RIVERSIDE COLLEGE BULLETIN

BULLETIN
1945-1946
WITH ANNOUNCEMENTS FOR
1946-1947

RIVERSIDE, CALIFORNIA
PUBLISHED BY THE COLLEGE
MAY, 1946
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COLLEGE CALENDAR
1946-1947

1946

AUTUMN QUARTER
Sept. 12 Thursday, 9:00-11:00 Pre-Registration Tests
Sept. 12 Thursday, 9:00- 4:00 Registration of students
Sept. 13 Friday, 9:00- 4:00 Registration of students
Sept. 16 Monday, 8:00 Instruction begins

Friday, October 4, last day for removing withheld grades
of the Spring Quarter of 1946.

Nov. 11 Monday, Armistice Day: a holiday
Nov. 28, 29 Thursday, Friday Thanksgiving recess
Dec. 18, 19, 20 Wed., Thurs., Fri. Autumn Quarter Examinations
Recess from December 21 to January 5, inclusive

1947

WINTER QUARTER
Jan. 6 Monday, 9:00-10:30 Pre-Registration Tests
Jan. 6 Monday, 9:00- 4:00 Registration of students
Jan. 7 Tuesday, 8:00 Instruction begins

Friday, January 24, last day for removing withheld grades
of Autumn Quarter.

March 19-21 Wed., Thurs., Fri. Winter Quarter Examinations
Recess from March 22 to March 30, inclusive

SPRING QUARTER
March 31 Monday, 9:00- 4:00 Registration of students
April 1 Tuesday, 8:00 Instruction begins

Friday, April 18, last day for removing withheld grades
of Winter Quarter.

May 30 Friday Memorial Day: a holiday
June 9, 10, 11 Mon., Tues., Wed. Spring Quarter Examinations
June 11 Wednesday, 8:00 p.m. Commencement
DIRECTORY

ADMINISTRATION OFFICES: At the right of Terracina archway

Director
Registrar
Dean of Women
Office Secretary
Guidance Office

4310, Station 10
4310, Station 12
4310, Station 13
4310, Station 11
4310, Station 15

LIBRARY: North side of the Quadrangle

ADULT EDUCATION DEPARTMENT: Room 101
BOOK STORE: Room 117
STUDENT BODY OFFICE: Room 117
WOMEN'S LOUNGE: Room 116
ARROYO OFFICE: Room 114

DEPARTMENTS OF INSTRUCTION: (Rooms are numbered consecutively beginning at the left of the archway)

Quadrangle, First Floor
Spanish .............................................................. La Casa de Lenguas
French, German ................................................. 102
Physics, Engineering ........................................... 103-105
Physiology ......................................................... 107
Art ........................................................................... 108
Botany .................................................................... 109
Bacteriology ............................................................ 111
English ................................................................. 112-115
Secretarial Science ................................................ 120
Music ..................................................................... 120
English: Public Speaking, Dramatic Art, Auditorium

Quadrangle, Second Floor
Chemistry ............................................................. 201-205
Zoology, Biology .................................................... 206, 207
History, Sociology .................................................. 208, 211
Economics, Political Science ................................. 209, 211
Mathematics ......................................................... 210
Cosmetology ......................................................... 210
Basement
Geological Sciences, Drawing ............................... 20, 22, 25
Physics: Photographic Laboratory ......................... 23, 24

Applied Arts Building ................................. 4310, Station 20
Printing ............................................................. Basement
Mechanics Building ............................................. 4310, Station 1
Electric Shop ....................................................... 4310, Station 6
Machine Shop ..................................................... 303, 308
Auto Mechanics ................................................... 304, 308
Mill Cabinet ........................................................ 306, 307
Household Arts and Science Building .................... 460
Orchestra Building .............................................. 400
Band, Orchestra .................................................. 400
Cafeteria .............................................................. 4310, Station 2
Men's Gymnasium .............................................. 4310, Station 9
Women's Gymnasium ......................................... 4310, Station 3
OFFICERS OF ADMINISTRATION

THE BOARD OF TRUSTEES

Mrs. Willard G. Babcock (1949) 3525 Pine Street
Charles Beaubreau (1949) 5845 Grand Avenue
(Resigned November 5, 1945)
Mrs. E. M. Bonnett, Jr. (1947) 7515 Victoria Avenue
J. Norman Irving (1947) 6499 Havarden Drive
George C. Pooley, Jr. (1949) 3079 Chapman Place
Appointed November 11, 1945
Russell S. Waite (1949) 4408 Beatty Drive

OFFICERS OF THE BOARD

President: Mrs. E. M. Bonnett, Jr. Vice Pres.: Russell S. Waite
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 Registrar: Thomas G. Allison
Dean of Men: Jesse P. Mortensen
Dean of Women: Frances M. Fraser
Director of Guidance: Jean Thayer

Librarian: Vivian W. Spencer Office Secretary: Mary Anderson
Business: Harry Dangerfield

FACULTY

1946-47

EMERITUS LIST

Boardman, Harry L. Philosophy, Sociology
Concord, California
A. B., Colfax College; D. D., McMinnville (now Linfield) College; A. M., University of California. At Riverside College, 1920-1938.

Cooper, Agnes B. Librarian
A. B., University of Illinois, Phi Beta Kappa. At Riverside College since June 1944.

Moore, N. O. Printing

Test, Charles Darwin 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.

ACTIVE LIST

Allison, Thomas G. Registrar, English
4690 Rubidoux Avenue 2886
A. B. (Cum Laude); A. M., L.H. M., St. Mary's College, California. Graduate student, University of California, and American Academy of Dramatic Arts. At Riverside College since 1928.

Anderson, Robert Patton English
3575 Rosewood Place 2651
A. B., Princeton University, Phi Beta Kappa; A. M., Princeton University. At Riverside College since 1916.

Bailey, William Russell Chemistry
361 Oakwood Place 5389-J
A. B., Stanford University. Graduate student, Pomona College, and University of California; A. M., Claremont Colleges. At Riverside College since 1933.
BLESS, HOWARD H. 5621 Grand Avenue 2752-W
Physics, Engineering, Astronomy
B. S., University of California, Sigma Xi; M. S., University of California. At Riverside College since 1920.

BRANDT, REXFORD 4429 Orange Street 2269-M
Art, and Director of Art Center
A. B., University of California. Graduate student, Stanford University and Redlands University. Student in art with Richard Allman, Phil Dike, Barse Miller, and Paul Sample. At Riverside College since 1937.

CHENEY, GERTRUDE 3482 Elmwood Court 5738-J
Choral Training
A.B., Oberlin College; M.S.M., Union Theological Seminary, New York. At Riverside College since 1945.

COOPER, LAWSON P. 2823 Prospect Avenue 0685-J
Art, Philosophy, Psychology
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 1894
Botany, Zoology, Chemistry
A. B., University of California. Graduate student, University of California, University of Wyoming, and Harvard University. At Riverside College since 1931.

COPP, HAROLD W. 4567 Seventh Street 2052-J
Physical Education
B.S.E., M.A., Ph.D., University of Michigan. At Riverside College since 1945.

CORN, DR. MAGDALANE H. 3945 Terracea Drive 6023
Examinig Physician for Women
At Riverside College since 1945.

DUBEAU, BERTHA J. 3649 Briscoe Street 5768-M
Bacteriology, Hygiene, Psychology
A. B., University of California; A. M., University of California. Graduate student, University of California (Hooper Foundation), Johns Hopkins School of Hygiene and Public Health, and Stanford University. At Riverside Junior College since 1927.

*Granted leave of absence April 14, 1943, to enter military service.
LINHART, GEORGE A. 4195 1/2 Lemon Street 1997-J
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.

McDERMONT, EARL ALEXANDER 3709 Washington Street 3926-R
History, Sociology
A. B., Occidental College; A. M., Columbia University. Graduate student, University of California and University of Montpellier, France. At Riverside College since 1921.

MACKENZIE, MAURICE RUSSELL 4579 Ninth Street Economics, Political Science, Sociology
B. S. (Cum Laude); Harvard University; Ed. M., Harvard University. Graduate student, University of Chicago. At Riverside College, 1924-25, and since 1926.

MORRIS, Evalyn A. 3840 Stotts Street, Arlington Cosmetology
Registered Cosmetologist, Frank Wiggins Trade School. At Riverside College since 1945.

MORTENSEN, JESSIE P. 4830 Magnolia Avenue 3620-J
Dean of Men, Physical Education
B. S., University of Southern California. Graduate student, University of Southern California. At Riverside College since 1930.

MULKEY, WILLETTA M. 3120 Larchwood Place 3867-R
Household Art
A.B., M.S., Oregon State. At Riverside College since 1942.

NOBLE, O. W. 4158 Beatty Drive 1633-J
Director of Adult Education
B.P.E., George Williams College. B.S., M.S., University of Southern California. At Riverside College since 1943.

PALMER, James M. 8423 Indiana Avenue 3594
Military Science and Tactics
A. B., University of Minnesota; LL. B., University of Minnesota. Captain of Infantry, U.S.A., retired At Riverside College since December 30, 1940.

PATTON, ROBERT L. 4070 Jurupa Avenue 2899
English
A.B., Stanford University. At Riverside College since 1931.

PAUL, ARTHUR G. 1912 Pennsylvania Avenue 1855-J
President
A. B., Occidental College; Phi Beta Kappa. Graduate student, University of California. At Riverside College since 1917.

RICHARDS, JULIAN K. 3969 Rosewood Place 6997-J
French
A. B., Columbia University; A. M., Columbia University; Certificate d'Etudes Francaises, Universite de Grenoble. Graduate student, University of Chicago, Baylor University, and Stanford University. At Riverside College since 1922.

ROB, OBERT J. 3969 Rosewood Place 6997-J
Printing
North Dakota Agricultural College. University of California. University of Southern California. At Riverside College since 1944.

*SCOTT, DAVID W. 828 College Ave., Claremont 4283
Art

SCOTT, JAMES COLEMAN 3669 Briscoe Street 5555
English
A. B., University of California. Graduate student, University of California and Stanford University. At Riverside College since 1925.

SHEPARD, WAYNE W. 4658 Jurupa Avenue
Architecture, Stagecraft
A.B. University of Washington; A.M. Claremont Colleges. At Riverside College since 1945.

SPENCER, VIVIAN W. 3640 Locust Street 6095-R
Librarian
B. S. Utah State Agriculture College. Graduate student, Utah State Agriculture College, University of California. At Riverside College since September, 1944.

*Granted leave of absence, January 9, 1942, to enter military service.
ORGANIZATION

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.

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 communities having a certain assessed valuation and a certain total average daily attendance in the high schools of the district.

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

\[1] \text{\$3,000,000 prior to 1921; increased to \$10,000,000 in 1921, and to \$25,000,000 in 1929 at the present time (1946) an amount is to be determined by the State Board of Education as adequate for a junior college in the proposed area.}

\[2] \text{Seventy-five prior to 1921; increased to 400 in 1921, and to 1000 in 1929; at the present time (1946) a number is to be determined by the State Board of Education as sufficient for a junior college in the proposed area.}
the governing board, but is separately organized as the College Board of Trustees. The system of finance, as prescribed by the Junior College Act of 1921, provides a state apportionment of $2000.00 and, in addition, $90.00 for each unit of average daily attendance. This apportionment is supplemented by a district tax. The college is therefore part of a state-wide system of regional junior colleges designed 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 Trustees of five members. These are chosen at the biennial city elections and hold office for four years.

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 approximately twelve weeks each. These terms are known as the autumn, winter, and spring quarters.

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.

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.

The main campus occupies a site at the junction of...
Terracina Drive and Riverside Avenue. It is about a mile from the business district, and may be reached by automobile or by the Pacific Electric Motor Transit Lines. The academic buildings stand at the edge of a broad mesa overlooking an ancient watercourse, which was known to the Indians as Tequesquite arroyo from the tequesquite or "soap soil" once found there in abundance. In this natural stadium the physical activities are centered. At the eastern end of the arroyo lies a five acre tract, which serves as an auxiliary campus. Half of this property was deeded to the college in 1932 by Mr. and Mrs. A. C. Loverkin. The other half, including a three story residence, was acquired by purchase in 1935. The land, which is set with olive, walnut, and ornamental trees, has a frontage of 700 feet on Saunders Street. The buildings and grounds constitute the Student Union.

BUILDINGS AND EQUIPMENT

The central group of academic buildings consists of one- and two-story structures. The different units are grouped about an open court, and are connected by a continuous single or double-decked arcade except on the west side of the quadrangle. At this point the covered arcade of the upper tier gives place to an open deck with wrought iron balustrade. In style the buildings represent the best period of the Italian Renaissance. The gray walls of reinforced concrete with red tile roofing are reminiscent of Spanish missions. Except at the southwest corner the central group of buildings is complete.

On the north side of the quadrangle are grouped the Administration Offices and the Library; on the east and south most of the departments of letters and science; on the west the auditorium and the departments of Secretarial Science and Commerce.

LIBRARY

The Library reading room, which is equipped with Library Bureau furniture, has seating accommodations for 90 students. The number of bound volumes is 18,130. Approximately 120 newspapers and periodicals are regularly received. The annual budget for books and magazines ranges from $1000.00 to $2000.00. The amount expended in 1944-1945 for new books and magazines was $843.27. The librarian, who devotes full time to the work, is a university graduate of extensive professional experience. Two assistants are employed.

The resources of the Riverside Public Library, with its 245,467 books, bound magazines, and government documents, are available to the College students.

LABORATORIES

Laboratories devoted solely to College work are maintained in bacteriology, botany, chemistry, engineering, geological sciences, physics, physiology, psychology secretarial science, and zoology. The value of apparatus and permanent equipment in the several departments is as follows: agriculture and botany, $4950.00; bacteriology, $4800.00; chemistry, $9000.00; engineering, $2250.00; geology, $4000.00; household science, $800.00; physics, $13000.00; physiology, $1000.00; psychology, $300.00; secretarial science, $4500.00; 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

1 Pronounced Te-ke-kee-to.

21

Net Total, June 1945
the glaze laboratory two ball mills for grinding ram glazes, an 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, R. C. A. victrola, and a professional type electrical recorder designed to register the progress of voice students throughout the year.

Shop Equipment

All shops are housed in a large, new building with modern facilities. All machines are motor driven. A partial inventory of equipment in the different shops is given herewith.

**Auto Shop.**—Precision valve reconditioning equipment, cylinder grinder, stroboscope, electrical analyzer, battery charger, testing and repair tools, 30 ton hydraulic press, oxy-acetylene welder, 20" drill press, 21" lathe, body and fender repairing tools, paint spray gun, automatic air compressor, 102 electric grinder, surface grinder, special tools for various automobiles, individual tool boxes with hand tools.

**Machine Shop.**—36" x 8' planer; Kempsmith milling machine; LeBlonde grinder, universal; 16" Steptoe shaper; 3' x 9' Cincinnati Bickford radial drill; ten South Bend precision tool room lathes; 16" backsaw; 24" shaper; tool grinder; 16" blower; center grinder; buzzer furnace; drill presses; two &2 Van Norman milling machines; and a three-furnace heat-treating plant.

**Mill Cabinet.**—Twenty work benches, containing individual tools for each student; Oliver cut-off saw; American 12" jointer and Universal saw table; 24" single surface planer; 36" band saw; hollow chisel mortiser and tenoner; nine woodturning lathes and several small portable electric tools.

**Print Shop.**—Three job presses; one flat-bed cylinder press; two monotype keyboards; one monotype caster; two linotypes; power paper cutter; wire stitcher; process embosser. The printing of the Register, Tequesquite, Arroyo, and Student Varieties, as well as all job work, is done by the College Press.

**Welding Shop.**—One cutting torch; one grinder; eight 200 amp. Hornet portable arc welders; two 200 amp. portable P. & H. Hansen welders; and one cutting machine with radiograph.

**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 x 44 feet.

The mural decorations in seven panels symbolize the achievements of order and design, as exemplified in aerial, agriculture, industrial, urban, electrical, governmental, and naval architecture.

The 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.

**Gymnasium.**

The Gymnasium is located in the arroyo below the mesa on which the academic buildings stand. It is of reinforced concrete. The main hall with a floor space of 85 x 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 straight-away, six tennis courts, ten basketball courts, twelve volleyball courts, a baseball diamond, and an auxiliary baseball practice field.
In the fall of 1930 reinforced 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 reinforced 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 filed with the Registrar on the day of registration. In addition, a three-unit 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 Trustees 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.

FINANCIAL STATEMENT FOR 1944 - 1945

Assessed valuation, Junior College District $44,931,980.00

Junior College District tax rate .14

Balance, July 1, 1944 $36,355.93

Receipts:
State Appportionment $30,100.00
Junior College District Tax 60,924.55
War Production Training 15,351.61
Rural War Production Training 128.00
Federal Housing Fund 1,638.09
Other receipts 5,621.96 $113,735.61

Total receipts $113,735.61

Expenditures:
Salaries 68,476.28
Library: Books and magazines 1,031.53
Other expenses 6,772.35
Capital Outlay 277.97
Summer School Expenses 3,629.02
War Production Training 14,175.74
Evening School 16,231.83 $110,587.82

Total of all expenditures $110,587.82

Balance July 1, 1945 39,503.72

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 forms 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 ADVANCED STANDING

Admission in advanced standing may be granted to the student transferring from an institution of collegiate rank. Written application on the forms provided and official transcript 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 discussion; they do not submit material of any kind for reviews; they do not have laboratory privileges, nor do they receive any academic credit for the courses which they attend.

EXPENSES

STUDENT BODY MEMBERSHIP

No tuition is charged by the College, but a general student body membership fee is levied, payable at the time of registration. This fee is applicable to all students, regular and special, and may be paid at the beginning of the academic year, or by quarters, as follows:

- Autumn, Winter, and Spring Quarters: $10.00
- Winter and Spring Quarters: 7.00
- Spring Quarter: 4.00

In event of the student's withdrawal, the student body membership fee is refunded in whatever proportion is deemed equitable.

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 $15.00 to $30.00; for materials $10.00 to $20.00. 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, 1946.

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.

Because of the scarcity of rooms in Riverside students expecting accommodations should make arrangements long in advance of registration dates.
MATRICULATION

PRE-REGISTRATION TEST

The Thurstone Aptitude Test is given all students who apply for admission to the College in first-year standing. The purpose is not to determine what applicants shall be admitted, but to obtain information which will enable counselors to give the educational and vocational guidance best suited to each student’s need. The test is therefore an integral part of registration procedure, and as such is required for full matriculation. The times appointed for the tests are indicated in the Calendar on page 5 of this bulletin.

REGISTRATION

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

Registration includes the filling out of 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 registration card issued to the student admits him to class. It also serves as a certificate of membership in the Associated Student Body, including a year’s subscription to the Arroyo and the privilege of admission to all student body activities at 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.
MATRICULATION

After the third week of each quarter registration is closed except to those who transfer directly from other colleges or universities.

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.

Physical Education or Military Science is required of all students. Exemption from Physical Education may be granted (1) to the student who because of physical disability can not engage in active exercise, if he files at the Registrar’s Office when registering a physician’s certificate which states the cause of such disability and fixes the time limit for the exemption asked; (2) to the student who is registered for seven, or fewer, units; (3) to the student who is 25 years of age or over.

All candidates for the degree of Associate in Arts must complete one of the following options: Physical Education (3 quarter units) and Hygiene 1; or Physical Education (3 quarter units) and Hygiene 3; or Military Science (6 quarter units); or Military Science (3 quarter units) and Physical Education (1½ quarter units); or Physical Education (3 quarter units) and Physiology 1.

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 15 units.

The student who has made an average grade of B for all work undertaken in any one quarter may enroll for 19 units in the following quarter. The student who has made an A grade in all work undertaken in any one quarter may enroll for 18 units in the following quarter. The student who has even though additional units are not allowed for repetition.

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 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 junior college, such excess units will be deducted by the University. The Riverside College, however, will recognize for graduation in its own curricula all units which have been officially approved 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 in any quarter is restricted to 16 units (not including physical education or military training) the following quarter.

STUDY-LIST CHANGES

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

During the second or third week of any quarter, a course or courses may be dropped as provided above, but no course may be added without the written approval of the instructor whose class the student desires to enter. Approval forms may be obtained at the Office.
At the end of the third week, 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.

During the last four weeks of any quarter, no course may be officially removed from the student's study-list. A course discontinued for any cause within the last four weeks remains upon the matriculation card, the student receiving at the end of the quarter whatever grade the work and circumstances warrant.

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 Administration office. Women not living at home must reside at places approved by the Dean of Women.

AUTOMOBILE PARKING

Parking space on the streets adjacent to the campus is limited, but a large area, with individual lanes, has been set apart for students' cars at the eastern end of the stadium. On the campus itself certain lanes have been assigned to faculty members.

BOOKSTORE

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

Second-hand 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**

General reference works and periodicals, which for convenience are placed in the reading room, do not circulate and may not be taken from the Library. Overnight books may be checked out at noon; books reserved for collateral reading may be taken at 3 o'clock. All overnight and reserved books must be returned by 9 a.m. the next college day. Books not reserved for class use may be taken out for a period of two weeks. Fines for one-day books kept overtime are five cents an hour and for two-week books five cents a day. All books must be returned and fines paid before quarter term records will be officially recognized.

**GRADING SYSTEM**

**GRADES**

Grade reports are issued at the close of each quarter 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.
- 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 course are counted, however, in study-list totals.
- A withheld grade must be removed within the first three weeks 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 sixty semester units of acceptable college work (not more than seventy are accepted by the University of California) and at least as many grade points as time units; that 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.

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 grades 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 " " " " " " " "
   C, 1 " " " " " " " "

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 30).
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 1945.

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. Not awarded in 1945.

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. No beneficiaries in 1945.

DONALD A. PORTEOUS FUND

The Donald A. Porteous Fund, established in 1922 by Miss Genevieve Aberdien in memory of her nephew, who was a student at Riverside College in 1920-1922, is administered for the benefit of especially deserving students who need some financial aid.
GRADUATION

DEGREE OF ASSOCIATE IN ARTS

The degree of Associate in Arts will be conferred upon the student duly accredited as a high school graduate who completes satisfactorily a junior college curriculum of 90 quarter units1, including 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, Hygiene 3, Physiology 1.
   - Physical Education (3 quarters) and Military Science (3 quarters).
   - Military Science (6 quarters).

III. American Institutions and Ideals: a study of the American constitutional system and its ideals. The requirement is fulfilled by completing (1) or (2) or (3) or (4).

1. English 1 (winter quarter). See note under English 1, p. 64.
2. Political Science. See note under Political Science 1, p. 80.
4. Examination, without unit credit.

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 any combination of these.
- Group 4. Vocational Courses.

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, because the curriculum requirements established for graduation from a junior college are not identical with the lower division requirements of the University; because the general scholarship average required for graduation from a junior 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 program for the average first year student whether he expects to terminate his education in the Junior College or to transfer to a senior college or university.

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1</td>
<td>3</td>
</tr>
<tr>
<td>Foreign language</td>
<td>3 or 4</td>
</tr>
<tr>
<td>Natural science</td>
<td>3, 4, or 5</td>
</tr>
<tr>
<td>Social science</td>
<td>3</td>
</tr>
<tr>
<td>Physical Education or Military Science</td>
<td>½</td>
</tr>
<tr>
<td>Electives</td>
<td>0, or 1</td>
</tr>
</tbody>
</table>

Total (maximum) 16½ units

---

1A 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.
TRANSFER TO THE UNIVERSITY

IN ADVANCED STANDING

Any student who desires to transfer to the University must have completed, as a graduate of an accredited high school, the requirements for admission to the University (A) in freshman standing, (B) in advanced standing.

A. REQUIREMENTS FOR ADMISSION IN FRESHMAN STANDING

High school subject requirements:

<table>
<thead>
<tr>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>(a) History</td>
<td>1</td>
</tr>
<tr>
<td>(b) English</td>
<td>3</td>
</tr>
<tr>
<td>(c) Mathematics: elementary algebra and plane geometry</td>
<td>2</td>
</tr>
<tr>
<td>(d) Science (a 3rd or 4th year laboratory science): chemistry; physics; biology; zoology; botany; or physiology</td>
<td>1</td>
</tr>
<tr>
<td>(e) Foreign languages (two years in one language)</td>
<td>2</td>
</tr>
<tr>
<td>(f) Advanced (3rd or 4th year) mathematics; chemistry; physics; foreign language: one or two additional years of the foreign language offered under (e); or two years in another foreign language</td>
<td>1 or 2</td>
</tr>
</tbody>
</table>

High school grade requirements:

Any passing mark is accepted for work completed in the ninth year. A general average of at least B grade is required in the subjects listed above (a) to (f) taken in the tenth, eleventh, and twelfth years. In computing the average, a semester grade of A may be used to offset a semester grade of C in any of the prescribed courses, whether in the same or in a different field. No subject completed with a grade of D in the tenth, eleventh, or twelfth years will be counted in satisfaction of subject or grade requirements.

B. REQUIREMENTS FOR ADMISSION IN ADVANCED STANDING

Sixty semester (90 quarter) units of acceptable college work with a scholarship average not less than C (1.00), or 15 semester units with a scholarship average of C plus (1.5).

The college student who did not qualify as a high school graduate for admission to the University in freshman standing must remove all entrance deficiencies before his application for admission to the University will be considered.
TRANSFER TO THE UNIVERSITY

To remove an entrance deficiency, the student may take a course in Riverside College in the same field in which he incurred the deficiency. Three semester units of acceptable college work completed with a grade of not less than C are equivalent to one year's high school work in the same field. Such units may be used to remove a high school subject deficiency or D grade deficiency incurred in the tenth, eleventh, or twelfth grade; or to lift a non-recommending high school scholarship average of C in a particular field to recommending level.

HIGH SCHOOL SUBJECTS in which deficiencies may have been incurred

<table>
<thead>
<tr>
<th>Subjects</th>
<th>College Fields in which high school deficiencies may be removed</th>
</tr>
</thead>
<tbody>
<tr>
<td>History</td>
<td>Social science: any course in economics, history, political science, or sociology.</td>
</tr>
<tr>
<td>English</td>
<td>English: English 1 or 10.</td>
</tr>
<tr>
<td>Mathematics</td>
<td>Mathematics: any course.</td>
</tr>
<tr>
<td>Science (3rd or 4th yr., with lab.)</td>
<td>Natural science: bacteriology, biology, botany, chemistry, physics, physiology, or zoology.</td>
</tr>
<tr>
<td>Foreign language</td>
<td>Foreign language (not necessarily the same language).</td>
</tr>
</tbody>
</table>

Work of college level employed to remove high school grade deficiencies may also be assigned full college credit, but work of college level employed to remove high school subject deficiencies is ordinarily given no credit in advanced standing.

Work taken in high school by junior college students to remove high school subject deficiencies, such as elementary algebra and plane geometry, may be counted for graduation from junior college but not for credit in advanced standing.

ADMISSION TO THE UPPER DIVISION

Admission to the upper division is granted by the University to the student who has completed 90 quarter units of acceptable college work with a general scholarship average not less than C (1.00). Admission to the upper division does not, however, necessarily signify the completion of lower division requirements. At Berkeley, the student who has been credited with 90 quarter units is admitted to the upper division and given opportunity to complete lower division shortages before graduation. At Los Angeles, the student entering with less than 90 quarter units who has failed in some particular to meet the lower division requirements "may be advanced to upper division standing under certain specified conditions."

LOWER DIVISION REQUIREMENTS

The lower division requirements of the several colleges in the University are not identical. It is important therefore that the student acquaint himself with the specific requirements of the academic college for which he is preparing so that he may plan his high school and college curriculum to conform with these requirements.

The College of Letters and Science is the largest college of the University. Its curricula are designed to acquaint the student with the essential elements in a liberal education: breadth of culture, a basic knowledge of some one field of human endeavor, and personal initiative and leadership. Those who are seeking a cultural education, or who wish to prepare themselves for a professional career in architecture, dentistry, law, medicine, journalism, social service, or teaching should qualify for admission to the College of Letters and Science.

LOWER DIVISION REQUIREMENTS, College of Letters and Science, University of California, Berkeley

*Courses marked with an asterisk meet the laboratory requirement.
(a) Subject A. This requirement is satisfied by the completion of English 1 with a grade not less than C. Military Science or Physical Education, 4 semesters (6 quarters).
Sixty semester (90 quarter) units of acceptable college work, with a grade point average not less than C.

(b) Foreign language. At least 16 semester (24 quarter) units in not more than two languages, with not less than 4 semester (6 quarter) units in any one language. The first two years of high school work in a foreign language will be counted in satisfaction of 4 semester (6 quarter) units of this requirement and each year thereafter as 4 semester (6 quarter) units. Courses given in English by a foreign language department will not be accepted in fulfillment of this requirement.

(c) Mathematics: elementary algebra and plane geometry.

(d) Natural science: at least 12 semester (18 quarter) units chosen from the following list and including at least one course marked with an asterisk: high school chemistry*, 3 semester, (4½ quarter) units; high school physics*, 3 semester (4½ quarter) units; Astronomy 1, Bacteriology 1*, 2*, Biology 1A-1B*, 3, Botany 1*, Chemistry 1-2*, 3*, 10-11*, 13, Geology 1, Physics 1*, 2*, 10*, Physiology 1*, 3*, Zoology 1*.

(e) A year course of at least 6 semester (9 quarter) units in each of three of the following groups:
   (1) English 1, 12.
   (2) Foreign language (additional to b). High school Latin is accepted in satisfaction of this requirement.
   (3) Mathematics: high school trigonometry, 1½ semester units; Mathematics 2, 2D, 3A or 11A or 11B.
   (4) Social science: Economics 1; History 4, 8; Political Science 1; Psychology 1; Sociology 1.
   (5) Philosophy: Philosophy 1, 10.
   (6) Fine Arts: Art 1abc; Music 3.

Pre-Architectural Curriculum (approximates University curriculum)

<table>
<thead>
<tr>
<th>First Year</th>
<th>Second Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1</td>
<td>Art 4abc, 13, 14</td>
</tr>
<tr>
<td>French 1</td>
<td>Engineering 11</td>
</tr>
<tr>
<td>Mathematics 2D, 11A</td>
<td>French 2</td>
</tr>
<tr>
<td>Physics 1</td>
<td>Mathematics 11B, 13A</td>
</tr>
<tr>
<td>Physical Education or Military Science</td>
<td>P. E. and hygiene requirement</td>
</tr>
</tbody>
</table>

Pre-Dental Curriculum

This curriculum assumes the completion of the following subjects in the high school: English, 3 years; history, 1 year; mathematics (elementary algebra, plane geometry, and trigonometry), 3 years; chemistry, 1 year; physics, 1 year; foreign language, 3 (or, better, 4) years.

Pre-Legal Curriculum (suggested, not prescribed)

<table>
<thead>
<tr>
<th>First Year</th>
<th>Second Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Economics 1</td>
<td>English 10</td>
</tr>
<tr>
<td>History 8, or Psychology 1, or both</td>
<td>Philosophy 10</td>
</tr>
<tr>
<td>Philosophy 4 or Political Science 1</td>
<td>P. E. or Military Science</td>
</tr>
<tr>
<td>P. E. or Military Science</td>
<td>Hygiene requirement</td>
</tr>
<tr>
<td>Elective to complete lower division requirements</td>
<td>Elective to complete lower division requirements</td>
</tr>
</tbody>
</table>

Pre-Medical Curriculum

<table>
<thead>
<tr>
<th>First Year</th>
<th>Second Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 1</td>
<td>P. E. or Military Science</td>
</tr>
<tr>
<td>English 1</td>
<td>Physics 2</td>
</tr>
<tr>
<td>Foreign language (French or German)</td>
<td>Zoology 1</td>
</tr>
<tr>
<td>P. E. or Military Science</td>
<td>Hygiene requirement</td>
</tr>
<tr>
<td>Elective necessary to complete lower division requirements</td>
<td>Elective necessary to complete lower division requirements</td>
</tr>
</tbody>
</table>

LOWER DIVISION REQUIREMENTS, COLLEGE OF LETTERS AND SCIENCE, UNIVERSITY OF CALIFORNIA, LOS ANGELES

*Courses marked with an asterisk meet the laboratory requirement.

(a) Subject A. This requirement is satisfied by the completion of English 1 with a grade not less than C.

Military Science or Physical Education, 4 semesters (6 quarters).

- Sixty semester (90 quarter) units of acceptable college work, with a grade point average not less than C.

(b) Foreign language. At least 16 semester (24 quarter) units
in not more than two languages.

(1) The first two years of high school work in a foreign language will together be counted in satisfaction of four semester units of this requirement; the third and fourth years will be counted in satisfaction of four semester units each. Only work of grade C or higher may be counted.

(2) If a new language is begun on the college level it may not apply on this requirement unless course 2, or the equivalent, with its prerequisite is completed.

(3) This requirement may also be satisfied by passing a proficiency examination in one language.

(4) Courses given in English by a foreign language department will not be accepted in fulfillment of this requirement.

(c) Mathematics: elementary algebra and plane geometry.

(d) Natural science: at least 12 semester (18 quarter) units chosen from the following list and including at least one course marked with an asterisk: Astronomy 1, Bacteriology 1*, 2*, Biology 1A-1B*, 3, Botany 1*, Chemistry 1-2*, 3, 10-11*, 13, Geology 1, Physics 1*, 2*, 10*, Physiology 1*, 3*, Zoology 1*. Any 3rd or 4th year high school laboratory science completed with a grade of at least C is accepted in satisfaction of this requirement in the amount of 3 semester (4½ quarter) units.

Three semester (4½ quarter) units of mathematics not offered in satisfaction of requirement (c) may be substituted for 3 semester (4½ quarter) units of requirement (d).

(e) A year course of at least 6 semester (9 quarter) units in each of three of the following groups:
   (1) English 1, 12.
   (2) Foreign language (additional to b). No high school foreign language work is accepted in satisfaction of this requirement.
   (3) Mathematics: high school trigonometry, 1½ semester units; Mathematics 2, 2D, 3A or 11A, 3B or 11B.
   (4) Social science: Economics 1; History 4, 8; Political Science 1; Sociology 1.
   (5) Philosophy: Philosophy 1, 10.
   (6) Psychology: Psychology 1.
   (7) Art, Music: Art 1abc; Music 3.

The COLLEGE OF APPLIED ARTS at Los Angeles offers curricula of technical or professional character, including curricula leading to special secondary teaching credentials. For the lower division requirements of this College the fourth year will be counted in satisfaction of four semester units.

student is referred to the University catalog and to his College adviser.

The School of Business Administration at Berkeley and the College of Business Administration at Los Angeles offer under-graduate curricula designed to give a broad preparation for a business career. It is the opinion of the University that the college student should take the fundamental cultural courses constituting the lower division requirements before undertaking the more specialized and professional studies reserved for the upper division in accounting, banking and finance, marketing, management, and industry.

The graduate curriculum of the College of Commerce at Berkeley trains the student "for work in public accounting, statistics, insurance, consular service, foreign trade, transportation, banking, marketing, retailing, advertising, and personnel administration."

LOWER DIVISION REQUIREMENTS, SCHOOL OF BUSINESS ADMINISTRATION, BERKELEY

The preparation for admission to the School of Business Administration consists of an organized program of work fulfilling the requirements for admission to the upper division of any of the colleges of the University. Attention, however, should be given to the following:

(a) Required:
   Economics 1 and 40.
   Mathematics 2 or Mathematics IIA and IIB.

(b) Recommended:
   Economics 10 and 11.

Lower Division requirements for admission to the College of Business Administration, Los Angeles, are about the same as those for admission to the School of Business Administration, Berkeley, except for the following:

A total of 64 semester (96 quarter) units.
Sixteen semester (24 quarter) units in one foreign language, English 12.

The College of Agriculture at Berkeley offers curricula in Plant Science; Animal Science; Entomology and Parasitology; Agricultural Economics; Forestry; Soil Science; Home Economics; Landscape Design; Agricultural Education.

The College of Agriculture at Los Angeles offers the Plant Science curriculum and the major in Horticulture leading to the Bachelor of Science degree; and graduate work in this field leading to the degrees of Master of Science and Doctor of Philosophy in horticultural science.

For the lower division requirements in the Colleges of Agriculture the student is referred to the special bulletins of the University.

The College of Engineering offers three curricula: Civil Engineering; Electrical Engineering; Mechanical Engineering. Each of these is a four-year curriculum leading to the degree of Bachelor of Science. In the opinion of the University the student should enter the College of Engineering not later than the beginning of the sophomore year.

For the lower division requirements in the College of Engineering the student is referred to the special bulletins of the University and to the Junior College departments of Physics and Engineering.

School of Education, University of California, Berkeley

"The School of Education offers professional courses intended for students preparing for educational service in secondary schools and colleges, for graduates of state colleges who are fitting themselves for supervisory or administrative positions in elementary schools, and for students who propose to engage in school administration, to teach in state teachers' colleges or in university departments of education, or to do research in the field of education." These professional courses lead to certificates of completion and to the following credentials: (1) General Secondary, authorizing the holder to teach any or all subjects in all grades of any junior college, senior high school, four-year high school, junior high school, and the seventh and eighth grades of elementary schools; (2) Junior College Credential, authorizing the holder to teach any or all subjects in all grades of any junior college; (3) The Credential of General Junior High School Grade, authorizing the holder to teach any or all subjects in the seventh, eighth, or ninth grades of any elementary or secondary school in the State; (4) Administration Credential.

Applicants for admission to the School of Education must have at least upper division standing and normally must have completed the lower division requirements.

Junior College students who indicate their desire to qualify for admission to the School of Education will be assigned to counselors competent to advise them concerning general and specific requirements.

School of Education, University of California, Los Angeles

The School of Education at the University of California, Los Angeles, offers professional curricula to students who are preparing for teaching or administrative service in elementary and secondary schools. These curricula lead to certificates of completion and state credentials authorizing service in the following fields: (1) Kindergarten-Primary; (2) Elementary (all grades); (3) Junior High School; (4) General Secondary; (5) Special Secondary; (6) Junior College; (7) Elementary School Administration; (8) Secondary School Administration. The School also provides opportunity for individual programs of study meeting the requirements of the State Board of Education for
credentials in child welfare and supervision of attendance, educational research, and educational counseling.

All candidates for enrollment in curricula of the School of Education must have completed the lower division requirements in one of the colleges of the University.

Riverside College students who indicate their desire to qualify for admission to the School of Education will be assigned to counselors competent to advise them concerning general and specific requirements.

PREPARATION FOR THE MAJOR, UPPER DIVISION

Certain lower division courses are prerequisite to a specified major in the upper division in the University. In most cases, these should be completed before upper division work is begun. It is advisable, therefore, that the student include in his study-list, so far as possible, not only those courses which satisfy the lower division requirements but also those which are prerequisite to the department major. These are listed in the following section.

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.
COURSES OF INSTRUCTION

GENERAL INFORMATION

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

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

A unit of work represents one hour of passing work for a 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.

Aeronautics
(See Vocational Courses)

AESTHETICS

1. Nature Appreciation
BLISS
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. Discussions of methods of living in the open, vacation trips, and mountaineering. Prerequisite: two years of high school English with recommending grades. Two hours weekly.

Two units, each quarter.

Art (See Art 1abc)

Greek (See Greek 2b)

Music (See Music 3)

ANATOMY

Physiology 3 (See page 81)

ARCHITECTURE

1abc. Architecture
Fundamentals of home design and construction through working and presenting drawings.

Two units, each quarter.

2abc. Interior Design
Shepard
Fundamentals of furniture design, construction and history, and simple wall and floor plan arrangements presented through drawings.

Two units, each quarter.

3abc. Stagecraft
Shepard
Fundamentals and theory of technical theater.

Two units, each quarter.

18abc. Architecture
Shepard
Design of commercial structures presented through models and renderings. Prerequisite: Architecture 1.

Two or three units, each quarter.

12abc. Interior Design
Shepard
Modern and period styles of interior design presented through perspective renderings. Prerequisite: Architecture 2.

Three units, each quarter.

13abc. Stagecraft
Shepard
Advanced problems in design, lighting, managing.

Two or three units, each quarter.

ART

Note: A special Art Center Announcement is published in September.

Preparation for the Major: Art 1abc, 4ac, 5abc.

1abc. History and Appreciation of Art
Cooper
Painting, architecture, sculpture, and minor arts. Weekly lectures illustrated with slides. Reading assignments. Special problems. Recommended prerequisite, Art 1abc.

Two or three units, each quarter.

2abc. Art in Modern Times
Cooper
Painting, sculpture, architecture, city planning, photography, the moving picture. Aesthetic theory today. Lecture, discussion groups, research problems. Recommended prerequisite, Art 1abc.

Two units, each quarter.
COURSES OF INSTRUCTION

ASTRONOMY

1. Elements of Astronomy
   Bliss
   General facts and principles of the science of astronomy, relating
   primarily to the solar system. Two lectures weekly, occasionally
   illustrated with lantern slides. A few evenings of observation with
   the telescope. No knowledge of mathematics is required.
   Two units, each quarter.

BACTERIOLOGY

Preparation for the Major. Required: Bacteriology 1; Botany 1;
Chemistry 1-2; Physics 2; Zoology 1; French or German. Recommended:
Chemistry 10, 11, 13, 14; Physiology 1; Economics 1; Hygiene 3.

1. General Bacteriology
   DuBeau
   The fundamental concepts of bacterial life, including the history of
   bacteriology, microorganisms in their relation to disease, immuno-
   lology, and the biochemical activities of bacteria.
   The laboratory exercises deal with bacteriological technique,
   media making, isolation and identification of microorganisms, as
   well as with standard methods employed in water and milk analyses.
   Two lectures and two laboratory periods weekly.
   Four units, each quarter.

2. General Bacteriology
   DuBeau
   A shorter course than Bacteriology 1. Meets the requirements for
   Agriculture and Nurses' Training. Three lectures and two labora-
   tory periods weekly. Second 18 weeks.
   Two and one-half units, winter quarter; five units, spring quarter.

10. Advanced Bacteriology
    DuBeau
    A continuation of general bacteriology. Studies of certain anaerobes
    and pathogenic organisms. Some serology. Problem work. Blood
    and urine analyses. One lecture and two laboratory periods weekly.
    Prerequisite: Bacteriology 1, autumn and winter quarters.
    Three units, spring quarter.

BIOLOGY

1A-1B. General Biology
   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.
COURSES OF INSTRUCTION

1A. Plant Biology JAEGER
First 18 weeks.
Three units, autumn quarter and one and one-half units, winter quarter.

1B. Animal Biology JAEGER
Second 18 weeks.
One and one-half units, winter quarter and three units, spring quarter.

2A. Natural History of Southern California 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. First 18 weeks.
Two units, autumn quarter and one unit, winter quarter.

2B. Natural History of the Vertebrates JAEGER
The habitats, habits, distribution, and relationship of the mammals, birds, reptiles, and amphibians of California. Field studies, lectures, and special reports. Second 18 weeks.
One unit, winter quarter and two units, spring quarter.

BOTANY

Preparation for the Major, U. C. (Berkeley). Required: Botany 1, 13; Chemistry 1-2, 13. Recommended: French, German, and elementary courses in other biological sciences.

Preparation for the Major, U. C. L. A. Required: Botany 1, 10; Chemistry 1-2, or 3; German 1. Certain phases of botanical work require Geology 1, Physics 2, Bacteriology 1, Zoology 1.

1. General Botany COOPER
The morphology and physiology of the seed plants; the habitat, structure, and reproduction of algae, fungi, liverworts, mosses and ferns; and the taxonomic, genetic, and ecological relationships of the seed plants. Three lectures and two laboratory periods weekly. Five units, each quarter.

2. Elements of Forestry JAEGER
A lecture course in the general principles of forestry, considering the developmental history of the forest, and its recreational and economic relationships. Second 18 weeks.
One and one-half units, winter quarter; three units, spring quarter.

CHEMISTRY

Preparation for the Major. Recommended: Chemistry 1-2, and one or more of 10, 11, 13, 14; Physics 1, 10; Mathematics 2D, 11A, 11B, 12A, 12B; and a reading knowledge of German. This work may be completed, in part, in the upper division.

1. General Chemistry
For those who have had high school chemistry and who wish to continue in chemistry or to undertake subjects dependent on chemistry. The theoretical and industrial sides of the subject are especially stressed. Three lecture periods weekly throughout the year and two laboratory periods, autumn quarter. Prerequisite: high school chemistry and physics with grades not less than C, or either subject alone with a grade of A or B. High school physics and trigonometry are recommended.
Five units, autumn quarter.
Three units, winter and spring quarters.
COURSES OF INSTRUCTION

2. Qualitative Analysis
To be taken in conjunction with Chemistry 1 in the winter and spring quarters. Two laboratory periods weekly, winter and spring quarters. Two units, winter and spring quarters.

3. General Chemistry
Primarily for those who do not expect to continue the subject. The descriptive side of chemistry and its application in every day life. Fulfills the requirement for majors in Physical Education or Home Economics. Three lectures and one laboratory period. Four units, each quarter.

4. Chemistry for Nurses
Inorganic, organic, and physiological chemistry. All phases of the course in chemistry prescribed for nurses in the Curriculum Guide for Schools of Nursing are included. Three lectures and two laboratory periods weekly. First 18 weeks. Five units, autumn quarter and two and one-half units, winter quarter.

*10. Quantitative Analysis
The principles and methods of quantitative analysis and their application to simple methods of commercial analysis. Two lectures, autumn and winter quarters. Prerequisite: Chemistry 1 and 2. Two units, autumn and winter quarters.

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

*12. Advanced Quantitative Analysis
Special methods of quantitative analysis designed to give the student an opportunity to take up advanced work. One lecture and two laboratory periods weekly, spring quarter. Prerequisite: Chemistry 10 and 11. Three units, spring quarter.

*13. Organic Chemistry
The compounds of carbon. Two lecture periods weekly, each quarter. Prerequisite: Chemistry 1 and 2. Two units, each quarter.

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. One or two units, each quarter.

COMMERCE

Lower Division Requirements. See pages 47-50.

Business Record-Keeping
Design to meet the needs of the small business owner, or prospective owner, possessing no working knowledge of double entry bookkeeping and who must learn how keep an efficient set of records in as short a period of time as possible.

One unit, Spring quarter

Accounting
The fundamental principles of accounting. The use of columnar books, business papers, voucher systems, departmental and comparative financial statements, and cash and bank records. Two laboratory periods weekly.

Three units, each quarter.

Applied Bookkeeping
A complete secretarial course, requiring no previous knowledge of modern, looseleaf records; business papers included.

One and one-half units, Autumn and Winter quarter.

Business Administration
An analysis of the various forms of business organization with special attention to the corporation. Studies of management, wages, purchasing, selling, traffic, credit, banking, and accounting. Lectures by representative business men. First 18 weeks.

Three units, autumn quarter; one and one-half units, winter quarter.

Accounting Laboratory
Designed for transfer students who wish to apply accounting principles.

One unit, each quarter

Marketing
Distribution, marketing functions, wastes and inefficiencies; types of distributors; cooperative marketing groups in California. Second 18 weeks.

One and one-half units, Winter quarter; three units, spring quarter.

Commercial Law
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
64 COURSES OF INSTRUCTION

real estate law, including mortgages, trust deeds, and leases.
Three units, each quarter.

Retail Merchandising
Details of organization profits and expenses; stock control; policies in retail advertising, merchandising, and selling. First 18 weeks.
Two units, autumn quarter; one unit, winter quarter.

Advertising
Fundamental principles of advertising, problems of space, type, engraving, copy, media, practice in writing copy. Second 18 weeks.
One unit, winter quarter; two units spring quarter.

Banking
The functions of money; the money system of the United States; value of money and prices; credit; functions of the bank; banking development in the United States; domestic and foreign exchange; bank supervision; the Federal Reserve system. Not offered in 1944-1945.
Two units, each quarter.

Cosmetology
(See Vocational Courses)

ECONOMICS

Preparation for the Major. Required: Economics 1,40; and at U. C. L.A., Accounting. Recommended: History 4 or Political Science.

1. Principles of Economics
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
Mackenzie
A more elementary course than Economics 1, with greater relative emphasis upon economic institutions and current economic problems. Required in the Pre-Nursing curriculum. First 18 weeks.
Three units, autumn quarter, and one and one-half units, winter quarter.

ENGINEERING

Preparation for the Major. See announcement of the College of Engineering, University of California, Berkeley. Recommended: physics, mathematics, chemistry, surveying, descriptive geometry, and machine drawing. Many positions in the field of engineering do not require more than two years of preparation beyond the high school. Students looking forward to this type of work should take in the Junior College all the courses listed under Engineering together with Physics 1, Physics 10, and mathematics.

A. Engineering Practice
A course designed to familiarize students with the routines and techniques of scientific and engineering practice from the simple operations of everyday life to the methods of modern industrial organizations. Lectures, demonstrations, projects, laboratory work, inspection trips. Recipes, formulas, tables, maps, charts, graphs, bulletins, reports.
Three units, each quarter.

1. Plane Surveying
Twogood
Principles; field practice; calculations and mapping. Two one-hour class discussions and one three-hour period of field or mapping weekly. Prerequisites: plane trigonometry. One extra unit of intensive field work may be taken at the student's option, credit for which will be allowed toward graduation but not for transfer.
Three units, each quarter.

2abc. Engineering
Fundamentals of mechanical drawing and use of instruments.
Two units, each quarter.

3abc. Engineering
Sheppard
Fundamentals of Aircraft mechanical drawing to meet C.A.A. test requirements. For those in flight training only.
Two units, each quarter.

11a. Engineering
Twogood

11a. Descriptive Geometry
Mackenzie
Representation and solution of space problems through the use of two or more projection views.
First 18 weeks.
Three units, autumn quarter; one and one-half units, winter quarter.
11b. Mechanism and Machine Drawing
Studies of mechanisms, design of cams and gears.
Second 18 weeks.
One and one-half units, winter quarter; Three units, spring quarter.

12abc. Engineering
Delineation of machine parts with special emphasis upon the production of detailed drawings, freehand drawings, and standard parts.
Two or three units, each quarter.

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 10.

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

1. Composition
The chief forms of composition, oral and written, with outside reading and written reports. Theme writing and individual conferences.
Three units, each quarter.

2. Practical News Reporting
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 Arroyo.
Two units, each quarter.

9. Dramatic Art
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. Prerequisite: English 1, or may be taken in conjunction with English 1.
Two units, each quarter.

10. English Literature
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.

*11. Advanced Composition
Studies in descriptive and narrative writing, with special reference to the technique of the short story, autumn and winter quarters. Expository writing, with relation both to the literary essays and to the preparation of extended papers and reports, 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
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
Open to a limited number of staff members who plan to continue affiliation with the College publications. Occasional meetings and conferences. Prerequisite: English 3.
One unit, each quarter.

*14. American Literature
A study of the achievements in American letters from Colonial times to the present, outstanding literary personalities, memorable works, and reflections of American thought in literature. Lectures, discussions, collateral readings, and oral reports.
Two units, each quarter.

*19. Advanced Dramatic Art
A continuation of English 9. Prerequisite: English 1.
Two units, each quarter.

FRENCH

Preparation for the Major. French 1, 2, 3, 10. 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
Accurate pronunciation and the essentials of grammar. Three easy French texts are read, which form the basis of careful translation, conversation, and composition work.
Four units, each quarter.
2. Intermediate French
Further study of grammar, especially syntax; reading and discussion in French of the works of outstanding French novelists, poets, and dramatists. An effort is made to correlate the study of French with the general history of European civilization. Students are advised to take French 3 also. Prerequisite: French 1 or its equivalent.
Two units, each quarter.

3. Second-Year French: Composition and Conversation
Oral drill in the use of French; study of the more difficult points of grammar; class discussion of translations from English into French; writing of original themes in French. Prerequisite: French 1 or its equivalent.
Two units, each quarter.

10. Advanced French
French novels and dramas of the seventeenth, eighteenth, and nineteenth centuries. Outside reading and written reports in French. Prerequisite: French 2 or its equivalent.
Two or three units, each quarter.

11. Advanced French Composition and Conversation
Students who intend to major in French or to continue with more advanced study should take this course concurrently with French 10.
Two units, each quarter.

GEOGRAPHY
3. Economic Geography
A world survey of the interrelationship of man in his economic activities and the factor of his natural environment. Two lectures and one additional period weekly.
Three units, each quarter.

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

1. General Geology
Physical and historical geology. Three lectures and one laboratory period or one field trip weekly. Two or three Saturdays in the spring quarter are required for all day excursions. Class limit: 30. Second-year students given priority.
Four units, each quarter.

12. Advanced Geology
Further work in field geology, paleontology, petrography, or mineralogy. Prerequisite: Geology 1, Mineralogy 1, or enrollment in either.
One to four units, each quarter.

MINERALOGY
1. Introductory Mineralogy
Elementary crystallography, blowpipe analysis, and determinative mineralogy. Three lectures and one laboratory period weekly. Three or more afternoon collecting trips in the spring quarter. Class limit: 24.
Four units, each quarter.

GERMAN
Preparation for the Major. Required: German 1, 2, 3, 10. At U. C. L. A. History 4, English 1, and Philosophy 10 are recommended.

1. Elementary German
Four units, each quarter.

2. Intermediate German: Reading
Emphasis continued on comprehension instead of translation. Continued vocabulary drill. Reading of approximately 650 pages in class, and of 1,000 pages of simple prose collaterally. May be taken with German 3. Prerequisite: German 1 or equivalent.
Three units, each quarter.

3. Intermediate German: Grammar and Composition
Review of first-year grammar, with some free composition and conversation. Composition and conversation based upon dictated material. May be taken with German 2. Prerequisite: German 1 or equivalent.
Two units, each quarter.

4. Scientific German
Scientific word building and analysis (autumn and winter quarters); the reading of a book or journal in the field of the student's special interest (spring quarter). Prerequisite: German 1 or its equivalent.
Two units, each quarter.
### GREEK

**Preparation for the Major.** Required: Greek 1. Recommended: Latin AB, CD, 2, 3, and at U. C. L. A., modern languages.

1. **Elementary Greek**
   An introduction to essential forms and syntax through Xenophon’s *Anabasis*, varied with occasional reading in the New Testament during the third quarter.
   Five units, each quarter.

2. **Greek Culture**
   A lecture-recitation course dealing with Greek ideals and achievements. The aim of the course is to interpret modern civilization in the light of its Greek inheritance, and to stress those things that are of permanent worth for the life of the twentieth century. Assigned readings and reports. No knowledge of Greek required.
   a. Geographical background; historical survey; government; religion; education (autumn quarter).
   b. Architecture; sculpture; painting; music (winter quarter).
   c. Literature; philosophy; science (spring quarter).
   Three units, each quarter.

3. **Plato and Homer**
   Plato: the *Apology* and selections from other dialogues. Homer: *Iliad* or *Odyssey* (selected books). Prerequisite: Greek 1.
   Three units, each quarter.

4. **Advanced Composition**
   Systematic review of Greek syntax. Prerequisite: Greek 1.
   One unit, each quarter.

### HISTORY

**Preparation for the Major.** Required: History 4 and Economics 1. Recommended: History 8. At U. C. L. A. History 8 is required.

2. **Greek Culture** (See Greek 2, page 68)

4. **History of Modern Europe**
   A brief introduction to the narrative and institutional history of medieval Europe. A more thorough study of the political, social, and economic development of modern Europe, with particular reference to the rise of the nationalities and the establishment of colonies.
   a. The period from 500 to 1660 (autumn quarter).
   b. The period from 1660 to 1870 (winter quarter).
   c. The period from 1870 to the present day (spring quarter).
   Three units, each quarter.

### HOUSEHOLD ART

2. **Clothing Construction and Selection**
   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.

4. **Household Management**
   Two units, each quarter.

### HOUSEHOLD SCIENCE

2. **Food Study and Preparation**
   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. One lecture and two laboratory periods, weekly.
   Three units, each quarter.

3. **Elements of Nutrition**
   Fundamental principles of human nutrition as applied to normal and special conditions of growth and physical development.
   Two units, each quarter.

4. **Elements of Nutrition for Nurses**
   Same as course 3, but with one laboratory period additional. Required in the Pre-Nursing curriculum. Second 18 weeks.
   One and one-half units, winter quarter and three units, spring quarter.
HYGIENE

1. General Hygiene
   Gilchrist
   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. The course is completed in 18 weeks and may be taken either half of the year.
   Two units, autumn quarter and one unit, winter quarter; or one unit, winter quarter and two units, spring quarter.

2. Epidemiology
   DuBeau
   A study of the principal preventable diseases, based on the history, prevalence, etiology, source, and modes of infection; and methods of control and prevention. The year course fulfills the requirement in hygiene for the degree of Associate in Arts. Section limit: 50.
   a. The history and principles of preventive medicine. Infection and resistance. Diseases spread by intestinal discharges (autumn quarter).
   b. Saliva borne diseases. Diseases due to dietary deficiencies. Insect borne diseases (winter quarter).
   c. Disease spread from animal to man. Disease spread through skin and direct contact. Means by which transmissible diseases are controlled (spring quarter).
   Two units, each quarter.

ITALIAN

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

1. Elementary Italian
   Richards
   Three units, each quarter.

2. Intermediate Italian
   Richards
   Further study of grammar; composition and conversation; reading of modern prose, drama, and verse, with oral and written exercises based thereon. Prerequisite: Italian 1 or equivalent.
   Three units, each quarter.

LATIN

Preparation for the Major. Required: four years of high school Latin or Latin AB and CD; Latin 2, 3. Recommended: Greek 1; and, at U. C. L. A., modern languages.

MATHEMATICS

Preparation for the Major. Two years of high school algebra, plane and solid geometry, and trigonometry; Mathematics 2D, 11A-11B, 13A-13B. Recommended: physics and a reading knowledge of French and German.

Note: The student who is preparing for engineering should take Mathematics 6abc and 4abc rather than Mathematics 11A-11B and 13A-13B.
MILITARY SCIENCE AND TACTICS—R. O. T. C.

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

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

Graduates of junior colleges who have satisfactorily completed 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

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. 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.

One unit, each quarter.

Preparation for the Major. Required: Music 1, 3, 4, 10. Recommended: related courses in art, English, history, philosophy; foreign languages, particularly French, German, or Italian. Specialization presupposes some ability in piano playing.

Note: During autumn registration days all students enrolling in harmony courses must arrange with the instructor for advanced standing examinations. All students enrolling in piano courses must arrange with the instructor for auditions.
COURSES OF INSTRUCTION

THEORY

1. Musicanship
The fundamentals of music: the melodic, harmonic, and rhythmic elements through aural approach. Major and minor chords, keys and scales, intervals from the harmonic basis, and cadences, through singing, writing, playing, and dictation. Time durations, notations, time signatures, rhythmic reading and dictation. Elementary four-part harmony, melodic dictation, and sight-singing.

Three units, each quarter.

3. History and Appreciation
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 the great composers and analysis of their works, illustrated by recordings. Modern radio, and its relation to the artist. Lectures, assigned readings, term papers.

Three units, each quarter.

4. Harmony I

Three units, each quarter.

10. Harmony II
Secondary seventh chords and their alterations, chromatic harmony. Analysis, harmonic and melodic dictation, enharmonic modulations, keyboard application. Original compositions in the smaller forms. Pre-requisite: Music 4, or its equivalent.

Three units, each quarter.

APPLIED MUSIC

Choral Training
Practical experience in the study and performance of acceptable choral music is offered in the following courses:

Men's Glee Club. Members are selected by examination. Two hours weekly.

Two units, each quarter.

Women's Glee Club. Members are selected by examination. Two hours weekly.

Two units, each quarter.

NURSING

Pre-Nursing Curriculum
The college offers the following one-year curriculum prescribed for admission to state accredited schools of nursing:

<table>
<thead>
<tr>
<th>Winter Q.</th>
<th>Spring Q.</th>
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</thead>
<tbody>
<tr>
<td>Units</td>
<td>Units</td>
</tr>
<tr>
<td>Chemistry</td>
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<tr>
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<tr>
<td>Phys. Educ.</td>
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<tr>
<td>Physiology</td>
<td>3</td>
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<tr>
<td>Economics</td>
<td>2</td>
</tr>
<tr>
<td>Hygiene</td>
<td>1</td>
</tr>
<tr>
<td>History of Nursing</td>
<td>2</td>
</tr>
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<td>Nursing</td>
<td>2</td>
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<tr>
<td>Bacteriology</td>
<td>2½</td>
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<tr>
<td>Household Sci.</td>
<td>4</td>
</tr>
<tr>
<td>Psychology</td>
<td>6</td>
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<tr>
<td>History of Nursing</td>
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<tr>
<td>19½</td>
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</tbody>
</table>

PHILOSOPHY

Preparation for the Major. Philosophy 1, 10.

*1. Logic, Theoretical and Practical

Logical doctrine is concentrated on argument and proof. The nature
of argument, fallacy, definition, syllogism, dilemma and propositional relations occupy the first eighteen weeks; the nature of proof, hypothesis, causal relations, generalization, theorem and probability, the second eighteen weeks.

Three units, each quarter.

*10. History of Philosophy

The historical development of philosophy, emphasizing the main problems and outstanding thinkers characteristic of each age. Recommended prerequisites: Philosophy 1; History 4 and 8.

a. Classical philosophy, especially Socratic ethics and Platonic aesthetics.

b. Medieval, Renaissance, and modern philosophy, with emphasis upon theory of knowledge and metaphysics.

c. Contemporary and American philosophy, especially naturalism, idealism, 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.

Preparation for the Major, University of California, Berkeley. Required: Chemistry 1-2, first 18 weeks; Biology 1B; Physiology 1; Psychology 1, first 18 weeks; Hygiene 3; Physical Education (3 quarter units); and training in the various athletic activities. Recommended: English 12; Psychology 1, second 18 weeks; Hygiene 1; Bacteriology 1.

Preparation for the Major, University of California, Los Angeles. Required: Chemistry 3; Physiology 3; 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. For the duration of the national emergency more emphasis is being placed on a physical fitness program streamlining combat sports to develop ruggedness, alertness, cooperation, and discipline coupled with a sense of personal responsibility. Group activities include touch football, speedball, playground ball, basketball, volleyball and baseball. Individual activities include wrestling, boxing, golf, swimming, badminton, and tennis. In tennis, match play is a regular feature of the training.

COURSES OF INSTRUCTION

Physical Education (section limit, 35). (Gymnasium and Field). Tennis: Open to first-year students and to those second-year students who have not had tennis before. 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

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, hockey, swimming and golf. Two hours weekly.

One-half unit, each quarter.

Athletics

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.

First Aid and Water Safety

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. The student who completes the course satisfactorily will be given the regular first aid certificate.

Two units, autumn quarter and one unit winter quarter; or one unit, winter quarter and two units, spring quarter.

Community Recreation

Required of all students majoring in physical education. Consists of a survey of the literature on play and recreation and an
examination of present day development in all fields of recreation.

Two units, autumn quarter and one unit, winter quarter.

Social Recreational Leadership

Required of all students majoring in physical education. Deals with materials that have been developed in training for leisure, planning for home and club entertainment; picnics, outings, parties, and shows.

One unit, winter quarter and two units, spring quarter.

PHYSICS

Preparation for the Major. Required: Physics 1, 10; Chemistry 1-2; Mathematics 2D, 3A, 3B, 4A, 4B, 4C. Recommended: a reading knowledge of French and German.

1. General Physics

Mechanics, properties of matter, and heat. Primarily for students who expect to major in physics, and for students in engineering, chemistry, and architecture. Mathematics 3abc must be taken concurrently with Physics 1. Three one-hour conferences and one laboratory period weekly. Prerequisite: high school physics, or Physics 2.

Four units, each quarter.

2. General Physics

Properties of matter, mechanics, heat, light, sound, electricity, and magnetism. A less technical course than Physics 1. Required for pre-medical students. Three one-hour conferences and one laboratory periods weekly. Prerequisite: elementary algebra and plane geometry.

Four units, each quarter.

3. Photography

Lectures on making exposures, pictorial composition, lighting, slide making, apparatus, and materials; criticism of student's photography. Prerequisite: high school chemistry or physics with grade A or B.

Two units, each quarter.

*10. General Physics

Magnetism, electricity, wave motion, sound, and 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 1-2, 13. Recommended: Zoology 1; Chemistry 10, 11; a knowledge of calculus; and a reading knowledge of French and German.

Physiology 1 or 3 is accepted in satisfaction of the requirement in hygiene for the degree of Associate in Arts.

1. Introductory Physiology

The structure and function of the human body. Two lectures and one laboratory period weekly.

Three units, each quarter.

3. Physiology and Anatomy

Same as Physiology 1, but with an additional laboratory period each week devoted to anatomy. Equivalent in content and hours to "Introductory Physiology" and "General Human Anatomy" as given at the University. Designed for majors in nursing or in physical education.

Four units, each quarter.

POLITICAL SCIENCE

1. Comparative Government

a. A consideration of the fundamental attributes of government, its origin, its form, and the functions of electorate and parties. The government and parties of Great Britain and the other important members of the British Commonwealth of Nations (autumn quarter).

b. The government and parties of Germany, France, Switzerland, and Japan (winter quarter).

c. The government and parties of Italy, Russia, and the United States (spring quarter).

The course fulfills the "Requirement of American Institutions" for the A. B. or B. S. degree at U. C. Berkeley, or at U. C. L. A.

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

The scientific study of mental processes and human behavior. Required for upper division courses in psychology and education.
COURSES OF INSTRUCTION

Recommended prerequisite: Biology 1A-1B, or Zoology 1, or Physiology 1 or 3, or Psychology 6.
Three units, each quarter.

4. The Measurement of Human Behavior
GILCHRIST
Mental tests and measurements as employed in psychology and industry. Includes general aptitudes, special abilities, interest, temperament, and achievement; also an introduction to statistical procedure.
Two units, each quarter.

6. Psychology for Nurses
A scientific study of mental processes and human behavior; the nervous system, heredity, environment, emotional and instinctive behavior, learning, intelligence, and personality. The course is completed in 18 weeks, and is required for admission to state accredited schools of nursing.
One and one-half units, winter quarter; three units, spring quarter.

SECRETARIAL SCIENCE
The secretarial curriculum provides a thorough training in shorthand, typing, and office practice. Credit received for Secretarial Science courses will be accepted in partial satisfaction of the requirements for the Associate in Arts degree, but the evaluation of units in transfer will be left to the institution to which transfer is made. All courses in the secretarial curriculum are vocational, and the standards imposed by business custom and practice are maintained. The directed training program must be completed satisfactorily to qualify for recommendation to business positions.

1. Beginning Shorthand
HISLOP
A basic course. A speed of 80 words a minute in five minute dictation is developed.
Five units, each quarter.

2abc. Shorthand
HISLOP

a. Intermediate Shorthand. A review of fundamental theory with advanced vocabulary development. A skill of 100 words a minute is developed.
Five units. Autumn quarter.

b. Advanced Shorthand. A further development of skill in dictation. Rapid and accurate transcription. A skill of 120 words a minute is developed. Prerequisite: Intermediate Shorthand or equivalent.
Five units, winter quarter.

c. Secretarial Dictation. Dictation and transcription in the more common business fields. A skill of 140 words a minute is developed. Prerequisite: Advanced Shorthand or Equivalent.
Five units, spring quarter.

3abc. Beginning Typing
HISLOP

a. Intermediate Typewriting. Fundamental for practical use in business with emphasis on accuracy and speed. Prerequisite: Beginning Typing, or its equivalent.
Three units, each quarter.

b. Advanced Typewriting. Emphasis placed on speed and accuracy in doing professional work. Prerequisite: Intermediate Typing or its equivalent.
Three units, winter quarter.

c. Transcription. Arrangement, grammar, spelling, punctuation, and accurate transcription of new material. To be taken concurrently with Intermediate Shorthand. Prerequisite: one year of high school shorthand and typing or equivalent.
One unit, autumn quarter.

5. Indexing and Filing
HISLOP
A lecture and laboratory course devoted to the theory and practice of the various filing systems.
Two units, winter quarter.

6. Secretarial Administration
HISLOP
The study of secretarial practice, office methods and procedure; technique of obtaining employment and securing advancement. Lectures and discussions covering essential characteristics of a good employee.
Three units, spring quarter.

7. Business Records
One unit, autumn quarter.

8. Office Machines
A laboratory course to acquaint secretarial students with appliances used in a modern office. The course is completed in 18 weeks, and may be taken either half of the year.
Three units, autumn quarter and one and one-half units, winter quarter; one unit, and one and one-half units, spring quarter.
COURSES OF INSTRUCTION

9. Dictating Machines
Study and use of modern office dictating machines. Prerequisite: Ability to type 40 words a minute. Open to advanced secretarial students.
Two units, each quarter.

10. P. B. X. (Switchboard Operation)
A study of a cord pbx board and the necessary training to develop dexterity in operation. Open to advanced secretarial students.
Two units, each quarter.

16. Business Mathematics
A review of the fundamentals of arithmetic necessary for competent participation in business. Special consideration is given to simple and compound interest, discounts, partial payments, taxes, insurance problems, profit and loss.
Three units, autumn quarter and one and one-half units, winter quarter; or one and one-half units, winter quarter and three units, spring quarter.

SOCIETY

1abc. Social Institutions and Problems
Introductory study of forms, trends, purposes, and interdependence of social groups.
a. Survey of the problems of the principal social and economic institutions (autumn quarter).
b. Principles and problems of American government (winter quarter).
c. The agencies and problems of social welfare in a more local sense, including the institutions of home, school, and church (spring quarter).

The course fulfills the "Requirement of American Institutions" for the A. B. or B. S. degree at the University of California, Berkeley, or at U. C. L. A.
Three units, each quarter.

4. Personal and Social Adjustment
Designed to assist the student to acquire a better understanding of himself, his abilities, attitudes, and personality traits. The student's self analysis is augmented by the use of standardized tests and questionnaires which measure general and specific ability and vocational interests.
Three units, autumn quarter.

SPANISH

Preparation for the Major. Required: Spanish 1, 2, 3, 10 (each course with not less than a C average); a minimum of two years of high school Latin, or Latin AB. Recommended: Spanish 11; French, Italian, and additional Latin; History 8.

1abc. Elementary Spanish
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 with grade of at least B.
Four units, each quarter.

2abc. Intermediate Spanish: Reading and Conversation
Reading of Spanish novels, plays, short stories, periodicals, with oral and written exercises based upon the class work. Collateral reading, with reports in Spanish. Course conducted largely in Spanish. Prerequisite: Spanish 1abc, or two or three years of high school Spanish.
Two units, each quarter.

3abc. Intermediate Spanish: Grammar and Composition
Further study of Spanish grammar and syntax. Conversation, memorizing, and dictation relative to Spanish speaking countries, with abundant practice in oral themes and in written composition. It is advised that courses 2 and 3 be taken concurrently by the student who is planning to continue the study of Spanish in the university. Course conducted largely in Spanish. Prerequisite: Spanish 1abc, or three years of high school Spanish with grade of at least C.
Two units, each quarter.
COURSES OF INSTRUCTION

4. Beginning Conversational Spanish
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. Extensive collateral reading in English.
Two units, each quarter.

10. Advanced Spanish
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. Prerequisite: Spanish 2abc, or four years of high school Spanish.
Three units, each quarter.

11. Advanced Spanish Composition and Conversation
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. Prerequisite: Spanish 2abc, four years of high school Spanish, or approval of instructor.
Two units, each quarter.

12abc. Advanced Spanish: Directed Reading
An extensive reading course. Oral and written reports submitted at weekly conferences. 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.

STUDENT ACTIVITIES

Aeronautics
Ground school and flight instruction. Prepares students to take written examination for private pilot's license, commercial pilot's license; instrument rating and ground instructor's license, with ratings in navigation, meteorology, aircraft engines, and civil air regulations. It will also prepare students to take the written examination for third class radio-telephone license, and aircraft and engine mechanic's license. Credit will be granted on the same basis as other college courses.

Auto Mechanics
A laboratory course in the fundamental principles of the operation and repair of the modern automobile. It is primarily intended to train the student with some mechanical aptitude for entry into some branch of the automotive trade. Special emphasis is placed on making the work practical and to conform with the best shop practices. Five hours of related work and fifteen hours of applied work weekly. One to five units; or ten units, each quarter.

Cosmetology
The course in cosmetology trains students for positions as licensed operators in beauty shops. The regular course extends over a period of 1600 hours of instruction as required by the State Board of Cosmetology and includes such branches of the trade as permanent waving, hair dressing, trimming, styling and shaping, 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. Those students who complete the course are eligible for the State Board examinations in Cosmetology. Students must be at least seventeen years of age and should have completed high school or have the high school principal's permission to attend Riverside College, or be over nineteen years of age. Good health is also a requisite. The Cosmetology Department offers brush up courses for out-of-state operators or for those who wish to improve their techniques. These courses range from two to eight weeks.

Electricity
A general course in electricity dealing with the theory of direct current and magnetic circuits, stressing the practical application and operation of D.C. circuits. One to four units each quarter.
STUDENT ACTIVITIES

Machine Shop
First year—Elementary machine operation. Floor and bench work. Related subjects covering mathematics, science, and drawing connected with the machinist's trade.
Second year—Advanced shop practice. A continuation of elementary machine work, including the more intricate machine and floor operations. Five hours of related work and fifteen hours of applied work weekly.
One to five units; or ten units, each quarter.

Mill Cabinet
An advanced course in furniture making and wood turning. Includes training in the use of woodworking machinery and a study of different kinds of wood. Five hours of related work and fifteen hours of applied work weekly.
One to five units, or ten units, each quarter.

Printing
General theory and practice of commercial printing, covering fundamental principles of hand composition, linotype operation and maintenance; make-up; platen and cylinder press work; pamphlet binding; layout and design; use of English; copy editing, fitting, and proofreading; history of printing, its place in the arts and crafts, and its influence on civilization.
One to five units; or ten units, each quarter.

Radio
The fundamental principle of radio theory, operation, and repair.
One to four units, each quarter.

Welding
Instruction in arc and acetylene welding and its principal applications. A study of welding equipment and various types of electrodes, flat, vertical, and horizontal welds, testing and inspection, flame cutting of metals, and safety precautions.
One to four units, each quarter.

Note: Other vocational courses may be offered if the demand warrants it and if the facilities be available.

ZOOLOGY

Preparation for the Major, U. C. (Berkeley). Required: Zoology 1, and high school chemistry or Chemistry 1, 2 (first 18 weeks). Recommended: Chemistry 1, 2 (second 18 weeks), 13, 14; French or German: elementary courses in other biological subjects.

1. General Zoology
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.

*10. Comparative Anatomy of Vertebrates
Jaeger
An introduction to vertebrate morphology, development, and classification. The osteology, myology, and nervous system of the shark and the cat are studied in detail. Designed particularly for those who plan to major in zoology and for pre-medical and pre-dental students. One lecture and two laboratory periods weekly. Prerequisite: Zoology 1. First 18 weeks.
Three units, autumn quarter; 1½ units, winter quarter.

*12. Entomology
Jaeger
Anatomy, physiology, and life history studies of insects, with special reference to insects of economic importance. Lectures, conferences, laboratory, and field work. Prerequisite: Biology 1A-1B or Zoology 1, or equivalent. Second 18 weeks.
One and one-half units, winter quarter; three units spring quarter.
ASSOCIATED STUDENT BODY

The Associated Student Body is the official organization of the students of Riverside Junior College. The management of its affairs is vested in an executive board consisting of the following officers, who are elected annually: President; Vice-President; Secretary; Treasurer; Men's Athletic Manager; Women's Social Chairman; Men's Social Chairman; President Associated Women Students; President Women's Athletic Association; Editor Arroyo; Editor Tequesquite; Editor Varieties; Rally Committee Chairman; Forensics Manager. Official acts of the executive board are subject to review by the Director.

ASSOCIATED STUDENT BODY OFFICERS: 1945-46

President—HENRY ALLEN STEPANENK
Vice President—JOHN ANTHONY PIAZZA
Secretary-Treasurer—MARIAN ELIZABETH SHARP
Men's Athletic Manager—CHARLES BUTLER
Social Chairman—MARY MARGARET HURLEY
Assembly Chairman—ROBERT SPENCER FLEMING (September, 1945-February, 1946)
Assembly Chairman ROBERT LEROY DRAKE (February-June, 1946)
Editor Arroyo—MARIE C. HUTSLER (September, 1945-February, 1946)
Editor Arroyo ROSEMARY ANN STURGES (March-June, 1946)
Editor Tequesquite—JOHN WILLIAM VENNIE
Rally Committee Chairman—JOYCE ELaina DYER
Forensics Manager—None
Student Adviser—JOHN S. HISLOP

ASSOCIATED WOMEN STUDENTS

President—MARGARET VIRGINIA SHARP
Vice-President—NANCY ANN CRANE
Secretary-Treasurer—Ouida Grace JOHNSON
Social Chairman—MARGARET JOAN SHEPHERD
Veleda Representative—BARBARA ANN TISSOT
STUDENT ACTIVITIES

OTHER ORGANIZATIONS

- Engineers' Club
- International Relations Club
- Junior Lions
- Kappa Upsilon (Y. M. C. A. Fraternity)
- Lettermen's Club
- Music Club
- Out of State Club
- Veleda Club (Y. W. C. A. Sorority)
- Women's Athletic Association

PUBLICATIONS

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

The Arroyo, which is published weekly, contains current news of campus and college activities. Its editors and manager are appointed by the outgoing editorial board of the Arroyo. It is printed by the College Press.

DEBATING

Riverside College is a member of the Southern California Junior College Debating Conference, which consists of two divisions with the member colleges grouped as follows:

Western division: Compton, Glendale, Long Beach, Los Angeles, Pasadena, Santa Monica, Ventura

Eastern division: Chaffey, Citrus, Fullerton, Pomona, Riverside, San Bernardino, Santa Ana.

In the eastern division, three debate tournaments are held each year. On each occasion the ballots of the judges are sealed without being announced, and opened only at the close of the third tournament to decide the conference champion.

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 string ensemble; 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 play-off 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 eleven and one-half units of work. In addition, all except first-year students enrolled in their first quarter must have passed in at least eleven 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 1945

Bobette Ellen Brand
Marcella Lee Colbert
Leona Mae Comstock
Mauvis Norida de Jonckheere
Alan Fields de Vore
Cecilia Grace Enos
Evelyn Margaret Ericson
Frances Elizabeth Fletcher
Bernard Gilbert Hobbs
Douglas Donald Jordan
Lois Irene Lane
Donald Garnett McDonald
Frederick Warren McDowell, Jr.
Ernestine Thompson Messier
Margaret Sybil Morison
Cordia Norma Simmons
Cynthia Corinne Stark
Edward Swick
Frances Elizabeth Tracht
Frank Joseph Vogel, Jr.
### STUDENT REGISTER

Names are listed alphabetically without regard to class. Status is indicated as follows:

1. first year student
2. second year student
3. third year student
4. (Sp.) special student
5. (Co.) cooperative student
6. (Gr.) graduate student

A superior figure after Sp. or C indicates first year, second year, etc.

Home residence denotes the high school from which the student transferred unless otherwise stated.

College address is in Riverside unless otherwise stated.

#### SPRING QUARTER 1945

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<thead>
<tr>
<th>Name</th>
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<td>Barker, Ralph K.</td>
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<td>Brown, William Ronald II</td>
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<td>Johnstone, Ward Marshall</td>
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<td>Knighton, Wendell H.</td>
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<td>Beinke, Richard H. (Grad.)</td>
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<td>Scott, Charles, G. (1)</td>
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#### AUTUMN AND WINTER QUARTERS, 1945-1946

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<td>Anderson, Donal Clarence</td>
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Jackson, Glenn Francis (1)
Jameson, Donald Richard (1)
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Kerr, John S. (8)
Kaminaka, Shizuko (1)
Kallsen, Richard Edward (4)
Kabel, Robert Joseph (2)
Kilburn, James Russell (1)
Kelley, Winifred Ilene (2)
Kerr, John S. (3)
Kilburn, James Russell (1)

STUDENT REGISTER
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SYRACUSE, 6559 Magnolia Ave.
New York
Crystal City, Texas E.F.D. 1, Box 22
Riverside 8657 Larchwood Pl.
Corvallis 8657 Larchwood Pl.
Oregon State Coll., 8657 Larchwood Pl.
Riverside R.F.D. 1, Box 628
Syracuse, 8432 15th St., Riverside

Irwin, M. Lorraine (2)
Jensen, Jay Evans (Sp. 1)
Johnson, Ouida Grace (1)
Johns, Roy Orbin (1)
Jackson, Glenn Francis (1)
Jameson, Donald Richard (1)
Jackson, Grace Orena (1)
Irving, Lilla Kathleen (1)
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Kilburn, James Russell (1)

STUDENT REGISTER
103

Kimbell, Dale Harry (1)
Kirkpatrick, Sheldon DeWitt (1)
Klant, Kathleen Jean (1)
Klinehar, Victor Neal (2)
Knick, Kenneth (1)
Knox, Frances Elizabeth (1)
Kopke, Richard Charles (Grad.)
Kozenyi, Jane Ann (1)
Korov, Betty May (5)
Kremer, Robert Earl (Sp. 1)
Lacayo, Margaret Estrellita (1)
Ladd, Miles Fralin (1)
Lafferty, Merline Elisworth (Sp. 1)
Lamson, Rob Bg (1)
Lane, Martin Herbert (2)
Larimer, Barbara Lavon (1)
Leibert, John George (5)
Lawrence, Arabella Foreman (1)
Lewis, Alfred Jacob (Sp. 1)
Liddle, Patricia Ruth (1)
Linharts, Salvador Luis (Sp. 1)
Lindem, Bernard Hurry, Jr. (Sp. 1)
Livingston, Lloyd (1)
Long, Elizabeth Ann (1)
Loo, William R. (Sp. 1)
Lund, Carol Ellen (1)
Lopatka, Beverly Ann (1)
McCombs, Doyle (Sp. 1)
McCormick, Robert R. (1)
McCoy, Ann Louise (1)
MacDonald, John Andrew, Jr. (1)
March Field

McKee, Daniel A. (1)
McCombs, Harry Donald (1)
McGreer, Mary Emily (1)
McIntosh, John Douglas (3)
McCleod, Donald G. (3)
McMillan, Shirley Joan (1)
McNamara, Joeseph Evan (1)
Maginn, Virgil Carl (1)
Marsaita, Helen Antoinette (1)
Marsden, Barbara Joan (1)
Martin, Beverly Marome (1)
Martin, June Viola (1)
Martin, Minor Carl (1)
Martin, William Joe (Sp. 1)
May, Mathias Andred (Sp. 1)
Mayo, David (Sp. 1)
Maxwell, John Sam (Sp. 1)
Meden, Peggy (Sp. 1)
Melton, Mary Elizabeth (1)
Allen, Nebraska
Perris
Riverside
U. of California
Monrovia
Syracuse U.
Beaverton
Riverside
Granite City, Ill.
Riverside

1016 Magnolia Ave.
Riverside

375 Riverside Ave.

3715 Fairfax Ave.

Riverside

28 W. Fourth St., Perris

2289 Walnut St.

2283 Cridge St.

3106 Walnut St.

2480 Lemon St.

6095 Riverside Ave.

210 Nelle St., Corona

1767 California Ave.

4145 Alta Vista Dr.

2728 Heights St.

3451 Orange St.

5803 Van Buren St.

4063 Merrill Ave.

6333 Palm Ave.

6611 Marnian Way

6837 Weaver St.

6846 Palm Ave.

3620 Hoover St.

4176 Elwood Cty.

3176 Grider St.

4891 Cenesti St.

4481 Orange Grove Ave.

6245 Magnolia Ave.

108 Palm Ave.

3940 Pepper St.

4063 Riverside Ave.

3747 Arlington Ave.

4962 Ninth St.

4227 81st Drive St.
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<td>4134 Tenth St. Riverside</td>
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<td>Piazza, John Anthony (2)</td>
<td>4469 Main St. Aurora, Neb.</td>
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<td>Perez, Ralph Raymond (SP.)</td>
<td>404 F.D. 4, Box 502 Riverside</td>
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<td>Penton, Howard Alvin, Jr. (2)</td>
<td>818 Karen Ave. Salem, Ore.</td>
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<td>Northeastern U. Sqdn. 1, March Field</td>
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<td>Boston, Mass.</td>
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<td>Nielsen, Carl Marius (Sp. 1)</td>
<td>4511 Seventh St. Santa Monica J. C. March Field</td>
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<td>Nims, Milton R. (Grad.)</td>
<td>4244 Riverside Ave. Riverside</td>
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<td>Nordlund, Fern Ilene (1)</td>
<td>3927 Park Ave. Riverside</td>
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<td>Novich, Gladys Fine (3)</td>
<td>1502 Twining St. Groton, Conn.</td>
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<td>Nissel, Blanche Roxie (1)</td>
<td>751 Mt. Vernon St. Riverside</td>
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<td>Nelson, William Thomas, Jr. (2)</td>
<td>3150 First St. Riverside</td>
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<td>4149 Chestnut St. Riverside</td>
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<td>Nelson, Robert Marshall (3)</td>
<td>San Jose 3968 Larchwood Pl. U. of So. California</td>
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<td>Nelson, William Thomas, Jr. (2)</td>
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<td>Newell, Otis Oscar (2)</td>
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**STUDENT REGISTER**

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STUDENT REGISTER

SUMMARY, AUTUMN AND WINTER QUARTERS, 1945-1946

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<thead>
<tr>
<th>Men</th>
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<tr>
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SUMMARY OF STUDENTS BY RESIDENCE*

| California | 85 | Maryland | 3 |
| Riverside | 283 | New York | 10 |
| San Jacinto | 2 | New Mexico | 1 |
| Perris | 7 | New Mexico | 3 |
| Riverside | 2 | New York | 3 |
| Banning | 1 | North Dakota | 3 |
| Beaumont | 7 | Ohio | 12 |
| Blythe | 3 | Oklahoma | 4 |
| Coachella | 1 | Oregon | 4 |
| Corona | 36 | Pennsylvania | 4 |
| Elsinore | 1 | Tennessee | 2 |
| Homest | 3 | Texas | 9 |
| Perris | 7 | Utah | 1 |
| Riverside | 2 | Virginia | 2 |
| San Jacinto | 2 | Washington | 3 |
| Perris | 7 | West Virginia | 2 |
| Riverside | 2 | Wisconsin | 4 |
| Banning | 1 | Wyoming | 2 |
| Beaumont | 7 | Texas | 9 |
| Blythe | 3 | Utah | 1 |
| Coachella | 1 | Virginia | 2 |
| Corona | 36 | Washington | 3 |
| Elsinore | 1 | West Virginia | 2 |
| Homest | 3 | Wisconsin | 4 |
| Perris | 7 | Wyoming | 2 |
| Riverside | 2 | Texas | 9 |
| Banning | 1 | Utah | 1 |
| Beaumont | 7 | Virginia | 2 |
| Blythe | 3 | Washington | 3 |
| Coachella | 1 | West Virginia | 2 |
| Corona | 36 | Wisconsin | 4 |
| Elsinore | 1 | Wyoming | 2 |
| Homest | 3 | Texas | 9 |
| Perris | 7 | Utah | 1 |
| Riverside | 2 | Virginia | 2 |
| Banning | 1 | Washington | 3 |
| Beaumont | 7 | West Virginia | 2 |
| Blythe | 3 | Wisconsin | 4 |
| Coachella | 1 | Wyoming | 2 |
| Corona | 36 | Texas | 9 |
| Elsinore | 1 | Utah | 1 |
| Homest | 3 | Virginia | 2 |
| Perris | 7 | Washington | 3 |
| Riverside | 2 | West Virginia | 2 |
| Banning | 1 | Wisconsin | 4 |
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| Elsinore | 1 | Washington | 3 |
| Homest | 3 | West Virginia | 2 |
| Perris | 7 | Wisconsin | 4 |
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* Residence denotes location of institution from which transfer was made.
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