Armed Forces Institute, which if passed by a veteran of World War II, who has not completed his high school work, may fulfill the requirements for high school graduation.

At the beginning of each quarter a bulletin listing the courses offered is published. In the past, classes in the following subjects have been held:

EVENING CLASSES

COMMERCIAL

Typing I and II
Bookkeeping
Shorthand I and II
Business Law
Banking
Business Machines

ENGLISH AND SOCIAL STUDIES

Business English
English Composition
American History and Civics
Citizenship
Public Speaking
Short Story

SCIENCE AND MATHEMATICS

Chemistry
Physics
Algebra
Geometry
Trigonometry
Aeronautics
Arithmetic
Mineralogy

ARTS AND CRAFTS

Plastics
Handicrafts
Figure Drawing
Painting
Music Appreciation
Ceramics

TRADE AND INDUSTRY

Machine Shop
Wood Shop

FOREIGN LANGUAGES

Beginning Spanish
Advanced Spanish
French
Russian

COMMUNITY AND HOME

Sewing
Flower Arrangement
Agriculture for Veterans
Psychology
Philosophy
Home Garden Planning
Auto Shop
Radio Mechanics
Welding
Wiring Code
Machinist Apprenticeship
Carpenter Apprenticeship
Electrician Apprenticeship

PHYSICAL EDUCATION

Swimming
Badminton

DAYTIME CLASSES

COMMUNITY AND HOME

Lip Reading
Sewing
Dressmaking

ARTS AND CRAFTS

Weaving
Ceramics
Painting
Rug Making
Handicraft
EXPENSES

STUDENT BODY MEMBERSHIP

The Student Body membership is payable at the time of registration as follows: for students entering College September 12, $15.00; December 5, $12.00 and March 13, $8.00. This amount will pay the Student Body fee in full for the period of attendance.

In the event of a student's withdrawal within two weeks following his registration date, a refund will be made equal to the amount paid, less $1.00. Other refunds will be made as follows:

<table>
<thead>
<tr>
<th>Registration date</th>
<th>Withdrawal date</th>
<th>Refund</th>
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</thead>
<tbody>
<tr>
<td>Sept. 12 through Dec. 2</td>
<td>From Sept. 23 through Dec. 3</td>
<td>$8.00</td>
</tr>
<tr>
<td>Sept. 12 through Dec. 2</td>
<td>From Dec. 5 through Mar. 10</td>
<td>4.00</td>
</tr>
<tr>
<td>Dec. 5 through Mar. 10</td>
<td>From Dec. 16 through Mar. 10</td>
<td>4.00</td>
</tr>
</tbody>
</table>

Refunds will be made only on written application to the Associated Student Body by the payer of the fee. Student Body identification card must be surrendered before refund will be made.

A straight fee of $7.00 for a twelve-weeks period will be charged for students who pay on a twelve-weeks basis.

BOOKS AND EQUIPMENT

The cost of books and equipment depends upon the courses elected and the amount of work undertaken. The average yearly expenditure for books is $25.00 to $75.00; for materials $10.00 to $35.00. If secondhand books are purchased, the cost will be materially reduced. A complete list of texts and materials required for all courses, together with costs, will be published in a separate bulletin in September, 1949.

ROOM AND BOARD

The expense of room and board varies with the taste and resources of the student. Some students club together and reduce their expenses proportionally.

GENERAL REGULATIONS

COLLEGE RESIDENCE

No dormitories are maintained by the College. Lists of rooms and boarding places approved by the College authorities are kept on file at the Guidance office. Women not living at home must reside at places approved by the Dean of Women.

AUTOMOBILE PARKING

A large area, with individual lanes, has been set apart for student cars at the corner of Terracina Drive and Saunders Street. All students who drive cars to the College must register their license numbers with the College office.

BOOKSTORE

A cooperative bookstore is maintained at the College. The business is conducted by a manager who is selected by the College Board of Education and the Student Body Board. When books are ordered, a reasonable deposit is required.

Secondhand books are bought and sold for cash, the selling price of books in good condition being approximately two-thirds of the original price.

STUDENT RESPONSIBILITY

CONDUCT

It is assumed that students attending the College have a serious purpose, and that they will maintain a worthy standard of conduct. Offenses against good behavior or academic duty will be judged in the light of attendant circumstances and such action taken as seems necessary.

SOCIAL FUNCTIONS

All social functions are under the general supervision of the Dean of Women, and must be approved by her before any announcement concerning them is made. The time, place, and names of chaperones must be submitted a reasonable time in advance.

ABSENCE

All students are expected to attend every session of every course in which they are enrolled. With the approval of the Registrar a student may be dropped from a course for excessive and inexcusable absence. Request for leave to be absent from a class or explanation for having been absent should be made to the instructor in charge. Work missed for unavoidable cause may be made up with the instructor's approval. Under no circumstances will absence relieve the student from completing all the work assigned in a given course.
When a student has been absent from college without explanation for two consecutive weeks, his name is dropped from the rolls, and permission to be reinstated must be obtained from each instructor in whose class he is enrolled.

LEAVE OF ABSENCE AND WITHDRAWAL

Temporary leave of absence or permission to withdraw from college will be granted to the student who makes application at the Registrar’s Office and complies with the terms for honorable dismissal.

CHANGE OF ADDRESS

It is the duty of the student to advise the Registrar’s Office of any change in college address.

USE OF LIBRARY

“All that Mankind has done, thought, gained, or been; it is lying as in magic preservation in the pages of Books . . .

“All that a university or final highest school can do for us, is still but what the first school began doing – teach us to read.”

Thomas Carlyle: The Hero as a Man of Letters.

The Library is a reading center; a center for information, recreation, and fact-finding. Students, faculty members, and other responsible local adults are encouraged to use its facilities for these purposes. Unless there is special demand for a book, it may be taken out for two weeks, with renewal privileges. Reserve books and current copies of magazines are for library use, but may be taken home at 3 o’clock. They are due before 9 o’clock the following morning. Other unbound magazines and pamphlets circulate for three days. On books which are overdue, the fine is five cents a day. The fine on overdue Reserve Books is five cents an hour.

GRADING SYSTEM

GRADES

Grade reports are issued at the close of each twelve weeks to all registered students in good standing. The following grade marks are used:

A, excellent; B, good; C, average; D, below average but passing; F, failed. C is the basic grade; A and B are marks of real distinction.

F, failed, necessitates a repetition of the course, if credit is to be received.

W, Withheld: given when a student’s work is not complete for the period between the end of the eighth week and the close of a quarter, and then only because of circumstances beyond his control.

WP, Withdrawn passing: This grade is assigned if a student withdraws from college during the ninth and twelfth weeks, inclusive, of any quarter because of circumstances beyond his control.

WF, Withdrawn failing: This grade is assigned if a student withdraws from college during the ninth and twelfth weeks, inclusive, of any quarter for reasons other than those stated above, or if he fails to withdraw officially.

A course in which a mark of D has been received may be repeated to raise the grade, but no additional units will be allowed upon repetition. Repeated courses are counted, however, in study-list totals.

A withheld grade must be removed by the end of the next quarter in which the student registers, or be recorded as a failure.

A regular student whose record at the close of any quarter shows him to be passing in fewer than ten units is placed on probation. If he fails to pass in ten units of work a second time, he is considered ineligible to register.

A special student who is taking fewer than ten units in a given quarter and whose work has been unsatisfactory may be declared ineligible to register in the quarter following.

GRADE POINTS

On the basis of scholarship grades, grade points are awarded as follows: A, 3 points per unit of credit; B, 2 points per unit of credit; C, 1 point per unit of credit; D, no points per unit of credit.

The attention of students (particularly those who plan to continue their education at a senior college or university) is called to the fact that “The practical significance of scholarship grades is largely determined by their use in connection with grade points.” To qualify for full junior standing in the College of Letters and Science at the University of California, the student must have acquired in the junior college at least ninety quarter units of acceptable college work (not more than one hundred and five are accepted by the University of California) and at least as many grade points as time units; this is, he must attain an average of C for all courses completed in a junior college or he will not be admitted to the University.

*Courses repeated to raise the grade must be counted in the study-list total, even though additional units are not allowed for repetition.
HONORS AND AWARDS

THE HONOR SOCIETY

The Riverside College Honor Society was founded in February, 1921. Its purpose, as set forth in its constitution, is “the promotion of scholarship among the students,” through public recognition of those who attain academic distinction.

The Honor Society is composed of active and associate members. Active members are those students who qualify for academic honors, and who upon the recommendation of the faculty are received into the Society. Associate members are members of the faculty and local community who, as representatives of other honorary scholarship fraternities, have affiliated with the College organization to encourage its ideals.

Eligibility to active membership is based solely upon scholarship attainment. Election is determined in accordance with the following regulations, which were adopted February 28, 1936:

1. The candidate for honors must have been awarded 200 or more grade points in five quarters (or the equivalent) of resident study. The candidate who has transferred from another college must have spent the last two of the five quarters at Riverside College.

2. Grade points shall be computed upon a maximum of 18 units of credit in any one quarter, and upon a maximum of 90 units for the five quarters. If, for any reason, the candidate has been permitted to undertake more than 18 units of work in any quarter, a proportionate reduction in grade points shall be made.

3. Of the 200 or more grade points required, at least 100 shall represent the scholarship grade A on the permanent record card. At least 75 additional grade points shall represent the scholarship grade A or B. The remaining 25 points may represent the scholarship grade A, B, or C. The scale is as follows:
   - A, 3 grade points per unit of credit
   - B, 2 grade points per unit of credit
   - C, 1 grade point per unit of credit

4. The candidate must have elected a major (of at least 30 units) in subject Group 1, 2, 3, as required for the title of Associate in Arts. (See page ....)

5. The candidate must have included in his two-year program a year-course (of at least 9 quarter units) in each of the following fields of knowledge: English; foreign language; natural science or mathematics; social science.

6. Not more than 30 grade points may be awarded for achievement in physical education courses.

AWARDS AND SCHOLARSHIPS

JUNIOR LIONS CUP

The Junior Lions Cup has been presented each year since 1928 to the man of the graduating class who in the judgment of the Committee has rendered the greatest service to the College during the year. A similar cup is given to the woman of the graduating class who has been adjudged worthy of like honor. Not awarded in 1948.

JACK B. CRAWFORD MEMORIAL AWARD

The Jack B. Crawford Memorial Award was established in 1946 in memory of Jack B. Crawford who gave his life in the service of his country. This award is given annually to the man student who, in the judgment of the Committee, displays outstanding sportsmanship in the field of athletics. His attitude toward his fellow students and academic work will also be taken into consideration. The man so recognized receives an award to keep in his possession. His name is also engraved on a perpetual trophy which remains in the College trophy room. In 1948 awarded to William Nordlund.

WOMEN’S ATHLETIC ASSOCIATION SCHOLARSHIP

The Women’s Athletic Association Scholarship of the annual value of $25 has been awarded annually since 1933 to the woman student who in the judgment of the Committee is the outstanding leader in athletics and sportsmanship for the year. The scholarship average must be of at least C grade. The award is available only when the student who has been chosen enrolls for the succeeding autumn quarter at the College. In 1948 the scholarship was awarded to Irene Love.

KIWANIS SCHOLARSHIP FUND

The Kiwanis Scholarship Fund was established in 1924. It is a revolving educational loan fund, administered in the interest of graduates of the College, who desire to continue their education at a senior college or university. In the selection of candidates emphasis is placed upon scholarship, character, and personal need. The following student was designated beneficiary in 1946: James William Baglien. Not awarded, 1947, 1948.

RIVERSIDE COLLEGE HONOR SOCIETY

Riverside College Honor Society Scholarship Fund is available to Honor Society members. Application may be made by letter stating financial need, future educational plans, and references. This should be addressed to the secretary, Miss Dorothy Kincell, Riverside College.

RIVERSIDE CITY TEACHERS ASSOCIATION LOAN FUND

This educational loan fund was established in 1947. In order to be eligible for a loan from this fund a student must be preparing to become a teacher, and, except in rare instances, must be a graduate of Riverside
College. Scholarship and good character are emphasized, also. Application must be made by letter to the Riverside City Teachers Association.

**KIWANIS SCHOLARSHIP TROPHY**

This trophy was given to the College in 1948 by the Riverside Kiwanis Club. Any organization on campus which has fifteen or more students in its membership is eligible to compete for the trophy. At the close of each College year, the organization having achieved the highest grade point average has its name engraved upon the plaque.

**JOAN THURSBY MEMORIAL**

This is a new award given in memory of Joan Thursby, Riverside College student of 1948. It is to be given annually to a second year woman student who, in the judgment of a faculty and student committee, best exemplifies the attributes of womanhood, participates actively in campus organizations, and who has a "B" average. The name of the student winning the trophy will be engraved on a cup which will remain in the trophy room. A smaller replica of the trophy will be given to her to keep permanently.

**FACULTY**

1949-1950

**EMERITUS LIST**

**BOARDMAN, HARRY L.**
Los Angeles, California

Philosophy, Sociology

A. B., Colfax College; D. D., McMinnville (now Linfield) College; A. M., University of California. At Riverside College, 1920-1938.

**COOPER, AGNES B.**

Riverside

Librarian

A. B., University of Illinois, Phi Beta Kappa. At Riverside College, 1927-1944.

**LINHART, GEORGE A.**

Glendale, California

Mathematics

B. S., University of Pennsylvania; A. M., Yale University; Ph. D., Yale University, Sigma Xi. Graduate student, Massachusetts Institute of Technology and University of California. At Riverside College since 1923. Retired: January 19, 1948.

**MOORE, N. O.**

4858 Howard Avenue
1843-J

Printing


**TEST, CHARLES DARWIN**

Laguna Beach, California

Chemistry

B. M. E., Purdue University; A. C., Purdue University. Graduate Student, University of Chicago, Colorado School of Mines, University of Wisconsin, Koenigliche Bergakademie (Freiberg, Saxony), Technische Hochschule (Berlin). At Riverside College, 1924-1941.

**AANSTAD, LLOYD A.**

309A W. Emporia, Ontario

Aeronautics

A. B., St. Olaf College/Graduate work, U.C.L.A. At Riverside College since 1948.

**ALLISON, THOMAS G.**

4690 Rubidoux Avenue
2986

Dean of the Faculty, English

Graduate student, University of California, and American Academy of A. B. (Cum Laude); A. M., L. H. M., St. Mary's College, California. Dramatic Arts. At Riverside College since 1928.

*Deceased: 4/6/48.*
ANDERSON, ROBERT PATTON  
3579 Arlington Ave.  
English  
A. B., Princeton University, Phi Beta Kappa; A. M., Princeton University. At Riverside College since 1916.

BICKFORD, MARIJOIE L.  
3451 Prospect Ave.  
English, Psychology  
A. B., A. M., University of Rochester. Graduate student, Bread Loaf, Middlebury College; Bates College; and Columbia University. At Riverside College since 1946.

BLACK, PHILIPS.  
2041 Atsuyo Drive  
English, Speech  
A. B., A. M., University of Southern California. At Riverside College since 1946.

BLISS, HOWARD H.  
6808 Valencia  
Physics, Engineering  
B. S., University of California, Sigma Xi; M. S., University of California. At Riverside College since 1920.

BRADSHAW, RALPH H.  
6391 Palm Avenue  
English  
A. B., A. M., Washington University, St. Louis, Mo.; graduate work at Claremont Colleges. At Riverside College since 1946.

BRAND, RALPH E.  
7165 Mount Vernon  
History, Economic Geography  
A. B., A. M., University of Oklahoma; graduate work, University of Southern California. At Riverside College since 1946.

BRATTI, MARTIN  
4044 Dwight Avenue  
Chemistry  
A. B., Willamette University; M. S., University of Southern California; graduate work, Oregon State College. At Riverside College since 1946.

*BROOKS, PHILLIPS M.  
2932 Crest Way  
Bacteriology, Botany, Physiology  
A. B., University of California; Ph. D., Leland Stanford University. At Riverside College since 1947.

COLWELL, DOROTHY V.  
3027 Market Street  
Cosmetology  
Graduate of Marinello Beauty School. At Riverside College since August, 1948.

COOPER, LAWSON P.  
2823 Prospect Avenue  
Art  
A. B., Pomona College; A. M., Claremont Colleges. Graduate student, Bureau of University Travel, Harvard University. At Riverside College since 1937.

COOPER, RUTH  
6770 Palm Avenue  
Botany, Chemistry laboratory  
A. B., University of California. Graduate student, University of California, University of Wyoming, and Harvard University. At Riverside College since 1931.

CORR, DR. MAGDALENE H.  
3945 Terracina Drive  
Examining Physician for Women  
At Riverside College since 1945.

FRASER, FRANCES MAXWELL  
4570 Aurora Drive  
Dean of Women, Sociology  
A. B., Vassar College; A. M., Columbia University; diploma, Oxford University. At Riverside College since 1923.

GILKESON, GLENN  
4873 Brockton Avenue  
Director of Athletics, Basketball, Hygiene, Physical Education  
A. B., Nebraska State Teachers College; A. M., Teachers College, Columbia University. Graduate student, University of Southern California, and University of Wisconsin. At Riverside College since 1939.

GLADDEN, GARNETT LEE  
430 Electric  
Philosophy, Psychology  
A. B., University of California; graduate student, University of California, and Claremont Colleges. At Riverside College since 1946.

HAAS, GARLAND A.  
4254 Madrona Road  
Commerce  
B. S., M. A., Indiana University; Graduate Student, University of California. At Riverside College since 1948.

HALLOCK, ROBERT J.  
4626 Gardena Dr.  
Physical Education  
B. S., Springfield College. Graduate work, University of Southern California. At Riverside College since 1946.

HAMMERSCHMIDT, BERNARD A.  
4560 Linwood Pl.  
Baseball, Football, Physical Education  
A. B., San Diego State College; Graduate work, University of Redlands. At Riverside College since 1948.
Haslam, James H.  R. No. 1, Box 268c, Colton  8765-W
Chemistry
B. S., Rhode Island State College. At Riverside College since 1946.

Hislop, John Smith  3194 Main  4299-J
Commerce
A. B. (Cum Laude); A. M., University of California. At Riverside College since 1945.

Hucklebridge, Theodore H.  4537 Mulberry Street  3415-J
Physical Education, Track
A. B., Stanford University; graduate work at Stanford University. At Riverside College since 1946.

Huntley, Catharine S.  3668 Beechwood Place  3179-W
Physical Education
A. B., University of Nevada; A. M., Columbia University. At Riverside College since 1926.

Jaeger, Edmund C.  4462 Sixth Street
Zoology, Biology
B. S., Occidental College. Graduate student, University of California and University of Colorado. At Riverside College since 1922.

Kincaid, Dorothy M.  3811 Mt. Rubidoux Drive  4214
Spanish
A. B. (Cum Laude), Pomona College; A. M., Columbia University. Graduate student, University of California at Los Angeles, Pomona College, Stanford University, Columbia University, University of Mexico, L'Alliance Francaise, University of Paris, France, Centro de Estudios Historicos, University of Madrid, Spain, Claremont Colleges. At Riverside College since 1942.

Kneucker, Alfred Walter  4580 Adams Street  9642-W
Anatomy, Physiology
M. D., Vienna State University, Austria. Lecturer in Urology and Surgery, post graduate courses at Vienna University and American Medical Association. Chief-in-surgeon, Shanghai General Hospital. At Riverside College since 1948.

McDermont, Earl Alexander  3709 Washington Street  3926-R
History
A. B., Occidental College; A. M., Columbia University. Graduate student, University of California and University of Montpelier, France. At Riverside College since 1921.

McKenzie, Maurice Russell  4579 Ninth Street  0887-W
Economics, Political Science
B. S., (Cum Laude), Harvard University; Ed. M., Harvard University. Graduate student, University of Chicago. At Riverside College, 1924-1925, and since 1926.

McKnight, Eugene C.  4450 Main Street  6188-M
College Librarian
A. B., Stanford University; Certificate, School of Library Science, University of Southern California and its predecessor; graduate work at University of California, University of Utah, and Stanford University. At Riverside College since 1947.

Noble, Orland W.  4158 Beatty Drive  1633-J
Assistant to the President, Registrar
B. P. E., George Williams College; B. S., M. S., University of Southern California. At Riverside College since 1943.

Oaks, Lester  3671 4th  7758-J
Music
B. F. A.; Mus. B.; Oklahoma A. & M. School of Music. Cornet student of Herbert L. Clarke and Frank Simons; Woodwind student of Bohimil Makvosky; String student of Frank Haldky. At Riverside College since 1947.

Ohlen, John C.  3003 Central Avenue  5241-W
Director of Adult Education
A. B., University of California; graduate student, University of California, Claremont Colleges, University of Southern California, and University of Redlands. At Riverside College since 1946.

Patton, Robert L4  4070 Jurupa Avenue  2899
English; Reports Editor, City Schools
A. B. (Cum Laude), Stanford University. At Riverside College since 1931.

Peck, Elmer W.  453 East Highland Avenue, Redlands  5763
Geology, Physical Geography, Mineralogy
A. B., Yale University; graduate work, University of California, Berkeley, and University of Redlands. At Riverside College since 1946.

Paul, Arthur G.  1912 Pennsylvania Avenue  1655-J
President
A. B., Occidental College, Phi Beta Kappa. Graduate student, University of California. At Riverside College since 1917.
FACULTY

Richards, Julian K. 1064 Pershing Avenue, San Bernardino
French, German, Spanish, Russian
A. B., A. M., Columbia University; Certificat d'Etudes Francaises,
Univesite de Grenoble. Graduate student, University of Chicago,
Baylor University, and Stanford University. At Riverside College since
1922.

Riddles, James A. 3250 Date Street 3856-W
Assistant College Librarian
A. B., Arizona State College; B. S., University of Southern California.
Graduate student at Garrett Biblical Institute and Pendle Hill. At
Riverside College since 1948.

Rohrer, William G. 4858 Howard Avenue 1843-J
Aeronautics, Astronomy, Mathematics
A. B., University of Redlands; graduate student, University of Redlands.
At Riverside College since January, 1947.

Salerno, Edward R. 3244 Pine Street 6411-J
Football
B. S. Ed., University of Southern California. M. A., University of
Southern California. At Riverside College since 1948.

Sayre, Edward D. 3879 Third Street 868-W
Music
A. B., DePauw University; Mus. B., DePauw University School of Music;
A. M., Teachers College, Columbia University. Ed. D., Teachers
College, Columbia University, Westminster Choir College. Vocal training:
Karleton Hackett, Robert Elwyn, Percy Rector Stephens, Dr. John
Finley Williamson. Choral Training: Dr. Harry Robert Wilson, Dr.
John Finley Williamson, Dr. T. Frederick H. Candlyn, Robert Shaw.
At Riverside College since 1946.

Shepard, Wayne W. 5130 Sierra Street 1-0319-J
Architecture
A. B., University of Washington; A. M., Claremont Colleges. At Riverside
College since 1945.

Smith, Fleming L. 955 F Street, San Bernardino 7-0443
Commerce
B. S., B. E., University of Cincinnati; M. Ed., University of Pittsburgh.
Graduate student, New York University, University of Pittsburgh, and
University of Southern California. At Riverside College since 1947.

Smith, Mary Jo. 4758 Magnolia Avenue
Cosmetology
Graduate of: Marinello School of Cosmetology, Sullivan Beauty College,
Graduate work, Harper Method of Beauty Culture, Rochester, N.Y.;
Reno's University of Beauty, Long Beach, California; Tate and Comer
Hairstyling, Marinello School, Los Angeles, California. Registered
Cosmetologist and R. N.

Stalder, Cecil E. 3760 Briscoe
History, English
A. B., University of California; graduate work, University of California,
Claremont Colleges, and University of Southern California. At Riverside
College since 1946.

Stepanovich, Anthony 3433 Elmwood Court 4551-W
Physical Education, Football, Hygiene
B. S., University of Southern California; graduate work at University of
Southern California. Coaching School, Stanford. At Riverside College
since 1946.

Stickney, Clifford 919 Bussey Street, San Bernardino 824210
English
A. B., A. M., University of Illinois. Graduate work at University of
Redlands. At Riverside College since 1946.

Stone, Don P. 3232 Fifteenth Street 7414-W
Music
A. B., Occidental College; graduate student Occidental College. At
Riverside College since 1948.

Strandberg, Joel 6059 Riverside Avenue 3572-R
Mathematics, Physics
B. S., University of Minnesota; graduate student at the University of
Minnesota, and the University of California at Los Angeles. At Riverside
College since 1947.

Throckmorton, Eleanor Jane 3360 First Street 7477-J
Nutrition, Tigers' Den Manager
B. S. in Home Economics, Oregon State College, and graduate work at
the same institution. At Riverside College since 1947.

Twoood, Archie J. 2723 Iris Street 3104-W
Physics, Engineering
B. S., University of California. Graduate student, General Electric
Company, Schenectady, and University of California. At Riverside
College since 1922.

Veitch, Dr. Frederick A. 3660 Fourteenth Street 5560
Examining Physician for Men
At Riverside College since 1942.
FACULTY

Wilson, Eve
391 W. 4th, Perris
Household Art, Household Science
B. S., Kansas State College. Graduate student, University of Southern California. At Riverside College since 1942.

OFFICE STAFF

Mr. Harry Dangerfield................. Manager, College Bookstore
Mr. John Newstead................... Accountant
Mrs. Bernice Cornell................ Secretary to President
Miss Thelma Adams.................... Library Assistant
Miss Lola Mae Johnson.............. Main Office
Mrs. Ruth Klock...................... Accounting
Mrs. Betsy Roy....................... Guidance Office
Miss Alice Smith..................... Main Office
Miss Ida Walther.................... Adult Division Office
Mrs. Thelma Wilson.................. Cosmetology Office

ORGANIZATION

FOUNDATION

Riverside College was founded March 13, 1916, when, in response to a general petition of electors, the City Board of Education authorized the introduction of junior college courses in the Polytechnic High School. At the opening of the fall term, September 25, 1916, twenty-four such courses were offered in fifteen departments of study. The enrollment for the first academic year was one hundred ten.

Circumstances were favorable to the development of a junior college at Riverside. The Polytechnic High School had been recently built, and its equipment was suited to advanced work. Many of the faculty had taught in college. For the period from 1916 to 1921 the new institution functioned successfully as a department of the high school.

On May 27, 1921, the California State Legislature passed the Junior College Act which authorized the formation of junior college districts.

In accordance with this act, and by authority of the State Board of Education, the Riverside Junior College District was formed in 1921, and the institution became thereby a district junior college. As now constituted, the district embraces, in addition to the City of Riverside, the communities of Alvord, Ferndale, Glenavon, Highgrove, Jurupa, Midland, Mira Loma, Moreno, Union Joint, and West Riverside. The City Board of Education constitutes the governing board. The College receives its financial support from the State of California on an A. D. A. basis, supplemented by a district tax. The College is therefore part of a state-wide system of regional junior colleges designated to popularize education in cooperation with the State University and under advisory supervision of the State Board of Education.

The formation of the district suggested the advisability of erecting a separate group of buildings for the use of the College. Accordingly, property was purchased on Terracina Drive and Riverside Avenue as a site for the new campus. Two residences, which stood on the site (Gage Hall fronting on Terracina and the Collier cottage on Riverside Avenue), were used as temporary quarters. Bonds were voted on May 10, 1922, and again on January 18, 1927, which have given the College its present physical plant on a separate campus, with its own library and laboratories, and its own faculty. Since 1927, certain other units have been added, the cost being defrayed by direct tax.

MANAGEMENT AND CONTROL

The management and control of the College are vested in a Board of Education of five members. These are chosen at the biennial city elections and hold office for four years.

*In 1924 Gage Hall was razed and the Collier Cottage was moved to its present location on Fairfax Avenue.
AIMS AND FUNCTIONS

The College has a two-fold aim and function:

(1) to provide two-year college curricula complete in themselves which, so far as possible, shall meet the needs and objectives of the individual student without reference to preparation for upper division work in a senior college or university;

(2) to provide courses corresponding to lower division university courses which will enable students who wish to continue their studies elsewhere to transfer without loss of time or credit. As an integral part of the state system of education, the College aims specifically to satisfy the requirements of the University of California for admission to its upper division. Fulfilling the lower division requirements of the University of California is equivalent to fulfilling the lower division requirements of most standard colleges and universities.

THE COLLEGE YEAR

The College year begins in the latter part of September and continues through three terms of twelve weeks each.

The ratio between units awarded on the quarter plan (as at Riverside College) and units awarded on the semester plan (as at the University of California) is as three to two. Quarter units, therefore, may be converted into semester units by multiplying by two and dividing by three; semester units may be converted into quarter units by multiplying by three and dividing by two.

SUMMER SESSION

A fourth quarter, or summer session, is held each year immediately following the spring quarter. This quarter is divided into a six week's session, and a five weeks' session, depending upon the needs and demands of students. These sessions, enable the students to do additional academic work and to make up deficiencies. Both college and high school subjects are offered. A total of nine quarter units is allowed for each session with the exception of the laboratory sciences where fifteen quarter units are allowed for the eleven-week period.

LOCATION AND CLIMATE

The College is located at Riverside in the heart of the citrus belt-sixty miles east of Los Angeles. Riverside has an elevation of 871 feet and a population of about 50,000. It is on the lines of the Union Pacific, Santa Fe, Southern Pacific, and Pacific Electric railways. A seasonal rainfall of approximately 11 inches and a mean temperature of 59.3 degrees for the college year (September 15 to June 15) ensure climatic conditions which are exceptionally favorable for intensive study.
4:30 P.M. every week day. Additional materials are available to the student at the Riverside Public Library, with its 260,358 books, bound magazines, and government documents.

**Laboratories**

Laboratories devoted solely to College work are maintained in bacteriology, botany, chemistry, engineering, geological sciences, physics, psychology, secretarial science, and zoology. The value of apparatus and permanent equipment in the several departments is as follows: aeronautics, $20,000.00; astronomy, $4500.00; agriculture and botany, $5700.00; bacteriology, $6500.00; chemistry, $8500.00; cosmetology, $6000.00; engineering, $2250.00; geology, $4000.00; household science, $1500.00; physics, $13,000.00; psychology, $300.00; secretarial science, $5750.00; zoology, $4300.00.

**Art and Music**

Special equipment in the Art department includes a projection machine and 1000 lantern slides. Available also is a loan collection of 3000 additional slides, many of these in full color. In the ceramics division there is a large Denver kiln, a smaller kiln, and four potter's wheels; in the glaze laboratory two ball mills for grinding ram glazes, and electric test kiln, scales, and incidental tools. In the fine art division are found many reproductions of paintings by masters. Special equipment for fine and commercial art includes etching and block printing presses, compressor, air brushes, and cutawl.

The Music department facilities include upright pianos, a Steinway grand piano, Victor radio electrola, a Webster record player with amplifier and a professional type electrical recorder designed to register the progress of voice students throughout the year.

**Shop Equipment**

Two buildings for Aeronautics with 8,500 feet of floor space located at the corner of Terracina Drive and Saunders Street were constructed in 1947. These buildings contain classrooms, electronics laboratory, aerodynamics laboratory, compression engines laboratory, link trainer laboratory, machine shop, welding shop, study room, and audio-visual classroom.

**Auditorium and Stage**

The Auditorium, which is intended primarily as a student assembly hall, has a seating capacity of five hundred. The stage is unique in college architecture, opening, as occasion requires, either into the auditorium or upon the cloistered court, where open-air assemblies and commencement exercises are held. The indoor proscenium arch has a span of 20 feet 6 inches, the outdoor arch a span of 38 feet. The stage measures 41×44 feet.

A two-manual Kilgen organ is equipped with a full set of Deagan Class A chimes. The action is electro-pneumatic throughout. A double set of shutters allows the music to be heard either in the quadrangle or in the auditorium.

**Memorial Chimes**

The Maas twenty-one bell automatic playing tower chimes are dedicated to former students who gave their lives in World War II. The Westminster chime signal is played each hour to dismiss classes. By means of a keyboard, selected melodies can also be played. These chimes represent the culmination of a plan sponsored by the Associated Student Body, 1946-1947. Business men and other citizens contributed generously to the first World War II memorial in the city of Riverside.

**Gymnasium**

The Gymnasium is located in the arroyo below the mesa on which the academic buildings stand. It is of reenforced concrete. The main hall with a floor space of 85×106 feet is flanked by galleries which will accommodate sixteen hundred spectators. In the wings beneath these galleries are the shower and locker rooms. Auxiliary rooms for special exercises are also provided, as well as individual offices for the department staff. Adjacent to the gymnasium are the athletic grounds, with two football fields, two hockey fields, a quarter mile track and a 220 straightaway, six tennis courts, ten basketball courts, twelve volley ball courts, a baseball diamond, and an auxiliary baseball practice field.

**Bleachers**

In the fall of 1930 reenforced concrete bleachers were built to accommodate spectators attending pageants, football games, and track and field meets. The seating capacity is two thousand.

To ensure safety, four main exits have been provided: one at each end of the bleachers, one at the lower center, and one at the rear, where a broad reenforced concrete bridge spans the gap between the bleachers and the hillside.

The front passageway is overhanging in design, and affords weather protection for contestants in track and field meets as well as for outdoor classes.

The space between the bleachers, which is divided by a tunnel into two equal parts, has been enclosed and furnished with offices and workrooms. The western half serves as the headquarters of the Reserve Officers Training Corps.

**Health Control and Health Service**

The College concerns itself with the maintenance of conditions favorable to the health of students and faculty, not only to safeguard the College
community as a whole against epidemics, but also to guarantee to the individual student or instructor who enjoys normal health and physical vigor the opportunity to continue his college work under the most favorable circumstances. To this end, either Physical Education or Military Science is required of all students. *Exemption may be granted to the student who because of physical disability can not engage in active exercise, provided a physician's certificate stating the cause of the disability and fixing the time limit for the exemption is properly filed. In addition, a three-units course in Hygiene is required of each candidate for the degree of Associate in Arts.

The College also concerns itself with controlling the academic activities of students whose health and strength do not admit of a normal curriculum, and with giving such students advice and instruction in the hope that their physical and mental health may be improved.

At the beginning of the Autumn Quarter the new student and the student who plans to participate in any sport supervised by the College is given a physical and medical examination by the College medical staff. Cases needing professional attention are referred to the physician or medical service of the student's choice.

Emergency treatment may be administered on the campus, but only temporary and limited aid is given. The Bacteriology department renders service in making tests and analyses. The City and County Health Department conducts a tuberculosis test of all College students who request the service. If necessary, X-rays are taken.

The College does not assume legal responsibility or obligation in the case of students who suffer injury while in athletic training or competition. Nevertheless, it is the policy of the College to pay, within certain limits, for the treatment of injuries thus received. This expense is normally covered by group insurance which is carried by the Associated Student Body.

EMPLOYMENT SERVICE

Many students who wish to attend school find it necessary to earn part or all of their expenses. The College can not guarantee anyone employment, but it does undertake to assist worthy students in finding work suited to their abilities.

To this end (1) the Board of Education provides in its budget for the employment of a limited number of laboratory, clerical, and janitor assistants. (2) The College maintains a Placement Service Bureau, which attempts to find part-time jobs for students while in college and permanent positions after graduation.

Students are cautioned against trying to carry a heavy academic program while under the necessity of self-support.

*See Physical Education.
OTHER ORGANIZATIONS

Art Club
Bachelorettes
Block R
Community Service
Cosmetology
The Egglestonites
Engineers Club
Gamma Iota Alpha
Inter-Varsity Christian Fellowship
International Relations
Jokers Club
Junior Lions
Kappa Upsilon
Newman Club
Omicron Pi
Pan-American
Pre-Legal Club
Women's Athletic Association
Y. M. C. A.
Y. W. C. A.
Zeta Phi
Zoematheta Club

PUBLICATIONS

The Tequesquite is the Riverside College annual. The editor and business manager are appointed by the outgoing editorial board of the Tequesquite.

The Tiger Times which is published twice a month contains current news of campus and college activities. The editors and manager are appointed by the outgoing editorial board of the Times.

DRAMATICS

The interests of drama are served by the classes in dramatic art, English 9 and 19, which sponsor the production of two or three programs of short plays during the year.

MUSIC

Musical activities are given a large place in the life of the College. Instrumental music is represented by the band; choral music by the student choir and glee clubs. These organizations participate in assembly and commencement programs.

ATHLETICS FOR MEN

The College is a member of the Southern California Junior College Association, Eastern Conference. Two Commissioners of Athletics, one for the Western Conference, one for the Eastern, are charged with the enforcement of all rules and regulations pertaining to the athletic activities of their respective sections.

The Association recognizes for intercollegiate competition the following activities: baseball, basketball, boxing, cross country running, football, golf, gymnastics, mass athletics, swimming, tennis, track and field, and wrestling.

All institutions of the Association winning either sectional or association championships through regularly arranged sectional schedules or playoff contests are awarded suitable trophies. No individual awards are made.

ATHLETICS FOR WOMEN

Riverside College is also a member of the Southern California Women's Athletic Association of Junior Colleges. Basketball, volleyball, indoor baseball, hockey, and tennis constitute the program of intercollegiate sports. Three junior college play days are scheduled each year.

ELIGIBILITY TO STUDENT ACTIVITIES

To be eligible to hold any Student Body Office or to represent the College in any intercollegiate activity, a student must be passing in at least ten and one-half units of work. In addition, all except first-year students enrolled in their first quarter must have passed in at least ten and one-half units of work in their last previous quarter or semester. No student shall represent his institution in any athletic activity who registers later than three weeks after the first day of instruction in the quarter or semester in which he desires to compete.
RIVERSIDE COLLEGE GRADUATES
CLASS OF 1948

GRADUATES

Gabriel Eloy Acosta
Thelma Eleanor Adams
Zelma Josephine Allec
Earl Arthur Andre
Douglas Gene Andrews
Reynaldo Aparicio
Richard Houston Arndt
Doris Armstrong
William F. Ashmore
Edward Richard Atencio
Barbara Berry Babcock
William Coulter Bailey
William Frank Baker
Ellen Jane Banks
Richard Allan Barclay
Donald Harry Bartee
Karen Elane Basinger
Maurice Eugene Beckley
Margaret Roberta Bell
Glennice Lillian Belnap
Donald Holman Biery Jr.
Rolland Marion Bird
John D. Bjorkman
Brian Dee Bonham
Walter Merle Bott
Robert Edward Boudinot
Landus Owen Bournald
Idamarie Boyer
Joan Braman
Jacqueline Ellen Brechin
John Dorian Briggs
Edward William Brophy
Gerald Lewis Browne
Billy Duane Burnett
Raymond Albert Burri
J. Richard Campbell
Alma Louise Canonge
Robert Ellison Carson
William Cornell Carson
Alma Christine Carter
Robert Clay
Ellis W. Clines
William L. Colley, Jr.

James T. Collins
Frank Darwin Cook
James Arthur Coomes, Jr.
Jack Cooper
Clement M. Cope, Jr.
William Earl Cornwell
Leon T. Corones
Everett Brantley Cowser
Marlyn JoAnn Criger
Jocelyn Rose Dahl
Lloyd A. Davies
Max A. Decker
Jack Merriem Dent
Glenn Howard Denton
Ewing Stephens Difani
William E. Doonan
Ralph Mayer Doran, Jr.
Robert H. Donuma
Robert Wesley Dowd
Robert Buchanan Edmondson
William John Eisenlord
Harold R. Ellis
Francis George Ellison
Barbara Jean Ely
Eric Theodore Emman
Donald Roger Erickson
William Edward Erickson, Jr.
Frank Esparza, Jr.
Warren Estes
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* Work completed August 1, 1947
** Work completed September 6, 1947
*** Work completed December 12, 1947
**** Work completed January 30, 1948
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