ANNOUNCEMENT
OF THE
UNIVERSITY OF CALIFORNIA
SOUTHERN BRANCH
FOR THE
ACADEMIC YEAR, 1925-26

SEPTEMBER, 1925

UNIVERSITY OF CALIFORNIA PRESS
BERKELEY, CALIFORNIA

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Los Angeles
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CIRCULARS OF INFORMATION

For copies of this Announcement address the Recorder, University of California, Southern Branch, Los Angeles. Price, 20 cents; postpaid, 25 cents (listed as No. 3, below).

For the Catalogue of Officers and Students, Section II, Southern Branch, published in October of each year, address the Recorder, University of California, Southern Branch, Los Angeles. Price, 15 cents; postpaid, 20 cents (No. 19, below).

For the Announcement of the University of California Summer Session in Los Angeles apply to the Summer Session Office, 815 Hillstreet Building, Los Angeles (No. 25, below).

The circulars of information concerning the colleges, schools, and departments of the University are as follows. Letters of inquiry should be addressed as indicated below. The circulars are sent free except those for which a price (which includes postage) is given.

1. The Circular of Information, Academic Departments (Colleges of Letters and Science, Agriculture, Commerce, and Engineering, and the first two years of Medicine), containing general information about the University, its organization, requirements for admission to undergraduate status, requirements for degrees, and expenses. Sent free by mail by the University Press on request. A charge of 5 cents is made for copies distributed on the University Campus.


4. The prospectus of the College of Agriculture. General information concerning the College of Agriculture at Berkeley, Davis, Riverside, and elsewhere; its organization, requirements for admission, degrees, etc.

5. The Announcement of Courses in Forestry.
6. The Annual Announcement of the Farmers’ Short Courses.
7. The Annual Report of the College of Agriculture and the Agricultural Experiment Station.
8. The Bulletins and Circulars of the Agricultural Experiment Station.
9. The Circular of the California School of Fine Arts, San Francisco.
10. The Annual Commencement Programme containing the list of degrees conferred, scholarships, prizes, and other honors.

(Continued on third page of cover)
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1925
Letters of inquiry concerning the Southern Branch should be addressed to the Recorder, University of California, Southern Branch, Los Angeles.

Letters of inquiry concerning the University in general should be addressed to the Recorder of the Faculties, University of California, Berkeley.

For the list of bulletins of information concerning the several colleges and departments see pages 2 and 3 of the cover.

In writing for information please mention the college, department, or study in which you are chiefly interested.

**HOW TO REACH THE SOUTHERN BRANCH**

The Southern Branch is reached by three yellow-car lines, one red-car line, and an auto bus line.

2. Santa Monica Boulevard Line (red car). Leave car at either Vermont avenue or Berendo street.
5. Vermont and Sunset Bus Line. Leave car at the University.
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CALENDAR, 1925–26

REFERRING PRIMARILY TO THE SOUTHERN BRANCH†

1925

Aug. 4, Tuesday 
Matriculation examinations at Berkeley only.

Aug. 8, Saturday 
Applications for admission in September, 1925, with complete credentials, should be filed with Recorder on or before this date. Late filing fee $2.00.*

Aug. 31, Monday 
Referring primarily to the Southern Branch.

Sept. 11, Friday 
Examination in Subject A, English Composition. Required of all undergraduate entrants regardless of advanced standing.

Sept. 12, Saturday 
Registration of new students.

Sept. 14, Monday 
Registration of old students, including re-enrollees.

Sept. 15, Tuesday 
Instruction in all classes begins at 8:00 a.m.

Nov. 26, Thursday 
Thanksgiving Recess.

Nov. 28, Saturday 
Last day for applications for the accrediting of secondary schools for 1925–26, to be filed with the Recorder of the Faculties at Berkeley.

Dec. 1, Tuesday 
Last day for applications for the accrediting of secondary schools for 1925–26, to be filed with the Recorder of the Faculties at Berkeley.

Dec. 21, Monday 
Christmas Recess.

1926

Jan. 2, Saturday 
Matriculation examinations at Berkeley only.

Jan. 4, Monday 
Mid-year examinations (subject to change).

Jan. 8, Friday 
Applications for admission in February to be filed.

Jan. 23, Saturday 
Registration of students in the Southern Branch for courses of the second half-year.

Jan. 30, Saturday 
Instruction begins at 8:00 a.m.

Feb. 6, Saturday 
Registration of students in the Southern Branch for courses of the

Feb. 9, Tuesday 
Instruction begins at 8:00 a.m.

Feb. 22, Monday 
Washington’s Birthday, a holiday.

Mar. 9, Tuesday 
Last day for applications for undergraduate scholarships for 1926–27.

Mar. 23, Tuesday 
Charter Day.

May 10, Monday 
Interterm at Berkeley.

June 19, Saturday 
Memorial Day, May 31, Monday, a holiday.

June 2, Wednesday 
Annual examinations (subject to change).

June 9, Wednesday 
The Seventh Southern Branch Commencement.

June 11, Friday 
Summer Session at Berkeley.

June 21, Monday 
Summer Session at Los Angeles.

July 31, Saturday 
Independence Day. July 5, Monday, a holiday.

Aug. 7, Saturday 
Matriculation examinations at Berkeley.

Aug. 3, Tuesday 
Applications for admission in September, 1926, with complete credentials, should be filed with Recorder on or before this date. Late filing fee $2.00.

Sept. 11, Saturday 
Registration of new students.

Sept. 13, Monday 
Registration of old students and re-enrollees.

Sept. 14, Tuesday 
Instruction in all classes begins at 8:00 a.m.

† For the calendar of the University at Berkeley address the Recorder of the Faculties, University of California, Berkeley, California. In 1925–26 the fall semester at Berkeley opens August 18; the spring semester January 12. Note that applications for admission should be filed before August 8 and January 2.

Students who expect to transfer to Berkeley should do so in August, since the difference in the two calendars makes transfer in January very difficult.

* Importance of early application: To give time for necessary correspondence, applications and credentials should be forwarded to the Recorder as soon as obtainable from the school authorities.
REGENTS OF THE UNIVERSITY

NOTE.—The regular meetings of the Regents are held at 2 p.m. on the second Tuesday of each month, except July, and on the day before the Berkeley Commencement, at such places as may from time to time be determined, ordinarily at the Governor's Office, State Building, San Francisco.

REGENTS EX OFFICIO

His Excellency FRIEND W. RICHARDSON
Governor of California and President of the Regents
Sacramento

CLEMENT CALHOUN YOUNG, B.L.
Lieutenant-Governor of California
2820 Regent st, Berkeley

FRANK F. MERRIAM
Speaker of the Assembly
Long Beach

WILL C. WOOD
State Superintendent of Public Instruction
Sacramento

ROBERT A. CONDER
President of the State Agricultural Society
Chino

BYRON MAUZY
President of the Mechanics' Institute
418 Phelan bldg, San Francisco

C. W. MERRILL, B.S., Met.E.
President of the Alumni Association
121 Second st, San Francisco

WILLIAM WALLACE CAMPBELL, Sc.D., LL.D.
President of the University
219 California Hall, Berkeley.

APPOINTED REGENTS

The term of the appointed Regents is sixteen years, and terms expire March 1 of the year indicated in parenthesis. The names are arranged in the order of original accession to the Board.

ARTHUR WILLIAM FOSTER (1932)
226 Southern Pacific bldg, San Francisco

GARRETT WILLIAM McENERNEY (1936)
2002 Hobart bldg, San Francisco

GUY CHAFFEE EARL, A.B. (1934)
403 Standard Oil bldg, San Francisco

WILLIAM HENRY CROCKER, Ph.B. (1940)
Crocker National Bank, San Francisco

JAMES KENNEDY MOFFITT, B.S. (1940)
41 First st, San Francisco

EDWARD AUGUSTUS DICKSON, B.L. (1928)
510 Lucerne blvd, Los Angeles

JAMES MILLS (1926)
Hamilton City

CHESTER HARVEY ROWELL, Ph.B. (1936)
1204 Tamalpais rd, Berkeley

MORTIMER FLEISCHHACKER (1934)
Anglo-California Trust Company, San Francisco

GEORGE I. COCHRAN, LL.D. (1930)
601 West Sixth st, Los Angeles

MRS. MARGARET RISHEL SARTORI (1938)
725 West Twenty-eighth st, Los Angeles

JOHN RANDOLPH HAYNES, Ph.D., M.D. (1938)
429 Consolidated Realty bldg, Los Angeles

ALDEN ANDERSON (1932)
Capital National Bank, Sacramento

JAY ORLIN HAYES, LL.B. (1928)
808 First National Bank bldg, San Jose

RALPH PALMER MERRITT, B.S., LL.D. (1938)
1103 Balfour bldg, San Francisco

C. W. MEERILL, B.S., Met.E.
c/o Sun-Main Raisin Growers, Fresno.
Announcement of Courses

OFFICERS OF THE REGENTS

His Excellency Friend William Richardson
President
Sacramento

Arthur William Foster, Chairman
226 Southern Pacific bldg, San Francisco

Robert Gordon Sproul, B.S.
Vice-President of the University, Comptroller, Secretary of the Regents, and Land Agent
220 California Hall, Berkeley

Calmar John Struble, A.B., J.D.
Assistant Comptroller and Assistant Secretary of the Regents, and Assistant Land Agent
220 California Hall, Berkeley

Mortimer Fleishhacker
Treasurer
Anglo-California Trust Company, San Francisco

Jno. U. Calkins, Jr., B.L., J.D.
Attorney
1005 Crocker bldg, San Francisco

Arthur William Foster, Chairman
226 Southern Pacific bldg, San Francisco

Robert Gordon Sproul, B.S.
Vice-President of the University, Comptroller, Secretary of the Regents, and Land Agent
220 California Hall, Berkeley

STANDING COMMITTEES OF THE BOARD OF REGENTS

FOR THE YEAR 1925-26*

Agriculture:
Regents Foster, Condee, Dickson, Mills, Cochran, Earl, and Hayes.

Educational Relations:
Regents Wood, Dickson, Rowell, Ramm, and Earl.

Endowments:
Regents Merritt, Mrs. Sartori Cochran, McEnerney, Fleishhacker, Haynes and Anderson.

Engineering:
Regents Ramm, Merrill, and Hayes.

Executive Committee:
This committee consists of the chairman of all standing committees and the President of the Alumni Association.

Finance:
Regents Earl, Foster, Moffitt, McEnerney, Fleishhacker, Crocker, and Merritt.

Grounds and Buildings:
Regents Fleishhacker, Young, Dickson, Ramm, Mauxy, Merritt, and Hayes.

Jurisprudence:
Regents McEnerney, Cochran, Mills, Young, and Moffitt.

Letters and Science:
Regents Rowell, Ramm, Wood, Merrill, and Mills.

Library, Research and Publications:
Regents Cochran, Moffitt, Merrill, Wood, Mauxy, and Rowell.

Lick Observatory:
Regents Haynes, Fleishhacker, Young, Crocker, Mauxy, and Anderson.

Medical School:
Regents Crocker, Earl, Moffitt, Ramm, Mrs. Sartori, and Haynes.

San Francisco War Memorial:
Regents Moffitt, Fleishhacker, and Anderson.

Southern Branch of the University of California and Scripps Institution for Biological Research:
Regents Dickson, Cochran, Merrill, Mrs. Sartori, Wood, Rowell, Merriam, and Haynes.

Wilmerding School:
Regents Mauxy, Moffitt, and Earl.

* The President of the Board of Regents and the President of the University are ex officio members of all committees of the Board. In each committee the name of the chairman is first and the name of the vice-chairman is second.
Announcement of the Southern Branch

ADMINISTRATIVE OFFICERS

IN BERKELEY

President Emeritus of the University:
Benjamin Ide Wheeler
126 Library

President of the University:
William Wallace Campbell
219 California Hall

Associate Dean of the University:
Baldwin M. Woods
219 California Hall

Vice-President and Dean of the University:
Walter M. Hart
219 California Hall

Assistant Comptroller, Assistant Secretary of the Regents, and Assistant Land Agent:
Calmur John Struble
220 California Hall

Vice-President of the University, Comptroller, Secretary of the Regents, and Land Agent:
Robert Gordon Sproul
220 California Hall

Recorder of the Faculties:
James Sutton
204 California Hall

IN LOS ANGELES

Director of the Southern Branch:
Ernest Carroll Moore
108 Millspaugh Hall

*Los Angeles Medical Department:
Dean: George H. Kress
245 Bradbury Building

Assistant Comptroller and Assistant to the Secretary of the Regents:
Robert M. Underhill
106 Millspaugh Hall

Extension Division--
Associate Director:
H. S. Noble
817 Hillstreet Building

Dean of the Summer Session in Los Angeles:
Harold L. Bruce
815 Hillstreet Building

*Graduate instruction only is offered in the Los Angeles Medical Department.
I. HISTORY

THE UNIVERSITY

The establishment of the University of California in 1868 came as the result of three separate movements—one originating in private initiative, one in State action, and one in Federal action.

Private action owed its inception to the foresight of the Rev. Henry Durant. In 1853, under the auspices of the Presbytery of San Francisco and of the Congregational Association of Oakland, Mr. Durant opened in Oakland the "Contra Costa Academy," but soon changed the name to that of "College School," in order to signify that the undertaking was only preparatory to a projected college. In 1855 such an institution was incorporated under the name of "College of California." In 1860 that college was formally opened, and classes were graduated from 1864 to 1869 inclusive. The instruction was given in buildings in Oakland, but in 1856 a tract of land five miles to the north was obtained, and the college buildings were begun. In 1866 the name of Berkeley was given to the townsite about the college campus.

State action had its start in the Constitutional Convention of 1849, which incorporated into the fundamental law recognition of and provision for a State university. There was constant public agitation down to 1868 for making the provisions effective.

Federal action began in 1853 when Congress gave the State 46,000 acres of land for a "seminary of learning." A further impulse was given in 1862 by the passage of the Morrill Act for the establishment of an Agricultural, Mining and Mechanical Arts College.

In 1867 these three forces began working together to one end—the establishment of a University of California. The private enterprise known as the College of California contributed its buildings and four blocks of land in Oakland and its 160 acres of land in Berkeley; the Federal Government, the Congressional gift of 150,000 acres of public lands, and the State, its property accumulated for the purpose, together with new legislative appropriations. The legislative act creating the University of California was signed by the Governor on March 23, 1868, and the new institution opened its doors for instruction in September, 1869.

The first appointee to the Presidency was Henry Durant (1869–72). He was followed by Daniel Coit Gilman (1872–75), John LeConte (1875–81), William T. Reid (1881–85), Edward S. Holden (1885–88), Horace Davis (1888–90), Martin Kellogg (1890–99), Benjamin Ide Wheeler...
Announcement of the Southern Branch

1899–1919), David Prescott Barrows (1919–23), William Wallace Campbell (1923–).

In 1896 a movement which had been undertaken for a permanent and comprehensive building plan on the Berkeley campus was taken over and financed by Mrs. Phoebe Apperson Hearst. The ultimate plan was selected after two international competitions. A large group of buildings has already been erected on the site, partly from private donations and partly from state appropriations and bond issues.

THE SOUTHERN BRANCH

In March, 1881, the Los Angeles State Normal School was established by legislative act. A five-acre site at the corner of Fifth street and Grand avenue was obtained, and the cornerstone of the first building was laid December 17 of that year. The school opened in August, 1882, with a faculty of three members and an enrollment of sixty-one students.

Under the presidency of Jesse F. Millspaugh (1904–17) the school developed. His connection with the school is commemorated in the name of the main building. He was succeeded in the presidency by Ernest Carroll Moore.

The original site and buildings having become inadequate, in 1907 the Legislature authorized the sale of the property and in 1911 made an appropriation for the purchase of a more suitable location. In the following year the present site, a campus of twenty-four acres (later increased to twenty-five), was purchased, and on November 18, 1913, the cornerstone of the principal building, Millspaugh Hall, was laid. In September, 1914, the school occupied the new group of buildings.

By an act of the Legislature which became effective July 24, 1919, the school became the Southern Branch of the University of California. The Regents of the University assumed control of the grounds, buildings and equipment, and Ernest Carroll Moore was appointed Director.

This act provided for continuance of the teacher-training courses then being given and for the institution of freshman and sophomore work of the University. On February 13, 1923, the Regents authorized the extension of instruction to include third-year students, and on December 3, 1923, a College of Letters and Science was created at the Southern Branch. Provision was made for instruction to fourth-year students beginning September, 1924.

The campus of the Southern Branch is bounded by Vermont avenue, Monroe street, Heliotrope drive, and Willowbrook avenue. The ten buildings which form the group are in a style of architecture reminiscent of the Lombardy style found in northern Italy. The Southern California Chapter of the American Institute of Architects awarded the group its first annual medal in August, 1921.
II. ORGANIZATION AND ADMINISTRATION

The University of California is an integral part of the public educational system of the State. Through aid from the State and the United States, and by private gifts, it furnishes instruction in literature and in science, and in the professions of engineering, art, law, medicine, dentistry, and pharmacy. The instruction in all the colleges is open to all qualified persons, without distinction of sex. The Constitution of the State provides for the perpetuation of the University, with all its departments.

The government of the University is entrusted to a corporation styled THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, consisting of the Governor, the Lieutenant-Governor, the Speaker of the Assembly, the State Superintendent of Public Instruction, the President of the State Board of Agriculture, the President of the Mechanics' Institute of San Francisco, the President of the Alumni Association, and the President of the University, as members ex officio, and sixteen other regents appointed by the Governor and approved by the State Senate. The internal management of the University is in the hands of the President and the Academic Senate, which is composed of the faculties of the University.

The Southern Branch is administered by the Director, who is the administrative head, appointed by the Regents on the recommendation of the President of the University. The staff of instruction of the Southern Branch is organized into a Council, which is a council of the Academic Senate of the University.
III. DEPARTMENTS OF THE UNIVERSITY

I. IN BERKELEY

The Colleges of

Letters and Science,

Commerce,

Agriculture (including the courses at Berkeley, the University Farm at Davis, the Graduate School of Tropical Agriculture at Riverside, and the United States Agricultural Experiment Station, which includes stations at Berkeley and Davis, the Deciduous Fruit Station at Mountain View, the Forestry Station at Chico, the Citrus Experiment Station at Riverside, the Imperial Valley Experiment Station near Meloland, "Whitaker's Forest" in Tulare County, and the M. Theo. Kearney Experiment Station at Kearney Park, Fresno County),

Mechanics,

Mining,

Civil Engineering (including the Surveying Camp at Fairfax, Marin County),

Chemistry.

The schools of

Architecture,

Education,

Jurisprudence,

Medicine (first year and first half of second year).

The University Extension Division (offering instruction wherever classes can be formed, or anywhere in California by correspondence, providing lectures, recitals, motion pictures and other material for visual instruction).

The Summer Sessions.

The California Museum of Vertebrate Zoology.

The Museum of Paleontology.

II. AT MOUNT HAMILTON

The Lick Astronomical Department (Lick Observatory).
III. AT SANTIAGO CHILE
Lick Observatory, Chile Station, a branch of the Lick Observatory.

IV. IN SAN FRANCISCO
California School of Fine Arts,
Hastings College of the Law,
Medical School (third, fourth, and fifth years, including hospitals),
The George Williams Hooper Foundation for Medical Research,
College of Dentistry,
California College of Pharmacy,
The Museum of Anthropology, Archaeology, and Art.

V. IN LOS ANGELES
The Southern Branch of the University.
   The College of Letters and Science,
   The Lower Division in Agriculture, Chemistry, Civil Engineering, Commerce, Mechanics, and Mining.
   The Teachers College.
   The Summer Course in Surveying.
Los Angeles Medical Department (graduate instruction only).
The Summer Session in Los Angeles.
The University Extension Division.

VI. AT DAVIS
The Branch of the College of Agriculture.

VII. AT RIVERSIDE
The Citrus Experiment Station and Graduate School of Tropical Agriculture.

VII. AT LA JOLLA
The Scripps Institution for Biological Research.
IV. OFFICERS AND FACULTY OF THE SOUTHERN BRANCH

ADMINISTRATIVE OFFICERS

WILLIAM WALLACE CAMPBELL, Sc.D., LL.D., President of the University.
WALTER MORRIS HART, Ph.D., Vice-President and Dean of the University.
ROBERT G. SPROUL, B.S., Vice-President, Comptroller, Secretary of the Regents, and Land Agent.
BALDWIN MUNGER WOODS, Ph.D., Associate Dean of the University.
ERNEST CARROLL MOORE, Ph.D., LL.D., Director of the Southern Branch and Professor of Education.
ROBERT M. UNDERBILL, B.S., Assistant Comptroller, and Assistant to the Secretary of the Regents.
CHARLES H. RIEBER, Ph.D., Dean of the College of Letters and Science and Professor of Philosophy.
MARVIN L. DASSEY, Ph.D., Dean of the Teachers College and Associate Professor of Education.
HELEN MATTHEWSON LAUGHLIN, Dean of Women.
EARL J. MILLER, Ph.D., Dean of Men and Assistant Professor of Economics.
LEWIS A. MAVERICK, Ed.D., Recorder, and Lecturer in Education.
C. H. ROBISON, Ph.D., University Examiner and Assistant Professor of Education.
CHARLES W. WADDELL, Ph.D., Director of the Training Schools and Professor of Education.
J. E. GOODWIN, B.L., B.L.S., Librarian.
WILLIAM J. NORRIS, M.D., Physician for Men.
LILLIAN RAY TITCOMB, M.D., Physician for Women.
E. R. WARE, M.D., Assistant Physician for Men.
M. BURNEY PORTER, Appointment Secretary and Supervisor of Teacher Training.
ELMER E. BECKMAN, A.B., Executive Secretary to the Director.

Advisory Administrative Board

ERNEST CARROLL MOORE, Chairman; BALDWIN M. WOODS, HAROLD L. BRUCE, ROBERT G. SPROUL.
OFFICERS AND FACULTY

Faculty

WILLIAM C. ACKERMAN, Assistant in Physical Education for Men.

†JOHN ADAMS, B.Sc., LL.D., F.C.P., Lecturer in Education (Professor of Education, University of London).

JOHN MEAD ADAMS, Ph.D., Associate Professor of Physics.

BENNETT MILLS ALLEN, Ph.D., Professor of Zoology.

BERNICE ALLEN, M.A., Associate in Home Economics.

EVA M. ALLEN, Associate in Commercial Practice.

HERBERT F. ALLEN, Ph.D., Assistant Professor of English.

RUTH V. ATKINSON, B.S., Assistant Professor of Physical Education for Women and Director of Women's Gymnasium.

SARAH ROGERS ATSATT, M.S., Instructor in Biology.

LAURENCE D. BAILIFF, Ph.D., Assistant Professor of Spanish.

GORDON H. BALL, Ph.D., Instructor in Zoology.

CÉSAR BARJA, Doctor in Derecho, Lecturer in Spanish.

CLIFFORD BELL, Ph.D., Instructor in Mathematics.

A. W. BELLAMY, Ph.D., Assistant Professor of Zoology.

M. BIENCOURT, Licencees-Lettres, Associate in French.

B. H. BISSELL, Ph.D., Instructor in English.

FREDERIC T. BLANCHARD, Ph.D., Professor of English.

DAVID K. BJORK, Ph.D., Instructor in History.

LOUIS F. D. BRIOS, A.B., Associate in French.

FOSS R. BROCKWAY, Associate in Mechanic Arts.

ANNA P. BROOKS, A.B., B.S., Assistant Professor of Fine Arts.

ETHEL SUTTON BRUCE, Associate in Physical Education for Women.

HENRY RAYMOND BRUSH, Ph.D., Professor of French.

†LLEWELLYN M. BUELL, Ph.D., Assistant Professor of English.

WILLIAM J. CALVERT, Jr., M.A., Associate in English.

LILY B. CAMPBELL, Ph.D., Assistant Professor of English.

MARGARET S. CARHART, Ph.D., Assistant Professor of English.

FORD ASHMAN CARPENTER, LL.D., D.Sc., Lecturer in Meteorology.

HELEN CLARK CHANDLER, Assistant Professor of Fine Arts.

ORABEL CHILTON, B.S., Associate in Home Economics.

HELEN M. CHRISTENSEN, M.A., Associate in Primary Education.

NÉMOURS HONORE CLEMENT, Ph.D., Assistant Professor of French.

KATHARINE CLOSE, M.D., Lecturer in Hygiene.

MYRTIE COLLIER, B.S., Assistant Professor of Mathematics.

† First half-year only.

* Second half-year only.
Announcement of the Southern Branch

CARTER COLLINS, Captain, U. S. Army, Assistant Professor of Military Science and Tactics.
KATHERINE COLLINS, M.A., Associate in English.
SQUIRE COOP, Lecturer in Music.
*FREDERICK W. COZENS, M.A., Assistant Professor of Physical Education for Men.
ROY T. CULEY, M.S., Associate in Economics and Accounting.
WILLIAM R. CROWELL, Ph.D., Assistant Professor of Chemistry.
HAZEL CUBBERLEY, M.A., Associate in Physical Education for Women.
MARVIN L. DAVIS, Ph.D., Dean of the Teachers College and Associate Professor of Education.
PAUL H. DAUS, Ph.D., Assistant Professor of Mathematics.
MARSHA DEAN, A.B., Associate in Physical Education for Women.
ANNTA DELANO, Associate in Fine Arts.
LEO P. DELSASSO, A.B., Associate in Physics.
WILLIAM DIAMOND, Ph.D., Assistant Professor of German.
LAURENCE ELLSWORTH DODD, Ph.D., Associate Professor of Physics.
ALFRED K. DOLCH, Ph.D., Instructor in German.
CARL S. DOWNES, Ph.D., Assistant Professor of English.
MAX S. DUNN, Ph.D., Assistant Professor of Biochemistry.
CLARENCE A. DYEKSTRA, A.B., Lecturer in Municipal Government.
HARVEY L. EBY, Ph.D., Associate Professor of Rural Education.
HIRAM W. EDWARDS, Ph.D., Associate Professor of Physics.
JOHN D. ELDER, B.S., Assistant in Mathematics.
JOSEPH W. ELLIS, Ph.D., Instructor in Physics.
CARL EPLING, Ph.D., Instructor in Botany.
MAUD D. EVANS, Ed.B., Associate in Home Economics.
GRACE M. FERNALD, Ph.D., Associate Professor of Psychology.
S. CAROLYN FISHER, Ph.D., Assistant Professor of Psychology.
ALEXANDER GREEN FITE, Ph.D., Assistant Professor of French.
MARIORIE FORCHEMER, B.S., Associate in Physical Education for Women.
PAUL FRAMPTON, Ed.B., Assistant Supervisor of Physical Education for Men.
SHEPHERD IVORY FRANZ, Ph.D., M.D., LL.D., Professor of Psychology.
IRA N. FRISBEE, M.B.A., C.P.A., Assistant Professor of Accounting.
LUCY M. GAINES, M.A., Instructor in History.
A. J. GANTVOORT, Lecturer in Music.
NELIE HUNTINGTON GREE, Associate Professor of Fine Arts.
HORTENSE GERVISS, Assistant in Physical Education for Women.
HARRIET E. GLAZIER, M.A., Assistant Professor of Mathematics.
MANUEL PEDRO GONZÁLEZ, Ph.D., Instructor in Spanish.
J. E. GOODWIN, B.L., B.L.S., Librarian.

* Absent on leave, 1925-26.
Announcement of Courses

KATE GORDON, Ph.D., Associate Professor of Psychology.
MALBONE W. GRAHAM, Jr., Ph.D., Assistant Professor of Political Science.
LUCILE R. GRUNEWALD, B.S., Assistant Supervisor of Physical Education for Women.
BERtha HALL, Associate in Physical Education for Women.
FLORENCE HALLAM, A.B., Assistant Supervisor of Training.
EDITH R. HARSHBERGER, A.B., Associate in Physical Education for Women.
JOHN HARTMAN, M.A., Associate in Spanish.
ROWLAND HILL HARVEY, Ph.D., Assistant Professor of History.
A. W. HAUTF, Ph.D., Instructor in Botany.
GAYL HAYES, Associate in Art.
CHARLES GROVE HAINES, Ph.D., Professor of Political Science.
BEssie E. HAZEN, Ed.B., Assistant Professor of Fine Arts.
HORACE K. HEATH, Captain, U.S. Army, Assistant Professor of Military Science and Tactics.
EARL R. HEDRICK, Ph.D., Professor of Mathematics.
ROLLIN C. HILL, A.B., Associate in Economics.
HERMAN HELMER, Ph.D., Lecturer in Economics.
Percy H. Houston, Ph.D., Assistant Professor of English.
HELEN I. HOWELL, Associate in Industrial Arts.
ALICE HUBARD, M.A., Associate in French.
ALICE O. HUNNEWELL, Instructor in English.
GUY H. HUNT, C.E., Assistant Professor of Applied Mathematics.
SIGURD BERnhARD HUSTVEDT, Ph.D., Associate Professor of English.
GLENN James, Ph.D., Associate Professor of Mathematics.
EMILy D. JAMESON, A.B., Associate in Physical Education for Women.
MAUDE E. JEnKINS, B.S., Associate in Home Economics.
BARBARA B. JOHNSON, Associate in Art.
BENJAMIN W. JOHNSON, Lecturer in Education, Assistant Director Division of Vocational Education, and Supervisor of Classes for the Training of Trade and Industrial Teachers.
MARGARET C. JONES, M.A., Associate in Home Economics.
ADRIAN B. KELLEr, B.S. in E.E., Associate in Mechanic Arts.
PAULINE KIMBALL, Ph.D., Instructor in Biology.
HARRY A. KIRKPATRICK, A.B., Associate in Physics.
FRANK J. KLINGBERG, Ph.D., Professor of History.
VERN O. KNUDSEN, Ph.D., Assistant Professor of Physics.
LOUIS K. KOONTZ, Ph.D., Assistant Professor of History.
ANNA Krause, M.A., Associate in Spanish.
MELVYA LATHAM, A.B., Assistant Professor of History.
HELEN Mathewson Laughlin, Dean of Women.

1 In residence first half-year only.
FREDERICK C. LEONARD, Ph.D., Instructor in Astronomy.
MADELEINE L. LETESSIER, M.A., Associate in French.
JOSEPH B. LOCKEY, Ph.D., Associate Professor of History.
LAWRENCE C. LOCKEY, M.A., Associate in English.
ALFRED E. LONGUEIL, Ph.D., Assistant Professor of English.
EVELYN LESSLIE LOUGHEAD, M.A., Associate in French.
MARIA LOPEZ DE LOWTHER, B.S., M.A., Lecturer in Spanish.
H. G. LYMAN, A.B., LL.B., Lecturer in Commercial Law.
PAULINE F. LYNCH, B.S., Associate in Home Economics.
GEORGE MCCUTCHEON McBRIDE, Ph.D., Associate Professor of Geography.
MYRTA LISLE McCLELLAN, B.S., Assistant Professor of Geography.
MILLER McCLENTOCK, Ph.D., Assistant Professor of Political Science.
MARSHALL FRANCIS MCCOMB, A.B., LL.B., Lecturer in Government.
WARREN T. McGRATH, A.B., Associate in Economics.
ARTHUR PATCH McGINLAY, Ph.D., Assistant Professor of Latin.
KATHERINE L. McLAUGHLIN, M.A., Associate Professor of Primary Education.
RUBY I. McLINN, R.N., Associate in Physical Education for Women.
DONALD S. MACKAY, Ph.D., Assistant Professor of Philosophy.
HARRIET MACKENZIE, M.A., Instructor in English.
HAROLD WILLIAM MANSFIELD, Assistant Professor of Mechanic Arts and Director of Shops.
CHARLES A. MARSH, B.S., Assistant Professor of Argumentation.
JAMES WILLARD MARSH, Associate in Mechanic Arts.
WILLIAM F. MARSHALL, A.B., Assistant in Geography.
CHARLES E. MARTIN, Ph.D., Associate Professor of Government.
WENDELL E. MASON, M.S., Instructor in Applied Mathematics.
LEWIS A. MAVERICK, Ed.D., Recorder and Lecturer in Education.
JUNIUS L. MERIAM, Ph.D., Professor of Education.
RUSSELL W. MILLAR, Ph.D., Assistant Professor of Physical Chemistry.
EARL J. MILLER, Ph.D., Dean of Men and Assistant Professor of Economics.
LOYE HOLMES MILLER, Ph.D., Professor of Biology.
WILLIAM J. MILLER, Ph.D., Professor of Geology.
FRANCISCO MONTAUV, A.B., Associate in Spanish.
ERNEST CARROLL MOORE, Ph.D., LL.D., Director of the Southern Branch and Professor of Education.
WILLIAM CONGER MORGAN, Ph.D., Professor of Chemistry.
ADELAIDE MORRIS, A.M., Associate in Fine Arts.
WILLIAM BENNETT MUNRO, Ph.D., LL.D., Lecturer in Government (Professor of Municipal Government, Harvard University).

* Absent on leave, 1925-26.
1 In residence first half-year only.
2 In residence second half-year only.
Announcement of Courses

Gale B. Needham, Associate in Physical Education for Men.
Olive Newcomb, Associate in Industrial Arts.
Howard S. Noble, M.B.A., C.P.A., Associate Professor of Accounting.
Frank E. Olders, B.S., Assistant Professor of Agricultural Teaching.
Fred H. Oster, Associate in Physical Education for Men.
Charles H. Owens, Captain, U. S. Army, Assistant Professor of Military Science and Tactics.
Guy G. Palmer, Colonel, U. S. Army, Retired, Professor of Military Science and Tactics.

*John Carl Parish, Ph.D., Associate Professor of History.
Charles H. Paxton, A.B., Associate in Mechanic Arts.
Lu Emily Pearson, M.A., Associate in English.
Paul Perigord, Ph.D., Professor of French Civilization.
Ruth G. Persons, A.B., Associate in Zoology.
John B. Phillips, Associate in Mechanic Arts.
Estella B. Prough, Associate in Commercial Practice.
O. A. Plunkett, Ph.D., Instructor in Botany.
James B. Ramsey, Ph.D., Instructor in Chemistry.
Edwin Moore Rankin, Ph.D., Associate Professor of Greek.
Marguerite Reinert, A.B., Associate in Mathematics.
Frank H. Reinsche, Ph.D., Assistant Professor of German.
Charles H. Riebele, Ph.D., Dean of the College of Letters and Science and Professor of Philosophy.

John R. Riggelman, M.B.A., Assistant Professor of Economics.
G. Ross Robertson, Ph.D., Assistant Professor of Organic Chemistry.
Clarence Hall Robison, Ph.D., University Examiner and Assistant Professor of Education.

Ordean Rockey, B.Litt., Instructor in Political Science.
Howard D. Roelofs, Ph.D., Assistant Professor of Philosophy.
S. L. Millard Rosenberg, Ph.D., Associate Professor of Spanish.
Nelson V. Russell, Ph.D., Instructor in History.
Sylvia N. Ryan, M.A., Associate in Spanish.
Ethel I. Salisbury, M.A., Assistant Supervisor of Training and Associate Professor of Elementary Education.

J. Murray Scott, Ph.D., Instructor in Botany.

*Effie Shambaugh, A.B., Associate in Physical Education for Women.
Laura Sharp, Associate in Physical Education for Women.
Marion Shepard, A.B., Associate in Physical Education for Women.

*George E. F. Sherwood, Ph.D., Professor of Mathematics.
Harry M. Showman, E.M., M.A., Assistant Professor of Mathematics.

*In residence second half-year only.
*Absent on leave, 1925-26.
JOHN T. SLY, Ph.D., Assistant Professor of Political Science.
BIRDIE KIRK SMITH, Associate in Fine Arts.
HELEN BELL SMITH, Ph.D., Instructor in French.
WILLIAM A. SMITH, Ph.D., Assistant Professor of Education.
WILLIAM F. SMITH, Ph.D., Instructor in Latin and Greek.
LOUISE P. SOOT, Assistant Professor of Fine Arts.
WILLIAM H. SPAULDING, A.B., Director of Physical Education for Men.
O. L. SPONSLER, Ph.D., Assistant Professor of Botany.
A. N. STARK, Jr., Captain, U. S. Army, Assistant Professor of Military Science and Tactics.
ISABEL STOCKLAND, Ed.B., Associate in Fine Arts.
HOSMER W. STONE, Ph.D., Assistant Professor of Inorganic Chemistry.
MILDRED M. STROHL, Assistant in Physical Education for Women.
ELLEN B. SULLIVAN, Ph.D., Instructor in Psychology.
FREDERICK B. TERRELL, Major, U. S. Army, Retired, Assistant Professor of Military Science and Tactics.
INA THACH, Associate in Physical Education for Women.
EVALYN A. THOMAS, B.L.I., Instructor in English.
HELEN B. THOMPSON, Ph.D., Professor of Home Economics.
MARGARET D. THOMPSON, A.B., Assistant in Zoology.
L. B. TRAVERS, Instructor in Education and Assistant Supervisor of Classes for the Training of Trade and Industrial Teachers.
M. TRIEB, Associate in Physical Education for Men.
HARRY TROTTER, Assistant in Physical Education for Men.
BERNHARD A. UHLEN DORF, Ph.D., Assistant Professor of German.
BERNHA C. VAUGHN, Teacher of Voice.
W. H. WATSON, A.B., Ph.M., Instructor in Public Speaking.
FREDDIECK P. VICKERY, Ph.D., Assistant Professor of Geology.
LUCIO A. VILLEGAS, Doctor en Derecho, Instructor in Spanish.
CHARLES WILKIN WADDELL, Ph.D., Director of Training Schools and Professor of Education.
ARTHUR H. WARNER, A.B., B.S., Associate in Physics.
GORDON S. WATKINS, Ph.D., Professor of Economics.
LYTH WEBSTER, M.A., Lecturer in English (Dean of St. Andrews University, Scotland).
WALDEMAR WESTERGAARD, Ph.D., Professor of History.
NATALIE WHITE, B.S., Associate in Industrial Arts.
BELLE H. WHITICE, Associate in Industrial Arts.
ALFRED R. WHITMAN, Ph.D., Assistant Professor of Geology.
J. HABOLD WILLIAMS, Ph.D., Associate Professor of Education.
FLORENCE A. WILSON, A.B., B.S., Associate in Home Economics.

1 In residence first half-year only.
2 In residence second half-year only.
Announcement of Courses

FREDERICK P. WOELLNER, Ph.D., Associate Professor of Education.
Pierce H. Works, A.B., Assistant in Physical Education for Men.
Euphemia R. Worthington, Ph.D., Associate Professor of Mathematics.
Frances A. Wright, Associate Professor of Music.
M. A. Zeitlin, M.A., Associate in Spanish.
Clifford M. Zierer, Ph.D., Assistant Professor of Geography.

STAFF OF TRAINING INSTRUCTION

University Training School

Charles Wilkin Waddell, Ph.D., Professor of Education and Director of the Training Schools.
Ethel I. Salisbury, M.A., Assistant Supervisor of Training and Associate Professor of Elementary Education.
Corinne A. Seeds, M.A., Principal of the Training School.
Beetra E. Wells, Assistant Supervisor of Training.
Frances Giddings, M.A., Assistant Supervisor of Training.
Helen B. Keller, Ed.B., Assistant Supervisor of Training.
Lulu Stedman, Ed.B., Assistant Supervisor of Special Education.
Edith Hope Ringer, Training Teacher, Adjustment Room.
Elizabeth Bruene, M.A., School Counselor.
Emma J. Robinson, Training Teacher, Sixth Grade.
Helen F. Bouton, Ed.B., Training Teacher, Fifth Grade.
Bessie Winston Hoyt, Ph.B., Training Teacher, Fourth Grade.
Vivian Evans, B.S., Training Teacher, Third Grade.
Edith Wallop Swarts, Training Teacher, Second Grade.
Sallie Garrett, Training Teacher, First Grade.
Ethel Britto, A.B., Training Teacher, Kindergarten.
Barbara Greenwood, Training Teacher, Kindergarten.
_______, Training Teacher, Physical Education.

LIBRARY STAFF

John Edward Goodwin, B.L., B.L.S., Librarian.
Philip S. Goulding, A.B., Head Cataloguer.
M. Claire Darby, A.B., Acting Head of the Accessions Department.
Fannie A. Coldren, A.B., B.L.S., Reference Librarian.
Elizabeth Bryan, A.B., B.L.S., Head of the Circulation Department.
_______, Librarian of the Training School.
Announcement of the Southern Branch

LOUISA M. VAN NORMAN, M.A., B.L.S., Senior Assistant.
ELIZABETH BOYNTON, Junior Assistant.
SARAH L. PATTERSON, M.A., Junior Assistant.
FANNIE E. JENNISON, Junior Assistant.
BESSIE E. NELSON, A.B., Junior Assistant.
DEBORAH KING, A.B., Junior Assistant.
VIRGINIA KILGORE, A.B., Junior Assistant.
JULIA E. CURRY, A.B., Junior Assistant.
EDITH G. MEERS, A.B., Junior Assistant.
ALICE M. HUMISTON, B.S., Cataloguer.
RUTH DOXSEE, A.B., Cataloguer.
V. ADMISSION TO THE UNIVERSITY

ACCREDITING OF SCHOOLS IN CALIFORNIA

The accrediting of secondary schools in California is regulated by an order of the Regents of the University originally enacted March 4, 1884. Principals' applications for the accrediting of their schools must be in the hands of the Recorder of the Faculties at Berkeley on or before the first day of December of each school year.

The list of accredited schools is published by the University annually, in the month of June or July. For blank forms of application for accrediting and for other information, school principals may communicate with the Recorder of the Faculties, University of California, Berkeley.

ADMISSION TO FRESHMAN STANDING

PLAN I—ADMISSION FROM AN ACCREDITED SCHOOL IN CALIFORNIA

A graduate of a high school or other secondary school in California may enter the University in freshman standing, without examination, upon the following terms:

1. The school must have been accredited by the University of California in the year of the applicant's graduation.

2. The applicant must be duly certified as having graduated from a four-year course, aggregating at least fifteen (15) standard units, a unit being the measure of a subject pursued throughout the school year of from 36 to 40 weeks, and constituting approximately one-quarter of a full year's work.

3. The applicant must (normally) have attended the school at least one school year* immediately preceding graduation.

4. The applicant must be certified by the principal of the school as fitted, in the judgment of the principal, to undertake college work, with reasonable prospect of success.

* If, however, candidate has completed all of his high school work in accredited institutions, and if the principals of these several schools unite in recommending him, the usual requirement that the candidate must have spent his senior year in the school from which he is graduated may be set aside.
In recommending a graduate for admission to the University by this plan, the principal should use Recommendation Form A, with application for admission attached. Copies of this form are supplied by the Recorder of the Faculties, Berkeley, to the principals of accredited schools in California.

The High School Programme.—For the graduate of an accredited school in California, recommended in accordance with the foregoing provisions, no prescription of high school work is made by the University.* An applicant so recommended is admitted to the University and is permitted to enroll in the curriculum of his choice.

However, to ensure adequate preparation for the work of the University, the prospective student is advised:

1. To follow the programme of high school subjects to be required in and after September, 1927, of an applicant for admission by PLAN II, as stated on page 26.

2. To complete in the high school the subjects required and recommended for the particular curriculum to which the applicant seeks admission. See Preparation for the Various Curricula, pages 30-39.

Unless these precautions be observed, the student, although admitted to the University, may find himself unable to proceed to the bachelor's degree in the normal period of four years.

PLAN II—ADMISSION TO FRESHMAN STANDING OF AN APPLICANT WHO IS NOT A RECOMMENDED GRADUATE OF AN ACCREDITED SCHOOL IN CALIFORNIA

A. Admission from a California School not Accredited

Not later than February, 1927, a graduate of a California secondary school not accredited by the University who has been in attendance at the school for at least one school-year immediately preceding his graduation, and who is strongly recommended by the principal, may be admitted upon passing the following examinations:

* A resolution of the California State Board of Education directs that all public high school curricula in California require, for graduation, the following: English, 3 units; United States history and civics, 1 unit; laboratory science, 1 unit; and all such curricula must be so organized as to include two majors of at least 3 units each—a major consisting of three years of study in one of the following groups (1) English (in vocational courses 1 unit of citizenship may be included with 2 units of English to make one major); (2) mathematics, including mechanical drawing; (3) history and social science; (4) physical and biological sciences; (5) foreign language—3 or more units in one language, or 2 units in each of two languages.
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English (2 units); United States history (1 unit); laboratory science (1 unit); and two of the following groups:

(a) Advanced English and History (in addition to United States history), any two units.
(b) Mathematics (intermediate algebra and trigonometry), 1½ units.
(c) Foreign languages, 3 units in one language, or 2 units in each of two.
(d) Additional science, 2 units.

Entrance examinations held by the University in the subjects above mentioned will be prepared in accordance with the definitions of the College Entrance Examination Board.

Beginning September, 1927, the applicant will be required to present in lieu of the above schedule, the programme of high school subjects required in and after August, 1927, for applicants entering by PLAN II, as set forth in detail below.

B. Admission from an Approved High School Outside of California

A graduate of a high school or other secondary school outside of California may be admitted to freshman standing, without examination, upon the following conditions:

The Committee on Admissions must have evidence of the fact that the school has an approved standing at a university or other accrediting agency of acknowledged rank; that the applicant has been graduated from a four-year course of not less than fifteen standard secondary units; and that he has maintained an average scholarship standing well above the mark required by the school for promotion or for graduation.

The candidate may be certified by his principal upon the Principal’s Recommendation Form B. Copies of this form will be sent by the Recorder either to high school principals or to candidates for admission.

Not later than February, 1927, the Committee on Admissions will in each case determine in its discretion whether the content of the high school programme presented by an applicant in this group is such as is likely to constitute a satisfactory foundation for successful work in the University.

Beginning September, 1927, the list of high school subjects presented by an applicant in this group must conform to the programme to be required in and after August, 1927, for applicants entering by PLAN II, as set forth in detail below.
C. Admission by Examination

An applicant from an accredited California school who has not been graduated from the school; or an applicant from such school who, though graduated, has not received the Principal’s recommendation; or any other applicant whose school work in California or elsewhere has not been such as entitles him, in the opinion of the Committee on Admissions, to admission on his credentials, may be admitted to the University solely by examination.

The subjects in which examinations will be required must amount to at least twelve units, taken from the list of subjects in which the University holds entrance examinations. This list is given below. For the remaining three units, or for any part thereof, the University may accept, in lieu of examination, a properly certified high school record showing the attainment of grade “A” or “B” (excellent, or good) in any standard high school subject or subjects in equivalent amount, whether among the subjects in which the University holds entrance examination or otherwise. The credit to be given, if any, will be determined by the Committee on Admissions upon inspection of the applicant’s credentials.

Not later than February, 1927, the Committee on Admissions will in each case determine in its discretion whether the content of the high school programme presented by an applicant in this group is such as is likely to constitute a proper foundation for successful work in the University.

Beginning September, 1927, the list of high school subjects presented by an applicant in this group must conform to the programme to be required in and after August, 1927, for applicants entering by PLAN II, as set forth in detail below.

Programme of High School Subjects to be Required in and after August, 1927, of an Applicant Entering by Admission Plan II

Beginning August, 1927, an applicant for admission to Freshman standing who does not qualify by ADMISSION PLAN I, that is, as a recommended graduate of an accredited high school in California, will be required to obtain credit for at least fifteen (15) units in high school subjects, distributed as in the schedule following:
Announcement of Courses

(a) English .................................................................................................................................................. 2
(b) History ........................................................................................................................................................ 1
(c) Mathematics (elementary algebra and plane geometry) ......................................................................... 2
(d) Physics, chemistry, biology, zoology, or botany (if a 3d-year or 4th-year subject, with laboratory) ...... 1
(e) Foreign language (in one language) .......................................................................................................... 2
(f) Additional mathematics, or additional foreign language in the language offered under (e) (if in another foreign language, two units will be required) ......................................................................................... 1 (or 2)
(g) Electives from the following list: history; mathematics; foreign language; English; natural science; drawing ........................................................................................................................................... 3 (or 2)

However, during the period, August, 1927, to January, 1929 only, the applicant may present, in lieu of requirements (f) and (g), four (4) units of electives, which must be restricted to the list of subjects in which the University holds entrance examinations.

(h) Unrestricted electives .................................................................................................................................. 3

15 units

The 'unrestricted' electives, in an amount not to exceed three (3) units, may consist of any standard high school subjects, whether among the subjects in which the University holds entrance examination or otherwise; and for these electives credit may be given upon the basis of official school or college records evidencing the attainment of grade "A" or "B" (excellent, or good) in the subject or subjects so presented. The credit to be given, if any, will be determined by the Committee on Admissions upon an inspection by the Committee of the applicant's credentials.

Credit for the remaining twelve (12) units will be given only upon formal examination, excepting from this requirement, however, the graduates of approved high schools outside of California who submit credentials which, under the regulations pertaining to this group of applicants, as above stated, may be accepted by the Committee on Admissions in lieu of formal examination.

Entrance examinations by the University of California in subjects mentioned in the above schedule will be prepared in accordance with the definitions of the College Entrance Examination Board.

Electives in the high school programme should be so chosen as to enable the prospective student to complete the subjects required and recommended for the particular curriculum to which he seeks admission. See Preparation for the Various Curricula, pages 30-39. Unless this precaution be observed, the student, although admitted to the University, may find himself unable to proceed to the bachelor's degree in the normal period of four years.
Announcement of the Southern Branch

**List of Preparatory Subjects**

A list of the high school subjects which, under the regulations elsewhere stated, may be presented for admission, with the amount of credit in units assigned to each subject, is given below.

<table>
<thead>
<tr>
<th>Subject</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>1a English, elem.</td>
<td>2</td>
</tr>
<tr>
<td>1b English, adv. I</td>
<td>1</td>
</tr>
<tr>
<td>1c English, adv. II</td>
<td>1</td>
</tr>
<tr>
<td>2a Algebra, elem.</td>
<td>1</td>
</tr>
<tr>
<td>2b Algebraic Theory I</td>
<td>1</td>
</tr>
<tr>
<td>2c Plane Geometry</td>
<td>1</td>
</tr>
<tr>
<td>2d Solid Geometry</td>
<td>1</td>
</tr>
<tr>
<td>2e Plane Trigonometry</td>
<td>1</td>
</tr>
<tr>
<td>2f Plane Analytic Geometry</td>
<td>1</td>
</tr>
<tr>
<td>3a Physics</td>
<td>1</td>
</tr>
<tr>
<td>3b Chemistry</td>
<td>1</td>
</tr>
<tr>
<td>3c Physiology and Hygiene</td>
<td>1</td>
</tr>
<tr>
<td>3d Botany</td>
<td>1</td>
</tr>
<tr>
<td>3e Zoology</td>
<td>1</td>
</tr>
<tr>
<td>3f Physical Geography</td>
<td>1</td>
</tr>
<tr>
<td>3g Elem. Physical Science</td>
<td>1</td>
</tr>
<tr>
<td>4a History and Gov. of the U.S.</td>
<td>1</td>
</tr>
<tr>
<td>4b History, Ancient</td>
<td>1</td>
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<tr>
<td>4c History, Med. and Mod.</td>
<td>1</td>
</tr>
<tr>
<td>4d History, English</td>
<td>1</td>
</tr>
<tr>
<td>4e Greek, elem., 1 yr. of 5th...</td>
<td>1</td>
</tr>
<tr>
<td>4f Latin, elem., 3d yr</td>
<td>2</td>
</tr>
<tr>
<td>4g Latin, adv., 4th yr</td>
<td>3</td>
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<tr>
<td>4h Latin, adv., 3d yr</td>
<td>1</td>
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<tr>
<td>4i Latin, adv., 3d yr</td>
<td>2</td>
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<tr>
<td>4j Latin, adv., 4th yr</td>
<td>3</td>
</tr>
<tr>
<td>5a French, elem., 1 yr. of 5th...</td>
<td>1</td>
</tr>
<tr>
<td>5b French, elem.</td>
<td>1</td>
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<tr>
<td>5c French, intermed.</td>
<td>1</td>
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<tr>
<td>5d German, elem., 1 yr. of 5th...</td>
<td>1</td>
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<tr>
<td>5e German, elem.</td>
<td>1</td>
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<tr>
<td>5f German, intermed.</td>
<td>1</td>
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<tr>
<td>5g German, intermed.</td>
<td>1</td>
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<tr>
<td>5h Spanish, elem., 1 yr. of 5th...</td>
<td>1</td>
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<tr>
<td>5i Spanish, elem.</td>
<td>1</td>
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<tr>
<td>5j Spanish, intermed.</td>
<td>1</td>
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<tr>
<td>6a Freehand Drawing</td>
<td>1</td>
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<tr>
<td>6b Geometrical Drawing</td>
<td>1</td>
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<tr>
<td>7a Music</td>
<td>1</td>
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<tr>
<td>8a Agriculture</td>
<td>1</td>
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<tr>
<td>9a Home Economics</td>
<td>1</td>
</tr>
<tr>
<td>10a Music, Sight Singing and Dictation</td>
<td>1</td>
</tr>
<tr>
<td>10b Music, Elements of Composition</td>
<td>1</td>
</tr>
<tr>
<td>10c Music, Instrumental and Vocal Technique</td>
<td>1</td>
</tr>
<tr>
<td>10d Music, History of Modern European Music</td>
<td>1</td>
</tr>
<tr>
<td>11a Bookkeeping</td>
<td>1</td>
</tr>
<tr>
<td>12a Stenography and Typewriting</td>
<td>1</td>
</tr>
<tr>
<td>13a Military Science and Tactics</td>
<td>1</td>
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</tbody>
</table>

* No examination is held by the University of California in this subject.

† The dagger indicates subjects for which equivalent courses are offered in the University. For further description of these courses reference should be made to the Announcement of Courses of Instruction.

‡ Credit in this subject does not imply exemption from any part of the prescribed work in military science and tactics in the University.

**Examinations at the University of California**

Matriculation examinations will be held at Berkeley in August and January of each year in all subjects in the list given above with exceptions indicated by the asterisk. In English, foreign languages, history, mathematics, the sciences, and drawing, the examinations held by the University will be prepared in accordance with the definitions of the College Entrance Examination Board.

No person save a registered student of the University will be allowed to take any matriculation examination without having first filed an application for admission.

A circular concerning the matriculation examinations may be obtained by addressing the Recorder of the Faculties, University of California, Berkeley.
EXAMINATIONS AT THE SOUTHERN BRANCH

The entrance examinations given at the Southern Branch are those of the College Entrance Examination Board during the third week of June.

COLLEGE ENTRANCE EXAMINATION BOARD

Certificates of successful examinations before the College Entrance Examination Board will be accepted in lieu of matriculation examinations in the corresponding subjects conducted by the University of California.

The examinations of the College Entrance Examination Board are usually held during the third week in June; in 1926, June 14–19.

All applications for examination must be addressed to the College Entrance Examination Board, 431 West 117th street, New York, N. Y., and must be made upon a blank form to be obtained from the Secretary of the Board upon request.

If the application is received sufficiently early, the examination fee will be $10 for each candidate, whether examined in the United States, Canada, or elsewhere. The fee, which must accompany the application, should be remitted by postal order, express order, or draft on New York to the order of the College Entrance Examination Board.

The applications and fees of candidates who wish to be examined outside of the United States or Canada must reach the Secretary of the Board at least six weeks in advance of the first day of the examinations. The applications and fees of candidates who wish to be examined in the United States at points west of the Mississippi River or in Canada must be received at least four weeks in advance of the first day of the examinations. The applications and fees of candidates who wish to be examined in the United States at points east of the Mississippi River or on the Mississippi River must be received at least three weeks in advance of the first day of the examinations.

When the candidate has failed to obtain the required blank form of application for examination the usual examination fee will be accepted if the fee arrive not later than the specific date accompanied by a memorandum containing the name and address of the candidate, the exact examination center selected, and a list of all the subjects in which he may have occasion to take the board examinations. The required application must be filed later.

Applications received later than the dates named will be accepted when it is possible to arrange for the examination of the candidates concerned, but only upon payment of an additional fee of $5.
 announce ment of the Southern Branch

A list of the places at which examinations are to be held by the Board in June, 1926, will be published about March 1. Requests that the examinations be held at particular points, to receive proper consideration, should be transmitted to the Secretary of the Board not later than February 1. The designation of the center to which the candidate will go for examination is regarded as an indispensable part of the candidate's application for examination.

Detailed definitions of the requirements in all examination subjects are given in a circular of information published annually by the College Entrance Examination Board. The edition published December 1, 1924, was designated as Document No. 114. A new edition, designated as Document 117, will appear December 1, 1925. Upon request a single copy of this document will be sent to any teacher without charge. In general a charge of twenty cents, which may be remitted in postage, will be made.

Points on the Pacific Coast at which examinations are usually held are as follows: Los Angeles, Berkeley, Carpinteria, La Jolla, Ojai, Stanford University, Portland, Seattle, Spokane, Tacoma.

PREPARATION FOR THE VARIOUS CURRICULA

The requirements and recommendations for the various curricula are stated below.

A "curriculum" is understood to be either a technical or specialized programme of studies, as in the colleges of Engineering, Agriculture, and Commerce; or a more general programme (as in the College of Letters and Science), with a designated major subject, such as history, mathematics, or philosophy.

In the subjoined statement the terms "required" and "recommended" are to be interpreted as follows:

Required: Subjects without which the student will not be able to enter the regular curriculum. The omission of required subjects at matriculation will usually result in delaying graduation. The University gives no instruction in elementary Latin; no resident instruction in elementary algebra or plane geometry except during summer sessions. The equivalent of the high school courses in physics and chemistry is given in the summer session, not during the fall or spring sessions.

Attention is called to the fact that, although students may enter a number of the curricula without credit for elementary algebra and plane geometry, it is impossible to proceed to the bachelor's degree without both subjects; and in all curricula in the Colleges of Letters and Science and of Commerce, credit for both subjects is a requirement for the junior certificate.
Recommended: Subjects which will usually give more effective preparation, and thus allow greater freedom of election at the University. The omission of these subjects at matriculation will usually not delay graduation if the student's work at the University is properly planned.

Note.—The numerals in parentheses represent units of high school work. A standard secondary unit is the measure of a subject pursued throughout the school year of from thirty-six to forty weeks and constituting approximately one-quarter of a full year's work.

* Agriculture: leading to the degree of Bachelor of Science in the College of Agriculture.
  Required: algebraic theory (½); trigonometry (½); chemistry (1).
  Recommended: geometrical drawing (1); physics (1); advanced English (2); a reading knowledge of a foreign language.

* Anatomy: leading to the degree of Bachelor of Arts.
  Required: chemistry (1).
  Recommended: physics (1); French (2) or German (2).

* Anthropology: leading to the degree of Bachelor of Arts.
  Recommended: foreign language, zoology, and geography.

† Architecture: leading to the degree of Bachelor of Arts in the College of Letters and Science, at the end of the four years, and to the degree of Graduate in Architecture in the School of Architecture at the end of not less than six years.
  Required: algebraic theory (½); trigonometry (½); solid geometry (½); physics (1); chemistry (1); freehand drawing (1); foreign language (2).
  Recommended: advanced algebraic theory, including quadratics (½); Latin (2); French (2).

Art: *(A) leading to the degree of Bachelor of Arts.
  Recommended: freehand drawing (1).
  (B) leading to the degree of Bachelor of Education. See under Teachers College.

The asterisk (*) preceding the name of a curriculum signifies that only a part of the curriculum may be completed in Los Angeles. The dagger (†) indicates that no work in that curriculum may be taken in Los Angeles.
Announcement of the Southern Branch

**Astronomy**: leading to the degree of Bachelor of Arts.
**Required**: chemistry (1); physics (1).
**Recommended**: advanced mathematics (2); French (2) or German (2).

**Bacteriology**: leading to the degree of Bachelor of Arts.
**Required**: chemistry (1); physics (1).
**Recommended**: advanced mathematics (2); German (2) or French 2.

**Biochemistry and Pharmacology**: leading to the degree of Bachelor of Arts.
**Required**: chemistry (1); physics (1).
**Recommended**: advanced mathematics (2); French (2) or German (2).

Botany: leading to the degree of Bachelor of Arts.
**Recommended**: advanced mathematics (2); physics (1); chemistry (1); French (2) or German (2).

Chemistry: *(a)* leading to the degree of Bachelor of Science in the College of Chemistry.
**Required**: same as for Engineering, with French or German.
**(b)** leading to the degree of Bachelor of Arts in the College of Letters and Science.
**Required**: algebraic theory (½); any two of the three subjects—chemistry (1), physics (1), trigonometry (½).
**Recommended**: advanced mathematics (1½); French (2) or German (2); geometrical drawing (1).

**Commerce**: leading to the the degree of Bachelor of Science in the College of Commerce.
**Required**: algebraic theory (½).
**Recommended**: additional mathematics (including trigonometry); natural sciences; modern foreign language; additional English.

For further information see the Annual Announcement of the College of Commerce, Berkeley.

Dentistry: *(t)* leading to the degree of Doctor of Dental Surgery in the College of Dentistry at the end of four years.
**Recommended**: physics (1); chemistry (1); zoology (1); manual training; foreign language (2).

The asterisk (*) preceding the name of a curriculum signifies that only a part of the curriculum may be completed in Los Angeles. The dagger (†) indicates that no work in that curriculum may be taken in Los Angeles.
Announcement of Courses

*(B) leading to the degree of Bachelor of Science in the COLLEGE OF DENTISTRY (San Francisco) at the end of five years (two years in the College of Letters and Science at Berkeley, followed by three years in the College of Dentistry); and to the degree of D.D.S. in one additional year.

**Required**: physics (1); chemistry (1); foreign language (2).

**Recommended**: zoology (1); manual training; additional foreign language.

**Economics**: leading to the degree of Bachelor of Arts.

**Recommended**: foreign language.

**Education**: leading to the degree of Bachelor of Arts.

**Recommended**: foreign language.

(See under Teachers College for curricula leading to degree of Bachelor of Education.)

**Engineering**: leading to the degree of Bachelor of Science in one of the colleges of engineering. These colleges are: COLLEGE OF MECHANICS—curricula in mechanical and electrical engineering, marine engineering and naval architecture; COLLEGE OF MINING—curricula in mining engineering, petroleum engineering, metallurgy, and economic geology; COLLEGE OF CIVIL ENGINEERING—curricula in railroad, sanitary, municipal, and irrigation engineering.

**Required**: algebraic theory (½); trigonometry (½); physics (1); chemistry (1); geometrical drawing (1). The omission of any part of the required work herein listed will almost invariably make it necessary for the student to devote more than four years to the completion of the work required for B.S.

**Recommended**: advanced algebraic theory, including quadratics (½); solid geometry (½); freehand drawing (1); foreign language (2).

**English**: leading to the degree of Bachelor of Arts.

**Recommended**: Latin (4); Greek (3).

**Geography**: leading to the degree of Bachelor of Arts.

**Recommended**: German (2) and French (2); solid geometry, trigonometry.

The asterisk (*) preceding the name of a curriculum signifies that only a part of the curriculum may be completed in Los Angeles. The dagger (†) indicates that no work in that curriculum may be taken in Los Angeles.
Announcement of the Southern Branch

**Geology:** leading to the degree of Bachelor of Arts.

*Required:* chemistry (1); physics (1).

*Recommended:* advanced mathematics (2); German (2) or French (2).

**History:** leading to the degree of Bachelor of Arts.

*Recommended:* a reading knowledge of at least one of the following:
French, German, Italian, Latin, Spanish; two years of European history in addition to the history of the United States.

**Home Economics:** leading to the degree of Bachelor of Education. See under Teachers College.

*Household Art:* leading to the degree of Bachelor of Arts.

*Required:* chemistry (1); botany (1); domestic science (clothing) (1).

*Recommended:* domestic science (2); mechanical drawing (1); foreign language.

*Household Science:* leading to the degree of Bachelor of Arts.

*Required:* chemistry (1).

*Recommended:* physics (1); French or German (2); domestic science (foods) (1).

*Hygiene and Physical Education:* leading to the degree of Bachelor of Arts.

*Required:* chemistry (1).

*Recommended:* French or German; physics; mathematics.

**Languages—Classics, Latin, *Greek:*** leading to the degree of Bachelor of Arts.

*Required:* Latin (2).

*Recommended:* Latin (4); Greek (3); French (2) or German (2); ancient history (1). To delay advanced Latin until the university is reached will make it exceedingly difficult, though not impossible, to do any considerable amount of advanced work in Latin.

*The asterisk (*) preceding the name of a curriculum signifies that only a part of the curriculum may be completed in Los Angeles. The dagger (†) indicates that no work in that curriculum may be taken in Los Angeles.*

Recommended: Latin (4) or Greek (3); French (2) or German (2) or Spanish (2) or Italian (2).

*LAW: (A) leading to the degree of Bachelor of Arts in the COLLEGE OF LETTERS AND SCIENCE (with a major in a department other than jurisprudence)‡ at the end of four years, and to the degree of J.D. in the SCHOOL OF JURISPRUDENCE at the end of seven years.

(B) leading to the degree of Bachelor of Laws in the SCHOOL OF JURISPRUDENCE at the end of six years (three years in the COLLEGE OF LETTERS AND SCIENCE or in the COLLEGE OF COMMERCE, followed by three years in the SCHOOL OF JURISPRUDENCE).

Recommended: physics (1) or chemistry (1); Latin (2); U. S. history (1) and English history (1).

(C) leading to the degree of Bachelor of Laws in HASTINGS COLLEGE OF THE LAW (San Francisco) at the end of five years (two years in the COLLEGE OF LETTERS AND SCIENCE at Berkeley followed by three years in HASTINGS COLLEGE OF THE LAW).

For further information see the annual announcements of the HASTINGS COLLEGE OF THE LAW and of the SCHOOL OF JURISPRUDENCE.

Letters and Science, College of: leading to the degree of Bachelor of Arts.

Required: the high school work prerequisite to the student's proposed major subject in the college. For statements of the prerequisites to the various curricula and major subjects in this college, the reader is referred to pages 30–39 herein. Attention is called to the fact that, although students may enter the college without credit for elementary algebra and plane geometry, it is impossible to proceed to the Junior Certificate without credit for both these subjects. No resident instruction is provided by the University in these subjects, excepting during summer sessions.

The asterisk (*) preceding the name of a curriculum signifies that only a part of the curriculum may be completed in Los Angeles. The dagger (†) indicates that no work in that curriculum may be taken in Los Angeles.

‡ Not later than August, 1925, students who have completed three years in the College of Letters and Science and have qualified for senior standing in that college will be admitted to the School of Jurisprudence, as candidates for the degree of Bachelor of Arts to be conferred at the end of the first year, and Juris Doctor at the end of the third year in the school.
Recommended: foreign language; physics (1); chemistry (1). In addition, such high school work as is recommended by way of preparation for the student's proposed major subject. For statements of the prerequisites to the various major subjects, the reader is referred to pages 30-39 herein. The study of physics, chemistry, and foreign language in the high school has a double advantage. It releases the student from a part of the requirement in natural science and foreign language which otherwise would be prescribed for him during the freshman and sophomore years in the University, and thus enlarges his opportunity for elective study; and it affords a preparation for many courses of instruction in the University which otherwise will be closed to him. A study of the language or languages (ancient or modern) selected should be begun early in the high school course and should be continued for at least two years, preferably longer. The importance of the study of Latin is particularly called to the attention of high school students. The University provides instruction in the elements of the modern foreign languages, but none in the elements of Latin.

†Library Science: Graduate instruction only.

Required: graduation from an approved college or university.

Recommended: reading knowledge of French and German.

Mathematics: leading to the degree of Bachelor of Arts.

Required: algebraic theory (½).

Recommended: advanced algebraic theory, including quadratics (1); solid geometry (½); trigonometry (½).

Mechanic Arts: leading to the degree of Bachelor of Education. See under Teachers College.

*Medicine: leading to the degree of Bachelor of Arts in the College of Letters and Science in four years and to the degree of Doctor of Medicine in the Medical School in four additional years; the fourth or senior year in the College of Letters and Science consisting of the first year in the five-year curriculum in the Medical School.

Required: English (3); elementary algebra (1); plane geometry (1); physics (1); chemistry (1); history (1); foreign language (2).

The asterisk (*) preceding the name of a curriculum signifies that only a part of the curriculum may be completed in Los Angeles. The dagger (†) indicates that no work in that curriculum may be taken in Los Angeles.
Announcement of Courses

Recommended: advanced mathematics; freehand drawing (1); French (2) or German (2).

A full statement of the prerequisites for the course in Medicine will be found in the Announcement of the Medical School.

*Military Science and Tactics: leading to the degree of Bachelor of Arts.

Recommended: algebraic theory (½); solid geometry (½); trigonometry (½); physics (1); chemistry (1); at least 2 units of language, preferably French, German, or Spanish; United States history and government (1); military science and tactics (½); physical education.

Music *(A) leading to the degree of Bachelor of Arts.

Recommended: harmony (1); history of music (1); vocal or instrumental technique or choral practice (1); ear-training and musical dictation (1).

(B) leading to the degree of Bachelor of Education. See under Teachers College.

*Nursing: (A) leading to a Certificate in Public Health Nursing at the end of a course of one year in the Department of Hygiene, College of Letters and Science at Berkeley.

Required: Certification as registered nurse.

Recommended: chemistry (1); foreign language.

(b) leading to a certificate of graduation at the end of a three-year course in the University of California Training School for Nurses in San Francisco.

Recommended: foreign language, chemistry.

(c) leading to the degree of Bachelor of Science at the end of a five-year course, including two years in the University of California Training School for Nurses in San Francisco and three years in the College of Letters and Science at Berkeley.

Required: elementary algebra (1); plane geometry (1); chemistry (1); and either physics or trigonometry.

Recommended: foreign language (2).

The asterisk (*) preceding the name of a curriculum signifies that only a part of the curriculum may be completed in Los Angeles. The dagger (†) indicates that no work in that curriculum may be taken in Los Angeles.
Announcement of the Southern Branch

*Optometry: leading to the degree of Bachelor of Arts at the end of a four-year curriculum in the COLLEGE OF LETTERS AND SCIENCE with a major in physics.

Required: chemistry (1); physics (1); trigonometry (½); mechanical drawing (1); French (2) or German (2).

Recommended: additional mathematics; additional foreign language.

Pharmacy: (A) leading to the degree of Ph.G. (Graduate in Pharmacy) at the end of a course of three years in the CALIFORNIA COLLEGE OF PHARMACY in San Francisco.

(B) leading to the degree of Ph.C. (Pharmaceutical Chemist) at the end of a course of four years in the CALIFORNIA COLLEGE OF PHARMACY in San Francisco.

Required: graduation from an approved high school course of four years or an equivalent preparation.

Recommended: chemistry (1); physics (1); Latin (1).

Philosophy: leading to the degree of Bachelor of Arts.

Recommended: Latin; mathematics; physics or chemistry.

Physical Education: leading to the degree of Bachelor of Education. See under Teachers College.

*Physical Education and Hygiene: leading to the degree of Bachelor of Arts.

Required: chemistry (1).

Recommended: French or German; physics; mathematics.

Physics: leading to the degree of Bachelor of Arts.

Required: physics (1) or advanced mathematics including trigonometry (1) and chemistry (1).

*Physiology: leading to the degree of Bachelor of Arts.

Required: chemistry (1); physics (1).

Recommended: advanced mathematics (2); German (2) or French (2).

The asterisk (*) preceding the name of a curriculum signifies that only a part of the curriculum may be completed in Los Angeles. The dagger (†) indicates that no work in that curriculum may be taken in Los Angeles.
Announcement of Courses

Political Science: leading to the degree of Bachelor of Arts.

Recommended: foreign language; United States history (1); European history (1).

Psychology: leading to the degree of Bachelor of Arts.

Recommended: foreign language; mathematics; physics or chemistry.

*Public Health: (A) leading to the degree of Bachelor of Arts in the College of Letters and Science.

Required: physics (1); chemistry (1).

Recommended: advanced mathematics (2); German (2) or French (2); freehand drawing (1).

(B) leading to the degree of Bachelor of Arts in the College of Letters and Science, Doctor of Medicine in the Medical School, and Doctor of Public Health in the Graduate Division, in a combined course of nine years.

Required: physics (1); chemistry (1).

Recommended: advanced mathematics (2); German (2) or French (2); freehand drawing (1).

See also under Nursing, page 37.

*Public Speaking: leading to the degree of Bachelor of Arts.

Recommended: foreign language; United States history (1); European history (1).

Teachers College: leading to the degree of Bachelor of Education.

Required: elementary algebra (1); plane geometry (1); foreign language (2).

Recommended: English (2); physical or biological science, including laboratory work (2); history (2); music (1); art (1). Note: For students matriculating in the Kindergarten-Primary curriculum, the ability to play simple melodies on the piano.

Zoology: leading to the degree of Bachelor of Arts.

Required: chemistry (1).

Recommended: advanced mathematics (2); German (2) or French (2); physics (1).

The asterisk (*) preceding the name of a curriculum signifies that only a part of the curriculum may be completed in Los Angeles. The dagger (†) indicates that no work in that curriculum may be taken in Los Angeles.
Announcement of the Southern Branch

ADMISSION WITH ADVANCED STANDING

ADMISSION FROM OTHER COLLEGES AND UNIVERSITIES

An applicant for admission may receive advanced standing in the University on the basis of certificates from other colleges and universities, upon the approval of the certificates by the Committee on Admissions. A form of statement of university work, which may be used for such certificates, will be furnished on application to the Recorder of the Southern Branch. There should also be submitted some credential showing in detail the basis upon which the applicant was matriculated in the institution from which he comes and the preparatory subjects for which matriculation credit was given. These documents should be filed with the Recorder of the Southern Branch, in order that they may be placed before the Committee on Admissions, for an estimate of their value in terms of the requirements of the University of California. The Committee, acting on behalf of the faculties, is empowered to reject the certificates, in whole or in part, and to require examination in any or all of the subjects offered.

Beginning February, 1926, an applicant for admission to advanced standing who is a graduate of a high school in California, and whose collegiate credentials, upon appraisement by the Committee on Admissions of the University of California, Southern Branch, yield less than sixty semester units of advanced standing, must satisfy the Committee that, at the time of graduation from high school, he received or was then entitled to receive, the University Recommendation in accordance with Admission PLAN I; otherwise the examinations required by PLAN II for admission to freshman standing at the date of the applicant's proposed transfer to this University must be passed. A statement of these requirements is given on pages 24-27. In each such case the examinations to be required will be assigned by the Committee on Admissions, in accordance with the provisions of Plan II, following an inspection by the Committee of the record of the applicant's high school and collegiate studies.

Credit for Subject A (English Expression) is not given upon certificate. An examination at the University is required in all cases. See under Regulations in later pages of this bulletin.

ADMISSION FROM NORMAL SCHOOLS AND STATE TEACHERS COLLEGES

A student admitted to the University from a normal school or a state teachers college in California, who is also a graduate (with University recommendation) of an accredited high school in this state, may receive
advanced standing in the University to the extent of not more than three years in the four-year undergraduate curriculum, whenever it appears from the credentials submitted that the work which has been done is substantially the equivalent in kind and in amount, of the work required by the University of California in the college or curriculum selected.

In the College of Letters and Science and in the College of Commerce the junior certificate requirements consist largely of courses specially prescribed, in the fields of foreign languages, laboratory sciences, etc. The premedical curriculum and the curricula of the Colleges of Engineering and Agriculture include a number of prescribed subjects in which instruction is not always provided in institutions maintained primarily for the training of teachers.

Credentials from normal schools or state teachers colleges of states other than California are evaluated in accordance with this general plan.

The applicant must, in every case, submit an officially certified record of his high school and later studies in order that the Committee on Admissions may determine whether the California requirements as to subjects and as to scholarship standing have been satisfied. Blank forms for such certified statements may be obtained from the Recorder of the Southern Branch upon request.

Credit for Subject A (English Expression) is not given upon certificate. An examination at the University is required in all cases.

ADMISSION FROM SCHOOLS AND COLLEGES IN FOREIGN COUNTRIES

An applicant for admission from a school or college in a foreign country must present credentials which can be accepted as the equivalent of the admission requirements of the University of California. An applicant whose education has been in a language other than English, must also satisfy the Committee on Admissions that his command of English is sufficient to permit him to profit by university instruction. This will be tested by an oral and written examination. The admission of an applicant who fails to pass this examination will be deferred until such time as he has acquired the necessary proficiency in the use of English.

LANGUAGE CREDIT FOR A FOREIGN STUDENT

College credit for the mother tongue of a foreigner and for its literature is allowed only for courses taken in native institutions of college grade, or for upper division and graduate courses actually taken at the University of California or at another English-speaking institution of approved standing.
SURPLUS MATRICULATION CREDIT

There is no longer provision for advanced standing in the University on the basis of surplus high school credit.

CREDIT FOR TEACHING EXPERIENCE (TEACHERS COLLEGE)

1. No consideration will be given for teaching experience at the time the candidate with advanced standing registers.

2. After the candidate has engaged in practice teaching long enough to satisfy the Supervisor of Practice Teaching of his ability, he may apply for advanced standing on the basis of his teaching experience. Upon such application and the recommendation of the Supervisor of Practice Teaching, either:

(a) the candidate may receive five units' credit in lieu of the second practice teaching assignment, or

(b) the candidate may substitute for the second teaching assignment such other courses as the adviser may sanction.

ADMISSION OF SPECIAL STUDENTS

Special students are students of mature years who have not had the opportunity to complete a satisfactory high school course but who, by reason of special attainments, may be prepared to undertake certain courses, though not as candidates for degrees.

No person under the age of twenty-one years will be admitted to the status of special student, but it is specifically emphasized that mere attainment of any given age does not constitute adequate qualification for admission to this status.

Applicants will not be admitted directly from the secondary schools to the status of special student.

The graduates of accredited high schools are not admitted as special students, but are expected to qualify for regular undergraduate standing in accordance with the usual rules. Such students may, with the approval of the proper study-list officer, pursue strictly elective or limited programmes, if they do not desire to become candidates for degrees.

The University has no "special courses"; all courses are organized for regular students—that is, students who have had the equivalent of a good high school education and have been fully matriculated. Special students are admitted to those regular courses for which, in the judgment of the instructors, they have satisfactory preparation.
Entrance examinations in the subjects of fundamental importance for the work proposed will be required of practically every applicant, especially of those under the age of twenty-five years. Special students will seldom be able to undertake the work of the engineering and professional schools until they have had all or nearly all of the prerequisite subjects.

Applicants for admission to special status may be required to take a psychological test, which will be given at the time scheduled for matriculation examinations. A circular giving the dates of these examinations may be obtained from the Recorder of the Southern Branch.

Instruction is not offered in such essential preparatory subjects as elementary English, elementary algebra, plane geometry, United States history, elementary Latin, and Caesar, and, save in the Summer Sessions, geometrical drawing, algebraic theory, elementary chemistry, and elementary physics.

Upon petition, special students, not candidates for any University degree, may be excused from the exercises in physical education; such students, however, in case they become candidates for degrees, must meet this requirement in full. Students over twenty-four years of age at the time of admission are excused from military science.

A special student may at any time attain the status of regular student by satisfying all the requirements imposed upon the regular members of the class he desires to enter.

The administration of special students is in the hands of the Committee on Admissions. Prospective applicants should communicate with this Committee through the Recorder, who will furnish forms for application for admission and for transcripts of high school record.

Applications should be made at least six months in advance in order to allow time to prepare for the entrance examinations assigned for admission.

In general, admission to the University in special status can be completed only by personal conference with the University Examiner, and when necessary, with the department or college concerned.

GRADUATE INSTRUCTION

No graduate instruction is offered at the Southern Branch. This statement applies not only to work leading toward higher degrees but also to work beyond the bachelor’s degree leading toward the general secondary teaching credential. Applicants are referred to the Graduate Division of the University at Berkeley and to the professional schools and colleges of the University. The list of bulletins of these departments will be found on pages 2 and 3 of cover.
VI. GENERAL INFORMATION
REGULATIONS CONCERNING STUDENTS
REGISTRATION

Each student registers in the Southern Branch on days appointed for this purpose, at the beginning of each half-year. Registration covers the following steps: (1) Filling out application, paying fees, and receiving in exchange a card entitling applicant to status as a student; (2) enrolling in the proper courses in the approved manner.

Applicants must also appear before the University medical examiners, and pass a medical examination, to the end that the health of the University community as well as that of the individual may be safeguarded. Evidence, satisfactory to the examiners, of successful immunization against smallpox is required.

LATE ADMISSION AND REGISTRATION

The student or applicant for admission should consult the calendar of the Southern Branch (which differs from the calendar of the departments at Berkeley) and acquaint himself with the dates upon which students are expected to register and begin their work at the opening of the session. Failure to register upon the stated registration day is certain to cause difficulty in the making of a satisfactory programme and to retard the progress both of the student himself and of each class to which he may be admitted.

The student who registers after the opening of the session and who later is found to be deficient in his work may not plead late admission in extenuation of such deficiency.

A fee of $2.00 is charged for late registration. This fee applies both to old students and to new.

A qualified student or applicant who fails to register upon the stated registration day on the opening of the session, but who, nevertheless, appears during the first two weeks of instruction will in general be permitted to register. After the first week, however, he may be required to obtain the written approval of all the instructors in charge of his proposed courses, as well as the dean of his proposed college, before his registration may be completed. Owing to the pressure of enrollment at the Southern Branch, the student may expect that such approvals for late admission will be difficult to secure. The qualifications of an applicant
for admission to the University after the first two weeks of instruction will be given special scrutiny by the Committee on Admissions and the dean of the college to which admission is sought.

Transfer to Southern Branch in February.—It is of special importance that a student in another institution who is desirous of transferring to the Southern Branch after the stated registration day of the second half-year should communicate in advance with the Recorder of the Southern Branch, and should await assurance that late admission will be permitted before discontinuing studies in progress elsewhere. Such early inquiry should cover details as to college to which the applicant wishes admission, and the advanced standing which the applicant expects to offer at the time of transfer.

CLASSIFICATION AND STATUS OF STUDENTS

Regular students are those undergraduates who have complied with the requirements for matriculation, and who pursue, or are entitled to pursue, the established curriculum of a college.

Students who are classed as juniors will be regarded as in the third year of the course. Students who have attained junior standing are in the “upper division,” which includes the third and fourth years of the course.

Special students are those who, though they do not meet the University matriculation requirements, are nevertheless allowed to register for restricted programmes because of maturity and fitness to carry the special work elected. Their fitness to carry the work may be attested to by official transcripts of preparatory studies and will normally be tested by formal examination covering their familiarity with the field prerequisite to the elected work.

Special students by virtue of their status are not candidates for any degree. The privileges of the University are normally extended to special students for a period of not more than one year. This period, however, may be extended from time to time at the discretion of the appropriate committee (petitions for renewal of such privileges should be filed with the Recorder).

Any student may be transferred from one college of the Southern Branch to another upon the approval of the dean or other responsible officer of the college to which admission is sought. A formal petition for such transfer is required in each case. This petition may be obtained from the Recorder.

A special student may attain regular status by meeting the requirements for matriculation. The Committee on Admissions will determine what will be required of each special student desiring to qualify for regular status.
STUDENT'S RESPONSIBILITY

The presentation of a study-list by a student and its acceptance by the college evidence an obligation on the part of the student to perform the designated work faithfully and to the best of his ability.

Any student who discontinues, without formal notice, University exercises in which he is a regularly enrolled attendant, does so at the risk of having his registration privileges curtailed or entirely withdrawn.

Application for leave to be absent, or excuse for having been absent from not more than one University exercise consecutively, must be made to the officer of instruction in charge of such exercise; unless for unavoidable cause the student is obliged to absent himself from all college exercises for one day or several days, in which case the dean has authority to excuse. No excuse to be absent will relieve the student from completing all the work of each course to the satisfaction of the instructor in charge.

Ample provision is made for students who desire to withdraw from courses in which they are regularly enrolled, and who have the approval of adviser or dean to make changes in programmes. Application for such change should be made to the office of the Recorder through Petition for Change in Study-List. Attendance upon all exercises is obligatory pending receipt of formal permission to discontinue.

For regulations concerning withdrawal from University exercises see page 56 of this announcement.

UNITS OF WORK AND CREDIT: STUDY LIST LIMITS

Both matriculation and University work are measured in "units." In the high school a standard secondary unit is the measure of a subject pursued throughout the school year of thirty-six to forty weeks and constitutes approximately one-fourth of a full year's work. In the University a unit of registration is one hour of a student's time at the University weekly, during one half-year, in lecture or recitation, together with the time necessary in preparation therefor; or a longer time in laboratory or other exercises not requiring outside preparation. Credit for 124 or more units, distributed according to the requirements of the college in which the student is enrolled, is necessary for a degree.

In the College of Letters and Science student may present study list aggregating 12 to 16 units per half-year without special permission. During his first half-year of residence at the University no student may
receive credit in more than 16 units of work.* After one half-year in regular residence (i.e., with a study list of at least 12 units) a student may receive permission to take not more than 18 units in a half-year on petitioning to the dean of the college, providing he has attained an average of at least grade B for the preceding half-year. A student whose record during the preceding half-year was free of all deficiencies (who was passing in his entire programme), and who is not on probation may submit, without special permission, a programme ½ unit in excess of the limits announced above, providing the ½ unit be in required physical education and with the understanding that, though the ½ unit course will be recorded in regular fashion and will meet in full the physical education requirement, nevertheless the student may not count toward the degree more than the allowable maximum of his college. Prescribed courses in military science and physical education and repeated courses are to be counted in reckoning study list totals. Any work undertaken in the University or elsewhere with a view to credit toward a degree must be included in the above maxima.

Students in the Teachers College may present study lists aggregating from 12 to 17 units each half-year without special permission.* During the first half-year in residence at the University no student may receive credit in more than 17 units of work. After one half-year of regular residence (i.e., with a study-list of at least 12 units) permission may be granted, on petition to the dean of the college, to take not more than 18 units each half-year, providing the student has attained an average of at least grade B for the preceding half-year. An extra ½ unit of physical education may be submitted without special permission under the same conditions and with the same restrictions as noted above for the College of Letters and Science. A student whose record during the preceding half-year included one or more deficient grades (who did not pass in the entire programme undertaken) will be restricted to a total programme of 16 units, within which must be included all prescribed subjects such as physical education. Prescribed courses in military science and physical education are to be counted in reckoning study list totals.

In the pre-engineering curricula, regular students who are free from deficiencies in the work of the preceding half-year may register for not more than 19 units of new work.* In the pre-commerce, the limit is 19 units.* Freshmen and sophomores who are taking the prescribed courses in military science and physical education may, with the express

* Certain courses which do not give units of credit toward the degree, nevertheless displace units from a student's allowable programme, as follows:

Typing by 1 unit.
Shorthand by 2 units.
Course in Subject A by 2 units.
Announcement of the Southern Branch

approval of the chairman of the department, add these courses to the maxima as stated. Students whose record for the preceding half-year shows deficiencies (who are not passing in their entire programme) will be limited to 16 units, including repeated work.

Special students have free election of subjects within the fields specified at the time of their admission. They may not exceed a programme of 16 units per half-year.

SUBJECT A: ENGLISH COMPOSITION

1. With the exceptions noted below, all undergraduate intrants must at the time of their first registration at the Southern Branch take an examination known as the examination in Subject A designed to test their ability to write English without gross errors in spelling, grammar, diction, sentence-structure, and punctuation.

2. The examination in Subject A will be given at the opening of each half-year and at the opening of the Summer Session (see Registration Circular to be obtained from the Recorder of the Southern Branch). A second examination for late intrants will be given two weeks after the first examination in each half-year; for this examination a fee of $2.00 will be charged. The results of each examination will be made known the day following the examination. Papers submitted in the examination will be rated as either "passed" or "failed." Any student who is not present at the examination in Subject A which he is required to take will be treated as one who has failed in the examination.

3. All students who do not pass in the examination in Subject A will be required to take, immediately after their failure, a course of instruction known as the course in Subject A, which gives no units of credit toward graduation, but which reduces the maximum programme allowed the student by two (2) units. The course in Subject A will be given each half-year, three hours a week.

4. No student who has not passed either the examination or course in Subject A will be admitted to any University course in oral or written composition. No student will be granted a Junior Certificate or given junior standing unless he has passed either the examination or course in Subject A. No student will be granted a bachelor’s degree until he has passed either the examination or course in Subject A.

5. Students who pass Subject A are not required, but are advised to continue their training in oral or written composition.

6. Failure in the examination does not prevent admission to the University of California.
7. Any student who has received a grade of 60 per cent given by the College Entrance Examination Board on the basis of an examination in English I or in English A or in the Comprehensive Examination in English will receive credit for Subject A. Any student who has passed an examination in Subject A given by the University of California at Berkeley or any other seat of the University, or given under the jurisdiction of the University at any junior college or other assigned place, will receive credit for Subject A.

8. A student who has failed in an examination in Subject A may not have the privilege of taking a subsequent examination; he must obtain credit in the subject through passing the course in Subject A.

9. The examination in Subject A and the course in Subject A will be directed and judged by the Committee on Subject A established by the Council of the Southern Branch. The requirements and penalties relating to Subject A will be enforced by the deans and other authorities of the Southern Branch.

EXAMINATIONS FOR STUDENTS ENTERING THE TEACHERS COLLEGE

The following examinations for students entering the Teachers College will be administered at the time of matriculation, not to determine whether the student may be admitted but to assist in determining his status after admission:

(1) General Intelligence Test: required of all freshmen entering the Teachers College. At the opening of the fall semester, 1925, the intelligence test will be held in the Millsap Hall Auditorium, September 11, at 2:30 p.m.

(2) Examination M, Fundamentals of Arithmetic: required of all freshmen entering the General Elementary curriculum. At the opening of the fall semester, 1925, Examination M will be held in Millsap Hall Auditorium, September 11, at 11 a.m.

Students falling below reasonable standards of efficiency in arithmetical processes must take Mathematics M, without credit, as a prerequisite to the required course, Mathematics 19.

(3) Piano Test: required of all students entering the Kindergarten-Primary curriculum. Appointments for individual tests must be made with the departmental advisers.

Before student may be assigned practice teaching he must show ability to play on the piano music suitable for use with young children.
MILITARY SCIENCE AND PHYSICAL EDUCATION

All undergraduate students shall, upon admission to the Southern Branch, report immediately to the proper officers for enrollment in physical education, following the Registration Circular or the announcements which may be posted on the bulletin boards. All able-bodied male students, who are under twenty-four years of age at the time of admission, and who are citizens of the United States shall report immediately for enrollment in military science. A deposit ($20.00) must be paid at once to the Comptroller of the University to cover the cost of the uniform and textbook to be used in military courses. A fee of $5 is charged all men registered in Physical Education for the use of the standard gymnasium suit. Students shall list these courses upon their study cards with other University courses.

Petitions from students for excuse from, or deferment of, military science or physical education, filed by the petitioner after the expiration of two weeks following the date of the student’s registration, will not be received except for illness or physical disability occurring after such date. Students who petition to be excused from these subjects or from either of them should nevertheless present themselves to the proper instructors for enrollment during the pendency of petitions.

Students more than twenty-four years of age at the time of admission are, upon petition, excused from military science and physical education.

A circular containing information concerning the requirements in military science and physical education, including a statement of the grounds upon which students may be excused from this work, may be obtained from the Recorder.

In case a student subject to these requirements shall list the prescribed course or courses on his study-list, and thereafter without authority shall fail to appear for work in such course or courses, the neglect will be reported to the dean of his college. With the approval of the Director of the Southern Branch, the dean will suspend the student from the University for the remainder of the half-year, and will notify the Recorder. On recommendation of the professor in charge of the work, and with the approval of the Director, the dean is authorized to reinstate the student and will notify the Recorder of such reinstatement.

The student is referred to the announcements of the departments of Military Science and Tactics and Physical Education, contained on pages 145 and 154 (men), 157 (women), respectively.
AUTHORITY OF INSTRUCTORS

No student will be permitted to enter upon the study of any subject if the officer of instruction in charge of that subject is satisfied that by reason of lack of preparation he is not competent to undertake it. This rule takes precedence of all others.

Every student is required to attend all his class exercises and to satisfy the instructor in each of his courses of study, in such way as the instructor may determine, that he is performing the work of the course in a systematic manner.

Any instructor, with the approval of the Director of the Southern Branch, may at any time exclude from his course any student who, in his judgment, has neglected the work of the course. Any student thus excluded shall be recorded as having failed in the course of study from which he is excluded, unless the faculty shall otherwise determine.

EXAMINATIONS

Final examinations are mandatory in all undergraduate courses save laboratory courses and such other courses as, in the opinion of the Committee on Courses, because of resemblance to laboratory courses, require special treatment. In laboratory courses final examinations are held at the option of the department in charge. All examinations will, so far as practicable, be conducted in writing, and a maximum time will be assigned beforehand for each, which no candidate will be allowed to exceed. The time for examination sessions shall not be more than three hours.

Any department may examine students, at the end of the half-year immediately preceding their graduation, in the major subject in which such department has given instruction; and students to be examined in a major subject shall be excused from all course examinations in which said students shall have been enrolled during said half-year in the department of the major subject.

No student will be excused from assigned examinations.

Any student tardy at an examination will be debarred from taking it, unless an excuse for such tardiness entirely satisfactory to the examiner be presented.

Reexaminations are permitted only for the purpose of removing conditions (grade E). In courses of the Summer Session, however, reexaminations for the removal of deficiencies are not provided by the University. Students who have received grade B, C, or D in any course are not allowed a reexamination therein.
Concerning examinations for the removal of conditions see under Conditions and Failures, below.

Application for examination for advanced standing on the basis of work done before entrance to the University should be made to the University Examiner upon entrance to the University.

GRADES OF SCHOLARSHIP: GRADE POINTS

The final result of the work of the students in every course of instruction will be reported to the Recorder in six grades, four of which are passing, as follows: A, excellent; B, good; C, fair; D, barely passed; E, conditioned; F, failed.

Any student may be reported grade "E" (conditioned) in a course owing to the omission of, or to unsatisfactory work in, any examination or other exercise of the course which, in the judgment of the instructor, may properly be required for a passing grade, without necessitating a repetition of the course.

No student will receive credit in any course in which he may have received grade "F," except upon successful repetition of that course.

The term "incomplete" will no longer be used in reporting the work of students. The instructor is required in every case to assign a definite grade (A, B, C, D, E, or F) based upon the work actually accomplished, regardless of the circumstances which may have contributed to the results achieved.

Except in the pre-engineering curricula, grade points or quality units will be assigned as follows: A, 3 points per unit; B, 2 points per unit; C, 1 point per unit; D, no points per unit; *E, minus 1 point per unit; *F, minus 1 point per unit. Removal of grade E or F by reexamination or repetition of the course will entitle the student to as many grade points per unit as may have been lost by the condition or failure, but no more. For exceptions permitted in certain cases in which grade E is assigned, see under Conditions and Failures, below.

To qualify for the bachelor's degree in the College of Letters and Science, in the Teachers College, in the College of Agriculture, in the College of Commerce, or in the College of Chemistry the student must have attained at least as many grade points or quality units as there are time units or quantity units in the credit value of all courses undertaken by him in the University of California in and after August, 1921.

* Provision for "negative grade points," in courses graded E or F, effective in and after August, 1923.
Announcement of Courses

The reports in January, as in June, are final reports, not provisional reports, with the following exception: if the organization of the work permits and if the deficient student retains his status in the University, a grade E in the first half of a year course (a "double-number" course) may, at the discretion of the instructor in charge, be removed upon the basis of the regular work and examinations of the second half-year. In every such case the student should apply promptly to his instructor for advice. It may not be assumed that a passing grade in the work of the second half-year removes a deficiency in the first half-year.

CONDITIONS AND FAILURES

For the removal of a condition a student may, with the consent of the instructor concerned and of the dean of the appropriate college, have the privilege of either a reexamination with the class next repeating the subject or a special examination (not with the class). In courses of the Summer Session, however, reexaminations for the removal of deficiencies are not provided. For every such examination a formal permit, to be obtained in advance, on petition filed with the Recorder, must be shown to the instructor in charge of the examination. For every course in which a special examination is undertaken for the removal of a condition, a fee of $5.00 is charged, save that there is no fee for a final examination taken with a class, provided the final examination be the only task required by the instructor for the removal of the condition. The fee for two or more special examinations undertaken to remove conditions during a single half-year will not exceed $10.00. A form of petition for a special examination or for admission to an examination with a class, together with instructions for procedure, may be obtained from the Recorder.

In no case may a condition in a course in which a final examination is regularly held be removed, unless the student shall have passed a satisfactory final examination in the course, either at the time when the course was originally taken, or at a later time, as above provided.

Removal of grade "E" (conditioned) by reexamination or otherwise shall entitle the student to receive grade "D" in the course and to receive as many grade points as have been lost by the condition, but no more. An exception to this rule is permitted, however, when the deficiency consists solely in the omission of the final examination or other required exercise, due to illness, or other circumstance over which the student had no control. In such a case the student may present a petition to have such grade assigned as would have been assigned by the instructor if the completion of the work had not been delayed. The
petitioner must set forth in detail the circumstances that made it impossible for him to complete the course within the usual limit of time. The petition must be endorsed by the instructor concerned as evidence of the fact that the student's work, so far as presented, was satisfactory, and must finally be submitted for approval to the dean of the college. In the event of such approval the instructor may assign such grade to the student as would have been given if the completion of the work had not been delayed; the student shall then receive the corresponding grade points.

If a student who has incurred a condition in any course fails to make up the condition by the end of the next semester of his residence in which the said course is regularly given, then such condition is removable only by repetition of the course.

Any student who is reported as having failed in any prescribed course in military science or physical education, or the course in Subject A, will be required to repeat such course during his next regular semester of residence in which such course may be given.

A student who fails to attain grade D or a higher grade in any course following examination for the removal of a condition will be recorded as having received grade F (failure) in the course.

REVISED SCHOLARSHIP RULES

Note.—A student dismissed in and after February, 1926, for unsatisfactory scholarship, in pursuance of the revised regulations, will be excluded from the University for an indefinite period, with the presumption that his connection with the University will be ended by such exclusion. For this reason, a student who is in danger of dismissal under the regulations should present his case to the dean of the college at a date sufficiently early so that a possible favorable decision may be reached in time to prevent dismissal.

A College of Letters and Science, Teachers College, Pre-Agriculture, Pre-Commerce, Pre-Chemistry. 1. Any student in these colleges whose scholarship in any half-year falls below an average grade of 'D' per unit of work undertaken, will be dismissed.

Effective in and after the half-year September, 1925-January, 1926. In June, 1925, students in good standing in these colleges who satisfy the requirements either of the former ten-unit rule or of the rule requiring at least a 'D' average, as above, were permitted to continue. The 10-unit rule will cease to operate after June, 1925.
2. (a) Any student in these colleges whose entire University record, computed to the close of any half-year, shows a cumulative deficit of ten (10) or more grade points (regardless of the number of units passed) will be placed on probation.

Effective in and after June, 1925.

(b) If the student fails during any single half-year while on probation to maintain an average grade of at least "C" per unit of work undertaken, dismissal will follow; otherwise, probationary status will be continued until such time as the cumulative grade point deficiency be reduced to an amount less than ten (10).

Effective in and after the half-year September, 1925-January, 1926; also in and after February-June, 1925, for students then on probation.

3. By special action of the Committee on Disqualified Students any student who in any single half-year fails to attain grade points in an amount equal to the number of units undertaken, may be placed on probation for one half-year, and be required during the probationary half-year to maintain at least a "C" average under the penalty of dismissal.

Effective in and after the half-year September, 1925-January, 1926.

B. Pre-Engineering Curricula. 1. Any student in the Pre-Engineering Curricula who in any single half-year fails to pass in at least six (6) units, or (if registered for less than six units) in all work undertaken, will be dismissed.

Effective in and after half-year February-June, 1925.

2. (a) Any student in these curricula who in any single half-year passes in six (6) units, but fails to pass in at least ten (10) units, or (if registered for less than ten units) in all work registered, will be placed on probation for one half-year.

Effective in and after the half-year February-June, 1925.

(b) If the student fails during the probationary half-year to maintain an average grade of at least "C" per unit of work undertaken, dismissal will follow.

Effective in and after the half-year September, 1925-January, 1926.

Also in and after February-June, 1925, for students then on probation.

Prior to June, 1925, the "ten-unit rule" provided that every undergraduate student was required each half-year, either (1) to pass in all courses registered for the half-year, or (2) to pass in at least ten (10) units of duly registered work.
From June, 1924, to June, 1925, further provision was made for disqualification through grade point deficiency. This provision has now been superseded by the above regulations. It provided for other than engineering colleges that (1) any student whose record in June, 1924, showed a deficiency of fifteen (15) or more grade points be warned by the Recorder before the opening of the next academic year in September, 1924, that his standing in the University was unsatisfactory, (2) any student who in the half-year following such warning incurred further deficiency in grade points be placed on probation, (3) any student who had been placed on probation and who incurred a further deficiency in grade points be dismissed from the University, (4) any student who had been placed on probation owing to deficiency in grade points be continued on probation (unless he incurred the penalty of dismissal) until he reduced his deficiency to less than fifteen (15) grade points. (Under the new regulation this number has become ten (10) grade points.)

TIME REQUIRED TO OBTAIN TRANSCRIPTS OF RECORD

Teachers and others who intend filing applications with the State Board of Education, and who desire a transcript of their credits at the close of any regular or summer session, are urged to give notice of their intention in the office of the Recorder some time before the close of the session. It requires some time for the preparation of the student's record for transfer, and the University cannot be responsible for the transmission of a transcript to its destination unless at least one week be allowed.

LEAVE OF ABSENCE AND HONORABLE DISMISSAL

Indefinite leave of absence must be sought by written petition filed with the Recorder.

Brief leave of absence. A student must apply for leave to be absent or excuse for having been absent from any college exercise other than an examination to the officer of instruction in charge of such exercise; unless, for unavoidable cause, the student is obliged to absent himself from all college exercises for one day or for several days, in which case the proper dean has authority to excuse. No excuse for absence will relieve the student from completing all the work of each course to the satisfaction of the instructor in charge.

Honorable dismissal, indicating that the student, while in good standing, has voluntarily severed his connection with the University, should be sought by written petition filed with the Recorder. Without such petition no record of honorable dismissal will be made.
DISCIPLINE

The University authorities expect all students to set and observe among themselves a proper standard of conduct. It is therefore taken for granted that, when a student enters the University, he has an earnest purpose and studious and gentlemanly habits; and this presumption in his favor continues until, by neglect of duty or ungentlemanly behavior, he reverses it. But if an offense occurs, whether it be against good behavior or academic duty, the University authorities will take such action as the particular occurrence, judged in the light of the attendant circumstances, may seem to them to require. Students who fail to make proper use of the opportunities freely given to them by the University must expect to have their privileges curtailed or withdrawn.

Grades of Censure.—Censure will be expressed in the four grades of probation, suspension, dismissal, and expulsion. Probation indicates that the student is in danger of exclusion from the University. Suspension is exclusion from the University for a definite period. Dismissal is exclusion for an indefinite period, and with the presumption that the student's connection with the University will be ended by it. Expulsion is the highest academic censure, and is final exclusion of the student from the University.

By authority of the Academic Senate, the Director of the Southern Branch is entrusted by the President of the University with the administration of student discipline with full power to act.

Student Self-Government.—There exists at the University a system of student self-government, steadily growing in range and in the confidence felt toward it on the part of the student body. There is a University Affairs Committee, composed of ten members, which passes on cases of misconduct among students. To this committee the Director of the Southern Branch customarily refers, for recommendation, cases of student delinquency, ranging in degree from petty offenses to those of a more serious nature. All cases of cheating and dishonesty in examinations or classroom work are referred to this committee. This committee is considered rather as a "household tribunal" than as a court. Its inquiries and findings have not been given legal form, nor are the students summoned before it put under oath.
DEGREES: TEACHING CREDENTIALS

Every candidate for a degree or for the completion of a regular University curriculum leading to a teaching credential will fill out a form to be found in the registration book, indicating his candidacy for such degree or teaching credential. The Recorder's office will then consult with the appropriate dean and committees, and will advise the student whether the programme he is undertaking will satisfy the remaining requirements of his curriculum.

It should be noted that the State Board of Education issues teaching credentials of a wider variety than those for which the University has especially designed curricula, and also that the State Board of Education issues credentials on alternative bases other than the approved University curriculum. Certain students, therefore, who are meeting the State Board requirements may need to have their programmes approved by the State Board of Education if they are not candidates for the University credential.

Senior Residence.—All candidates for the bachelor's degree are required to have been enrolled during the senior or final year of residence in that college of the University in which the degree is to be taken. It is permissible to offer two Summer Sessions (or two Inter sessions, or one Summer Session and one Inter session) as equivalent to one half-year; but in any event the student must complete in resident instruction either the fall or spring semester of his senior year. This regulation applies both to students entering this University from another institution and to students transferring from one college to another of this University, with the exception, however, that transfers from one of the three Colleges of Engineering (Colleges of Civil Engineering, College of Mechanics, and College of Mining) to another of those three colleges shall not be affected by this regulation.

Courses in which a final report relating to any student shall have been received by the Recorder may not be removed from the record of such student. He may, however, upon written petition to the dean of his college, be permitted to graduate without removing the deficiency in any course which is not specifically required for his graduation.

All graduates of any one calendar year—January 1 to December 31—shall be ranked as belonging to the so-called class of that year.
FEES

The incidental fee, $20.00, which must be paid on date of registration, covers expenses of students other than the cost of their instruction and entitles them to the use of the gymnasium, tennis courts, swimming pool, baths, soap, towels, washrooms, etc.; consultation, medical advice or dispensary treatment in case of illness; and meets in part the expenses in connection with registration and graduation. This fee is not remitted in whole or in part for those who may not desire to make use of any or all of these privileges. In case a student withdraws from the University within the first three weeks, a portion of this fee will be refunded. Students registering for less than five units of work will pay half the incidental fee ($10.00).

Non-resident tuition fee.—Non-residents of California* are charged a tuition fee of $75.00 each half-year, which shall be paid on the day of registration.

Every entering student and student returning to the University after an absence of a half-year or longer, is required to fill out a "Statement as to Residence" on the day of registration, and his status as to residence or non-residence will be determined by the Attorney for the University shortly after registration.

Old students are advised that application for reclassification as a resident of California may be filed within ten days of the regular registra-

* There follows a reprint of the resolution adopted by the Finance Committee of the Regents of the University, June 19, 1928, in accordance with the provisions of Section 1894 1/4, Political Code of California. "No person shall be considered eligible to register in the University as a resident of the State of California unless he has resided in the State for more than one year immediately preceding the semester during which he proposes to attend the University. The residence of each student shall be determined in accordance with the rules for determining residence prescribed by the provisions of Section 52 of the Political Code of California, provided, however, that every alien student who has not made a valid declaration of intention to become a citizen of the United States as provided by the laws thereof, prior to the opening day of the semester during which he proposes to attend the University, shall be deemed to be a non-resident student, and further provided, that every student shall be deemed to be a resident student who is either—

(a) A citizen of the United States who has attained his majority, according to the laws of the State of California, and who for a period of (1) one year has been entirely self-supporting and actually present in the State of California, with the intention of acquiring a residence therein; or

(b) A minor child, a citizen of the United States, who does not receive, for more than one (1) year immediately preceding his entrance into the University, directly or indirectly, any support or financial assistance from his father, provided such minor lives with his mother, who is, and has been, continuously for a period of more than one (1) year, actually present in the State of California, with the intention of making her home therein. Every person who has been, or who shall be hereafter classified as a non-resident student shall be considered to retain that status until such time as he shall have made application, in the form prescribed by the Recorder, for reclassification, and shall have been reclassified as a resident student by the attorney appointed to act for the Regents in non-residence matters."
Announcement of the Southern Branch

Announcement day, or, in the case of late registrants, within one week after registration. The Attorney will not consider applications for reclassification filed later than these dates. Application for a change in classification during some preceding semester will not be received under any circumstances.

If the student registers for less than 12 units the tuition fee is as follows: Minimum, $25.00; $5.00 per unit for work aggregating six to eleven units or fraction thereof.

Fine for delayed payment of any of the above fees or departmental fees or deposits, $2.00. Departmental fees and deposits must be paid within one week of the day of registration.

Late application for admission (after September 1, 1924, or January 29, 1925), $2.00.

Late registration, $2.00. (After date set as registration day.)

Late filing of registration book, $2.00. (More than seven days after registration.)

Late examination in Subject A, $2.00.

For courses added after date set for filing registration book, $1.00 per course.

For courses dropped after date announced on bulletin boards (about two weeks after last date for adding courses without fee), $1.00 per course.

Laboratory and Departmental Fees.—In the laboratories a charge is made for materials actually used. This charge, for students in the elementary laboratories, amounts to from $5 to $30 per year.

The military uniform and textbook deposit is $20 for students in the basic course, and $25 for students in the advanced course, payable by every student subject to military training before his registration book is filed. Military training is prescribed for all first and second year undergraduate male students who are citizens of the United States, able-bodied and under twenty-four years of age when admitted to the University. The United States furnishes uniforms and some textbooks for the use of students receiving military training, and the University requires the student to deposit with the Comptroller an amount necessary to cover the cost of the articles issued to him. The deposit is refunded at the close of the academic year, or upon the student's withdrawal from the University, provided the student then returns in good condition all articles issued to him. The amount necessary to replace articles not returned by the student will be retained by the Comptroller.

Key deposit: a deposit of $1 is required on each locker or university key issued to a student, a faculty member or an officer of the University. This deposit is refunded in full upon return of the key.
Other expenses are: Gymnasium outfit for men, $5; for women, about $8; books and stationery, from $18 to $25 per year. All students are eligible to membership in the Associated Students of the Southern Branch of the University of California. The cost of membership is $7.50 per year. The membership card entitles the holder to participation in the affairs of the Associated Students; a subscription to the California Grizzly; admission to all athletic contests (with the exception of final intercollegiate contests) held on the campus under the jurisdiction of the Associated Students.

SCHEDULE OF REFUNDS

Incidental Fee of $20.00
To end of first week .............................................. Refund $17.50
From first week to end of third week ......................... Refund 10.00
Thereafter, no refund.

Non-Resident Fee of $75.00
To end of first week .............................................. Refund 65.00
From first week to end of the third week ..................... Refund 50.00
From third week to the end of the sixth week ............... Refund 35.00
From the seventh week to the end of the twelfth week ...... Refund 15.00
Thereafter, no refund.

No claim for refund of fees will be considered unless such claim is presented during the fiscal year to which the claim is applicable. No student will be entitled to a refund except after surrender to the Controller of his receipt. Students should preserve their receipts.

SCHOLARSHIPS

The Committee on Scholarship of the University of California, Southern Branch, is authorized to award a limited number of scholarships annually to students in the Southern Branch. The Committee rates all candidates as to scholarship, need, and character, and bases its recommendation upon relative ratings of all the candidates applying at any one time. Applications for these scholarships with letters and testimonials relating to them, should be filed with the Recorder on or before the ninth day of March preceding the academic year for which the awards are to be made; if received later they will not ordinarily be considered until the following year. A blank form of application, which gives all the necessary information, may be obtained from the Recorder.
MISCELLANEOUS

MAINTENANCE

LIVING ACCOMMODATIONS

There are no dormitories maintained by the Southern Branch.

The cost of board and lodging in boarding houses near the campus is from $45 to $60 a month. For students living in housekeeping rooms and boarding themselves, the expenses may be reduced to as low as from $30 to $40 a month, but this plan is not generally recommended. Student apartments for two rent at from $35 to $75 a month. Women are not, however, permitted to live in apartments unless satisfactory arrangements concerning chaperonage are made in advance with the Dean of Women. The hours of recitation are such that students may commute from many of the towns in the vicinity of Los Angeles. Families, or groups of mature students, who wish to rent furnished houses or apartments should apply to local real estate agents.

The ordinary yearly expenses (including personal expenses) of a student would probably be at least $675.

No woman is permitted to complete her registration unless her living accommodations are first approved by the Dean of Women. Lists of approved accommodations may be obtained at the office of the Dean of Women, Millspaugh Hall.

A further list of accommodations for men may be obtained at the office of the Dean of Men, North Hall.

EMPLOYMENT

Women students desiring employment should apply at the office of the Dean of Women, Millspaugh Hall. Limited opportunities exist for obtaining employment on an hourly basis in the following fields: stenography, typewriting, general office work, tutoring, housework, care of children, serving as waitresses, etc. At the present time students who assist with housework or the care of children give an average of three hours' work a day in exchange for board and room and $10 a month.

The Young Men's Christian Association acts as a bureau of information concerning employment for men students.
With reasonable diligence a student can devote some time to outside work without seriously interfering with University work of from twelve to sixteen units. It should always be borne in mind, however, by students seeking employment that not every kind nor every amount of outside work is entirely compatible with the student’s purpose at the University, namely, his education. Only in rare instances can a student be entirely self-supporting.

Little can be done in securing employment for students who are not actually on the ground to negotiate for themselves. It is usually so difficult for a stranger to obtain remunerative employment from the start that, in general, no one should come to Los Angeles expecting to become self-supporting through the University course, without having on hand sufficient funds to cover the expenses of the first half-year.

Applicants for employment in teaching or tutoring should apply at the office of the Appointment Secretary, Millspaugh Hall. Upon the request of school officials the Appointment Secretary recommends teachers who, in the opinion of the Faculty, are able to fill satisfactorily the positions for which teachers are being sought. To do this it is necessary that the Appointment Secretary have detailed information concerning the vacancies to be filled. The Secretary makes every endeavor to assist graduates to obtain positions of the kind for which they are best fitted. Students are urged to make occasional calls at the office of the Appointment Secretary throughout their entire course. There is no expense to the school officials or to graduates for the service rendered by this office.

The Bureau of Occupations places graduates in positions other than teaching. The purpose is to aid employers to choose from the graduates of the University workers who will meet their requirements. Data are supplied covering past experience, education, and salary. Confidential reports on character, integrity, and ability of each applicant are obtained. A recommendation from this office will be given only after the facts have been carefully studied.

LIBRARY, GYMNASIUM, INFIRMARY

THE LIBRARY

The Library has a capacity exceeding 75,000 volumes, and reading rooms are provided for about 900 students. It regularly receives approximately 650 periodicals and continuations.

The Library is open daily, except Sundays. From Monday to Friday, inclusive, the hours are from 7:45 a.m. to 10 p.m.; Saturday, from 7:45 a.m. to 5 p.m.
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GYMNASIUM AND ATHLETIC FACILITIES

For Men

The Men's Gymnasium, though not large, affords opportunity for exercise in boxing, wrestling and gymnastic work and contains accommodations for approximately 1000 men in the locker rooms and 50 men at a time in the shower room. The athletic field measures 300 X 600 feet and contains a quarter-mile running track, three outdoor basketball courts and six handball courts, besides adequate room for football and baseball. There are six tennis courts. The swimming pool, 50 X 100 feet, is at the rear of the Gymnasium.

For Women

The Women's Gymnasium is well equipped. Besides a main hall, 60 X 80 feet, there are class rooms, a corrective room, rest rooms, shower and dressing room accommodations. Nearby are two outdoor basketball courts and an athletic field, 200 X 300 feet. Women and men have access to the swimming pool on alternate days.

THE INFIRMARY

The Southern Branch maintains on the campus, for the care of emergencies, an infirmary, with a physician and a trained nurse in charge. There are no facilities for hospital care. Students are entitled to medical consultation and advice. Every entering student receives a physical examination.

MUSICAL EVENTS

Four musical events are given during the year. The Christmas Concert consists of a University community programme of Christmas carols, given by the University Choral Club. At the Spring Concert an oratorio is performed by the University Choral Club, assisted by local artists as soloists. A series of Senior Piano Recitals is given by the fourth-year students. The Original Composition Programme is a public demonstration of the work of the year in music composition.

THE ASSOCIATED STUDENTS

There is an organization, the Associated Students, that administers and controls all extra-curricular activities. This organization has an executive council composed of a president, two vice-presidents, two
representatives of groups, and the chairmen of five activity boards. The activity boards control the activities in definite fields such as debating, athletics, dramatics or publications; while the council coördinates the work of these boards and administers the general business of the Association.

All financial and athletic interests of the Associated Students are administered by the General Manager of the Associated Student Body. Subject to the approval of the Director, the University Affairs Committee, composed of fourteen members, passes on all cases of misconduct among the students.

PUBLICATIONS

The California Grizzly and The Southern Campus are the official publications of the students of the Southern Branch. The California Grizzly, the student paper, is published daily. The Grizzly contains news of all campus and college activities, and is in direct charge of an editor and a manager appointed by the council. The Southern Campus is the yearbook. It contains a complete record of the college life of the year, and is edited, managed, and financed by the students.

CO-OPERATIVE STORE

The Students' Co-operative Store was opened by the students of the Normal School in 1916, with the purpose of supplying a wide range of needed commodities at the lowest possible cost. Under the ownership of the Associated Students of the Southern Branch it has grown proportionately to the other campus activities.

SUMMER SESSION

The Summer Session of six weeks is designed for teachers and other persons who are unable to attend the University during the fall and spring sessions, as well as for students in the regular session who are desirous of shortening their college courses, or who have been unable to enroll in needed subjects. Any adult of good moral character, considered by the faculty to be of sufficient maturity and intelligence to profit by attendance upon the exercises of the session, may be admitted to the Summer Session. The courses of instruction are of University grade, and credit toward University degrees may be given to students who comply with such conditions of work and examinations as may be imposed by the instructors in charge.
The tuition fee is $25, regardless of the number of courses taken.

The Announcements of the Summer Sessions are issued in January of each year and may be obtained by addressing the Dean of the Summer Sessions, Berkeley, or the representative of the Summer Session in Los Angeles, 815 Hillstreet Building, Los Angeles.

Summer Sessions are conducted at the seat of the University in Berkeley, at the Southern Branch in Los Angeles, at Davis, and at Riverside. In addition, the Intersession of six weeks, immediately preceding the Summer Session, is given in Berkeley.

UNIVERSITY EXTENSION DIVISION

For those who desire instruction of University grade and can devote to it only the leisure hours after performance of their business or professional duties, the Extension Division offers large opportunity. Classes cover a wide range of subjects and meet at times and places convenient to the student. The Los Angeles office is at 817 Hillstreet Building.
VII. CURRICULA

There are established at the Southern Branch: (a) The College of Letters and Science, leading to the degree of Bachelor of Arts; (b) The Teachers College, leading to the degree of Bachelor of Education.

A. COLLEGE OF LETTERS AND SCIENCE

The curriculum of the College of Letters and Science includes three elements that may be considered characteristic and essential:

1. Requirements to secure breadth of culture. In the present curriculum no specific courses are required, but the student must select courses within certain designated groups, some of the groups being alternatively elective. These groups have been chosen to represent the more important fundamental types of human intellectual endeavor. At present these requirements are limited to the lower division, but the student is given a wide freedom of election in the upper division to continue cultural studies of his own choice.

2. Requirements to provide for intensive study in a field of the student's choice, carried through several years and including work of a distinctly advanced character in the "major."

3. A reasonable freedom of elective time. Freedom of election gives the student an opportunity to develop his personal power and initiative, but it also makes possible an unwise selection of courses. The College aims to minimize the dangers of an elective system of studies by moderate requirements to ensure proper distribution and concentration; and by the development of the faculty adviser system.

LOWER DIVISION

The work of the lower division comprises the studies of the freshman and sophomore years. The junior certificate in the College of Letters and Science is required for admission to the upper division.

Students who transfer from other colleges of the University of California or from other institutions will be required to meet the junior certificate requirements, but will not be held strictly to the time distribution of requirements, if the credit allowed them in the University of California amounts to at least sixty units.
Announcement of the Southern Branch

In the lower division of the College of Letters and Science it is expected that the student, in addition to fulfilling the prerequisites for the major work upon which he will concentrate in the upper division, will make an effort to establish a basis for that breadth of culture which will give him a realization of the methods and results of some of the more important types of intellectual endeavor, and a mental perspective that will aid him in reaching sound judgments. The junior certificate requirements were designed to provide in some degree for the accomplishment of this purpose, without unduly limiting the student’s opportunity to satisfy his individual tastes and preferences.

Certain courses taken in the high school are accepted as fulfilling in part or in whole some of these junior certificate requirements. It is desirable that the student should so arrange his high school programme as to reduce the required work in the fields of foreign language, mathematics, and natural science. This makes his programme more flexible, gives him a greater freedom of choice, and prepares him to pass more quickly into advanced work or into new fields of study. In no case, however, does the satisfaction of junior certificate requirements in the high school reduce the amount of work required in the University for the junior certificate (60) or for the degree (124).

The degree requirement of 124 units is calculated on the assumption that the student will normally take 64 units of work in the lower division, including the prescribed work in military science, physical education, and hygiene, and 60 units in the upper division. However, the junior certificate will be granted on the completion of not less than 60 units of college work and the fulfillment of the following general and specific requirements:

(a) General University requirements.†
   Subject A.†
   Military Science and Tactics, 6 units (men).
   Physical Education, 2 units.

(b) Southern Branch requirement: Psychology X.

(b) Foreign Language. At least 15 units in not more than two languages. Each year of high school work in a foreign language will be counted in satisfaction of 3 units of this requirement. Courses given in English by a foreign language department will not be accepted in fulfillment of this requirement.

† For information concerning exemptions from these requirements apply to the Recorder.
* Courses so marked will be accepted as laboratory courses.
‡ An examination in Subject A (English Composition) is required of all intrants at the time of their first registration in the University. For further regulations concerning Subject A see General Regulations of the Faculties, in later pages of this circular.
Announcement of Courses

(c) Mathematics. Elementary Algebra and Geometry. Instruction in these subjects is not given in the fall or spring sessions of the University.

(d) Natural Science. At least 12 units chosen from the following list:
High School Physics (3A)*, 3 units (1 high school credit).
High School Chemistry (3B)*, 3 units (1 high school credit).
Astronomy 1, 5, 11.
Biology 1.
Botany 2A*-2B*.
Chemistry 1A*-1B*, 2A-2B*, 5*, 6A*-6B*, 8A-8B.
Geology 1A, 1B, 1C, 2C, 2D.
Paleontology 1.
Physics 2A-2B, 3A*-3B* or 3C*-3D*.
Physiology 1.
Zoology 1A*-1B*.

The student must include in the courses taken in satisfaction of the requirement in natural science at least one course in laboratory science. Any of the courses marked with an asterisk in the above list will be accepted in fulfillment of this requirement. Courses with but one unit of laboratory science are not accepted as fulfilling this requirement and are not marked above, unless they have as prerequisite a course that also requires one unit of laboratory work.

(e) Additional. A year-course (of at least six units) in each of three of the following groups:

(1) English, public speaking.
(2) Foreign language (additional to 5). This may be satisfied in whole or in part in the high school, provided the language be Latin.
(3) Mathematics: plane trigonometry, plane analytic geometry, introduction to calculus. This may be satisfied partly in the high school.
(4) History, economics, political science.
(5) Philosophy.

The work offered in satisfaction of requirement (e) must consist of subjects of college grade, except as otherwise provided, as shown in detail in the following list:
YEAR COURSES ACCEPTABLE IN FULFILLMENT OF REQUIREMENT (e) FOR THE JUNIOR CERTIFICATE

**Group 1—English and Public Speaking**

English 1A–1B, 56A–56B; Public Speaking 1A–1B.

**Group 2—Foreign Languages**

French: any two consecutive courses of A, B, C, D, 1A, 1B, 5, or any upper division year sequence.
German: any two consecutive courses of A, B, C, D, CD; or SC–SD; or any upper division year sequence.
Greek: 1AB–2AB; or 101.
Latin: any year sequence from the following: C, D; 1, 5, 102, 106. Two years of high school Latin are accepted as the equivalent of a year course.
Spanish: any two consecutive courses of A, B, C, D, CD, 50A–50B, or any upper division year sequence.

**Group 3—Mathematics**

Any two of the courses C, 5, 6, 8, 9, or 3A–3B.
High school plane trigonometry (2e) and plane analytic geometry (2f) will be accepted in partial satisfaction of this requirement, each to count for 2 units.

**Group 4—History, Economics, Political Science**

History 8A–8B. Economics 1A–1B.
History 4A–4B. Political Science 1A–1B.
History 5A–5B.

**Group 5—Philosophy**

Philosophy 1A–1B. Philosophy 3A–3B.

*Summer Session Courses.*—Students who desire to satisfy the specific subject requirements for the Junior Certificate in the Summer Session may use only those courses which are the equivalents of courses offered in the fall or spring sessions listed as acceptable in meeting junior certificate requirements and which are designated by the same numbers with the prefix "S."
Announcement of Courses

Requirements (b), (c), and (d) may be met in whole or in part by the completion of acceptable courses in the Summer Session. For a list of such courses, see the Announcement of the Summer Session. The requirements in units must be met in full. Courses offered in fulfillment of requirement (e) must be taken in the fall and spring sessions.

University Extension.—The maximum amount of credit granted toward a degree to a student whose programme is confined to courses in the Extension Division (correspondence or class) is 15 units per year.

Certain courses offered in the Extension Division may be accepted in fulfillment of some of the junior certificate requirements. A list of such courses may be obtained from the Director of the Extension Division.

Honorable mention with the junior certificate.—Honorable mention will be granted with the junior certificate in accordance with the regulations on Honors, page 74.

UPPER DIVISION

Only those students who have been granted the junior certificate, signifying their completion of lower division requirements, will be registered in the upper division.

The degree of Bachelor of Arts will be granted upon the following conditions:

1. The total number of units in college courses in the lower and upper divisions offered for the degree must be at least 124.

2. The student must attain as many grade points (quality units) as there may be time units (quantity units) in the credit value of all courses in which he may have received a final report on the basis of work undertaken by him in the University in and after August, 1921. See also regulations concerning negative grade points, above.

3. At least 54 units of college work must be completed after the receipt of the junior certificate.

4. The course in American Institutions 101 (or its equivalent) must be completed by all candidates for the degree of A.B. to be awarded in or after December, 1925.

5. At least 36 units of work completed in the upper division (of which 24 units shall constitute the major) must be in upper division or graduate courses in the following departments or subjects:

† In the departments designated "M" and in these only, may an undergraduate major in the College of Letters and Science at the Southern Branch be taken.
Art
Astronomy
Botany, M
Chemistry, M
Economics, M
Education
English, M
French, M
Geography, M
Geology, M
German, M
Greek
History, M
Home Economics
Latin, M
Mathematics, M
Mechanic Arts
Military Science
Music
Philosophy, M
Physical Education for Men
Physical Education for Women
Physics, M
Political Science, M
Psychology, M
Spanish, M
Zoology, M

6. A major of 24 upper division units must be completed according to the rules given below.

7. All candidates for the Bachelor of Arts degree are required to have been enrolled during the senior or final year of residence in the College of Letters and Science. It is permissible to offer two Summer Sessions (or two Intersessions, or one Summer Session and one Intersession) as equivalent to one half-year; but in any event the student must complete in resident instruction either the fall or spring semester of his senior year. This regulation applies both to students entering this University from another institution and to students transferring from another college of this University.

8. No student is permitted to transfer from one major department to another after the opening of the last semester of his senior year.

9. Students who fail in the lower division to attain an average of at least one grade point for each unit of work taken in any department may at the option of the department be denied the privilege of a major in that department.

10. Each major department is expected to send to the dean of the college from time to time a list of students who, in the opinion of the department, cannot profitably continue in the department, together with a statement of the basis for this opinion and the probable causes of the lack of success. In such cases the dean of the college, may with the approval of the department concerned, permit a change in the major, or may, with the approval of the Director of the Southern Branch, require the students to withdraw from the college.

11. All students are required to take at least 6 units in their major (either 3 units each half-year, or 2 units one half-year and 4 units the next) during their last or senior year.
12. Students who transfer to the University of California, Southern Branch, from other institutions with senior standing at the time of admission must complete at least 18 units work in upper division courses, including at least 12 units in their major department.

13. Any department offering a major in the College of Letters and Science may require of candidates for a bachelor's degree a general final examination in the department.

MAJORS FOR THE A.B. DEGREE

A major consists of a substantial group of coördinated upper division courses. The 24 upper division units required in the major for the A.B. degree may represent courses in one or more departments. If the greater part of the major work is in one department, this is known as the major department. If the major is a curriculum of courses from two or more departments, no one of which represents the greater part of the work involved, the major may be known as a group major, and its administration be in the hands of a committee instead of a department.

Majors may be offered for the A.B. degree in any of the subjects or departments listed above with the designation M (under requirement 5 for the A.B. degree). The general outline of the content of these majors may be found in the respective department announcements in succeeding pages of this announcement. The details of the programme must be approved by a representative of the department chosen. It is recognized that suitable programmes may be prepared that are not included in any of the published announcements. A student may, therefore, with the advice and approval of a member or members of the faculty, present a plan for a major or group major to the Dean of the College of Letters and Science. If this meets the Dean's approval, he will designate a member of the faculty to take charge of the student's special major and approve his upper division study-lists and the final completion of the major.

Special attention is called to the courses listed as preparation for or prerequisite to the major. In most cases it is essential that these courses be completed before upper division major work is undertaken. In any case they are essential requirements for the completion of the major.

Not more than 30 units of upper division courses taken in one department after receiving the Junior Certificate will be counted toward the A.B. degree.

The 24-unit major must, in its entirety, consist of courses taken in resident instruction at this or another university (fall, spring, and summer sessions).
Announcement of the Southern Branch

No courses numbered in the 300 series (teachers’ courses) or 400 series will be accepted as part of the major.
See further under Regulations for Study-Lists on page 46.

HONORS

Honorable Mention with the Junior Certificate—
1. Honorable Mention shall be granted with the Junior Certificate to students who attain at least:
   (1) An average of 2 grade points per unit undertaken; or
   (2) B grade in three-fourths of the units counted toward the Junior Certificate, of which not less than 10 units shall be of grade A.
2. The list of students who receive Honorable Mention with the Junior Certificate shall be sent to the chairmen or study-list officers of departments before the beginning of the next semester.
3. A student who gains Honorable Mention has thereby attained the honor status for his first semester in the upper division.

Honor Students in the Upper Division—
1. An honor list shall be prepared in the fall semester, and also in the spring semester if the Committee on Honors so decides; and shall be published in the Catalogue of Officers and Students. The department of the student’s major shall be named in this list.
2. The honor list shall include the names of
   (1) Students who have received Honorable Mention with the Junior Certificate and who are in their first semester of the upper division.
   (2) Upper division students who have an average of at least 2 grade points per unit undertaken for all undergraduate work at Berkeley.
   (3) Other upper division students specially approved for listing in the honors status by the Committee on Honors, either upon recommendation made to the committee by departments of instruction, or upon such other basis as the committee may determine.
3. Any department is authorized to post a departmental honor list on its bulletin board at the beginning of a semester. Copies shall be sent by the departments to the Committee on Honors and to the Recorder of the Faculties.
4. Each department shall have freedom in determining the most efficacious method for the training of honor students.
5. Departments may offer special honor courses in reading and research with credit to be determined by the instructors in charge, according to the performance of the individual students, subject to such general restriction as may be imposed by the department, the college, or Committees on Courses of Instruction. The work of the student in such an honor course may consist of additional work in connection with regular courses of instruction, or may be independent of such courses.

6. Special honor courses may not be taken by a student whose name is not on the honor list of the college except with the consent of the Committee on Honors.

7. At the discretion of the dean of the appropriate college, an honor student may make study-list changes involving honor courses under suspension of the regulations fixing the time during which such changes are ordinarily permissible, and of the rules requiring fees for such changes; but in every case the student will be expected to complete the organization of his programme with all possible diligence, and to report promptly to the dean concerning proposed changes.

8. Except as specifically provided, all existing regulations for students in the upper division shall apply to honor students.

Honors with the Bachelor's Degree—

1. Honors shall be granted at graduation only to students who have completed the major with distinction, and who have a general record satisfactory to the Committee on Honors.

2. Before Commencement each department shall determine, by such means as it may deem best (for example, by means of a general final examination), what students it will recommend for honors at graduation, and shall report its recommendation to the Recorder.

3. Students who, in the judgment of their departments, display marked superiority in their major subject, may be recommended for the special distinction of Highest Honors.

4. The Committee on Honors shall consider departmental recommendations and shall confer with the several departments about doubtful cases. The committee is empowered at its discretion to recommend to the Committee on Graduation Matters that honors be not granted in the case of any student who has failed to attain a B average in the major, or in the upper division, or in all undergraduate work.

5. The list of students to whom Honors or Highest Honors in the various departments have been awarded shall be published in the Commencement programme.
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PREPARATION FOR VARIOUS PROFESSIONAL CURRICULA OF THE UNIVERSITY

Certain courses given at the Southern Branch may be used as preparatory to admission to the professional colleges and schools of the University in Berkeley and in San Francisco.

A. PRE-DENTAL CURRICULUM

This curriculum assumes the completion of the following subjects in the high school: English, two years; history, one year; mathematics, two years (elementary algebra and plane geometry); chemistry, one year; physics, one year; foreign language, two years. The junior certificate requirements will be more easily met if foreign language has been pursued in the high school. It is assumed that at least two years of a foreign language have been completed in the high school, and that this language is continued in the University.

<table>
<thead>
<tr>
<th>Units</th>
<th>First Year</th>
<th>Units</th>
<th>Second Year</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>first half</td>
<td>second half</td>
<td></td>
</tr>
<tr>
<td>Subject A (examination in English expression)</td>
<td>1½</td>
<td>1½</td>
<td></td>
</tr>
<tr>
<td>Military Training</td>
<td>1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Physical Education</td>
<td>1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Psychology X</td>
<td>1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>General Inorganic Chemistry and Qualitative Analysis, with laboratory</td>
<td>5</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>(Chemistry 1A-1B)</td>
<td>3</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>English 1A</td>
<td>5</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Additional year course</td>
<td>0</td>
<td>0 or 1½</td>
<td></td>
</tr>
<tr>
<td>Foreign language</td>
<td>0</td>
<td>0 or 1½</td>
<td></td>
</tr>
<tr>
<td>Electives</td>
<td>16</td>
<td>16</td>
<td></td>
</tr>
</tbody>
</table>

* An examination in Subject A (English Composition) is required of all undergraduate intrants at the time of their first registration in the University.

† See requirements for the junior certificate, College of Letters and Science.

‡ Southern Branch requirement.
Announcement of Courses

Upon receipt of the junior certificate in the College of Letters and Science, pre-dental curriculum, the student will be eligible to register in the College of Dentistry at San Francisco. Those entering with the junior certificate may receive at the end of the first three years of the four-year dental curriculum, the degree of Bachelor of Science in Dentistry; and upon completion of four years, the degree of D.D.S.

Persons desiring to matriculate in the College of Dentistry should send their credentials to the University Examiner in Berkeley for his approval.

Note.—The plan of a pre-dental curriculum in the College of Letters and Science does not change the length of the present dental course (four years following admission to undergraduate standing); it offers an alternative plan combining a two-year academic preparation with the professional four-year course. For further information consult the Announcement of the College of Dentistry.

B. PRE-MEDICAL—THREE YEARS

Requirements for admission to the Medical School are technical and relate not only to content of the pre-medical curriculum but also to the level of scholarship. Owing to the limitation of enrollment in the Medical School, the faculty of the Medical School is authorized to refuse admission to students who have a low academic record. Applications for admission should be filed with the Recorder of the Faculties, University of California, Berkeley, not later than March 5 of the year in which admission is desired. Applications received after April 1 will not be considered in making up the list of matriculants for the ensuing academic year. Since decision on acceptance must be arrived at by June, courses to be taken in the Intersession or the Summer Session will not be considered. For detailed statement of the required distribution of work in the pre-medical curriculum, student is referred to the Circular of Information, Academic Departments, which may be obtained from the University of California Press in Berkeley.

The following tabulated curriculum represents the most satisfactory arrangement of work to meet the medical prerequisite courses, as prescribed for those entering the Medical School. The student should, however, make sure that his course is so arranged as to satisfy the junior certificate and other requirements of the College of Letters and Science in order that his entrance to the Medical School and the attainment of his A.B. and M.D. may not be delayed. All requirements for matriculation in the Medical School must be completed in full by the end of the spring semester next preceding the date of the applicant's proposed
matriculation. Certain variations in the chronological arrangement may be necessitated if the high school course included the minimum of foreign language work. Such variation may be made with the approval of the faculty adviser.

This curriculum assumes the completion of the following subjects in the high school: English, three years; history, one year; mathematics, two years (elementary algebra and plane geometry); chemistry, one year; physics, one year; foreign language, two years. The junior certificate requirements will be more easily met if the foreign language study has been pursued four years in the high school.

There is no opportunity in regular sessions in the Medical School to take the course American Institutions 101 required of all candidates for the bachelor's degree. It will be impossible for applicants admitted to the school in August without credit in this subject, to receive A.B. in the month of May following such admission. The degree will not be conferred until after the completion of the course, in Summer Session or otherwise. Students in the pre-medical curriculum are advised, therefore, to take American Institutions 101 in their junior year if the requirements for the degree A.B. are to be completed in the minimum time.

**PRE-MEDICAL PROGRAMMES**

A. For students who have completed two years foreign language in high school.

<table>
<thead>
<tr>
<th>Subject</th>
<th>First Year</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Subject A (examination or course in Subject A)</td>
<td>first semester</td>
<td>second semester</td>
</tr>
<tr>
<td>Military Science</td>
<td>14</td>
<td>14</td>
</tr>
<tr>
<td>Physical Education</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Psychology X</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Chemistry 1A-1B</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>English 1A-1B</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>5</td>
<td>3 or 5</td>
</tr>
<tr>
<td>Electives as necessary to make up units</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

1 Chemistry 5 (Quantitative Analysis, 8 units) is required for admission by a large number of medical schools. Although it is not a requirement for admission to the University of California Medical School, students who can conveniently include this course in their programmes are advised to do so.

2 English 1A-1B. If the student fails to pass the examination in Subject A it will be necessary to postpone English 1A-1B until he has completed the course in Subject A for which no units are allowed. The student is advised to substitute in the interim one of the year courses which are required for the junior certificate under requirement (s) in place of English 1A-1B.

3 Foreign Language. The Medical School requirement is 10 units of credit in either French or German, and the junior certificate requirement is 15 units of foreign language in not more than two languages. These may be satisfied partly in the high school. The student's programme should be made to satisfy these requirements.

4 Southern Branch requirement.
## Announcement of Courses

### Second Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Units first semester</th>
<th>Units second semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Military Science</td>
<td>1½</td>
<td>1½</td>
</tr>
<tr>
<td>Physical Education</td>
<td>½</td>
<td>½</td>
</tr>
<tr>
<td>Zoology 1A–1B</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Year course (Requirement &quot;e&quot; for the junior certificate)</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Year course (Requirement &quot;e&quot; for the junior certificate)</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Electives (Foreign language if necessary to complete 15 units for J. C.)</td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Units first semester</th>
<th>Units second semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Institutions 101</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Physics 2A–2B</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Physics 3A–3B</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Chemistry 8A</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Chemistry 9</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>7</td>
<td>9</td>
</tr>
</tbody>
</table>

### Third Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Units first semester</th>
<th>Units second semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Institutions 101</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Physics 2A–2B</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Physics 3A–3B</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Chemistry 8A</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Chemistry 9</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>7</td>
<td>9</td>
</tr>
</tbody>
</table>

### First Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Units first semester</th>
<th>Units second semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Military Science</td>
<td>2½</td>
<td>2½</td>
</tr>
<tr>
<td>Physical Education</td>
<td>½</td>
<td>½</td>
</tr>
<tr>
<td>Psychology X</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Chemistry 1A–1B</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>English 1A–1B</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Year course (Requirement &quot;e&quot; for the junior certificate)</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Year course (Requirement &quot;e&quot; for the junior certificate)</td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>

### Notes
- Only 16 units first semester will be counted toward degree.

### Second Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Units first semester</th>
<th>Units second semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Military Science</td>
<td>1½</td>
<td>1½</td>
</tr>
<tr>
<td>Physical Education</td>
<td>½</td>
<td>½</td>
</tr>
<tr>
<td>Zoology 1A–1B</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Chemistry 8A</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Chemistry 9</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Electives (foreign language if necessary to complete 15 units for J. C.)</td>
<td>6</td>
<td>6</td>
</tr>
</tbody>
</table>

---

2 English 1A–1B. If the student fails to pass the examination in Subject A it will be necessary to postpone English 1A–1B until he has completed the course in Subject A for which no units are allowed. The student is advised to substitute in the interim one of the year courses which are required for the junior certificate under requirement (e) in place of English 1A–1B.

3 Foreign Language. The Medical School requirement is 10 units of credit in either French or German, and the junior certificate requirement is 15 units of foreign language in not more than two languages. These may be satisfied partly in the high school. The student's programme should be made to satisfy these requirements.

† Southern Branch requirement.
Announcement of the Southern Branch

Third Year

<table>
<thead>
<tr>
<th>Units</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>first semester</td>
<td>second semester</td>
</tr>
<tr>
<td>American Institutions 101</td>
<td>3</td>
</tr>
<tr>
<td>Physics 2A-2B</td>
<td>3</td>
</tr>
<tr>
<td>Physics 8A-8B</td>
<td>1</td>
</tr>
<tr>
<td>Electives</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

C. PRE-AGRICULTURE

The prospective student should consult the requirements and recommendations for matriculation, as stated on page 81. Failure to take the proper subjects in high school may delay graduation.

More detailed information concerning instruction in the College of Agriculture than is given below is contained in the Prospectus of the College of Agriculture. This may be obtained by applying to the Dean of the College of Agriculture, Berkeley, California.

EXAMPLE OF PROGRAMME

<table>
<thead>
<tr>
<th>Freshman</th>
<th>Units</th>
<th>Sophomore</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Military Science</td>
<td>1</td>
<td>Military Science</td>
<td>4</td>
</tr>
<tr>
<td>Physical Education</td>
<td>4</td>
<td>Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>Psychology X</td>
<td>1</td>
<td>Economics 1A-1B</td>
<td>3</td>
</tr>
<tr>
<td>Botany 2A-2B, General Botany</td>
<td>4</td>
<td>Zoology 1A-1B</td>
<td>5</td>
</tr>
<tr>
<td>Chemistry 1A-1B, General Chem.</td>
<td>4</td>
<td>Elective</td>
<td>8</td>
</tr>
<tr>
<td>Mathematics C, Trigonometry</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Elective</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>19</td>
<td>19</td>
<td>19</td>
</tr>
</tbody>
</table>

D. PRE-COMMERCE

The requirements for the junior certificate in commerce are as follows:

Foreign languages: students must pass an examination designed to test their ability to read one of the following languages: Greek, Latin, German, French, Spanish, Italian, Russian, Japanese, or Chinese.

English Composition: Subject A. Examination required of all. In addition 6 units of English, chosen from the following courses: English 1A-1B or English 1A-1C or Public Speaking 1A-1B. A 6

* An examination in Subject A (English Composition) is required of all undergraduate entrants at the time of their first registration in the University.
† Mech. 6 is a 5-unit course, second semester, the extra unit may be counted as elective.
‡ Southern Branch requirement.
§ Specific requirements not stated. Major subject advisers should be consulted.
Announcement of Courses

Psychology X ................................................................. 1

History or Political Science:
  History 4A-4B, or History 8A-8B, or Political Science 1A-1B;
  or any combination of the foregoing courses ..................... 6

Geography:
  Geography 1 (Introduction to Geography: Elements) and
  Geography 2 (Regions and Distribution of Population
  and Cultures) ............................................................. 6

Natural Sciences ..................................................................... 9

Courses in physics and chemistry taken in high school may be applied
 toward the satisfaction of the science requirement.

Mathematics:
  Mathematics 2 (Mathematical Theory of Investment) .... 3

Economics:
  Economics 1A-1B ............................................................ 6

Military Science, Physical Education .................................... 8

Electives .............................................................. 19

Total ................................................................................... 64 units

The prerequisite of Mathematics 2 is Mathematics 8 or two years of
high school algebra and trigonometry. For Mathematics 8 elementary
algebra is necessary and at least a first course in algebraic theory is
strongly recommended.

‡ Southern Branch requirements.
### E. PRE-CIVIL ENGINEERING

<table>
<thead>
<tr>
<th>Subject</th>
<th>FRESHMAN</th>
<th>Units</th>
<th>SOPHOMORE</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Subject A</em></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mil. 1A-1B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physical Education</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Psychology X</em></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mathematics 2A-2B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physics 1A-1B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chemistry 1A-1B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Civil Engineering 1A-1B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Civil Engineering 3 (s. a.)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Elective</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>17</td>
<td>18</td>
<td></td>
</tr>
</tbody>
</table>

### F. PRE-MECHANICAL AND ELECTRICAL ENGINEERING

<table>
<thead>
<tr>
<th>Subject</th>
<th>FRESHMAN</th>
<th>Units</th>
<th>SOPHOMORE</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Subject A</em></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mil. 1A-1B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physical Education</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Psychology X</em></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mathematics 1A-1B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physics 1A-1B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C. E. 1A-1B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>†M. E. 18 (Summer)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Elective</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>18</td>
<td>18</td>
<td></td>
</tr>
</tbody>
</table>

* An examination in Subject A (English Composition is required of all undergraduate entrants at the time of their first registration in the University.

† Three units of the shop work requirement must be taken in the Summer Session (6 weeks, 4 days of 6 hours each; 144 hours), credit 8 units.

‡ Southern Branch requirement.

§ May be any two of 8A, 8B, 9A, 9B.
G. PRE-MINING

Note.—Students in the College of Mining may elect one of four curricula: (1) Mining Engineering; (2) Metallurgy; (3) Economic Geology; and (4) Petroleum Engineering. Each is a four-year curriculum and leads to the degree of Bachelor of Science in mining with the completion of 147 units of work.

These four curricula have a common requirement for the first year, after which the student is expected to elect the one in which he wishes to specialize. In the second year the courses listed at the beginning of the column are common requirements for all students in the College of Mining. In addition to these, each student is required to take the courses listed under his particular option.

<table>
<thead>
<tr>
<th>FRESHMAN</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subject A</td>
<td>1</td>
</tr>
<tr>
<td>Mil. 1A-1B</td>
<td>1 1</td>
</tr>
<tr>
<td>Physical Education</td>
<td>1 1</td>
</tr>
<tr>
<td>Psychology X</td>
<td>1</td>
</tr>
<tr>
<td>Mathematics 3A-8B</td>
<td>3 3</td>
</tr>
<tr>
<td>Civil Engineering 1A-1B</td>
<td>5 5</td>
</tr>
<tr>
<td>Physics 1A-1B</td>
<td>3 3</td>
</tr>
<tr>
<td>Mining 5</td>
<td>2</td>
</tr>
<tr>
<td>Civil Engineering 3 (s. a.)</td>
<td>(3)</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>17 18</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SOPHOMORE</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mil. 2A-2B</td>
<td>1 1</td>
</tr>
<tr>
<td>Physical Education</td>
<td>1 1</td>
</tr>
<tr>
<td>Mathematics 4A-4B</td>
<td>3 3</td>
</tr>
<tr>
<td>Physics 4A-4B</td>
<td>3 3</td>
</tr>
<tr>
<td>Mineral. 1A-1B</td>
<td>2 2</td>
</tr>
<tr>
<td>Mineral. 2A</td>
<td>3 3</td>
</tr>
<tr>
<td>Mechanics 2</td>
<td>3</td>
</tr>
<tr>
<td>Geology 1A</td>
<td>3</td>
</tr>
</tbody>
</table>

**MINING**

| Meffallurgy 2 | 3 |
| Mining 1A, 1B | 3 |
| Mechanics 1 | 3 |
| **Total** | 10 10 |

**METALLURGY**

| Chemistry 6A, Metallurgy 2 | 3 3 |
| Mechanics 1 | 3 |
| **Total** | 10 10 |

**ECONOMIC GEOLOGY**

| Chemistry 6A-8B | 3 3 |
| Paleontology 1 | 3 |
| **Total** | 10 10 |

**PETROLEUM ENGINEERING**

| Chemistry 5 | 3 |
| Chemistry 8A | 3 |
| Chemistry 9 | 3 |
| **Total** | 10 10 |

† Southern Branch requirements.
‡ Mechanics D is nearest substitute for Mining 5 offered at the Southern Branch.
** Mining 1A-1B, Metallurgy 2 not offered at the Southern Branch.
H. PRE-CHEMISTRY

Preparation.—Students who propose to enter the College of Chemistry should include in their high school programmes physics (one year); chemistry (one year), mathematics, including trigonometry (three years), German or French (two years), and geometrical drawing (one year). Without this preparation it will be difficult or impossible to complete the required curriculum within four years. It should be noted that the equivalents of high school physics and chemistry are given in the University during the summer sessions only, not during the fall or spring sessions.

Foreign Language Requirement.—A satisfactory reading knowledge of scientific German before the junior year is essential. The student is urged also to acquire a reading knowledge of French.

<table>
<thead>
<tr>
<th>FRESHMAN</th>
<th>Units</th>
<th>SOPHOMORE</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subject A</td>
<td>...</td>
<td>Mil. 2a-2e</td>
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* An examination in Subject A (English Composition) is required of all undergraduate entrants at the time of their first registration in the University.

† Southern Branch requirement.
B. THE TEACHERS COLLEGE

The curricula of the Teachers College are organized on the basis of four years of combined academic and professional work. Each leads to the professional degree of Bachelor of Education. Each also leads to one of the following types of teaching credentials:

1. The General Junior High School Credential, valid in grades 7, 8, and 9 when organized as a junior high school.
2. The Secondary Special Credential of the following types: Arts, Commercial, Home Making (Pre-Vocational), Occupations and Home Mechanics (Pre-Vocational), Music, and Physical Education. These credentials are valid in the high school, junior high school, and elementary school.
3. The Kindergarten-Primary Credential, valid in the kindergarten and grades 1, 2, and 3 of the elementary school.
4. The General Elementary Credential, valid in the eight grades of the elementary school. Opportunity is provided for specialization in one or more of the following fields:
   a. Elementary school administration and supervision.
   b. Departmental work in the various elementary school subjects.
   c. Rural supervision and administration.
   d. Civic education (Americanization).
   e. Adjustment and opportunity room work.
   f. Vocational and part-time education.

In accordance with the provisions of the bill transforming the Los Angeles State Normal School into the Teachers College of the University of California, students may receive either the General Elementary or the Kindergarten-Primary Teaching Credential upon the completion of the first three years of the regular four-year curricula leading to these credentials.* By special arrangement with the department concerned, it is also possible for students to receive the Elementary and Junior High School Special Teaching Credentials upon the completion of the first three years of the regular four-year curricula. Students wishing to avail themselves of this provision should consult the department concerned at the time of registration in order that their courses may be properly arranged. The curriculum pursued should be plainly stated on the registration form and on the study-list.

* Students registering prior to September, 1925, may complete the requirements for these credentials in two and one-half years, as specified in the Announcement for 1924-25.
REQUIREMENTS FOR GRADUATION FROM THE
TEACHERS COLLEGE

Graduation from the Teachers College (with recommendation for certification) is based upon the following conditions and requirements:

I. Admission to regular status in the Teachers College.

II. Completion of a total of 128 units of credit and grade points as specified on page 52.

III. Presentation of a certificate of physical health and fitness from the Southern Branch medical examiners.

IV. Recommendation of the departments in which the principal and secondary sequences of work are taken, and of the responsible authorities as to the student's fitness for teaching.

V. Satisfactory completion of the following sequences of work:

A. General Sequences ........................................ 43-45 units

1. Subject A.
2. Psychology X, 1A, 1B ..................................... 7
3. English (including English 1A) .......................... 6
4. Natural Sciences .......................................... 12

Courses in physical or biological sciences approved by adviser. One course must include laboratory work.

5. Social Sciences:
   Economics 1A .............................................. 3
   Political Science 101 ..................................... 2
   Elective courses in History, Political Science, or
   Economics, approved by adviser .......................... 7
6. Military Science 1AB, 2AB (men) ........................ 6
7. Physical Education (professional courses for women) 4
8. Physical Education. (Required courses for men and women. One-half unit each semester during the freshman and sophomore years) .................. 2

* Although students may enter the Teachers College without credit for elementary algebra and plane geometry, it is impossible to proceed to the degree without credit for both these subjects. No residence instruction is provided by the University in these subjects except in the Summer Session. Similarly, students may enter the Teachers College without credit for two years of one foreign language. Such students will be required to complete as a part of the freshman and sophomore work, one year (10 units) of a foreign language.

† A year course in physics or chemistry completed in the high school will satisfy the laboratory requirement.
B. Departmental Sequences ...........................................43-53 units

Courses chosen from the following departments:


At least 20 units must consist of upper division courses. Of these, the student must elect not less than 8 units in each of two departments, or not less than 5 units in each of three departments. Including upper and lower division courses, at least 12 units must be completed in one department.

C. Professional Courses ................................................32-40 units

1. Required of all students:

   Education 11, 21, or 170 ........................................... 3
   Education 180 ....................................................... 2
   Education 148 ....................................................... 3
   Laboratory practice in teaching .................................... 10

2. Secondary Sequence (14-22 units).

   Professional courses leading to specialization in various fields of education, to be chosen by the student with the approval of his adviser. At least 3 units of advanced educational psychology must be included.

Note.—Specific requirements for the Kindergarten-Primary, General Elementary, and General Junior High School Credentials are listed under the Department of Education; for the various special credentials, under the appropriate departments.
ANNOUNCEMENT OF COURSES

The attention of students is called to the following explanations with regard to the list of courses:

1. Courses are classified as follows:

Lower Division Courses.
Elementary courses which make up the first and second years of the University curriculum. Numbered from 1-99, inclusive.

Upper Division Courses.
An upper division course is an advanced course in a department of study that has been pursued in the lower division, or of elementary work in a subject of such difficulty as to require the maturity of upper division students. Numbered from 100-199, inclusive.

2. A course designated by a double number (i.e., Economics 1A-1B) is continued through two successive half-years. In registering for the course the student will use the first number for its first half-year, and the second number for its second half-year. At the end of each half-year a final report will be made by the instructor. The student may discontinue the course at the end of the first half-year with final credit for the portion completed.

3. The credit value of each course in units is indicated by a numeral in parentheses following the title. A unit of registration is one hour of the student's time at the University, weekly, during one half-year, in lecture or recitation, together with the time necessary in preparation therefor; or a longer time in laboratory or other exercises not requiring preparation.

4. The period during which a course is given is shown as follows: I, first half-year; II, second half-year; Yr., throughout the year.

* The University reserves the right to withdraw or modify these courses, or to change the instructors.
5. Only courses marked "Credit" followed by the capital letter "A" or "B" may be counted toward certification recommendations or degree requirements, as follows:

(A) For the present these courses alone receive full credit toward the degree of Bachelor of Arts or of Science and also (in general) toward the teachers' credentials of the several types, subject in every case to the requirements of the curriculum selected.

(B) Courses which may be counted toward the Bachelor of Education degree in the Teachers College and toward appropriate recommendations for teaching.
Announcement of the Southern Branch

ART.

NELLIE HUNTINGTON GERE, Associate Professor of Fine Arts.
HELEN CLARK CHANDLER, Assistant Professor of Fine Arts.
LOUISE P. SOOY, Assistant Professor of Fine Arts.
ANNA P. BROOKS, A.B., B.S., Assistant Professor of Fine Arts.
BESSIE E. HAZEN, Ed.B., Assistant Professor of Fine Arts.
ANNITA DELANO, Associate in Fine Arts.
BIRDIE KIRK SMITH, Associate in Fine Arts.
ADELAIDE MORRIS, A.M., Associate in Fine Arts.
HELEN I. HOWELL, Associate in Industrial Arts.
OLIVE NEWCOMB, Associate in Industrial Arts.
NATALIE WHITE, B.S., Associate in Industrial Arts.
BELLE H. WHITICE, Associate in Industrial Arts.
BARBARA BROOKS JOHNSON, Associate in Fine Arts.
GAYL HAYES, Associate in Fine Arts.
ISABEL STOCKLAND, Ed.B., Associate in Fine Arts.

A major in Art for the A.B. degree is not offered at the Southern Branch of the University. The requirements in preparation for the major in this department at the University of California in Berkeley are as follows: Art 1A or 1B (3), 4 (2), 6A-6B (4), 14 (2), 19 (1); Architecture 14A; Philosophy 1A-1B or 2A-2B or 4A-4B or 10A-10B.

Courses 1A and 2A are prerequisite to all other courses in the department except 10A, 20A, 20B—8A, 4A, 12A may be taken as parallel to 1A, 2A.

Students who apply for advanced standing or for exemption from required courses in Fine Arts on the basis of previous art study completed at other institutions, must submit sketch-books, designs, drawings or paintings and brief outlines of previous work.

Requirements for the Secondary Special Teaching Credential in Art.—Completion of all requirements for the degree of Bachelor of Education as listed on pages 86–87, including the following specified courses:

(a) Education 148, 170, 180; Psychology 110, Teaching 4–10 units; elective courses in Education to total 24 units.

Laboratory Fees.—The fee required for courses 29A, 29B, 134A, 158A, 158B, 169B is 50 cents; for courses 8A, 8B, 168, 198A, 198B is $1; for courses 19A, 19B, 20A, 20B, 39A, 39B is $2; for courses 154, 164 is $4.50.

Appreciation and History of Art

1A-1B. (1-1) Yr. (Credit A, B) Tu Th, 12. Associate Professor Gere

31A-31B. (1-1) Yr. (Credit A, B) Associate Professor Gere
  a. History of Renaissance Architecture; History of Italian Painting and Sculpture.

161A-161B. (1-1) Yr. (Credit A, B) Associate Professor Gere
  b. American Contributions to Art. European Art Centers.

Art Education

10A. Fine Arts Education. (2) Either half-year, (Credit B) The Staff
  A course in the study of art structure covering problems in design and color theory and harmony with the application to teaching art in the grades.

18. Organization and Administration of Art Education. (2) II.
   (Credit B) Assistant Professor Brooks
   Prerequisite: senior standing.

20A-20B. Fine and Industrial Art Education for Kindergarten-Primary Teachers. (2-2) Yr. (Credit B) Miss Howell, Miss Morris
  a. The development of appreciation of beauty in fine art; the use of the art elements and principles in simple compositions; the application of art principles to kindergarten-primary activities.
  b. The place of fine and industrial arts in kindergarten-primary education; the place of art appreciation in constructive activities; individual and group activities in the study of industrial arts subject matter.

160A-160B. Principles of Art Education. (2-2) Yr. (Credit B)
   Tu, 3, 4; Th, 3. Assistant Professor Brooks

Costume

3. Costume Appreciation. (1) II. (Credit B) Assistant Professor Sooy
   Discussion and demonstration to develop appreciation of costume as a means of art expression. Costume is considered from the standpoint of abstract design, becomingness, suitability, and expressiveness.
Announcement of the Southern Branch

13. Costume Appreciation and Design. (2) II. (Credit B)  
   Assistant Professor Hazen  
   For Home Economics students. Appreciation through study of line, 
   color, and texture in costume with practical application to individuals. 
   Original designing of costumes.

103. History of Costume. (1) II. (Credit B)  Assistant Professor Sood  
   Lantern lectures covering the development of costume from Egyptian, 
   Assyrian, Greek, and Roman periods, through Medieval European, 
   16th, 17th, 18th, and 19th century dress in England, France, and 
   America.

18B-18B. Costume Design. (2-2) Yr. (Credit B)  
   Prerequisite: 32A, 184A. Assistant Professor Sood  
   a. For the drama. In addition to the general beauty of design, 
      the special object of the course is the use of costume as a means of 
      psychological expression.  
   b. Modern costume design. Principles of abstract design applied 
      to dress, subject to technical limitation of material, occasion, changing 
      fashions, etc.

Crafts

8B-8B. Stage Craft. (1-1) I. (Credit B) Th, 9, 10, 11. The Staff  
   a. Working drawings and model sets to scale from given designs. 
      Study of the uses of paint and other materials necessary in the building 
      and painting of stage sets.  
   b. Making costumes for plays, including practice in many decorative processes applied to costume.

9B-9B. Elementary Construction. (2-2) Yr. (Credit B)  
   Miss White, Miss Whittlese  
   a. The aim of this course is to give the elementary teacher a knowledge of the technical processes in working with textiles, paper, 
      wood, clay, and metal which will enable her to make art function in. 
      the everyday life of the child.  
   b. The application of principles governing the handling of binding materials and book construction through the making of boxes, 
      pads and portfolios, and "stabbed" and "cased" books.

19A-19B. Pottery. (2-2) Yr. (Credit B)  Miss Newcomb  
   Prerequisite: 2B.  
   Hand building and glazing—use of potter's wheel, making of molds 
   and casting.

29A-29B. Bookbinding. (2-2) Yr. (Credit B)  Miss Whittlese  
   Prerequisite: 9B.  
   a. Technical bookbinding. Study of the historical development of the craft for background. The binding or re-binding of several 
      books in suitable materials, using various types of sewing and forwarding.  
   b. Advanced bookbinding. This course includes the type of work known as "extra" binding and the "finishing" of books. Books 
      bound in Art 29A may be "finished" in 29B.
39A–39B. Weaving. (2–2) Yr. (Credit B) Miss White
The course includes a study of the Colonial type of weaving on four harness looms; also tapestry weaving and Egyptian card weaving.

49. Basketry. (2) I. (Credit B) Miss White
Includes the use of basketry materials in braided, knotted, and woven work; also the designing and making of sewed and woven baskets.

69A–69B. Leather. (2–2) Yr. (Credit B) Miss White
A. Includes the designing and making of card-cases, purses, billfolds, magazine and book covers, and similar articles of simple construction, in hand-tooled, hand-dyed calf skin.
B. Leather craft. Includes the designing and making of bags, brief-cases, vanity-cases and other articles, requiring more difficult types of construction than the work done in Art 69A. Morocco, seal, and other leathers used.

79. Metal. (2) II. (Credit B) Miss White
Elementary course. The designing and making of simple articles, using the processes of raising, riveting, soldering, saw-piercing, etching, repousse, stone-setting, and chain-making.

119. Advanced Pottery. (2) II. (Credit B) Miss Newcomb
Study of glazes—stacking kiln and firing. Prerequisite: 19B.

158A–158B. Textile Decoration. (1–2) Yr. (Credit B) Miss Delano, Miss White
Prerequisite: 8B, 32A.
A. This course covers the processes of dyeing and of decorating textiles by means of stick printing, wood and linoleum block printing.
B. Designing and execution of decorative wall hangings, covers and scarfs, using the processes of tye dying and batik.

168. Stage Craft. (1) I. (Credit B) Assistant Professor Sooy
Th, 9, 10, 11. Prerequisite: 8B, 32B, 156A.
Principles of art applied to the stage. Technical knowledge necessary to produce pantomimes, pageants, and plays.

198A–198B. Clay Modeling. (1–1) Yr. (Credit B) Miss Newcomb
S, 9, 10, 11. Prerequisite: 134A.

Design

2A–2B. Art Structure. (2–2) Yr. (Credit A, B) The Staff
A. Fundamental course upon which all other courses are based. Elements and principles of art. Abstract forms. Color theory and harmony.
B. Course in composition of natural forms.
12A–12B. Lettering. (1–2) Yr. (Credit A, B) Mrs. Smith
A. Study of and appreciation for lettering as a part of the subject of design. Includes exercises in the underlying principles of lettering for freedom and originality of expression.
B. Lettering. Quick and accurate writing for commercial uses.

32A–32B. Art Structure. (2–2) Yr. (Credit A, B)
Prerequisite: Art 1B, 2B, 4B. Miss Delano, Miss White
A. Imaginative design. Originality and power in designing developed through experience with imaginative motifs and fundamental design structure.
B. Industrial design. Design for specific crafts, including pottery, metal, leather, and weaving, etc.

152A–152B. Art Structure. (2–2) Yr. (Credit A, B) Miss Delano
Prerequisite: 32B, 134A, 135A.
A. Advanced composition.
B. Advanced industrial design. Design for ceramics, wrought iron, and jewelry.

Drawing and Painting

A. Elementary Freehand Drawing. (0) L The Staff
Study of proportion; subordination and unity; rapid sketching; drawing from memory.

4A–4B. Advanced Freehand Drawing. (2–2) Yr. (Credit A, B) Assistant Professor Chandler, Mrs. Smith
A. Principles of perspective and the development of feeling for fine quality in line and mass drawing of still-life, buildings, interiors, and furniture.
B. A course in representative painting and the study of the technique of water color.

134A–134B. Advanced Drawing and Painting. (2–2) Yr. (Credit A, B) Assistant Professor Chandler
A. Imaginative figure drawing in preparation for illustration and costume design. The construction of figures through a strong realization of volume. A study of the expression of character.
B. A study of various types of pen rendering. Architectural forms, figures, landscape, etc.

154. Life Class. (2) II. (Credit B) Mrs. Smith
Development of feeling for character and action of the figure. Details of hands, feet, shoulder movements, etc., will be studied as necessary facts subordinate to sure and free interpretation.

164. Life Class. (2) II. (Credit B) Mrs. Smith
Advanced drawing and painting from the figure, including the study of anatomy.
Announcement of Courses

House Design and Decoration

16A–16B. (1–1) Yr. (Credit B)  
Associate Professor GERE, Assistant Professor HAZEN  
A. House and garden design. Study of the placing of the house with regard to its surroundings, floor plans, and house and room elevations.  
B. House furnishing. History of furniture. Appreciation of interior furnishings and their arrangement. Visits to shops and talks by specialists who show rugs, furniture, drapery, china, etc.

156A–156B. Interior Decoration. (2–2) Yr. (Credit B)  
Prerequisite: 2B, 4B, 16B.  
A. Original designs for furniture. Study of period, peasant, and modern designs with regard to their suitability to the modern home.  
B. Interior decoration. Original designs and arrangements of furniture and furnishings in various rooms. Designs carried out in black and white and color suitable for commercial advertising. Emphasis on balanced dark and light compositions.

186A–186B. Interior Decoration. (2–2) Yr. (Credit B)  
Prerequisite: 156B.  
Assistant Professor Sooy  
Designing of groups of period furniture, original design for complete rooms, elevations, and perspectives in color.

Illustration

135A–135B. Book Illustration. (2–2) Yr. (Credit B)  
Prerequisite: 32A, 134A.  
Assistant Professor CHANDLER  
Illustrations of fables, legends, and imaginative tales. Beginning with simple, spontaneous expression and leading to a more carefully planned composition with emphasis on the interpretation of characters and on a consistent mood.

165A–165B. Commercial Illustration. (2–2) Yr. (Credit B)  
Prerequisite: 134A.  
Assistant Professor Sooy  
A course for commercial artists. Fundamentally a course in composition, plus the technical requirements of advertising, and the psychology of selling.

175. Advanced Illustration including Wall Decorations. (2) II (Credit B)  
Prerequisite: 135A–135B.  
Assistant Professor CHANDLER

Landscape

137A–137B. Sketching. (1–2) Yr. (Credit B)  
The STAFF  
Prerequisite: 2B, 4B.  
A. Sketching. Study of landscape forms and their composition expressed in simple technique suitable for elementary and secondary teaching.  
B. Landscape composition. Charcoal and wash drawings.

177A–177B. Water-color and Oil Painting. (2–2) Yr. (Credit B)  
Prerequisite: 137B.  
Assistant Professor CHANDLER
BIOLOGY

LOYE HOLMES MILLER, Ph.D., Professor of Biology.
BENNET MILES ALLEN, Ph.D., Professor of Zoology.
FRANK E. OLDER, B.S., Assistant Professor of Agricultural Teaching.
O. L. SPONSLE, Ph.D., Assistant Professor of Botany.
A. W. BELLAMY, Ph.D., Assistant Professor of Zoology.
SARAH ROGER ATSATT, M.S., Instructor in Biology.
CARL EPLING, Ph.D., Instructor in Botany.
GORDON H. BALL, Ph.D., Instructor in Zoology.
PAULINE KIMBALL, Ph.D., Instructor in Biology.
A. W. HAUP, Ph.D., Instructor in Botany.
J. MURRAY SCOTT, Ph.D., Instructor in Botany.
O. A. PLUNKETT, Ph.D., Instructor in Botany.
RUTH G. PERSONS, A.B., Associate in Zoology.
MARGARET D. THOMPSON, A.B., Assistant in Zoology.

Preparation for the Major.—At the Southern Branch of the University a student may major in botany or in zoology. Those wishing to major in other phases of the work included in this department are referred to the Announcement of the colleges at Berkeley, or to the departmental adviser for personal conference. Students in the Teachers College looking toward the special teaching of nature study will be advised individually. Preparation for the major in botany requires Botany 2A (or Biology 1) 2B, 6, 7, and high school chemistry or its equivalent, taken previous to 7 or during the same semester. Preparation for the major in zoology requires Zoology 1A (or Biology 1), 1B, and high school chemistry or Chemistry 1A. French and German are recommended.

The Major in Botany.—Of the 24 units of upper division work required, 15 units should consist of Botany 104A, 104B, 105A, 105B, and 111, and the remaining 9 units of other courses in botany or from related courses in bacteriology, chemistry, geology, geography, paleontology, physiology, and zoology, to be chosen with the approval of the department.

The Major in Zoology.—Eighteen units of upper division work in zoology and six units chosen from zoology or from related courses in bacteriology, biochemistry, botany, entomology, genetics, microscopic anatomy, paleontology, physiology, psychology, or physical chemistry.

Laboratory Fees.—The fee for Zoology 35 is $2; for Physiology 1, 10, is $2.50; for Zoology 1A, 1B, 4, 100, 103, 105, 106, 107c, 111c, 112, 113, is $3. The student will, in addition, be held responsible for all apparatus lost or broken.
Announcement of Courses

AGRICULTURE

1. General Horticulture. (3) II. (Credit A, B)
   Assistant Professor Older
   Lectures, three hours; laboratory, two hours.
   A general view of horticulture, with special attention to plant propagation, vegetable gardening, and fruit growing.

AGRICULTURAL EDUCATION

10. Elements of Agriculture. (3) Either half-year. (Credit B)
   Assistant Professor Older
   Lectures, three hours; laboratory, two hours.
   Designed for students preparing to teach in primary and elementary grades.
   A study of the fundamental principles of agriculture and practice in garden, lath house, and laboratory.

15. Advanced Agriculture and School Gardening. (3) II. (Credit B)
   Prerequisite: Agriculture 10.
   Assistant Professor Older

BIOLOGY

1. General Biology. (3) Either half-year. (Credit A, B) The Staff
   Lectures, two hours; quiz, one hour; demonstration, one hour; four required field trips.
   No prerequisites although chemistry is recommended.
   Important principles of biology illustrated by studies of structure and activities of living organisms, both plants and animals.

BOTANY

LOWER DIVISION COURSES

2A–2B. General Botany. (4–4) Yr. (Credit A, B) Dr. Haupt
   Tu Th, 1. Two lectures and six hours laboratory.
   An introductory course emphasizing the structure, functions, and life relations of the seed plants.

6. Plant Histology. (3) I. (Credit A, B) Dr. Haupt
   Lecture, one hour; laboratory, six hours. Prerequisite: Botany 2A–2B.
   The microscopic structure of the higher plants with particular reference to the development and differentiation of vegetable tissues.
7. Plant Physiology. (3) II. (Credit A) Assistant Professor SPONSLE.
Lecture, one hour; laboratory, six hours.
Prerequisite: Botany 2A-2B, 6, and chemistry.
A study of experimental work designed to demonstrate various activities of the plant, including photosynthesis, respiration, growth, and reproduction.

**UPPER DIVISION COURSES**

104A-104B. Taxonomy of the Seed Plants. (3-3) Yr. (Credit A, B)
Dr. EPLING
Lecture, one hour; laboratory, six hours, and additional field work to be arranged. Prerequisite: Botany 2A-2B.
A survey of the chief orders and families of the seed plants involving a study of the principles of phylogenetic classification and geographical distribution. Designed for botany majors, teachers of nature study, and students in the College of Agriculture.

105A-105B. General Morphology of Cryptogams. (3-3). (Credit A)
Dr. EPLING, Dr. HAUPT
Lecture, one hour; laboratory, six hours; occasional field trips.
Prerequisite: Botany 2A-2B.
A study of the structure, development, and phylogenetic relationships of the principal orders of algae, fungi, mosses, and ferns.

111. Plant Cytology. (3) II. (Credit A)
Dr. HAUPT
Lecture, one hour; laboratory, six hours.
Prerequisite: Botany 6, 105A-105B.
Anatomy and physiology of the cell.

**PALEONTOLOGY**

(See also under Geology)

1. General Paleontology. (2) I. (Credit A, B) Professor MILLER
Tu Th, 10.
Lectures, quizzes, and three required Saturdays in the field.
A discussion of the general principles of paleontology, the influences that surrounded the ancient life of the earth, and some of the ways in which animals respond to such influences.

1c. General Paleontology. (1) I. (Credit A, B) Professor MILLER
W, 2-5.
A laboratory period intended to supplement the general lectures and offer the student a contact with the materials discussed. May be taken only concurrently or subsequent to Paleontology 1. Limited to thirty students.
PHYSIOLOGY

1. General Human Physiology. (3) L (Credit A, B) Dr. KIMBALL
   Lectures, two hours; laboratory, three hours.
   Prerequisite: Chemistry 2A–2B.

10. Physiology and Personal Hygiene. (3) II. (Credit B) Dr. KIMBALL
   Lectures, two hours; laboratory, three hours.
   Designed for those who plan to teach in the grade schools.

ZOOLOGY

LOWER DIVISION COURSES

1A–1B. General Zoology. (5–5) Yr. (Credit A, B) Dr. BALL
   Lectures, Tu Th, 11.
   Lectures, two hours; quiz, one hour; laboratory, six hours; one
   required field trip.

4. Microscopical Technique. (2) II. (Credit A) Miss PERSONS
   Laboratory, six hours; assigned readings.
   Prerequisite: Zoology 1A and high school chemistry.
   The preparation of animal tissues for microscopical examination.

12. Nature Study. (3) Either half-year. (Credit B)
   M W F, 9, 11.
   Professor MILLER, Miss ATSATT
   Lectures, readings, reports on materials and methods, and one
   demonstration hour. Two Saturdays in the field.

35. General Human Anatomy. (5) II. (Credit A, B) Dr. KIMBALL
   Lectures, three hours; laboratory, six hours.
   Prerequisite: sophomore standing; Zoology 1A or Biology 1; and
   Physiology 1.

UPPER DIVISION COURSES

100. Genetics. (4) II. (Credit A, B) Assistant Professor BELLAMY
   Lectures, two hours; seminar, one hour; laboratory, six hours.
   Prerequisite: Zoology 1B or Botany 2B or equivalent and junior
   standing.
   The student is given an opportunity to become familiar with the
   principles of heredity and research methods in genetics.

103A. Experimental Zoology. (2) II. (Credit A, B) Professor ALLEN
   Laboratory hours by arrangement. Prerequisite: Zoology 1A–1B.

103B. Experimental Zoology. (2) I. (Credit A, B) Professor ALLEN
   Laboratory hours by arrangement. Prerequisite: Zoology 1A–1B.
105. Advanced Vertebrate Embryology. (3) I. (Credit A, B) Professor Allen
Lectures, one hour; laboratory, six hours.
Prerequisite: Zoology 1A and either 1B or 35, and junior standing.

(Credit A, B) Assistant Professor Bellamy
Lectures, two hours; laboratory, six hours.
Prerequisite: Zoology 1A-1B and junior standing.
A study of the structural relationships of the higher vertebrates.
Dissection of the reptile, bird, and mammal.

107. Cytology. (2) II. (Credit A) Professor Allen
Lectures, readings, and reports on special topics.
The structure and activities of the cell, especially in development,
in sex determination, and in heredity.

107c. Cytology Laboratory. (2) II. (Credit A) Professor Allen
May be taken only concurrently with course 107.

111. Parasitology. (2) I. (Credit A) Dr. Ball
Prerequisite: Zoology 1A.
General discussion of the biological aspects of parasitism and of the animal parasites of man and the domestic animals.

111c. Parasitology Laboratory. (2) I. (Credit A) Dr. Ball
Laboratory work accompanying Zoology 111.
Prerequisite: Zoology 111, or may be taken concurrently with course 111.

112. Advanced Invertebrate Zoology. (4) II (Credit A, B) Dr. Ball
Lectures, two hours; laboratory and field, six hours.
Prerequisite: Zoology 1A; Zoology 1B recommended.
Morphology, habits, habitats, and life histories of both marine and fresh water invertebrates, with especial reference to local faunas.

113. Zoology of the Higher Vertebrates. (4) II. (Credit A, B) Professor Miller
Lectures, two hours; laboratory and field, six hours.
Prerequisite: Zoology 1A-1B.
Emphasis will be placed on the habits, distribution, and ecology of reptile, bird, and mammal faunas of California.
Announcement of Courses

CHEMISTRY

WILLIAM CONGER MORGAN, Ph.D., Professor of Chemistry.
WILLIAM R. CROWELL, Ph.D., Assistant Professor of Chemistry.
G. ROSS ROBERTSON, Ph.D., Assistant Professor of Organic Chemistry.
HOSMER W. STONE, Ph.D., Assistant Professor of Inorganic Chemistry.
MAX S. DUNN, Ph.D., Assistant Professor of Biochemistry.
RUSSELL W. MILLAR, Ph.D., Assistant Professor of Physical Chemistry.
JAMES B. RAMSEY, Ph.D., Instructor in Chemistry.

Major in the College of Letters and Science. (a) Preparation in the Lower Division.—The minimum requirement is Chemistry 1A–1B (10), which must be passed with a grade of C or better before any further work in chemistry is taken; Physics 2A–2B or 1A–1B (6); trigonometry, Mathematics 3A–3B (6), and a reading knowledge of German. The student is recommended to take a second course in chemistry in the lower division and additional work in physics (4A–4B) and in mathematics (4A–4B) either in the lower division or in the upper division. The department will decide whether a student will be permitted to make chemistry his major on the basis of the student’s record in the lower division. (b) Upper Division.—All units in chemistry in excess of fourteen are counted as upper division units when taken in the upper division. The minimum requirement for the major is: quantitative analysis 6A–6B (6), organic chemistry 8 and 9 (6), physical chemistry 110 (3), 111 (4), advanced inorganic chemistry 120 (5). The remainder of the twenty-four required upper division units may be taken in chemistry or allied subjects in accordance with some definite plan approved by the Chemistry Department. A student whose work in the major subject does not average C or better will be required to withdraw from the department.

Pre-Chemistry Curriculum.—The Southern Branch offers only the first two years, in preparation for admission to the College of Chemistry in the University at Berkeley, toward the Bachelor of Science degree in chemistry. Students intending to pursue their studies in the College of Chemistry at Berkeley should consult with the Chairman of this Department before making out their study-list programme.

Laboratory Fees—

<table>
<thead>
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<th>Courses</th>
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<td>2A, 2B</td>
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<tr>
<td>9</td>
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1A-1B. General Chemistry. (5-5) Yr. (Credit A, B)

   Professor Morgan, Dr. Ramsay and the Staff
Lectures: M W F, 10 (for those beginning in September); Tu Th S, 10 (for those beginning in January).
Both halves given each half-year.
Lectures or recitations, three hours; laboratory, six hours.
Prerequisite: high school chemistry, or physics and trigonometry.
Required for Colleges of Engineering, Chemistry, Agriculture, and of premedical and predental students and chemistry majors.

2A-2B. General Chemistry. (4-4) Yr. (Credit A, B)

   Assistant Professors Stone, Dunn and the Staff
Lectures: M W F, 11. Both halves given each half-year.
Lectures or recitations, three hours; laboratory, three hours,
No prerequisite; high school chemistry recommended.
This course (or 1A-1B) is required of all home economics and physical education majors, and should be elected by students desiring chemistry as a part of a liberal education.

5. Quantitative Analysis. (3) Either half-year. (Credit A, B)
   Lecture, Th, 11.  Assistant Professor Crowell
Prerequisite: Chemistry 1A-1B.
A course in gravimetric and volumetric analysis, shorter than 6A-6B. Required of petroleum engineers and of sanitary and municipal engineers.

6A-6B. Quantitative Analysis. (3-3) Yr. (Credit A, B)
   Lecture, Tu, 11.  Assistant Professor Crowell
Prerequisite: Chemistry 1A-1B.
Required of economic geologists, chemistry majors, and College of Chemistry students. 6A is required of metallurgy students.

8A-8B. Elementary Organic Lectures. (3-3) Yr. (Credit A, B)
   M W F, 9.  Professor Morgan, Assistant Professor Robertson
Prerequisite: Chemistry 1A-1B, or 2A-2B.
The first half of this course is required of premedical and predental students, sanitary and municipal engineers, petroleum engineers, chemistry majors, and College of Chemistry students.

9. Elementary Organic Laboratory. (3) II. (Credit A, B)
   Prerequisite: Chemistry 8A.  Assistant Professor Robertson
Required of petroleum engineers, premedical and predental students, chemistry majors, and College of Chemistry students.

10. Organic and Food Chemistry. (4) I. (Credit B)
   M W F, 8.  Assistant Professor Robertson
Lectures or recitations, three hours; laboratory, three hours.
Prerequisite: Chemistry 1A-1B, or 2A-2B.
Required of home economics majors.
UPPER DIVISION COURSES

107A–107B. Biological Chemistry. (3–3) Yr. (Credit A, B)
  Assistant Professor Dunn
  Lectures or recitations, two hours; laboratory, three hours.
  Prerequisite: Chemistry 8A and 9.

110. Physical Chemistry. (3) I. (Credit A, B) M W F, 10.
  Assistant Professor Millar
  Prerequisite: Chemistry 5 or 6A; Physics 1A–1B or 2A–2B.
  Required of chemistry majors, College of Chemistry students, and
  for all later work in physical chemistry.
  Lectures and problems.

110B. Advanced Physical Chemistry. (3) II. (Credit A, B)
  Assistant Professor Millar
  Prerequisite: Chemistry 110.
  A continuation of course 110.

111. Physical Chemistry—Laboratory. (4) II. (Credit A, B)
  Assistant Professor Millar
  Prerequisite: Chemistry 110 and calculus.
  Required of chemistry majors.
  Physico-chemical problems and measurements.

120. Advanced Inorganic Chemistry. (3) I. (Credit A, B) Dr. Ramsey
  Prerequisite: Chemistry 6A–6B and 110.
  Required of chemistry majors.
  Preparation and experimental study of substances, designed prima-
  rily to illustrate the factors which influence equilibrium and the speed
  of chemical reactions. Correlation of material by means of the
  periodic system.
CLASSICAL LANGUAGES

EDWIN MOORE RANKIN, Ph.D., Associate Professor of Greek.

ARTHUR PATCH MCKINLAY, Ph.D., Assistant Professor of Latin (Chairman of the Department).

WILLIAM F. SMITH, Ph.D., Instructor in Latin and Greek.

LATIN

Preparation for the Major.—Required: 18 units of Latin, which may be distributed as either 6, 9, or 12 units in the high school, or 12, 9, or 6 in college.

Recommended: as much work as may be possible in Greek, ancient history, French, or German.

The Major.—The requirements for the major will be met by the completion of the following curriculum, plus 6 units of approved courses in upper division Greek, English, French, German, Spanish, philosophy, ancient or medieval history.

LOWER DIVISION COURSES

C. Third Year Latin: Ciceronian Prose. (3) II. (Credit A, B) M W F, 11. Assistant Professor MCKINLAY

D. Fourth Year Latin: Augustan Poetry. (3) I. (Credit A, B) M W F, 11. Assistant Professor MCKINLAY

Open to those who have had two years of high school Latin.

1. Cicero: De Senectute; Pliny: Letters. (3) I. (Credit A, B) M W F, 12. Assistant Professor MCKINLAY

Open to those who have had four years of high school Latin.

3A-3B. Latin Prose Composition. (1-1) Yr. (Credit A, B) Dr. SMITH Tu, 1.

Prerequisite: Three or four years of high school Latin.

5. Horace: Odes and Epodes. (3) II. (Credit A, B) M W F, 12. Assistant Professor MCKINLAY

This course follows Latin 1.
UPPER DIVISION COURSES

Latin 102, and 106 are prerequisite to Latin 117, 120, 125, and 191.

102. Catullus and Livy. (3) I. (Credit A, B) M W F, 10. Dr. SMITH
Prerequisite: Latin 5.

104A-104B. Latin Composition. (1-1) Yr. (Credit A, B) Dr. SMITH
Tu, 10. Prerequisite: Latin 3A-3B.

106. Tacitus and Plautus. (3) II. (Credit A, B) M W F, 10.
Prerequisite: Latin 102.

117. Vergil: Georgics. (3) II. (Credit A, B)
M W F, 2. Associate Professor RANKIN

120. Martial and Juvenal. (3) I. (Credit A, B)
M W F, 2. Assistant Professor MCKINLAY

125. Lucretius. (3) I. (Credit A, B) Assistant Professor MCKINLAY

191. Cicero: Letters. (3) II. (Credit A, B) Assistant Professor MCKINLAY

GREEK

A major in Greek for the A.B. degree is not offered at the Southern Branch of the University. The requirements in preparation for the major in this department in the University of California at Berkeley are as follows:

Required: either courses 1A–1B (or 1AB), 2A–2B (or 2AB), and 3A–3B (12-14 units); or matriculation subject 5a, course 5A–5B, or equivalent, and either 101 or 102 (14 units).

Recommended: matriculation subject 4b (Ancient History); Latin 1 and 5; Philosophy 4A–4B or 10A–10B; General Literature 1A–1B.

LOWER DIVISION COURSES

1AB–2AB. Greek for Beginners, Attic Prose and Homer. (5-5) Yr.
(Credit A, B) M Tu W Th F, 9. Dr. SMITH

3A–3B. Prose Composition. (1-1) Yr. (Credit A, B) Th, 1.
Associate Professor RANKIN

* Latin 120 and 117 and Latin 125 and 191 are given in alternate years, Latin 117 and 120 being offered in 1925–26.
† 104A–104B will not be given in 1926–27.
101. Introduction to Plato. (3) I. (Credit A, B)  
M W F, 9.  
Associate Professor RANKIN

102. Greek Poetry. (3) II. (Credit A, B)  
M W F, 9.  
Associate Professor RANKIN  
Prerequisite: Greek 101.

*103. Greek Drama: Euripides and Aristophanes. (3) I. (Credit A, B)  
M W F, 12.  
Associate Professor RANKIN  
Prerequisite: Greek 101, 102.

*104. Historical Prose: Herodotus or Thucydides. (3) II. (Credit A, B)  
M W F, 12.  
Associate Professor RANKIN  
Prerequisite: Greek 101, 102.

*105. Greek Drama: Aeschylus and Sophocles. (3) I. (Credit A, B)  
M W F, 12.  
Associate Professor RANKIN  
Prerequisite: Greek 101, 102.

*106. The Greek Pastoral: Theocritus, Bion and Moschus. (3) II.  
(Credit A, B)  M W F, 12.  
Associate Professor RANKIN  
Prerequisite: Greek 101, 102.

ANCIENT CIVILIZATIONS†

112A. Greece to the Fall of Corinth. (3) I. (Credit A, B)  
M W F, 10.  
Associate Professor RANKIN

112B. Rome to the Death of Justinian. (3) II. (Credit A, B)  
M W F, 10.  
Assistant Professor MCKINLAY

* Greek 103 and Greek 104 will ordinarily be given in alternation with Greek 105 and Greek 106, respectively. Greek 105 and Greek 106 will be offered in 1925-26.

† Knowledge of Greek or Latin not required.
ECONOMICS

GORDON S. WATKINS, Ph.D., Professor of Economics.
HOWARD S. NOBLE, M.B.A., C.P.A., Associate Professor of Accounting
(Chairman of the Department).
EARL J. MILLER, Ph.D., Assistant Professor of Economics and Dean of Men.
IRA N. FRISBEE, M.B.A., C.P.A., Assistant Professor of Accounting.
JOHN B. BIGGLEMAN, M.B.A., Assistant Professor of Economics.
ROY T. CULEY, M.S., Associate in Economics and Accounting.
WARREN T. McGRATH, A.B., Associate in Economics.
COLLIE C. HILL, A.B., Associate in Economics.
EVA M. ALLEN, Associate in Commercial Practice.
ESTELLA B. PLOUGH, Associate in Commercial Practice.

HERMAN HILMER, Ph.D., Lecturer in Economics.

Preparation for the Major.—Required: Economics 1A–1B, and at least one of the following: Political Science 1A–1B, History 4A–4B, History 8A–8B, or Philosophy 1A–1B.

The Major.—Required: 24 upper division units in economics including courses 100 and 140; or 18 upper division units in economics including courses 100 and 140, and 6 upper division units in history, political science, philosophy, or geography, the programme to be approved by a departmental adviser.

Requirements for the Secondary Special Teaching Credential in Commerce:

(a) Education 148, 170, 180; Psychology 110; Teaching, 4–10 units; elective courses in Education to total 24 units.


(c) Jurisprudence 18A, 18B; Mathematics 18.

Fees.—Commerce A, $6; Commerce B, $5; Commerce 16, $2.50.

LOWER DIVISION COURSES

1A–1B. Principles of Economics. (3–3) Yr. (Credit A, B)
Lectures: Tu Th, 9 and 1 hour quiz; Tu Th, 11 and 1 hour quiz.

14A–14B. Principles of Accounting. (3–3) Yr. (Credit A, B)
Lectures: Tu Th, 10 and 2 hours laboratory; Tu Th, 11 and 2 hours laboratory.
Announcement of the Southern Branch

Upper Division Courses

Economics 1A–1B is a prerequisite to all upper division courses in economics.

100. Advanced Economic Theory. (2) Either half-year. (Credit A)  
Dr. Hilmer  
An advanced study of the principles of demand and supply, including costs: of the functions of the different grades of production; of wages, interest, rent and profits; and of the means for the promotion of welfare. Recommended as a course for seniors.

101. History of Economic Doctrine. (2) Either half-year. (Credit A)  
Dr. Hilmer  
It is recommended that seniors take this course following Economics 100.

106. Social Reform. (3) Either half-year. (Credit A)  
Professor Watkins  
A critical examination of the nature of the leading proposals for economic reform with the historical background.

121A–121B. Business Organization and Administration. (3–3) Yr.  
(Credit A, B)  
Associate Professor Noble  
Prerequisite: course 14A–14B.  
A study of different types of ownership with emphasis on the corporate organization; internal organization, including departmentalization; and correlation of functions and activities of departments of marketing, production, personnel, finance, and accounting.

123. Principles of Marketing. (3) Either half-year. (Credit A, B)  
Assistant Professor Rigglesman  
Channels of distribution; functions of middlemen; selling policies; creation of markets; distribution costs; price maintenance.

131. Public Finance. (2) II. (Credit A)  
Dr. Hilmer  
Collection and disbursement of revenue by federal, state, and local governments. Taxation problems.

133. Corporation Finance. (3) I. (Credit A)  
Dr. Hilmer  
Prerequisite: course 14A–14B.  
A study of the instruments and methods of financing a corporation with reference primarily to the effect on the corporation and the stockholders.

135. Money and Banking. (3) Either half-year. (Credit A, B)  
Prerequisite: course 14A–14B.  
Dr. Hilmer  
Origin and history of money and of credit institutions; commercial banking and banking technique; social aspect of money and credit organization.
140. Elementary Statistics. (4) Either half-year. (Credit A)
Assistant Professors FRISBEE, RIGGLEMAN
Tu Th, 9 and laboratory periods.
Sources of statistical data; construction of tables, charts, and graphs; study of statistical methods: averages, measures of deviation, index numbers, secular trend, seasonal variation, correlation.

150. Labor Economics. (3) Either half-year. (Credit A)
Professor WATKINS
Social background of labor legislation; trade unionism; labor administration; personnel problems.

160A–160B. Advanced Accounting. (3–3) Yr. (Credit A, B)
Associate Professor NOBLE, Assistant Professor FRISBEE
Prerequisite: course 14A–14B.
The first semester will emphasize accounting practice and problems; the second semester will cover subjects in advanced theory.

*161. Cost Accounting. (3) I. (Credit A, B) Associate Professor NOBLE
Prerequisite: course 14A–14B.

*162. Auditing. (3) II. (Credit A, B) Assistant Professor FRISBEE
Prerequisite: course 14A–14B.

COMMERCE
(Teachers College)

A. Typing. (No credit) Tu Th, 10. Mrs. ALLEN
B. Shorthand. (No credit) M W F, 10. Mrs. ALLEN

16. Typing. (2) Either half-year. (Credit B) Tu Th, 2. Mrs. ALLEN
Prerequisite: course A or its equivalent.

17. Shorthand. (3) II. (Credit B) M W F, 10. Mrs. ALLEN
Prerequisite: course B or its equivalent.

18A–18B. Penmanship. (2–2) Yr. (Credit B) Mrs. PLOUGH
Tu Th, 10, 1, 2.

*198. Business Education. (3) II. (Credit B) Associate Professor NOBLE and the STAFF

* Not to be given, 1925–26.
EDUCATION

ERNEST CARROLL MOORE, Ph.D., LL.D., Professor of Education and Director of the Southern Branch.

CHARLES WILKIN WADDELL, Ph.D., Professor of Education and Director of the Training Schools.

JUNIUS L. MERIAM, Ph.D., Professor of Education.

MARVIN L. DABIES, Ph.D., Associate Professor of Education and Dean of the Teachers College.

FREDERICK P. WEILNER, Ph.D., Associate Professor of Education.

KATHERINE L. MCLAUGHLIN, M.A., Associate Professor of Primary Education.

ETHEL I. SALISBURY, M.A., Associate Professor of Elementary Education.

HARVY L. EBY, Ph.D., Associate Professor of Rural Education.

J. HAROLD WILLIAMS, Ph.D., Associate Professor of Education.

WILLIAM A. SMITH, Ph.D., Assistant Professor of Education (Chairman of the Department).

CLARENCE HALL ROBISON, Ph.D., Assistant Professor of Education and University Examiner.

BENJAMIN W. JOHNSON, Lecturer in Education and Assistant Director of Vocational Education and Supervisor of Classes for the Training of Trade and Industrial Teachers.

L. B. TRAVERS, Instructor in Education and Assistant Supervisor of Classes for the Training of Trade and Industrial Teachers.

HELEN M. CHRISTENSEN, M.A., Associate in Primary Education.

JOHN ADAMS, B.Sc., LL.D., F.C.P., Lecturer in Education (Professor of Education, University of London).

LEWIS A. MAVERICK, Ed.D., Lecturer in Education and Recorder.

A major in education for the A.B. degree is not offered at the Southern Branch of the University. The requirements in preparation for the major in this department at the University of California in Berkeley are as follows: Psychology 1A and Zoology 10 or Zoology 104 (prerequisite Zoology 1A or 10) and not less than six units in one of the following fields: economics (preferably 1A-1B), philosophy (preferably 1A-1B or 2A-2B), political science (preferably 1A, 1B), social institutions (preferably 121A-121B).

The requirements for the general teaching credentials are as follows:

† In residence second half-year only.

‡ In residence first half-year only.
Announcement of Courses

I. KINDERGARTEN-PRIMARY CREDENTIAL

1. Examination in piano. An examination in piano is required of all entrants upon enrollment in this curriculum. Before assignment to practice teaching is made the student must show ability to play music suitable for use with young children. This includes song accompaniments, such as those in "Songs for the Little Child," by Kohlsaat and Baker, and music for rhythmic interpretation of the type in "Robinson's School Rhythms."

2. Completion of 96 units of university credit (with corresponding grade points) including:
   (a) General sequence requirements listed on page 86.
   (b) Education 124A, 124B, 132, 148, 180; Psychology 119; Teaching, 10 units*; special teachers' courses approved by advisers, 6 units.
   (c) Electives to total 96 units.

II. GENERAL ELEMENTARY CREDENTIAL

1. Examination M. All candidates are required to pass an examination in the fundamental arithmetical operations, including addition, subtraction, multiplication, and division of integers, fractions, and decimals. Students falling below reasonable standards of proficiency must take Mathematics 17 without credit as a prerequisite to Mathematics 19.

2. Completion of 96 units of university credit (with corresponding grade points), including:
   (a) General sequence requirements listed on page 86.
   (b) Mathematics 19, Geography 1.
   (c) Education 130A, 130B, 132, 148, 180; Psychology 110 or 119; Teaching, 10 units*; special teachers' courses approved by advisers, 6 units.
   (d) Electives to total 96 units.

III. GENERAL JUNIOR HIGH SCHOOL CREDENTIAL

Completion of all requirements for the degree of Bachelor of Education as listed on pages 86-87. The following courses must be included: Education 170, 172, Psychology 110 or an approved equivalent, special teachers' courses, 4 units.

Junior standing is a prerequisite to all courses in education except Education 11 and 21.

11. Principles of Teaching. (3) Either half-year. (Credit B)

   Assistant Professor Robison and the Staff

   Tu Th 8, 10; M W F, 11. Prerequisite: Psychology 1A or 2.

   *Application for teaching assignments should be made during the fourth semester by all students qualifying for a three-year credential, and not later than the end of the third year by students completing the regular four-year course.
Announcement of the Southern Branch

21. Introduction to Kindergarten Primary Education. (3) I. (Credit B)  
Tu Th S, 9, 10; M W F, 9.  
Miss Christensen  
Educational needs of early childhood; physical and mental characteristics of varying age levels; work, play, and activities in learning; individual differences.

101. History of Education. (3) II. (Credit A, B)  
Associate Professor Darsie

102. Recent Developments in Educational Practice. (3) I. (Credit A, B)  
M W F, 4.  
Professor Adams

115. Growth and Development of the Child. (2) I. (Credit B)  
Prerequisite: Psychology 1A, 1B.  
Associate Professor Williams  
Essential facts of growth. Hygiene of growth, physical and mental.

120. The Bases of Educational Theory. (3) I. (Credit A, B)  
M W F, 10.  
Professor Adams

124A-124B. Kindergarten-Primary Curricula and Methods. (3-3).  
(Credit B)  
M W F, 9, 10.  
Associate Professor McLaughlin  
Prerequisite: Psychology 1A, 1B.  
General principles underlying the teaching of the fundamental skills. Objectives of kindergarten-primary education. Curriculum values. Evolution of modern curricula and methods.

128. Comparative Study of Primary Education. (3) I. (Credit B)  
Prerequisite: Education 124A-124B.  
Professor Meriam

129. Kindergarten-Primary Supervision. (3) II. (Credit B)  
Associate Professor McLaughlin  
Prerequisite: Education 124A-124B.

130A-130B. Principles of Elementary Education. (3-3). (Credit B)  
Professor Meriam, Assistant Professor Robison  
Prerequisite: Psychology 1A, 1B.  
General principles underlying all successful teaching. The elementary curriculum. Values and methods of teaching the various statutory subjects.  
Education 130A not open for credit to students who have completed Education 11.

131A-131B. School Administration and Supervision. (2-2). (Credit B)  
W, 4, 5.  
Professor Waddell  
Prerequisite: Education 130A-130B or equivalent.  
The general technique of elementary school administration. In the second semester especial attention will be paid to the supervision of teaching. Designed especially for principals and supervisors.
132. Introduction to Educational Measurement. (2) Either half-year. 
(Credit B). M W, 8; Tu Th, 8; W F, 2. 
Associate Professor WILLIAMS, Assistant Professor ROBISON 
Prerequisite: Psychology 1A, 1B.

133. Educational Diagnosis. (2) II. (Credit B) M, 4, 5. 
Prerequisite: Education 132. Associate Professor WILLIAMS 
The use of standard tests and elementary statistical technique in 
problems of school, class and individual diagnosis. Intended especially 
for teachers of experience.

139. Organization and Administration of the Elementary Curriculum. 
(3) II. (Credit B) 
Prerequisite: Education 130A–130B.
Announcement of the Southern Branch

180. Education for Citizenship. (2) Either half-year. (Credit A, B)
   Tu Th, 11, 2.  Associate Professor Woellner
   Certain educational problems from the viewpoint of American citizenship. Adult immigrant education, civic values in method, subject matter, school organizations, etc.; teaching the principles of government, the Constitution; what is good citizenship?

182. Problems of Americanization. (3) Either half-year. (Credit B)
   Associate Professor Woellner
   Racial and cultural backgrounds of various immigrant groups, with resulting problems for education.

183. Educational Sociology. (3) I. (Credit A, B)
   Associate Professor Darsie
   Education as a factor in social evolution. Analysis of current educational practices in the light of modern social needs.
Announcement of Courses

ENGLISH

FREDERIC T. BLANCHARD, Ph.D., Professor of English.
SIGURD BERNHARD HUSTVEDT, Ph.D., Associate Professor of English.
HERBERT F. ALLEN, Ph.D., Assistant Professor of English.
LLEWELLYN M. BUELL, Ph.D., Assistant Professor of English.
FRECY H. HOUSTON, Ph.D., Assistant Professor of English.
ALFRED E. LONGUKIL, Ph.D., Assistant Professor of English.
LILY B. CAMPBELL, Ph.D., Assistant Professor of English.
MARGARET S. CARHART, Ph.D., Assistant Professor of English.
CARL S. DOWNES, Ph.D., Assistant Professor of English.
CHARLES A. MARSH, B.S., Assistant Professor of Argumentation.
ALICE O. HUNNEWELL, Instructor in English.
EVALYN A. THOMAS, B.L.I., Instructor in English.
HA1UU ' MACKEZiZ, M.A., Instructor in English.
W. H. VEATCH, A.B., Ph.M., Instructor in Public Speaking.
B. H. BISSELL, Ph.D., Instructor in English.
KATHERINE COLLINS, M.A., Associate in English.
LAWRENCE C. LOCKLEY, M.A., Associate in English.
LU EMILY PEARSON, M.A., Associate in English.
WILLIAM J. CALVERT, Jr., M.A., Associate in English.

†BLYTH WEBSTER, M.A., Lecturer in English (Dean of St. Andrews University, Scotland).

Students must have passed Subject A (either examination or course) before taking any course in English or Public Speaking. Reference to regulations concerning Subject A will be found on page 48 of this bulletin. English 1A-1B and 56A-56B are prerequisite for all upper division courses in English.

Preparation for the Major.—English 1A-1B and 56A-56B completed with an average grade of C.

The Major.—Students who wish to make English their major subject must meet the following conditions:
1. Students must present, in the first term of the junior year, a programme to be examined and approved by a departmental adviser to upper division students. The programme, however, may be amended from time to time after consultation with the department representative.

†In residence second half-year only.
2. The programme must cover 24 units of upper division courses, including the restricted junior course, to be taken in the junior year, and the restricted senior course, to be taken in the senior year.

3. The student must maintain an average grade of C in upper division English courses and, at the end of the senior year, must pass a comprehensive final examination.

Public Speaking.—A major in public speaking for the A.B. degree is not offered at the Southern Branch of the University. The requirements in preparation for the major in this department at the University of California in Berkeley are as follows: Public Speaking 1A–1B, 2A–2B, 5A–5B.

Lower Division Courses

Freshman Courses

1A–1B. First-Year Reading and Composition. (3) Either half-year.

(Credit A, B)  
Professor Blanchard, Associate Professor Hustvedt, Assistant Professors Allen, Buell, Houston, Longueil, Campbell, Carhart, Downes, Dr. Bissell, Miss McKenzie, Miss Collins, Mr. Lockley, Mrs. Pearson.

M W F, 8, 9, 10, 11, 12, 2, 3; Tu Th S, 8, 9, 10, 11, 12.

Open to all students who have received a passing grade in Subject A.

1C. English in Business Practice. (3) Either half-year. (Credit B)  

Mr. Lockley  
Prerequisite 1A. Open only to pre-Commerce students.

4C–4D. World Literature, (1–1) Yr. (Credit A, B) W, 3.  

Professor Blanchard

Sophomore Courses

Note.—Courses 52 and 56, having material in common, cannot both be taken, in whole or in part, for credit.

51A–51B. Writing Based on Nineteenth Century Masterpieces. (3–3) Yr.  
(Credit A, B)  

M W F, 2.  

Assistant Professor Downes

52A–52B. Types of English Literature. (3–3) Yr. (Credit A, B)  

M W F, 12.  

Assistant Professor Campbell

56A–56B. Survey of English Literature. (3–3) Yr. (Credit A, B)  

Assistant Professors Allen, Buell, Houston, Longueil, Campbell, Carhart, Dr. Bissell

M W F, 10, 2; Tu Th S, 8, 10.
UPPER DIVISION COURSES

Group I—Unrestricted Courses

(Open to all students in the upper division; enrollment not limited.)

110A. English Diction and Style. (3) I. (Credit A, B) M W F, 10.
   Associate Professor HUSTVEDT
114A–114B. English Drama from the Beginning to 1900. (3–3) Yr.
   (Credit A, B) Assistant Professors BUell, CAMPBELL
125c–125d. The English Novel. (3–3) Yr. (Credit A, B) M W F, 2.
   Professor BLANCHARD
125e–125h. Nineteenth Century Prose. (3–3) Yr. (Credit A, B)
   M W F, 11.
   Assistant Professor HOUSTON

153A. Introduction to the Study of Poetry. (3) Either half-year.
   (Credit A, B) M W F, 12
   Professor BLANCHARD
   This course is designed to afford an introduction to the principles
   of criticism. It is offered both for those who desire a general
   acquaintance with poetry and for those who intend to select a
   European literature as a major. Lectures, reading of masterpieces
   in translation, frequent examinations.

170. Scottish Literature. (3) II. (Credit A, B) Professor WEBSTER
171. Elizabethan Literature. (3) II. (Credit A, B) Professor WEBSTER

Group II—Restricted Courses

A. The Junior Course

(Sections limited to forty students each)

Designed primarily for juniors whose major subject is English. With
the consent of the instructor open to other juniors who have had
equivalent preparation.

117J. Shakespeare. (3) Either half-year. (Credit A, B)
   Professor BLANCHARD, Associate Professor HUSTVEDT,
   Assistant Professor ALLEN
   M W F, 12, 2.

B. The Senior Course

(Sections limited to twenty students each)

Designed primarily for seniors whose major subject is English. With
the consent of the instructor, open to other seniors who have had
equivalent preparation.

Literary Problems.

Students should enroll under one of the following numbers:

Problems of Critical Theory.
151H. Tragedy. (3) Either half-year (Credit A, B)
   M W F, 2.
   Assistant Professors ALLEN, HOUSTON

Investigation of Individual Authors.
151L. Chaucer. (3) Either half-year. (Credit A, B) M W F, 12.
   Associate Professor HUSTVEDT, Assistant Professor LONGUEIL
Announcement of the Southern Branch

Composition

106K. Advanced Composition. (3) Either half-year. (Credit A, B)
Associate Professor Hustvedt, Assistant Professors Allen, Houston, Longueil, Campbell, Carhart
Open only to upper division students who have the consent of the instructor.

Teachers' Courses.

12A. Reading, and the Teaching of English. (2) Either half-year.
(Credit B) Tu Th, 10, 11, 12, 3 Mrs. Hunnewell, ——

12B. Literature for the Primary Grades. (2) Either half-year.
(Credit B) Tu Th, 9, 10, 3 Miss MacKenzie

14. Literature for the Middle Grades. (3) II. (Credit B)
M W F, 9. Miss MacKenzie

130. American Literature. (3) Either half-year. (Credit B)
M W F, 3. Assistant Professor Downes

161. Junior High School English. (2) I. (Credit B) Miss MacKenzie
Tu Th, 2.

Public Speaking

Lower Division Courses

1A-1B. Elements of Public Speaking. (3-3) Yr. (Credit A, B)
M W F, 9, 11; Tu Th 8, 8, 10.
Assistant Professor Marsh, Mr. Veatch, ——

2A-2B. The Fundamentals of Expression and Interpretation. (3-3) Yr.
(Credit A, B) M W F, 9. Mrs. Hunnewell, Miss Thomas

5A-5B. Principles of Argumentation. (3-3) Yr. (Credit A, B)
M W F, 10. Assistant Professor Marsh, Mr. Veatch
Prerequisite: Public Speaking 1A-1B and English 1A-1B and the consent of the instructor.

10C-10D. Dramatic Interpretation. (3-3) Yr. (Credit A, B)
M W F, 2. Miss Thomas

15B. The Art of Story Telling. (2) Either half-year. (Credit B)
Tu Th, 8, 11, 2. Mrs. Hunnewell, ——

Upper Division Courses

110A-110B. Third-Year Public Speaking. (3-3) Yr. (Credit A, B)
Prerequisite: course 5A-5B. Assistant Professor Marsh
(A) Oral argumentation and debate. Preparation of briefs; presentation of arguments. (B) Practice in extemporary speaking; the preparation of the occasional address. Open to students selected from 110A.

111A-111B. Literary Interpretation. (3-3) Yr. (Credit A, B)
Prerequisite: course 2A-2B. Mrs. Hunnewell, Miss Thomas
The study of typical literary forms such as the ballad, the lyric, the essay, and the short story.
FRENCH

PAUL PÉRIGORD, Ph.D., Professor of French Civilization.
HENRY RAYMOND BRUSH, Ph.D., Professor of French.
ALEXANDER GREEN FITE, Ph.D., Assistant Professor of French.
NEMOURS HONORE CLEMENT, Ph.D., Assistant Professor of French.
HELEN BELL SMITH, Ph.D., Instructor in French.
LOUIS F. D. BRIOIS, M.A., Associate in French.
MADELEINE L. LETESSIER, M.A., Associate in French.
EVELYN STARR LESSLIE LOUGHEAD, M.A., Associate in French.
ALICE HUBARD, M.A., Associate in French.
MARCEL BIENCOURT, Licencié ès Lettres, Associate in French.

Preparation for the Major.—French A, B, 1A–1B, or their equivalents. History 4A–4B, Philosophy 3A–3B, Latin and another modern language are strongly recommended.

Any of the remaining upper division courses may be counted for the major. With the permission of the department, 4 units of the 24 may be satisfied by appropriate upper division courses in the following departments: English, German, Greek, Latin, Spanish, Italian, or Philosophy.

LOWER DIVISION COURSES

The ordinary prerequisites for each of the lower division courses are listed under the description of these courses. Students whose high school preparation has given them special advantages may, upon examination, be permitted a more advanced programme; or, such students may be transferred to a more advanced course by recommendation of the instructor.

A. Elementary French. (5) Either half-year. (Credit A, B) The Staff

   M Tu W Th F, 9, 10, 12, 3.

   Students entering with one year of high school French will register in A and will receive 2 units of credit in addition to the matriculation credit.

B. Elementary French. (5) Either half-year. (Credit A, B) The Staff

   M Tu W Th F, 12, 2.

   Prerequisite: course A or two years of high school French.

C. Intermediate French. (3) Either half-year. (Credit A, B)

   Tu Th S, 8; M W F, 2. Assistant Professor CLEMENT in charge

   Prerequisite: course B or three years of high school French.
D. Intermediate French. (3) Either half-year. (Credit A, B)  
M W F, 8, 11. Assistant Professor Clement in charge  
Prerequisite: course C or four years of high school French.

1A–1B. Intermediate French. (3–3) Yr. (Credit A, B) M W F, 11.  
Assistant Professor FITE  
Prerequisite: course B with a grade of A or B.  
Students having three years of high school French and a satisfactory record may be admitted to this course with the permission of the department. This course is intended for students who make French their major subject. It is conducted in French.

5A–5B. Advanced French. (3–3) Yr. (Credit A, B) M W F, 9, 2.  
Professor Périgord, Assistant Professor Clement  
Prerequisite: course D or 1B.

5AB. Advanced French. (5) II. (Credit A, B) Professor Brush  
M Tu W Th F, 10.  
Prerequisite: course D or 1B with grade of A, B, or C.

UPPER DIVISION COURSES

The prerequisite to all upper division courses is 16 units in the lower division, including either 1A–1B (or D with a grade of A or B) or 5A–5B (or 5AB).

Courses 101A–101B and 109A–109B are ordinarily prerequisite to other upper division courses, except that 107A–107B may be taken concurrently with either or both of these courses.

All upper division courses, with the exception of 140A–140B, are conducted entirely in French.

101A–101B. Composition, Oral and Written. (3–3) Yr. (Credit A, B)  
M W F, 10, 3. Assistant Professor FITE, Dr. Smith

107A–107B. Typical Comedies. (2–2) Yr. (Credit A, B)  
Assistant Professor FITE  
Prerequisite: an average grade higher than C in French courses.

(Credit A, B) M W F, 12. Professor Périgord  
(A) The Middle Ages, the Renaissance, and the XVII Century.  
(B) The XVIII, XIX, and XX centuries.

* Not to be given, 1925–26.
112A–112B. The Nineteenth Century. (2–2) Yr. (Credit A, B)  
Tu Th, 1.  
Professor BRUSH  
Prerequisite: courses 101A–101B and 109A–109B.  
(A) From 1789 to 1850. (B) From 1850 to 1885.

114A–114B. Contemporary French Literature from 1885 to the Present.  
(2–2) Yr. (Credit A, B) W F, 2.  
Assistant Professor FITE

118A–118B. The Sixteenth Century. (2–2) Yr. (Credit A, B)  
Professor BRUSH

120A–120B. The Seventeenth Century. (2–2) Yr. (Credit A, B)  
Tu Th, 2.  
Assistant Professor CLEMENT

121A–121B. The Eighteenth Century. (2–2) Yr. (Credit A, B)  
Professor BRUSH

130A–130B. Grammar, Composition and Style. (2–2) Yr. (Credit A, B)  
Tu Th, 1.  
Assistant Professor CLEMENT  
Prerequisite: an average grade higher than C in French courses.  
Practice in oral and written composition based on selected models.  
This course is required at Berkeley of all candidates for the certificate of completion of the teacher-training curriculum, or for the M.A. degree.

140A–140B. French Civilization. (2–2) Yr. (Credit A, B)  
Tu Th, 2.  
Professor PÉRIGORD  
Prerequisite: 16 units of lower division work in French, or equivalent.  
Lectures in English, reading in French or English. Specially intended for majors in English and history.

*190. Course for Teachers. (2) I. (Credit A, B)  
Professor BRUSH  
Prerequisite: 16 units of freshman or sophomore work, or equivalent; French 101A–101B and 109A–109B, the latter being permitted concurrently.

*Not to be given, 1925–26.
Announcement of the Southern Branch

GEORGRAPHY

GEORGE McCUTCHEON McBRIDE, Ph.D., Associate Professor of Geography.
MYRTA LISLE McCLELLAN, B.S., Assistant Professor of Geography.
CLIFFORD MAYNARD ZIERER, Ph.D., Assistant Professor of Geography.
WILLIAM F. MARSHALL, A.B., Assistant in Geography.

FORD ASHMAN CARPENTER, LL.D., D.Sc., Lecturer in Meteorology.

Preparation for the Major.—Required: Geography 1, 2 (or 5), and 3; Geology 1c and 2c. Recommended: Geography 5 (or 2), 7A, and 7B; Geology 2D; History 4, 5, 7 or 8, and 76.

The Major.—The minimum requirement for the major is 14 or 15 units of upper division work in geography including the following courses: 101, 105, and 121; plus 10 or 9 units selected, with the approval of the Department of Geography, from some one of the following groups:

Geology Group.—Geology 102A–102B, Field Geology (2–2); Geology 106, Economic Geology (Metalliferous Deposits) (3); Geology 107, Physical Geology of North America (2); Geology 108, Economic Geology (Non-metalliferous Deposits) (2).


Political Science Group.—Political Science 125, Foreign Relations of the United States (3); Political Science 127, International Relations (3).

LOWER DIVISION COURSES

1. Fundamentals of Modern Geography. (3) Either half-year.
   (Credit A, B) M W F, 8, 9, 10, 2; Tu Th S, 9, 11. The STAFF
   A development of the underlying principles of human geography through a study of the main features of the physical environment in their relationship to man's life and activities, particularly as exemplified in type regions; varied map study; especial emphasis upon the achievements of men in mastering handicaps of environment.

2. Natural Regions of the World. (2) Either half-year. (Credit A, B)
   Prerequisite: Geography 1. The STAFF
   A regional study of world geography, with wide application of the principles of human geography and systematic regional map studies.
Announcement of Courses

3. Elements of Meteorology. (3). I. (Credit A, B) MWF, 11.
   A study of the earth’s atmosphere and the changes in it which produce our weather; the making and recording of meteorological observations; practical work with meteorological instruments; study of weather maps; lectures, recitations, and laboratory work.

5. Introduction to Economic Geography. (3) Either half-year. (Credit A, B) Tu Th S, 10. Assistant Professor ZIEBER
   Prerequisite: Geography 1 or equivalent preparation.
   A study of the geographic basis of production and exchange, particularly in the development and localization of industries and in the character and direction of trade.

7A. Applied Meteorology; Weather Science in Relation to Aeronautics and Industry. (1) I. (Credit A, B) M, 12. Dr. CARPENTER
7B. Applied Meteorology; Weather Science in Relation to Agriculture and Engineering. (1) I. (Credit A, B) M, 1. Dr. CARPENTER

Upper Division Courses

101. Field Course. (2) I. (Credit A, B) Th, 1, 2, 3. Associate Professor McBride,
   Prerequisite: Geography 1 and Geology 1c.
   An expenditure of $5 for transportation may be incurred by each student.
   This course is based on field work carried on in the vicinity of Los Angeles, and affords training in the practice of careful observation of geographical facts (particularly the facts of human geography), accurate field note taking, detailed mapping and sketching, and interpretation of geographical relationships.

105. Cartography. (2) II. (Credit A, B)
   Prerequisite: Geography 1, Geology 1c and 2c.
   The course is concerned with the methods of making maps, the more important projections and their relative merits; representations of relief, features of human culture, and other geographic data; the interpretation of various types of maps.

113. Climatology. (2) II. (Credit A, B)
   Prerequisite: Geography 1 or 3.
   A study of the underlying principles of climatic phenomena, of the features which characterize the climates of various regions, and of the influence of climatic conditions upon the life of plants, animals, and the human race.

121. The Geography of North America. (2) I. (Credit A, B) Tu Th, 12. Assistant Professor ZIERER
   Prerequisite: Geography 1 or Geology 1c.
   A study of the continent of North America, based upon the several natural regions; the topography, climate, and the natural resources in their relation to man and to the distribution of population and the localization of industries.
122. The Geography of Europe. (2) II. (Credit A, B). 
Assistant Professor ZIERER
Prerequisite: Geography 1 or Geology 1c.
The importance of the geographic environment in the development and present status of the leading countries of Europe; the relations and interactions, socially and economically, among the various groups.

123. The Geography of Latin America. (3) I. (Credit A, B)
Tu Th, 4–5:30. 
Associate Professor McBRIDE
Prerequisite: Geography 1 or Geology 1c.
This course aims to ascertain the physical conditions characterizing the countries of Latin America, particularly in relation to the life of the inhabitants.

124. The Geography of Asia. (2) II. (Credit A, B)
Assistant Professor McCLELLAN
Prerequisite: Geography 1 or Geology 1c.
A study of the geographic problems which determine the social and economic conditions of the leading countries about the western edge of the Pacific Ocean.

131. The Geography of California. (2) Either half-year. (Credit A, B)
Tu Th, 1. 
Assistant Professor McCLELLAN
Prerequisite: Geography 1 or equivalent preparation.
A comparison and contrast of California’s geographic advantages and handicaps; a tracing of the relationships between the natural resources of the state and the activities of the inhabitants.

169. The Teaching of Geography. (3) Either half-year. (Credit A, B)
M W F, 9. 
Assistant Professor McCLELLAN
Prerequisite: Geography 1 or equivalent preparation.
The fundamental purposes of geography as an instrument of instruction; changing point of view; the basic principles; the various methods of presentation; the use of materials in the presentation of the subject.

171. The Geographic Setting of American History. (2) II. (Credit A, B)
Tu Th, 12. 
Associate Professor McBRIDE
Prerequisite: Geography 1 and History 7A or 7B or equivalent preparation.
The purpose of this course is to study the influence of the physical environment upon the distribution, culture, and historical development of the peoples inhabiting the Americas.

181. Current Problems in Political Geography. (2) II. (Credit A, B)
Tu Th, 2. 
Associate Professor McBRIDE
Prerequisite: Geography 1 or equivalent preparation.
Consideration of the geographical basis of some important problems of domestic and international affairs, with stress upon the geographic principles involved.
Announcement of Courses

GEOLOGY

William J. Miller, Ph.D., Professor of Geology.
Frederick P. Vickery, Ph.D., Assistant Professor of Geology.
Alfred R. Whitman, Ph.D., Assistant Professor of Geology.

Preparation for the Major.—Chemistry 1A–1B; Physics 2A–2B; Civil Engineering 1A–1B; Geology 1A, 1B; Mineralogy 1A–1B, 2; trigonometry; freehand and geometrical drawing. Certain of these preparatory courses may be postponed to the upper division by permission of the department. The student should note carefully all prerequisites for courses in the department. Recommended: French and German.

The Major.—All majors must include Geology 102A–102B (4), 103 (4), 112A–112B, and 12 units chosen from geology (including mineralogy and paleontology) and allied courses in chemistry, physics, zoology, and geography. The student’s programme is to be made out in accordance with some definite plan approved by the Department of Geology.

Laboratory Fees.—Mineralogy 1A, 1B, $5; 2, $2.50.

GEOLOGY

1A. General Geology: Dynamical and Structural. (3) Either half-year. (Credit A, B) Professor Miller and Assistant Professor Vickery
M W F, 9 (Miller); Tu Th S, 8 (Vickery).
Prerequisite: Elementary Chemistry and Physics.
Several field trips (half-day) required. Sections limited to forty students.

A study of the materials and structure of the earth, and of the processes and agencies by which the earth has been, and is being changed. (Note.—Not open to students who have taken or are taking Geology 1c.)

1B. General Geology: Historical. (3) Either half-year. (Credit A, B) Professor Miller and Assistant Professor Vickery
M W F, 12 (Miller, second half-year); Tu Th S, 9 (Vickery, first half-year). Several field trips (half-day) required.
Prerequisite: Geology 1A or 1c, or Paleontology 1 (see Biology).
A study of the geological history of the earth and its inhabitants, with special reference to North America.

1c. Physiography. (3) Either half-year. (Credit A, B) Professor Miller and Assistant Professor Vickery
M W F, 11 (Miller); Tu Th S, 11 (Vickery).
Several field trips (half-day) required.

An elementary course dealing with the earth's surface features and the geological laws governing their origin and development. (Note.—Not open to students who have taken or are taking Geology 1A.)
2c. Map Study of Physiography. (1) Either half-year. (Credit A, B) 
   Professor MILLER
   May be taken after or concurrently with Geology IA or 1C.

2d. Field Study of Physiography. (1) II. (Credit A, B) 
   Assistant Professor VICKERY
   May be taken after or concurrently with Geology 2c or 5.
   (Note.—An expenditure of $5 for transportation may be incurred 
   by each student.)

5. General Geology: Field Work; Dynamical and Structural. (1) I. 
   Assistant Professor VICKERY
   Field excursions and reports.
   May be taken after or concurrently with Geology IA.
   (Note.—An expenditure of $5 for transportation may be incurred 
   by each student.)

UPPER DIVISION COURSES

102A-102B. Field Geology. (2-2) Yr. (Credit A, B). S, 9-5. 
   Assistant Professor WHITMAN
   Prerequisite: Geology 1B, 103, and Civil Engineering 1LA-1LB, 
   1FA-1FB. Geology 5 is recommended. Credit in this course is given 
   only to students who take the year's work.
   Field work with supplementary lectures and exercises in mapping. 
   (Note.—An expenditure of $30 for transportation may be incurred 
   by each student.)

103. Introduction to Petrology. (4) I. (Credit A, B) 
   Assistant Professor WHITMAN
   Lectures, M F, 8; laboratory, Tu Th, 1-4. Two lectures and two 
   laboratory periods each week.
   Prerequisite: Geology 1A, Mineralogy 1A and 2.
   The general characteristics, origin, mode of occurrence, and nomen-
   clature of rocks, and description of the more common types, accom-
   companyed by determinative laboratory practice.

106. Economic Geology: Metalliferous Deposits. (3) II. (Credit A, B) 
   Assistant Professor WHITMAN
   Prerequisite: Geology 1A, 1B, and Mineralogy 1A-1B.

107. Physical Geology of North America. (2) II. (Credit A, B) 
   Professor MILLER
   Prerequisite: Geology IA and 1B.

108. Economic Geology: Non-metalliferous Deposits. (2) I. (Credit A, B) 
   Professor MILLER
   Prerequisite: Geology 1A, 1B, and Mineralogy 1A-1B.

112A-112B. Problems in Geology. (2-2) Yr. (Credit A, B) 
   The STAFF
   Tu W, 10.
   Open only to seniors who are making geology their major study.
   Reports and discussions. Credit in this course is given only to 
   students who take the year's work.
MINERALOGY

1A-1B. Determinative Laboratory. (2-2) Yr. (Credit A, B) Assistant Professor Whitman
M F, 2-5.
Prerequisite: matriculation chemistry.
Practice in determination of minerals (a) by their physical properties and (b) by the use of the blowpipe and chemical reagents.

2. Crystallography. (3) II. (Credit A, B) Assistant Professor Whitman
Lectures, M F, 8; laboratory, W, 2-5.
Prerequisite: Mineralogy 1A.
Lectures on the morphology of crystals, with practice in the determination of the forms of crystals and in the methods of crystal projections.

PALEONTOLOGY
(See also under Biology)

101 [formerly numbered 6]. Introduction to Invertebrate Paleontology. (2) II. (Credit A, B) Assistant Professor Vickery
Tu Th, 1-4.
Prerequisite: Geology 1A, 1B, and Paleontology 1 (see Biology).
Designed to stress the biological side of invertebrate paleontology and to give a general knowledge of the more important Tertiary markers of the Pacific Coast.

102A. Invertebrate Paleontology. (4) I. (Credit A, B) Assistant Professor Vickery
Lectures, W F, 11; laboratory, Tu Th, 1-4.
Prerequisite: Geology 1A, 1B, Paleontology 1, and Zoology 1A or Paleontology 101.
Designed to stress the advanced invertebrate groups, with emphasis upon the hard parts.

102B. Invertebrate Paleontology. (4) II. (Credit A, B) Assistant Professor Vickery
Lecture, Th, 9; laboratory, Tu Th, 1-4; F, 2-5.
Prerequisite: Paleontology 102A.
An advanced course in historical geology, including lectures, laboratory and field work, with emphasis upon the study of the fossil invertebrate faunas of the Pacific Coast.
Announcement of the Southern Branch

GERMAN

WILLIAM DIAMOND, Ph.D., Assistant Professor of German.

FRANK HERMAN REINSCH, Ph.D., Assistant Professor of German (Chairman of the Department).

BERNHARD ALEXANDER UHLENDOF, Ph.D., Assistant Professor of German.

ALFRED KARL DOLCH, Ph.D., Instructor in German.

Preparation for the Major.—Required: German A–B (10) and C–D (6) or their equivalents. Recommended: History 4A–4B, Philosophy 3A–3B, English 1A–1B.

The Major.—Requirement: 24 units in upper division courses, including one full year's course in composition and at least 6 units made up from senior courses 111A–111B, 118A–118B, and 119.

LOWER DIVISION COURSES

Two years of German in high school or 5 units of college work will ordinarily admit to course B; three years of German in high school or 10 units of college work will ordinarily admit to courses C–D and CD. In case of special merit the department may grant more advanced standing.

A. Elementary German. Beginners’ Course. (5) Either half-year.

(Credit A, B)

Assistant Professors DIAMOND, REINSCH, UHLENDOF, Dr. DOLCH

This course corresponds to the first two years of high school German. Students who pass in course A after having had one year of German in high school will receive two units of credit in addition to their matriculation credit.

B. Elementary German (continuation of A). (5) Either half-year.

(Credit A, B)

Assistant Professors DIAMOND, REINSCH, UHLENDOF, Dr. DOLCH

Prerequisite: course A or two years of high school German or course A in summer school with grade A or B.

A3–B3. Elementary German. Beginners’ Course. (3–3) Yr.

(Credit A, B)

Assistant Professor REINSCH

This course is primarily for students looking towards work in the colleges of Chemistry and Engineering.
Announcement of Courses

C-D. Intermediate German (continuation of B). (3-3) Yr. (Credit A, B) Assistant Professor DIAMOND

Prerequisite: course B or three years of high school German or course B in summer school with grade A or B.

Selections from prose and poetry, ordinarily including one of Lessing's and one of Schiller's dramas; grammar, composition and conversation. This course is conducted in German and furnishes the regular preparation for the upper division courses.

CD. Intermediate German (continuation of B). (5) II. (Credit A, B) Assistant Professor DIAMOND

Prerequisite: course B or three years of high school German or course B in summer school with grade A or B.

Upper Division Courses

The requirement for admission to upper division courses is 16 units of college work or four years of German in high school. In cases of special merit admission may be granted on three years of high school German.

104A—104B. Introduction to Modern German Literature. (3-3) Yr. (Credit A, B) Assistant Professor UHLENBRECHT

Selected works of Heinrich von Kleist, Grillparzer, Hebbel, Ludwig, Wildenbruch, Fulda, Hauptmann, Sudermann.

105A—105B. German Classics of the Eighteenth Century. (3-3) Yr. (Credit A, B) Assistant Professor DIAMOND

Selected works of Lessing, Goethe, Schiller.

106A—106B. Grammar, Composition, and Conversation. (2-2) Yr. (Credit A, B) Dr. DOLCH

111A—111B. Novelists of the Nineteenth Century. (2-2) Yr. (Credit A, B) Assistant Professor DIAMOND

Prerequisite: course 104A—104B, 105A—105B, or 106A—106B.

Selected novels of Hauff, Freytag, Spielhagen, Ludwig, Keller, Meyer, and others.

118A—118B. History of German Literature. (3-3) Yr. (Credit A, B) Assistant Professor REINSCH

Prerequisite: course 104A—104B or 105A—105B.

First half-year: The Middle Ages; second half-year: from the Reformation to the death of Goethe. Lectures and discussions; collateral reading.

119. Middle High German. (3) II. (Credit A, B) Dr. DOLCH

Prerequisite: course 104A—104B or 105A—105B, and 118A.

Outlines of grammar. Selections from the Nibelungenlied, the Kudrun, and the Court Epics.
HISTORY

†FRANK J. KLINGBERG, Ph.D., Professor of History.
WALDEMAR WESTERGAARD, Ph.D., Professor of History.
†JOHN CARL PARISH, Ph.D., Associate Professor of History.
JOSEPH B. LOCKEY, Ph.D., Associate Professor of History.
MELVA LATHAM, A.B., Assistant Professor of History.
LOUIS K. KOONTZ, Ph.D., Assistant Professor of History.
ROWLAND HILL HAYVEY, Ph.D., Assistant Professor of History.
DAVID K. BJORK, Ph.D., Instructor in History.
LUCY M. GAINES, M.A., Instructor in History.
NELSON V. RUSSELL, Ph.D., Instructor in History.

Preparation for the Major.—Required: History 4A-4B, or 5A-5B, or 8A-8B, and either Political Science 1A-1B, or Economics 1A-1B, or Geography 1 and 2, or Philosophy 3A-3B. History 7A-7B may be taken as an elective but does not fulfill the history requirement for the junior certificate.

Recommended: French, or German, or Latin, or Spanish, or Italian.

The Major.—Twenty-four units of upper division work in history, or from 18 to 21 upper division units in history and from 3 to 6 upper division units in either political science or economics approved by the department.

There must be a year course in European history (one of the following: 121A-121B, 153A-153B, 141A-141B) and a year course in American history (one of the following: 181A-181B, 163A-162B).

At least one advanced course must follow a general course in the same field, chosen within one of the following sequences: History 121A-121B or 153A-153B or 141A-141B, followed by 155A-155B or 144A-144B; 181A-181B or 162A-162B, followed by 177A-177B. Only one advanced course need be taken.

† In residence first half-year only.
† In residence second half-year only.
Announcement of Courses

LOWER DIVISION COURSES

4A–4B. Social and Political History of Modern Europe. (3–3) Yr.
Professor W. STEGGAARD, Assistant Professor KOONTZ, Dr. BJORK,
MRS. GAINES
(Credit A, B) M W F, 9, 10, 11, 12, 2; Tu Th S, 8, 9, 11.

5A–5B. History of England and Greater Britain. (3–3) Yr. (Credit A, B)
Professor KLINGBERG, Assistant Professor HARVEY, Dr. RUSSELL
M W F, 8, 9, 11, 12, 3; Tu Th S, 8, 11.

7A–7B. History of the United States. (3–3) Yr. (Credit A, B)
Associate Professor PARISH, Assistant Professor KOONTZ,
Dr. RUSSELL, MRS. GAINES.
Tu Th S, 8; M W F, 10.
First half-year, to 1837; second half-year, to the present time.

8A–8B. The History of the Americas. (3–3) Yr. (Credit A, B)
M W F, 12, 4.
Associate Professor LOCKEY

11. Social Studies in the Kindergarten-Primary Grades. (2) Either half-
year. (Credit B) Tu Th, 9, 3.
Assistant Professor LATHAM
Prerequisite: Psychology 1A.
Treats of sources of material, curricula now in use, and projects.

38. Contemporary History. (1) II. (Credit B) MRS. GAINES

39. Pacific Coast History. (2) Either half-year. (Credit A, B)
MRS. GAINES

76. The Industrial History of the United States. (3) Either half-year.
(Credit A, B) Assistant Professor LATHAM

77. The Social Sciences for Junior High Schools. (2) II. (Credit B)
Assistant Professor LATHAM

UPPER DIVISION COURSES

Prerequisites: History 4A–4B or History 5A–5B, and History 8A–8B or
one year of American history in the high school; or History 8A–8B and
one year of European history in the high school; or one year of European
history and one year of American history in the high school.

General Requirement: Every student in an upper division history course
will be required to write one term paper in history each semester.

121A–121B. The Middle Ages. (3–3) Yr. (Credit A, B) DR. BJORK

141A–141B. Recent History of Central Europe: 1815–1920. (3–3) Yr.
(Credit A, B) Professor W. STEGGAARD
A study of the Hapsburg and Hohenzollern lands, with special refer-
ence to nationalism, democracy, and the industrial revolution. The
era of the congresses, the rise of the great alliances, the World War
and its aftermath.
144A–144B. History of Northern and Eastern Europe. (2–2) Yr. (Credit A, B) Professor WESTERGAARD
Prerequisite: German or French or one of the Scandinavian languages, and two years of undergraduate history.
A special study will be made of particular periods and episodes in the history of the North, such as the early Teutonic migrations, the rise of Russia, the Viking Age, the struggle for the east Baltic shore during the period 1200–1560, the Swedish Baltic empire and its collapse, the beginning of modern Russia.

153A–153B. Social and Political History of Modern England: 1603–1925. (3–3) Yr. (Credit A, B) Professor KLINKBERG, Assistant Professor HARVEY

155A–155B. History of the British Empire. (2–2) Yr. (Credit A, B) Professor KLINKBERG, Assistant Professor HARVEY

162A–162B. History of Hispanic America from 1808 to the Present. (3–3) Yr. (Credit A, B) Associate Professor LOCKEY

*171A–171B. History of the United States. (3–3) Yr. (Credit A, B) Associate Professor PARISH
A general course dealing with the English colonies and the political history of the United States. This course satisfies the requirement for instruction in American Institutions.

177A–177B. The United States since 1860. (2–2) Yr. (Credit A, B) Associate Professor PARISH, Assistant Professor KOONTZ, Dr. RUSSELL.
A study of conditions and events in the United States during the period of Civil War and Reconstruction and of the development of the nation since 1876.

*181A–181B. The History of the Westward Movement. (3–3) Yr. (Credit A, B) Associate Professor PARISH
(A) Settlement of the Mississippi Valley.
(b) Migration across the plains and mountains to the Pacific.

* Not to be given, 1925–26.
HOME ECONOMICS

HELEN B. THOMPSON, Ph.D., Professor of Home Economics.
ORABEL CHILTON, B.S., Associate in Home Economics.
BERNICE ALLEN, A.M., Associate in Home Economics.
MAUD D. EVANS, Ed.B., Associate in Home Economics.
FLORENCE A. WILSON, A.B., B.S., Associate in Home Economics.
FLORENCE HALLAM, A.B., Assistant Supervisor of Training.
PAULINE F. LYNCH, B.S., Associate in Home Economics.
MAUDE E. JENKINS, B.S., Associate in Home Economics.
MARGARET C. JONES, M.A., Associate in Home Economics.

A major in Home Economics for the A.B. degree is not offered at the Southern Branch of the University. The requirements in preparation for the majors in Household Science and Household Art at the University of California in Berkeley are as follows:

**HOUSEHOLD ART:**
- Required: High school courses in botany, chemistry, clothing. Freehand and mechanical drawing are recommended.
- Lower Division Courses: Household Art 1A-1B (6); Art 6A-6B (4); History 4A-4B (6), or equivalents.
- Recommended: Art 14 (2) Psychology 1A, 1B (6); Economics 1A-1B (6); Latin, French, Italian, Spanish, or German; Art A (2) if freehand drawing has not been completed in high school.

**HOUSEHOLD SCIENCE:**
- Chemistry 1A-1B, 8 (13); Bacteriology 1 (4); Household Science 1A-1B (6).

**Requirements for the Secondary Special Teaching Credential in Home Economics.**—Completion of all requirements for the degree of Bachelor of Education listed on pages 86-87, including the following specified courses:

(a) Education 148, 170, 180; Psychology 110; Teaching, 4 to 10 units; elective courses in Education to total 24 units.


(c) Art 2A, 13, 16A, 16B, 103, 156.

(d) Chemistry 2A, 2B, 10; Physiology 1.

**VOCATIONAL HOME ECONOMICS**

A two-year vocational curriculum in home economics is maintained under the provisions of the Smith-Hughes Act. This curriculum leads to recommendation for the secondary special teaching credential in vocational home economics. It is open to mature students who are high school graduates and who have had practical experience in the administration of a home. All applicants must be approved by the Department of Home Economics.
DEPARTMENTAL SEQUENCES

For students with majors other than home economics it is suggested that courses be chosen from the following groups.

I. Home Economics 1A (2), 66 (2), 175 (3), 179 (3).
II. Home Economics 24 (3), 160A (3), 160B (3), 180 (3).

Laboratory Fees.—The fee required for courses 1A, 1B, 2, 175, 179 is $1; for courses 66, 171 is $1.50; for courses 11A, 11B, 31, 33, 120, 125, 159 is $2.75.

1A. Clothing (Household Art 1A). (2) Either half-year. (Credit A, B)  
Prerequisite: Art 2A. Miss EVANS, Miss WILSON  
The study of kinds and qualities of materials for different uses; typical forms of clothing; artistic appreciation, standards and hygienic characteristics of dress.

1B. Clothing Economics (Household Art 1B). (3) Either half-year. (Credit A, B)  
Prerequisite: Economics 1A. Miss LYNCH, Miss WILSON  
Clothing industries and clothing standards in relation to the economic and social life of the community; quantity and cost budgets for individuals and for family groups.

11A. Elementary Food (Household Science 1A). (3) Either half-year. (Credit A, B)  
Prerequisite: Chemistry 2A. Miss ALLEN, Miss JENKINS  
The production, transportation, and marketing of food materials; the principles involved in food preparation and preservation; compilation of recipes; practice in judging food preparations.

11B. Food Economics (Household Science 1B). (3) Either half-year. (Credit A, B)  
Prerequisite: Chemistry 10. Miss ALLEN, Miss JENKINS  
Emphasis is placed on the classification, occurrence, and general properties of food stuffs; the legal and sanitary aspects of food products handled in commerce; food values in relation to cost of material, preparation, and service of meals. Attention is given to the practical problems involved in the selection and service of food in school lunch rooms and cafeterias.

24. Home Economics Survey. (3) Either half-year. (Credit B)  
M W F, 11. Miss JENKINS, Miss LYNCH  
For general professional and kindergarten-primary students. A brief discussion of problems in the selection and use of food and clothing and in the administration of the household.

66. Millinery. (2) Either half-year. (Credit B) Miss LYNCH  
Tu Th, 1-3. Required of vocational students, elective for others.  
Prerequisite, Art 2A and Home Economics 1A or equivalent.  
Study of trade methods and markets for millinery supplies; execution of designs illustrating problems involved in class demonstration in laboratory teaching, and in the direction of club projects.
120. Dietetics. (3) Either half-year. (Credit B)
Professor THOMPSON, Miss CHILTON
W, 10; M F, 10–1; W, 11; Tu Th, 10–1.
Prerequisite: Chemistry 10, Home Economics 128A.
Daily food requirements as indicated by the experimental studies that have established the quantitative basis in dietetics; calculations of standard portions and combinations of foods; computation and scoring of dietaries with special reference to the nutritive requirements for growth in infancy and childhood and to varying conditions in both normal and abnormal metabolism in the adult. Methods for field work and nutrition clinics.

125. Experimental Cookery. (3) II. (Credit B), Miss ALLEN
Prerequisite: senior standing.
Quantitative methods in food preparation under controlled conditions.

128A–128B. Nutrition. (2–2) Yr. (Credit B) Professor THOMPSON
Tu Th, 1.
Prerequisite: Home Economics 11b, Physiology 1; Chemistry 107 recommended.
Lectures and review of the literature in the field of nutrition; discussions of metabolism studies and of feeding experiments for testing the biological efficiency of different types of food materials. Special attention is given to recent literature which bears upon problems in dietetics, upon growth, and upon normal and subnormal nutrition in infancy and childhood.

147A. Development of Home Economics Education. (3) Either half-year.
(Credit B) M W F, 12.
Professor THOMPSON
Prerequisite: Psychology 1A, 1B, and 10 or more units of home economics credit.
The development of home economics as an educational movement; organization of curricula and present status of courses in different types of schools.

147B. Principles of Home Economics Teaching. (3) Either half-year.
(Credit B) Tu Th, 9.
Miss EVANS
Prerequisite: Psychology 1A, 1B, and 12 or more units of home economics credit.
Study of typical courses and their presentation; critical review of texts and references for elementary and secondary schools.

159. Food Problems. (3) I. (Credit B) Miss ALLEN, Miss CHILTON
Prerequisite: senior standing.
Special problems in food with review of literature of the subject.

160A–160B. Household Administration. (3–3) Yr. (Credit B)
M W F, 9.
Miss JENKINS, Miss LYNCH
Prerequisite: Economics 1A, Biology 1, Food and Clothing—one year each.
Economic organization and administration of the activities of the home; household budgets and accounts; standards of living; household sanitation.
175. Advanced Study of Costume. (3) II. (Credit B) Miss Wilson
Prerequisite: Home Economics 1A.
Practice in the development of designs for individuals and for use in historical plays and pageants.

179. Clothing Problems. (3) I. (Credit B) Miss Wilson
Prerequisite: senior standing.
Special problems in clothing with review of the literature.

180. Problems in Household Economics. (3) II. (Credit B) Miss Lynch
Prerequisite: senior standing.
Library and field work in investigation of an assigned problem in housing, household equipment, family expenditures, standards of living or of community conditions and activities related to the home.

198. Textiles. (2) II. (Credit B) Miss Wilson
Prerequisite: Economics 1A-1B, Chemistry 10, Art 2A.
The economic development of the textile industry; history of weaves and patterns; chemical, physical, and microscopic examination of textile fibers, yarns and fabrics; bleaching and dyeing; stain removal; laundry processes as they affect color, texture, shrinkage, and durability.

VOCATIONAL COURSES†

2. The Study of Dress. (3) II. (Credit B) Miss Lynch
Prerequisite: Home Economics 1A.
A study of the artistic qualities of dress design; pattern, color, and weave of fabrics; hygienic and economical standards in the selection and care of clothing.

31. Food Composition. (4) Either half-year. (Credit B) Miss Jenkins
Prerequisite: Chemistry 2A.
Food principles, selection, economic uses, nutritive values as affected by methods of preparation.

33. Elementary Dietetics. (3) II. (Credit B) Miss Chilton
Prerequisite: Chemistry 10, Home Economics 31.
Principles of diet applied to individuals, the family, and other groups.

43A-43B. Household Administration. (2-2) Yr. (Credit B) Mrs. Burton, Miss Jenkins
Prerequisite: Economics 1A, Psychology 1A, 1B.
Household equipment; efficient and sanitary methods of work; business principles and administrative methods applicable to the household; care and training of children.

46. Home Economics Education. (3) I. (Credit B) Mrs. Burton
Prerequisite: Psychology 1A, 1B.
The early development and present status of home economics education, methods of teaching, criticism of courses.

† These courses are given primarily for students in the vocational curriculum but are open to students in other curricula in the Teachers College.
Announcement of Courses

MATHEMATICS

Earle B. Hedrick, Ph.D., Professor of Mathematics.

"George E. F. Sherwood, Ph.D., Professor of Mathematics.

Glenn James, Ph.D., Associate Professor of Mathematics.

Harry M. Showman, E.M., M.A., Assistant Professor of Mathematics.

Harriet E. Glazer, M.A., Assistant Professor of Mathematics.

Myrtle Collier, B.S., Assistant Professor of Mathematics.

Guy H. Hunt, C.E., Assistant Professor of Applied Mathematics.

Paul H. Daus, Ph.D., Assistant Professor of Mathematics.

Euphemia R. Worthington, Ph.D., Assistant Professor of Mathematics.

Frederick C. Leonard, Ph.D., Instructor in Astronomy.

Wendell E. Mason, M.S., Instructor in Applied Mathematics.

Clifford Bell, Ph.D., Instructor in Mathematics.

Marguerite Reinert, A.B., Associate in Mathematics.

John D. Elder, B.S., Assistant in Mathematics.

College of Letters and Science.—It is essential that students who expect to take a major in mathematics should complete in the high school two years of algebra, plane and solid geometry, and plane trigonometry. For such students the basic courses leading either to further work in mathematics or to the mathematical treatment of any science are the elementary course in analytic geometry (course 5) and in calculus (course 9). These courses should therefore be elected in the freshman year, if possible. The additional courses in preparation for the major are courses 6 and 8.

Students who have not had trigonometry in the high school must elect course C before they will be admitted to any further work except course 2.

Preparation for the Major.—Courses 5, 6, 8, and 9, which must be passed with an average grade of C. Students who have not taken plane trigonometry in the high school will need to elect course C before taking course 5. It is very desirable that the student of mathematics should have some acquaintance with the applications to physics and astronomy and also a reading knowledge of French and German.

The Major.—Mathematics 109 and 119 and three of the following groups of courses: (a) 101 and 102; (b) 111A, 111B; (c) 112, 114; (d) 125A–125B. Students who are preparing to teach mathematics in a high school probably wish to elect group (a).

Astronomy.—A major in Astronomy for the A.B. degree is not offered at the Southern Branch of the University. The requirements in preparation for the major in this department at the University of California in Berkeley are as follows: Plane trigonometry, analytic geometry, differential and integral calculus, general physics, and a reading knowledge of French or German.

Teachers College.—For admission to the Elementary School Training Curriculum students must take the entrance examination in Subject M. Those who pass proceed to course 19. Those who fail must pass course M before they will be admitted to course 19.

Pre-Commerce.—Freshmen in this curriculum are required to take courses 8 and 2, except that students who have completed two years of high school algebra and also plane trigonometry may be excused from course 8.

Engineering and Pre-Chemistry.—The minimum requirements for admission to the courses 3A–3B, 4A–4B or to 3A, 3C–4C are one and one-half years of algebra, plane geometry, and plane trigonometry. Prospective engineering students are urged, however, to add another half-year of algebra and solid geometry, to this minimum preparation.

Fees.—The fees required for Civil Engineering 1PA–1PB are $5 per half-year; for Civil Engineering 3 the fee is $25.

LOWER DIVISION COURSES

C. Trigonometry. (3) Either half-year. (Credit A, B)
   Tu Th 8, 10, 11. Assistant Professor COLLIER
   Prerequisite: elementary algebra and geometry.

F. Spherical Trigonometry. (1) Either half-year. (Credit A, B)
   Tu Th, 8. Assistant Professor GLAZIER
   Prerequisite: plane trigonometry and solid geometry.

G. Solid and Spherical Geometry. (2) I. (Credit A, B) Mr. MASON
   Tu Th, 12. Prerequisite: plane geometry.

M. Arithmetic. Either half-year. (No credit) Assistant Professor COLLIER
   Required of all students in the Teachers College who fail to pass the entrance examination in Subject M.

2. Mathematics of Finance. (3) Either half-year. (Credit A, B)
   M W F, 11. Assistant Professor DAUS
   Prerequisite: Mathematics 8.

3A. Plane Analytic Geometry. (3) Either half-year. (Credit A, B)
   M W F, 8, 10. Assistant Professor GLAZIER
   Prerequisite: trigonometry and Mathematics 8 or its equivalent.

3B. Differential Calculus. (3) II. (Credit A, B)
   M W F, 8. Assistant Professor HUNT
   Prerequisite: Mathematics 3A.

3C. Differential and Integral Calculus. (5) I. (Credit A, B)
   M Tu W Th F, 9. Assistant Professor SHOWMAN
   Prerequisite: Mathematics 3A.
   For students beginning calculus in the second year.
4A–4B. Solid Analytic Geometry and Integral Calculus. (3–3) Yr.  
(Credit A, B) M W F, 12.  
Professor HEDRICK  
Prerequisite: solid geometry and Mathematics 3b.

4c. Solid Analytic Geometry and Integral Calculus. (4) II. (Credit A, B)  
M Tu Th F, 9.  
Assistant Professor SHOWMAN  
Prerequisite: solid geometry and Mathematics 3c.  
This course with Mathematics 3c is the equivalent of Mathematics 3B, 4A, and 4B.

5. Analytic Geometry. (5) II. (Credit A, B)  
M Tu W Th F, 10.  
Associate Professor JAMES  
Prerequisite: Mathematics C.

6. Introduction to Projective Geometry. (3) II. (Credit A, B)  
Tu Th S, 10.  
Assistant Professor DAUS  
Prerequisite: consent of instructor.

7. College Algebra. (3) Either half-year. (Credit A, B)  
M Tu W Th F, 9, 11, 12.  
Professor HEDRICK  
Prerequisite: one year, one and one-half years, or two years of high school algebra.  
Within a few weeks the class meetings will be reduced to three a week for all students except the few who require extra review and drill.

8. Differential and Integral Calculus. (5) I. (Credit A, B)  
M Tu W Th F, 10.  
Assistant Professor WORTHINGTON  
Prerequisite: Mathematics 5.

101. Elementary Geometry for Advanced Students. (3) I. (Credit A, B)  
M W F, 8.  
Assistant Professor DAUS  
Prerequisite: courses 5 and 6.  
Selected topics in elementary geometry, with particular emphasis on recent developments.

102. Elementary Algebra for Advanced Students. (3) II. (Credit A, B)  
M W F, 2.  
Assistant Professor WORTHINGTON  
Prerequisite: courses 8 and 9.  
Selected topics in elementary algebra, with particular reference to modern points of view.
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104A–104B. History of Mathematics. (2–2) Yr. (Credit A, B)
Tu Th, 1.
Assistant Professor GLAZIER
A non-technical course open to students who have some knowledge of the fundamental ideas of analytic geometry and calculus.

Prerequisite: course 9.
Professor HEDRICK

111A. Theory of Algebraic Equations. (3) II. (Credit A, B)
M W F, 9.
Assistant Professor WORTHINGTON
Prerequisite: courses 8 and 9.

111B. Higher Algebra. (3) I. (Credit A, B) M W F, 2.
Prerequisite: courses 8 and 9
Assistant Professor SHOWMAN
Infinite series and products, continued fractions, theory of numbers.

112. Analytic Geometry of Space. (3) I. (Credit A, B) M W F, 10.
Prerequisite: courses 5 and 6.
Associate Professor JAMES

114. Advanced Analytic Geometry. (3) II. (Credit A, B) M W F, 10.
Prerequisite: courses 5, 6, and 9.
Associate Professor JAMES
Introduction to modern methods in analytic geometry.

115. Theory of Numbers. (3) II. (Credit A, B) M W F, 8.
Assistant Professor DAUS

119. Differential Equations. (3) II. (Credit A, B) Tu Th S, 9.
Assistant Professor SHOWMAN
Prerequisite: course 109, or its equivalent.

*124A–124B. Vector Analysis. (2–2) Yr. (Credit A, B) Tu Th, 10.
Associate Professor JAMES
Prerequisite: one year of college physics and calculus.

*125A–125B. Analytic Mechanics. (3–3) Yr. (Credit A, B) M W F, 10.
Assistant Professor SHOWMAN
Prerequisite: course 109, or its equivalent.

190. The Teaching of Mathematics. (3) II. (Credit A, B) M W F, 10.
Prerequisite: course 9 or its equivalent.
Professor HEDRICK
A critical inquiry into present-day tendencies in the teaching of mathematics.

CIVIL ENGINEERING

11A–11B. Plane Surveying Lectures. (2–2) Yr. (Credit A)
Tu Th, 10, 11.
Assistant Professors SHOWMAN, HUNT
Prerequisite: trigonometry and geometrical drawing.

11A–11B. Plane Surveying Field Practice. (1–1) Yr. (Credit A)
M W F, 2–5; Tu Th, 1–4; S, 9–12.
Mr. MASON
This course may be taken only in conjunction with, or subsequent to Civil Engineering 11A–11B.

* Not to be given, 1925–26.
Announcement of Courses

3. Summer Class in Plane Surveying. (3) (Credit A)

Assistant Professor Showman

Prerequisite: Civil Engineering 15A-15B.

Four weeks of field work after the close of the school year.

3. Materials of Engineering Construction. (2) II. (Credit A)

Tu Th, 10.

Prerequisite: sophomore standing.

ASTRONOMY

1. Elementary Astronomy. (3) Either half-year. (Credit A, B)

Sec. 1, M W F, 10; Sec. 2, M W F, 2.

Dr. Leonard

Prerequisite: elementary algebra and plane geometry.

An introductory, descriptive course in the general principles and facts of astronomy, presented as far as possible in non-technical language.

3. Surveyor's Course in Practical Astronomy. (1) II. (Credit A)

Th, 1-4.

Dr. Leonard

Prerequisite: Civil Engineering 15A, and credit or registration in Civil Engineering 15B.

A course intended primarily for engineers. The principles of spherical trigonometry and elementary practical astronomy adapted to the needs of students in the Colleges of Engineering. Computing.


Prerequisite: Astronomy 1.

Dr. Leonard

11. Modern Astronomy. (3) II. (Credit A, B) M W F, 8.

Prerequisite: Astronomy 1.

Dr. Leonard

The stars and nebulae. Progress in astronomy through modern methods, especially spectroscopic and photographic.

UPPER DIVISION COURSES

108A-108B. General Astronomy. ((3-3) Yr. (Credit A, B)

M W F, 11.

Dr. Leonard

Prerequisite: Mathematics 3A and Physics 2A-2B, 3A-3B, or their equivalent.

The general principles and facts of astronomy in all its branches, developed and discussed in detail.

117. Astrophysics. (3) I. (Credit A, B)

Tu Th, 1, and one laboratory period.

Dr. Leonard

A general review of present-day problems in astrophysics, with particular reference to the application of the spectroscope to their solution. Open to upper division students whose major subject is mathematics, physics, or chemistry, and to others who have equivalent prerequisites.
MECHANIC ARTS

HAROLD WILLIAM MANSFIELD, Assistant Professor of Mechanic Arts and Director of Shops.

JOHN B. PHILLIPS, Associate in Mechanic Arts.

JAMES WILLARD MARSH, Associate in Mechanic Arts.

FOSS R. BROCKWAY, Associate in Mechanic Arts.

CHARLES H. PAXTON, B.S., Associate in Mechanic Arts.

ADRIAN B. KELLEB, B.S. in E.E., Associate in Mechanic Arts.

Requirements for the Secondary Special Teaching Credential in Mechanic Arts.—Completion of all requirements for the degree of Bachelor of Education listed on pages 86–87, including the following specified courses:

(a) Education 148, 160, 166, 170, 180; Teaching, 4–10 units.


(c) Mathematics 1; Mechanical Engineering D; Physics 2A, 2B.


MECHANICAL ENGINEERING

D. Engineering Drawing. (2) Either half-year. (Credit A, B)
Tuition and Fees

Tu Th, 8–11. Assistant Professor MANSFIELD, Mr. PAXTON

1. Elements of Heat Power Engineering. (3). (Credit A, B)
M W F, 11. Mr. PAXTON

2. Descriptive Geometry. (3) Either half-year. (Credit A, B)
Mr. PAXTON

Lectures, Tu, 11. Drafting: Sec. 1, Tu Th, 1–4; Sec. 2, W, 2–5; Sec. 3, F, 9–12.

6. Machine Drawing and Design. (5) Either half-year. (Credit A)
Lecture, M W F, 10. Drafting, M F, 2–5: Mr. PAXTON

8A–8B. Shop Work. (2–2) Yr. (Credit A, B)
Lecture, Tu, 1, and five hours laboratory.
Pattern making and foundry practice.

Mr. KELLEB
Announcement of Courses

9A–9B. Shop Work. (2–2) Yr. (Credit A, B) Mr. Phillips
   Lecture, M, 2, and five hours laboratory.
   Metal work in metal.

S18. Summer Session Shop Work. (3). (144 working hours required)
   Assistant Professor Mansfield
   Shop work in pattern making and foundry practice or in machine
   shop practice.

Mechanic Arts

10A–10B. Shop Work. (2–2) Yr. (Credit B) Mr. Keller
   Bench work in wood. Fundamental tool and joinery operations;
   care and operation of power machinery.

11A–11B. Shop Work. (2–2) Yr. (Credit B) Mr. Keller
   Elementary woodwork, painting, finishing, and decorating.

12. Shop Work. (2) II. (Credit B). Mr. Keller
   Furniture construction and repair, upholstering, finishing, and re-
   finishing. Study of period furniture. Construction, methods of laying
   out various parts; use of jigs. Methods of preparing and applying
   paints, stains, and varnishes in finishing and refinishing.

40. Shop Work. (1) (Credit B) Mr. Phillips
   Forging and oxy-acetylene welding.

45. Shop Work. (2) I. (Credit B) Mr. Marsh
   Storage battery construction and repair; lead burning; battery
   charging, treatment, and care.

50. Machine Drawing. (2) I. (Credit B) Assistant Professor Mansfield
   Machine elements and their application to problems in occupations
   and home mechanics.

51. Architectural Drawing. (2) II. (Credit B) Assistant Professor Mansfield
   Lettering, details of typical frame and masonry construction, plans,
   elevations, sections and specifications.

70. The Gasoline Automobile. (2) I. (Credit A, B) Mr. Marsh
   Unit construction; operation and upkeep of the car.
Announcement of the Southern Branch

75A–75B. Shop Work. (2–2) Yr. (Credit B)  Mr. Phillips
Machine shop practice.

100A–100B. Shop Work. (3–3) Yr. (Credit B)  Mr. Keller

150A–150B. Applied Electricity. (2–2) Yr. (Credit B)  Mr. Marsh
Electron theory, electric and magnetic circuits; direct current, inductance; capacity; alternating and oscillating currents; and principles of radio communication.

160A–160B. Shop Work. (3–3) Yr. (Credit B)  Mr. Marsh, Mr. Brockway
Electrical bench work and radio construction.

160A–160B. Shop Work. (3–3). (Credit B)  Mr. Marsh, Mr. Brockway
Automobile repair; general garage work.

165. Automotive Laboratory. (3) II. (Credit B)  Mr. Marsh
Engine design and testing; fuels and lubricants.

180A–180B. Occupations and Home Mechanics. (3–3) Yr. (Credit B)  Assistant Professor Mansfield, Mr. Marsh
Organization and methods of pre-vocational teaching with application to the general shop plan. Pipe fitting; sheetmetal; bench metal; pumps; shoe repair.

190. Organization and Administration of Industrial Education. (2) II. (Credit B)  Assistant Professor Mansfield
Announcement of Courses

MILITARY SCIENCE AND TACTICS

GUY G. PALMER, Colonel, U. S. Army, Retired, Professor of Military Science and Tactics.

FREDERICK B. TERRELL, Major, U. S. Army, Retired, Assistant Professor of Military Science and Tactics.

CHARLES H. OWENS, Captain, U. S. Army, Assistant Professor of Military Science and Tactics.

CARTER COLLINS, Captain, U. S. Army, Assistant Professor of Military Science and Tactics.

HORACE K. HEATH, Captain, U. S. Army, Assistant Professor of Military Science and Tactics.

ALEXANDER N. STARK, JR., Captain, U. S. Army, Assistant Professor of Military Science and Tactics.

A major in Military Science and Tactics for the A.B. degree is not offered at the Southern Branch of the University. The requirements in preparation for the major in this department at the University of California in Berkeley are as follows: A combination major in military science and tactics is open to students in the College of Letters and Science who have fulfilled the requirements for membership in the Advanced Course of the Infantry Unit, Reserve Officers' Training Corps, and who have been granted the junior certificate, and who have received credit for Political Science 1A (3) and 1B (3), Mathematics 5 (3) and 9A-9B (6), or 3A-3B (3-3), and 4A-4B (3-3), and Jurisprudence 10A-10B (2-2).

The following additional preparation is recommended: high school chemistry and physics, and military science and tactics; foreign language requirement satisfied in Spanish, French, German, Russian, or Japanese; Philosophy 1A-1B (3-3); the Senior Basic Infantry Camp Course (3).

The courses in military training are those prescribed by the War Department for infantry units of the senior division of the Reserve Officers' Training Corps. The United States furnishes arms, equipment, uniforms, and some textbooks for the use of the students belonging to such units. The University, being responsible for textbooks and uniforms furnished by the United States, requires the student to deposit with the Comptroller $20 to cover the cost of the textbooks and uniforms issued to them. The deposit to cover special uniforms furnished students in the advanced course is $25. This deposit must be made before the student files his study-list. It is refunded at the close of the academic year or upon the student's withdrawal, provided the student then returns in good condition all the articles issued to him. An amount necessary to replace articles not returned by the student will be retained by the Comptroller.

The primary object of establishing units of the Reserve Officers Training Corps is to qualify students for appointment in the Officers' Reserve Corps of the United States Army. Students who complete the advanced course, and who participate in such summer camps as the Secretary of War may prescribe, are eligible upon graduation for appointment and
commission by the President of the United States in the Officers' Reserve Corps, which is intended to furnish a great part of the commissioned personnel for the temporary forces which this nation will require in time of emergency.

The courses are divided into two groups, viz., the basic course and the advanced course.

**BASIC COURSE**

The basic course is prescribed for all first-year and second-year undergraduate male students who are citizens of the United States, able-bodied, and under twenty-four years of age at the time of admission to the University. A first-year or second-year student claiming exemption because of non-citizenship, physical disability, or age will present to the Department of Military Science and Tactics a petition on the prescribed form for such exemption. Pending action on his petition the student will enroll in and enter the course prescribed for his year.

Students who have received training in a junior R. O. T. C. unit may be given advanced standing on the basis of two years junior R. O. T. C. for one year senior R. O. T. C. However, advanced standing will not excuse a student from the two years basic training required by the University unless he elects to take the advanced course, in which event junior R. O. T. C. credit to the extent of 1½ years senior R. O. T. C. credit may be given. Application for advanced standing must be made when registering and must be accompanied by a recommendation from the professor of military science and tactics at the school which the student attended.

1A-1B. Basic Military Training. (1½-1½) Yr. (Credit A, B)

Professor Palmer, Assistant Professors Terrell, Owens, Collins, Heath, Stark

M W F, 8, 11, 1.

Instruction in infantry drill, rifle marksmanship, military courtesy, military hygiene and first aid, physical training, and command and leadership.

2A-2B. Basic Military Training. (1½-1½) Yr. (Credit A, B)

Professor Palmer, Assistant Professors Terrell, Owens, Collins, Heath, Stark

M W F, 8, 11, 1.

Instruction in scouting and patrolling, musketry, interior guard duty, automatic rifle, and command and leadership.

**ADVANCED COURSE**

The advanced course is prescribed for such third-year and fourth-year students as have completed the basic course and elect to continue their military training.

† Alternate Wednesdays only.
Announcement of Courses

Any member of the senior division of the Reserve Officers' Training Corps who has completed two academic years of service in that division, who has been selected for further military training by the Director of the Southern Branch and the professor of military science and tactics and who executes the following written agreement, will be entitled, while not subsisted in kind, to a commutation of subsistence fixed by the Secretary of War in accordance with law (about $120.00 per year).

In consideration of commutation of subsistence to be furnished in accordance with law, I hereby agree to complete the advanced course Infantry R. O. T. C. in this or any other institution where such course is given, to devote five hours per week during such period to military training prescribed and to pursue the courses of camp training during such period as prescribed by the Secretary of War.

(Signature)

The course of camp training is for six weeks during the summer vacation normally following the student's completion of the first year of the advanced course. The United States furnishes uniform, transportation and subsistence and pays students at the rate prescribed for the seventh enlisted grade of the regular army. Students who attend receive one-half unit of credit for each week of the duration of the camp.

Cadet officers and, so far as practicable, sergeants of the unit, will be appointed from members of the junior and senior classes.

103A. Advanced Infantry Training. (3) Either half-year. (Credit A, B) 
†M Tu W Th F, 8, 11, 1. Assistant Professors Owens, Stark
Instruction and practice in the duties of officers in connection with the basic course; instruction in military sketching, military field engineering, military law, and rules of land warfare.

103B. Advanced Infantry Training. (3) Either half-year. (Credit A, B) 
†M Tu W Th F, 8, 11. Assistant Professor Heath
Instruction and practice in the duties of officers in connection with the basic course; instruction in machine gun theory of fire, direct and indirect fire, barrage firing, and tactical handling in the offense and defense.

104A. Advanced Infantry Training. (3) Either half-year. (Credit A, B) 
†M Tu W Th F, 8, 11, 1. Assistant Professor Collins
Instruction and practice in the duties of officers in connection with the basic course; instruction in infantry weapons (37 mm.-3 in. trench mortar), company administration, military history, and national defense act.

† Alternate Wednesdays only.
104B. Advanced Infantry Training. (3) Either half-year. (Credit A, B)

T M Tu W Th F, 8, 11.

Assistant Professor Terrell

Instruction and practice in the duties of officers in connection with
the basic course; instruction in combat principles of the rifle squad,
section, platoon, and company, the service company and the solving
of practical and map problems.

The basic R. O. T. C. camp may be attended by students who are
members of the basic course at the completion of either the first or the
second year. Attendance is voluntary. Students who satisfactorily
complete a course in a Reserve Officers' Training Corps or a military train-
ing summer camp conducted by the United States Government may receive
credit towards graduation at the rate of one-half (½) unit per week for
each course so completed. But it is provided: (a) that no credit thus
earned in or after 1925 shall excuse a student from the courses in military
science and tactics required of all male undergraduates during their fresh-
man and sophomore years, and (b) that the total credit thus earned by
any student shall not exceed six (6) units.
Announcement of Courses

MUSIC

SQUIRE COOP, Lecturer in Music.
FRANCES A. WRIGHT, Associate Professor of Music.
A. J. GANTVOORT, Lecturer in Music.
BEETHA C. VAUGHN, Teacher of Voice.

A major in Music for the A.B. degree is not offered at the Southern Branch of the University. The requirements in preparation for the major in this department at the University of California in Berkeley are as follows: Music 1A-1B (6), 3A-3B (4), 4A-4B (4), 5A, 5B (6).

Applicants for any music course must show evidence of musical talent, including ability to read music. Ability to play piano music of advanced grade is a prerequisite to the work of the junior year, in addition to courses described below.

Requirements for the Secondary Special Teaching Credential in Music.—Completion of all requirements for the degree of Bachelor of Education listed on pages 86-87, including the following specified courses:

(a) Education 148; 170, 180; Psychology 110; Teaching, 4-10 units; elective courses in Education to total 24 units.


1A-1B. Choral Practice. (1-1) Yr. (Credit A, B) Mr. Coop
Open only to vocalists of ability.

2A-2B. Orchestral Practice. (1-1) Yr. (Credit A, B) Mr. Coop
Section I. General rehearsal.
Section II. String or brass ensemble. Open only to instrumentalists of advanced ability.

3A-3B. History of Music. (2-2) Yr. (Credit A, B) Mr. Coop
Lectures with illustrative programmes. A survey of the history of music with reference to those events which effect our present musical interests. Material for presentation in the schools.

4A-4B. Elementary Harmony. (3-3) Yr. (Credit A, B) Mr. Gantvoort
Prerequisite: course 5A-5B.

5A-5B. Music Reading. (No credit) Mr. Kraft

6A-6B. Musicianship. (3-3) Yr. (Credit B) Mr. Kraft
Prerequisite: course 5A-5B taken previously or concurrently.
Announcement of the Southern Branch

7A-7B. Voice. (1-1) Yr. (Credit A, B) Mrs. VAUGHN
8A-8B. Voice. (1-1) Yr. (Credit A, B) Mrs. VAUGHN

60. Music in the Elementary School. (2) Either half-year. (Credit B) Associate Professor WRIGHT
Not open for credit to students taking Music 61.

61. Music in the Kindergarten and Primary School. (3) Either half-year. (Credit B)
Associate Professor WRIGHT
Not open for credit to students taking Music 60.

101A-101B. Counterpoint. (2-2) Yr. (Credit A, B) Mr. KRAFT
Prerequisite: Music 155A-155B.
Practice in one of the technical processes of music writing. The association of tone lines harmonically but independent melodically.

105A-105B. Composition. (2-2) Yr. (Credit A, B) Mr. KRAFT
Prerequisite: Music 155A-155B.
Vocal and instrumental composition in the smaller forms.

109A-109B. Conducting. (1-1) Yr. (Credit A, B) Mr. COOP
Prerequisite: Music 5A-5B, 4A-4B. (Music 5A-5B unless previously taken may be required for supplementary study.)
Chorus organization and training; the technique of the baton. A brief survey of choral literature; the principles underlying the selection of programmes.

111A-111B. Music Literature. (2-2) Yr. (Credit A, B) Mr. COOP
Introduction to the critique of music.

112A-112B. Music Education. (3-3) (Credit B)
Associate Professor WRIGHT, Mr. GANTVOORT
Prerequisite: Music 4A-4B, 7A-7B, 335.
Organization and administration of public school music.

114A-114B. Instrumentation. (2-2) Yr. (Credit A, B) Mr. COOP
Prerequisite: Music 155A-155B.
Organization of the orchestra and character of the instruments; theory and practice of writing and arranging music.

135. Supervision—Elementary Grades. (1) II. (Credit B)
Associate Professor WRIGHT, Mr. GANTVOORT
Technique of constructive criticism for supervisors of elementary school music.

155A-155B. Advanced Harmony. (3-3) Yr. (Credit A, B)
Prerequisite: Music 4A-4B. Mr. GANTVOORT

184. Supervision—Secondary Grades. (2) Either half-year. (Credit B)
Associate Professor WRIGHT
Technique of constructive criticism for supervisors of secondary school music.
PHILOSOPHY

CHARLES H. RIEBER, Ph.D., Professor of Philosophy and Dean of the College of Letters and Science.

DONALD S. MACKAY, Ph.D., Assistant Professor of Philosophy.

HOWARD D. ROLOFS, Ph.D., Assistant Professor of Philosophy.

Preparation for the Major.—Courses 1A–1B, 3A–3B.

The Major.—The upper division programme: (a) Each student offering a major in philosophy shall choose from upper division courses in the department at least 18 units, which shall include two year-courses.

(b) The remainder of the 24 units required for the major may be chosen by the student, with the approval of a departmental adviser, from the following courses in departments related to the major:

Specific courses in other departments.—English 121A–121B, 125E–125H; French 109A–109B; German 105A–105B; Classics 112A, 112B; Mathematics 109; Physics 111; Political Science 112, 113, 115.

Lower Division Courses

1A. Logic. (3) Either half-year. (Credit A, B) M W F, 11.

Professor RIEBER, Assistant Professor ROLOFS

Deductive logic. Division, definition, the forms and transformations of judgments, the syllogism.

1B. Logic. (3) Either half-year. (Credit A, B) M W F, 2.

Professor RIEBER, Assistant Professor ROLOFS

Prerequisite: Philosophy 1A.

Inductive logic. The presuppositions, methods and limits of inductive sciences.

3A. History of Philosophy. (3) I. (Credit A, B)

Assistant Professor MACKAY

The development of ideas from Thales to Plotinus.

3B. History of Philosophy. (3) II. (Credit A, B)

Assistant Professor MACKAY

The problems and systems of philosophy from the rise of Christendom to the nineteenth century.
Announcement of the Southern Branch

Upper Division Courses

General Prerequisite.—Students enrolling in any upper division course must have completed six units of work in the lower division courses, 1A–1B, 3A–3B.

104A–104B. Ethics. (3–3) Yr. (Credit A, B)

Assistant Professor Mackay

First half-year: A study of the natural basis of conduct in the light of ethical theory, and an analysis of different types of life and character in selected biographies.

Second half-year: A discussion of the development, meaning and conflict of moral standards as revealed in present industrial and political conditions. Recommended: Psychology 1A.

105. Kant. (3) Either half-year. (Credit A, B)

Assistant Professor Roelofs

The critical philosophy of Kant. Historical aspects of Kant’s position will be noted, as well as the significance of his method for problems of contemporary thought.

112. Philosophy of Religion. (3) I. (Credit A, B) Professor Bierber

Prerequisite: Philosophy 3A–3B.

A study of the nature and methods of religious knowledge. The problem of how religious truth may be known; its field and extent. The three chief avenues to religious truth: Rationalism, Empiricism, and Mysticism.

116. Plato. (3) Either half-year. (Credit A, B)

Recommended: Greek 101. Assistant Professor Mackay

The principal dialogues of Plato will be read in translation with a view to their dramatic form and their philosophical implications, especially in the Socratic teachings and the subsequent thought of Aristotle.

119. British Philosophy. (2) Either half-year. (Credit A, B)

Assistant Professor Mackay

English and Scottish empiricism from Francis Bacon to Herbert Spencer.

121A–121B. Social and Political Philosophy. (2–2) Yr. (Credit A, B)

Assistant Professor Roelofs

Typical theories of the state and definitions of social ideals considered in their historical development and contemporary significance.

135A–135B. Present Philosophical Tendencies. (3–3) Yr. (Credit A, B)

Assistant Professor Roelofs

A survey of recent tendencies in philosophy illustrated by a more detailed study of particular theories.
136A–136B. Esthetics. (3–3) Yr. (Credit A, B)

Associated Professor Gordon

First half-year: Discussion of the standards of taste (including experiments in group judgments), the individual and social function of art, emotion, imagination, etc. Study of certain principles of beauty in visual arts.

Second half-year: Discussion of concepts of "soul," "self," and "character," with special reference to their meaning in art. Also a study of some of the principles of esthetic value in the musical and literary arts.

146. Literary Expressions of Philosophical Problems. (3) II.

(Credit A, B) Professor Rieber

Comparison between philosophical and literary expressions of typical problems of philosophy. A discussion of idealism, realism, mysticism, and other human attitudes as expressed in literature.
Announcement of the Southern Branch

PHYSICAL EDUCATION FOR MEN

WILLIAM H. SPAULDING, A.B., Director of Physical Education for Men.
*FREDERICK W. COXENS, M.A., Assistant Professor of Physical Education for Men.

PAUL FRAMPTON, Ed.B., Assistant Supervisor of Physical Education for Men.

FRED H. OSTER, Associate in Physical Education for Men.

G ALE B. NEEDHAM, Associate in Physical Education for Men.


WILLIAM C. ACKERMAN, Assistant in Physical Education for Men.

WILLIAM J. NORRIS, M.D., Physician for Men.

E. R. WARE, M.D., Assistant Physician for Men.

A major in Physical Education for the A.B. degree is not offered at the Southern Branch of the University. The requirements in preparation for the major in Physical Education and Hygiene at the University of California in Berkeley are as follows:

Required: High school chemistry, Physiology 1A, Bacteriology 1, Economics 1A-1B, Psychology 1A, Hygiene 3, participation in physical education activities.

Recommended: German, French, and public speaking.

Requirements for the Secondary Special Teaching Credential in Physical Education.—Completion of all requirements for the degree of Bachelor of Education as listed on pages 86-87, including the following specified courses:

(a) Education 148, 170, 180; Psychology 110; Teaching, 4-10 units; elective courses in Education to total 24 units.

(b) Physical Education 29A-B-C-D, 30A-B-C-D, 5, 131, 149, 155A-155B, 156A-156B, 180, 182A-182B, 192A-192B.

(c) Chemistry 2A-2B; Physiology 1; Biology 1; Zoology 35.

PRELIMINARY STATEMENT

Gymnasium Suit Fee.—All male students unless excused from physical education by formal petition are required to pay a gymnasium suit fee of $5 at the time of registration. This fee entitles the student to the use of a regulation gymnasium costume during his course. Tennis shoes must be furnished by the individual. The department provides for the laundry of suits.

* Absent on leave, 1925-26.
Announcement of Courses

Medical Examination.—All students entering or re-entering the Southern Branch are required to pass a medical examination. Men showing abnormality of bodily conformation or physical defects of any sort are classed as ‘‘special’’ and are given individual work and advice based upon the data of the medical and physical examinations.

Students failing to qualify for the R. O. T. C. on account of physical disability are required, in addition to their regular work in physical education, to take courses 2A-B-C-D.

Plan of Prescribed Work.—Intrants are classified for their prescribed work on the basis of posture and physical efficiency, determined through tests of health, strength, endurance, agility, ability to swim, and skill in self-defense. Men may qualify for the athletic division by passing these physical efficiency tests at the beginning of each semester, and may then take regular work in any type of sport offered in a particular semester. Men failing so to qualify but not found defective in any essential of health or bodily conformation will be assigned to work adapted to their special needs. This will include work in gymnastic agility, defense, track agility, and swimming. The aim of the department is to promote men as quickly as possible into the athletic division.

Requirements.—Students are required to take two hours per week for four semesters (1 unit credit per semester).

Hygiene 1. Military Hygiene and Sanitation. (1) Either half-year. (Credit A, B) S, 8.

Dr. Norris, Dr. Ware

1A-B-C-D. Gymnastics. (4) Either half-year. (Credit A, B)

Mr. Needham, —

Class work in the fundamentals of heavy apparatus and tumbling.

2A-B-C-D. Individual Gymnastics. (4) Either half-year. (Credit A, B)

Mr. Needham, —

Special work to fit individual needs.

3A-B-C-D. Track. (4) Either half-year. (Credit A, B)

Mr. Ackerman, Mr. Trotter

Class work in the fundamentals of running, jumping, hurdling, vaulting, and weight throwing. Open also to men enrolled on the varsity or freshman squads.

4A-B. Baseball. (4) II. (Credit A, B) Mr. Ackerman, Mr. Works

Open to men enrolled on the varsity or freshman squads.

5A-B-C-D. Basket-ball. (4) Either half-year. (Credit A, B) Mr. Works

Open to men enrolled on the varsity or freshman squad.

6A-B-C-D. Tennis. (4) Either half-year. (Credit A, B) Mr. Ackerman

All men enrolled in tennis must pass the tests of the department unless they are enrolled on the varsity or freshmen squads.

7A-B-C-D. Boxing. (4) Either half-year. (Credit A, B) Mr. Frampton

Principles of position, balance, footwork, and blows.
Announcement of the Southern Branch

8A-B-C-D. Wrestling. (‡) Either half-year. (Credit A, B) —
Weight control, the development of various holds, their counters and blocks.

9A-B-C-D. Fencing. (‡) Either half-year. (Credit A, B)
Class and individual instruction in foil, epee, and broadsword.

10A-B-C-D. Swimming. (‡) Either half-year. (Credit A, B)
Mr. Needham
Class and personal instruction in the various strokes, in methods of rescue and resuscitation, and in diving.

13A-C. American Football. (‡) I. (Credit A, B)
M Tu W Th F, 4-6.
Mr. Spaulding, Mr. Trotter
Open to men enrolled on the varsity or freshman squads.

15A-B-C-D. Handball. (‡) Either half-year. (Credit A, B)
Mr. Ackerman
Open to fourth semester men who have passed tests.
Tournaments under supervision. Classes limited to sixteen men.

29A-B-C-D. Practice in Athletic Activities. (1-1) Yr. (Credit B)
Mr. Frampton
Required of physical education majors in their first and second years of work.

30A-B-C-D. Practice in Athletic Activities. (1-1) Yr. (Credit B)
Mr. Frampton
Required of physical education majors in their third and fourth years of work.

131. Organization and Management of School Playgrounds. (2) II.
(Credit A, B)
Mr. Frampton
Details of the organization of physical training activities, organization and classification of children, the planning of a programme for the elementary school; playground arrangement and construction.

154. The Teaching of Elementary School Activities. (2) II. (Credit B)
Mr. Frampton
The technique of activities taught in the elementary school leading up to games of higher organization.

*155A-1555. Methods and Practice in Teaching Gymnasium Activities. (2-2) Yr. (Credit B)
Assistant Professor Cozens
Prerequisite: courses 1A, 7A, 8A, or equivalent training.
Tactics, free exercises, apparatus, gymnastic dancing, and gymnastic games.

156A-1565. Methods and Practice in Coaching Athletics. (2-2) Yr.
(Credit B)
Mr. Spaulding
Prerequisite: courses 3A, 4A, 5A, 13A, 30AB, or equivalent training.
(A) Football and basketball. (B) Track and baseball.

* Not to be given, 1925-26.
PHYSICAL EDUCATION FOR WOMEN

RUTH V. ATKINSON, B.S., Assistant Professor of Physical Education for Women, and Director of Women's Gymnasium.

LUCILE R. GRUNEWALD, B.S., Assistant Supervisor of Physical Education for Women.

Hazel Cubberley, B.S., M.A., Associate in Physical Education for Women.

Martha Dean, A.B., Associate in Physical Education for Women.

Marjorie Forchemer, B.S., Associate in Physical Education for Women.

Bertha Hall, Associate in Physical Education for Women.

Edith R. Harshberger, A.B., Associate in Physical Education for Women.

Emily D. Jameson, A.B., Associate in Physical Education for Women.

Effie Shambaugh, A.B., Associate in Physical Education for Women.

Laura Sharp, Associate in Physical Education for Women.

Marion Shepard, A.B., Associate in Physical Education for Women.

Ina Teach, Associate in Physical Education for Women.

Ethel Sutton Bruere, Associate in Physical Education for Women.

Ruby I. McElrath, B.N., Associate in Physical Education for Women.

Horstense Gerviss, Assistant in Physical Education for Women.

†Mildred M. Strohl, Assistant in Physical Education for Women.

Lillian Ray Titoom, M.D., Physician for Women.

Katherine Close, M.D., Lecturer in Hygiene.

A major in Physical Education for the A.B. degree is not offered at the Southern Branch of the University. The requirements in preparation for the major group in physical education and hygiene at the University of California in Berkeley are as follows:

Required: High school chemistry, Physiology 1A, Bacteriology 1 or Physiology 1B, Economics 1A–1B, Psychology 1A, and Hygiene 3; participation in physical education activities.

Recommended: Hygiene 4, German or French, and public speaking.

Requirements for the Secondary Special Teaching Credential in Physical Education.—Completion of all requirements for the degree of Bachelor of Education as listed on pages 00–00, including the following specified courses:

(a) Education 148, 170, 180; Psychology 110; Teaching, 4–10 units; elective courses in Education to total 24 units.


(c) Chemistry 2A–2B; Biology 1; Zoology 35; Physiology 1.

† In residence second half-year only.

‡ In residence first half-year only.
I. Required courses in physical education for the students registered in the College of Letters and Science:

Physical Education 52A (Folk Dancing), 52B (Natural Dancing), 52C (Choice of Sports). All students who fail to pass swimming test are required to register for swimming, 52D (Choice of Sports).

II. Required courses in physical education (2 units) for students registered in the Teachers College:

(a) Choice of Physical Education 60A (Folk Dancing), 60B (Clog Dancing), 61A, B (Natural Dancing), 71 (Athletics), A, Baseball; B, Basketball; C, Hockey; D, Indoor Baseball; 75A, B (Tennis) 76A, B (Swimming).

(b) Physical Education 10A, B (for General Professional), 12A, B (Kindergarten-Primary), 14A, B (Art and Music).

Note.—Any student unable to maintain a posture standard will be required to enter a class in posture training in addition to other requirements.

III. For requirements for major students in the Department of Physical Education see schedule.

2. Hygiene. (2) Either half-year. (Credit A, B) Dr. Titcomb

5. First Aid. (1) I. (Credit A, B) Mrs. McLinn

10A–10B. Physical Education. (2–2) Either half-year. (Credit B)

Miss Forchemer, Miss Jameson, Miss Shambaugh, Miss Shepherd

(a) The theory and practice of physical education for the elementary school. Practice teaching in own classes and with children on the playground.

(b) Theory and practice of physical education in the secondary schools with special emphasis on hygiene teaching.

12A–12B. (2–2) Either half-year. (Credit B) Miss Hall

Theory and practice in physical education activities suited to the needs of the kindergarten and lower grades. Opportunity for practice teaching, brief survey of problems of hygiene.

14A–14B. Physical Education. (2) Either half-year. (Credit B) Miss Dean, Miss Shambaugh

(a) Theory and practice of physical education for the elementary schools as applicable particularly to students in the Departments of Art and Music.

(b) Theory and practice of physical education for the secondary schools, festivals, and pageants.

150A. Formal Gymnastics. (‡) I. (Credit A, B) Miss Harshberger

150B. Self-testing Activities. Technique. (‡) II. (Credit A, B) Miss Cubberley, Miss Gerviss

† For major students in the Department of Physical Education.
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\[t50c. \text{Formal Gymnastics. (4). (Credit A, B) Miss Harshberger}\]

52a. Folk Dancing. (4) Either half-year. (Credit A)

Miss Harshberger, Miss Shambaugh, Miss Thach

Prescribed course for freshmen in College of Letters and Science.

52b. Natural Dancing. (4) Either half-year. (Credit A)

Miss Dean, Miss Forchemer, Miss Thach

Prescribed course for freshmen in College of Letters and Science.

52c-52d. Athletics (Choice of Sports). (4-4) Either half-year.

(Credit A, B) Miss Cubberley, Miss Forchemer, Miss Sharp

Prescribed course for sophomores in the College of Letters and Science.

Note.—Juniors and seniors in the College of Letters and Science may elect 60a, 61b, 54a, b (Elective Sports). 54a, b will meet with 52c.

53. Individual Gymnastics or Archery. (4) Either half-year. (Credit A, B)

Miss Grunewald and the Staff

Required of all students whose medical or physical examination indicates the need of restrictive or corrective exercises. This fulfills the one-half unit physical education requirement for both Teachers College and the College of Letters and Science.

54a-54b. Elective Sports. Either half-year. (Credit A, B)

Juniors and seniors in the College of Letters and Science.

60a. Folk Dancing. (4) Either half-year. (Credit A, B)

Miss Dean, Miss Forchemer, Miss Thach

Open to Teachers College students and juniors and seniors in the College of Letters and Science.

60b. Clog Dancing. (4) Either half-year. (Credit B)

Miss Dean, Miss Forchemer, Miss Thach

Open to Teachers College students.

Prerequisite: 60a.

61a. Natural Dancing. (4) Either half-year. (Credit A, B) Miss Dean

Open to Teachers College students.

61b. Natural Dancing. (4) Either half-year. (Credit A, B) Miss Dean

Open to juniors and seniors in the College of Letters and Science, as well as Teachers College.

Prerequisite: 61a for Teachers College.

\[t62a-62b. \text{Folk Dancing. (4-4) Yr. (Credit A, B) Miss Dean}\]

\[t62c. \text{Folk Dancing. (4) I. (Credit A, B) Miss Harshberger}\]

\[t62d. \text{Clog Dancing. (4) I. (Credit A, B) Miss Dean, Miss Forchemer}\]

† For major students in the Department of Physical Education.
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163A. Natural Dancing. (½) II. (Credit A, B) Miss Dean

163B-63C. Natural Dancing. (1-1) Yr. (Credit A, B) Miss Dean

170A. Hunting Games. (½) I. (Credit B) Miss Grunewald

170B. Rhythmic Plays and Dramatic Games. (½) II. (Credit B) Miss Hall

71A. Baseball. (½) Either half-year. (Credit B) Miss Cubberley, Miss Forchemer, Miss Sharp Athletics for students in Teachers College.

71B. Basketball. (½) Either half-year. (Credit B) Miss Cubberley, Miss Forchemer, Miss Sharp Athletics for students in Teachers College.

71C. Hockey. (½) Either half-year. (Credit B) Miss Cubberley, Miss Forchemer, Miss Sharp Athletics for students in Teachers College.

71D. Indoor Baseball. (½) Either half-year. (Credit B) Miss Cubberley, Miss Forchemer, Miss Sharp Athletics for students in Teachers College.

72A-72B. Athletics. (1-1) Yr. (Credit B) Miss Cubberley, Miss Sharp

73A-73B. Athletics. (½-½) Yr. (Credit B)

75A-75B. Tennis. (½-½) Yr. (Credit A, B) Miss Bruce, Miss Gerviss Open to students in Teachers College.

76A-76B. Swimming. (½-½) Yr. (Credit A, B) Open to students in Teachers College. Miss Gerviss, Miss Sharp

93. Principles of Nutrition and the Application to Problems in Physical Education. (2) II. (Credit B) Professor Thompson

121A. Methods of Teaching Hygiene and Physical Education in the Elementary Schools. (2) I. (Credit A, B) Prerequisite: Psychology 1B. Assistant Professor Atkinson Lectures in this course deal with the subject matter in physical education for the elementary schools with reference to the development and needs of the child. Practice in selecting and teaching material.

121B. Methods of Teaching Hygiene and Physical Education in the Secondary Schools. (2) II. (Credit A, B) Assistant Professor Atkinson

Prerequisite: Physical Education 121A.

† For major students in the Department of Physical Education.
Announcement of Courses

149. Kinesiology. (3) I. (Credit A, B) Miss Jameson

151A-151B. Theory of Gymnastics with Practice Teaching. (4-4) Yr. (Credit B) Miss Cubberley, Miss Harshberger

162A-162B. Theory of Dancing with Practice Teaching. (1-1) Yr. (Credit B) Miss Dean

Prerequisite: courses 62A and 63C.
Lectures and practice, study of the festival and pageant.

172A-172B. Theory of Athletics. (1-1) Yr. (Credit B) Miss Cubberley, Miss Sharp

Sport technique covering major sports and coaching.

173A-173B. Theory of Athletics. (1-1) Yr. (Credit B) Miss Cubberley, Miss Sharp

Sport coaching and administration.

180 Principles and Administration of Physical Education (2) I. (Credit A, B) Assistant Professor Atkinson

Prerequisite: Physical Education 121A-121B.

181. Clubcraft. (1) I. (Credit A, B) Assistant Professor Atkinson

Study of principles, aims and programmes of better established club movements and organizations—particularly adapted for workers in playground, summer camps, and community centers.

182A. Therapeutic Gymnastics. (3) II. (Credit A, B) Miss Grunewald

Study of posture and of the etiology and treatment of orthopedic conditions.

182B. Therapeutic Gymnastics. (3) I. (Credit A, B) Miss Grunewald

Prerequisite: Physical Education 149.
Study of anthropometry, massage and treatment of remedial conditions. Two hours of clinic per week.

190. Physiology of Exercise. (3) II. (Credit A, B) Dr. Close

Prerequisite: Zoology 35.

192A-192B. Normal Diagnosis. (2-2) Yr. (Credit A, B) Dr. Close

Prerequisite: Physical Education 190 and Physiology 1.
PHYSICS

--- --- ---, Professor of Physics.

JOHN MEAD ADAMS, Ph.D., Associate Professor of Physics.
LAURENCE ELLSWORTH DOND, Ph.D., Associate Professor of Physics.
HIRAM W. EDWARDS, Ph.D., Associate Professor of Physics.
VERN O. KNUDSEN, Ph.D., Assistant Professor of Physics.
JOSEPH W. ELLIS, Ph.D., Instructor in Physics.
ARTHUR H. WARNER, A.B., R.S., Associate in Physics.
LEO P. DELSASSO, A.B., Associate in Physics.
HARRY A. KIRKPATRICK, A.B., Associate in Physics.

Courses 1A–1B and 1C–1D are fundamental and are designed to meet the needs of students whose major is physics and of students preparing for applications of physics in Pre-Engineering and Pre-Chemistry.

Preparation for the Major.—Required: Physics 1A–1B, 1C–1D or their equivalents (in meritorious cases Physics 2A–2B, 3A–3B may be accepted); Chemistry 1A–1B; Mathematics C, 5, 9, or their equivalents. Recommended: a reading knowledge of French and German.

The Major.—Twenty-four units of upper division work are required. Courses 105A–105B, 108A, and either 110A–110B or 107A–107B must be included. Mathematics 124A–124B and Chemistry 110 may be counted toward the 24 unit requirement.

Laboratory Fees.—The laboratory fee for each lower division course (1A–1B, 1C–1D, 3A–3B) is $4 per half-year. The fee for each upper division laboratory course (107A–107B, 108A–108B) is $3 per half-year. The student will, in addition, be held responsible for all apparatus lost or broken.

LOWER DIVISION COURSES

Prerequisite for all lower division courses: either (1) the high school course in physics, or (2) three years of high school mathematics, including trigonometry, and the high school course in chemistry.

1A–1B. General Physics. (3–3) Yr. (Credit A)

Assistant Professor KNUDSEN and the STAFF
Lectures, Tu Th, 11; quiz and laboratory, 3 hours.

Mechanics, sound and heat. Open to students in all colleges. Required for students in the College of Letters and Science whose major subject is physics, and for students in engineering, chemistry, and architecture.
Announcement of Courses

1c-1d. General Physics. (3-3) Yr. (Credit A)  
Associate Professor Dodd, Mr. Warner  
Lectures, Tu Th, 9; laboratory, 3 hours.  
Electricity and light. Open to students in all colleges. Required for students in the College of Letters and Science whose major subject is physics, and for students in engineering, chemistry, and architecture.

2a-2b. General Physics. (3-3) Yr. (Credit A, B)  
Associate Professors Adams, Edwards  
Mechanics, sound, heat, light, electricity.  
Section 1: lectures, M W F, 9. For students desiring a descriptive course, without laboratory work.  
Section 2: lectures, M W F, 11. Prescribed for pre-medical students; open to others only if they take course 3a-3b concurrently.

3a-3b. Physical Measurements. (1-1) Yr. (Credit A, B)  
Prescribed for pre-medical students; open to others who take Physics 2a-2b concurrently.

5. Magnetism and Electricity. (3) II. (Credit A)  
Prerequisite: Physics 1c; Mathematics 4a.  
Preparatory to courses in electrical engineering.

Upper Division Courses

Prerequisite for all upper division courses: Physics 2a-2b, 3a-3b; Mathematics 3a-3b, or the equivalents.

103a-103b. Mathematical Physics. (2-2) Yr. (Credit A, B) Dr. Ellis  
Gravitational attraction, potential theory, hydrodynamics, Fourier series and heat conduction, wave-motion.

105a-105b. Analytic Mechanics. (3-3) Yr. (Credit A, B)  
Associate Professor Edwards  
The statics and the dynamics of particles and rigid bodies.

107a-107b. Electrical Measurements. (3-3) Yr. (Credit A, B)  
Prerequisite: Physics 1c.  
Assistant Professor Knudsen  
Lectures, student reports and laboratory work on direct and alternating measuring instruments, alternating circuits, filter circuits, and thermionics.

108a. Geometrical Optics. (3) I. (Credit A, B)  
Associate Professor Dodd  
Lectures, demonstrations and laboratory work on geometrical methods applied to the optics of mirrors, prisms and lenses.
Announcement of the Southern Branch

1B. Comparative Government. (3) II. (Credit A, B) Professor Munro
Prerequisite to all upper division courses in the department.
The governments of Great Britain and her self-governing dominions, France, Germany, Switzerland, Italy and the succession states.

2A. Principles and Problems of Politics. (2) I. (Credit A, B)
Tu Th, 9. Professor Haines, Assistant Professors Graham, Sly
A study of the origin, forms, functions, and nature of the state; its relations to individuals, to other states, and to other social institutions.

2B. The Problems of Democracy. (2) II. (Credit A, B)
Professor Haines, Assistant Professors Graham, Sly
A consideration of the problems peculiar to and growing out of the modern democratic state; problems of the electorate and of parties; popular methods of legislation.

Upper Division Courses

Prerequisite: Political Science 1A-1B, and one of the following courses:
Political Science 2A-2B, Economics 1A-1B, History 4A-4B, History 5A-5B.

Group I. Political Theory

112. History of Political Theory. (3) I. (Credit A, B)
Assistant Professor Sly
A comparative study of ancient, medieval and modern ideas and institutions of statehood; periods and schools in the development of political thought; recent tendencies.

113. American Political Ideas. (2) II. (Credit A, B) Mr. Rocky
American political theories and the fundamental characteristics of the American political system.

115. Readings in Political Theory. (2) II. (Credit A, B)
Assistant Professor Sly
Readings and discussions concerning the development of political thought as exhibited in great state papers, leading decisions, and political and legal treatises of first importance.

*117A-117B. Elements of Jurisprudence. (2-2) Yr. (Credit A, B)
Prerequisite: senior standing. Professor Haines
Development of law and legal systems; comparison of methods and procedure in making and enforcing law in Roman and common law systems; consideration of fundamental legal concepts; contributions and influence of modern schools of legal philosophy in relation to law and government.

* Not to be given, 1925-26.
Announcement of Courses

Group II. International Relations

125. Foreign Relations of the United States. (3) I. (Credit A, B)  
Assistant Professor GRAHAM  
Leading American foreign policies as regards Europe, Latin America and the Far East; the administration of American foreign relations; American participation in international administrative and judicial agencies.

127. International Relations. (3) II. (Credit A, B)  
Assistant Professor GRAHAM  
Geographic, economic, cultural, racial, psychological and social factors underlying international relations; the modern states system; alliances and the balance of power; diplomatic practice and problems; international organization and administration.

*133A–133B. Introduction to International Law. (3–3) Yr.  
(Credit A, B)  
Associate Professor MARTIN  
The general principles of international law as developed by custom and agreement, and as exhibited in decisions of international tribunals and municipal courts, diplomatic papers, treaties and conventions, in legislation, in the works of authoritative writers, and in the conduct of nations.

Group III. National Government

152. American Political Parties. (2) II. (Credit A, B)  
Assistant Professor McCORT  
American party history; federal and state party organization; the electorate; nominations and elections; the direct primary; party control of the legislature; the President as party leader; theory of American party divisions; American public opinion; the rise of blocs.

154A–154B. European Governments and Political Institutions. (2–2) Yr.  
(Credit A, B)  
Assistant Professor GRAHAM  
A study of representative types of European governments: presidential, parliamentary, federal, unitary, comparing them in regard to powers, forms of organization, and functions, and with brief discussion of political parties, elections, political ideas, and foreign relations.

156A–156B. Administrative Law. (2–2) Yr.  
(Credit A, B)  
Professor HAINES  
Prerequisite: junior standing.  
The rights, duties, and liabilities of public officers; relief against administrative action; extraordinary legal remedies; jurisdiction, conclusiveness, and judicial control; legal principles and tendencies in the development of public administration.

* Not to be given, 1925–26.
Announcement of the Southern Branch

157A–157B. Constitutional Law. (3–3) Yr. (Credit A, B) Professor Haines
Prerequisite: senior standing, or the consent of the instructor.
General principles of constitutional law, federal and state; relations and powers of the federal government and the states; limitations on the federal government and the protection accorded to individual rights under the American constitutional system.

Group IV. Local Government

162. Municipal Government. (3) II. (Credit A, B) Professor Munro
History and growth of cities; forms of city government; the municipal councils and courts; the city and the state; the charter; recent reforms in municipal government; issues in municipal government today.

163. Municipal Administration. (2) I. (Credit A, B) Assistant Professor McClintock
The mayor; the city departments; the city employees; the civil service; municipal functions and problems.

171. American State Government. (2) II. (Credit A, B) Assistant Professor McClintock
Colonial origins; the state constitutions; the state legislatures; relation of the state and the nation; relations between states; the states and the law; growth of popular methods of legislation; political reconstruction of state government.

JURISPRUDENCE

10A–10B. Elementary Law. (3–3) Yr. (Credit A, B) Mr. McComb
A consideration of the elementary principles of the common law, as modified by statutes and judicial decisions of this state, with special reference to the definition of law, jurisdiction; personal relations, and the classification of estates.

18A–18B. Commercial Law. (3–3) Yr. (Credit A, B) Mr. Lyman

AMERICAN INSTITUTIONS

101. American Institutions. (2) Either half-year. (Credit A, B) Assistant Professors McClintock, Sly, Mr. McComb, Mr. Dykstra, Mr. Rockey.
The fundamental nature of the American constitutional system and of the ideals upon which it is based.
Required of all students in the Southern Branch during their junior or senior years, except Political Science and History majors, who take Political Science 113 or History 171A–171B. This course does not count toward the political science major.
PSYCHOLOGY

SHEPHERD IVORY FRANZ, Ph.D., M.D., LL.D., Professor of Psychology.

GRACE M. FERNALD, Ph.D., Associate Professor of Psychology.

KATE GORDON, Ph.D., Associate Professor of Psychology.

S. CAROLYN FISHER, Ph.D., Assistant Professor of Psychology.

ELLEN B. SULLIVAN, Ph.D., Instructor in Psychology.

Preparation for the Major.—Required: Psychology 1A and 1B, and Zoology 1A, 1B. Recommended: French, German, chemistry, physics.

The Major.—Required: Psychology 106A, 107A, and 12 other units in upper division courses in psychology. The remaining 6 units may be chosen from other upper division courses in psychology, or from the following, subject to the approval of the department: Any upper division course in philosophy; Zoology 103; Education 183.

Laboratory Fees.—A fee of $3 is required in courses 106A, 106B, 107A, 107B, 150.

Lower Division Courses

X. The Psychology of Study. (1) Either half-year. (Credit A, B)

Tu Th, 8.

Professor Moore

1A. Introductory Psychology. (3) Either half-year. (Credit A, B)

Associate Professor Gordon and the Staff

Lectures, Tu Th, 1, and one section period.

This course is prerequisite to all other courses in psychology. It is not open to freshmen, but is open to sophomores without prerequisite.

An account of the development of consciousness and behavior, including reflex, instinctive, and emotional tendencies; conditioned reflex; learning and habit formation; sensation, perception, imagination, memory, reasoning, and volition.

Lectures, readings, demonstrations, and group experiments.

1B. General Psychology. (3) Either half-year. (Credit A, B)

M W F, 2.

Associate Professor Fernald

Prerequisite: Psychology 1A.

More detailed treatment of special topics: attention, reasoning, emotion, attitude, purpose, volition, etc. Survey of points of view, methods of study, psychological problems.

Lectures, readings, laboratory exercises.
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2. Applied Psychology. (2) Either half-year. (Credit A, B)  
   Tu Th, 12.  
   Dr. SULLIVAN  
   Prerequisite: Psychology 1A.  
   A discussion of psychological principles bearing on problems of  
   daily life, and on legal, medical, and industrial problems.  
   Lectures, readings, demonstrations.

UPPER DIVISION COURSES

General Prerequisite: Psychology 1A is prerequisite to all upper  
division courses; 1B or 2 is recommended.

   (Credit A, B)  
   Professor FRANZ, Dr. SULLIVAN  
   Lecture, F, 8; laboratory, M W, 8–10, for 106A; lecture, S, 8;  
   laboratory, Tu Th, 8–10, for 106B.  
   The methods and typical results in the experimental investigation  
   of movement, fatigue, habit, memory, association, attention, perception,  
   etc.  
   One hour lecture or conference, four hours laboratory, outside readings.

   (3–3) Yr. (Credit A, B) Associate Professor FERNALD, Dr. SULLIVAN  
   M W F, 10.  
   First half-year: Statistical methods and their use in relation to  
   psychological problems, including illustrations and problems from the  
   fields of educational and experimental psychology and mental tests.  
   Second half-year: A study of the standard intelligence tests, and  
   their applications. Two lectures or conferences (M W, 8), and three  
   hours of clinical work in the use of various tests.  
   Lectures, clinical demonstrations, laboratory exercises, outside readings and conferences.

110. Educational Psychology. (3) Either half-year. (Credit A, B)  
   Assistant Professor FISHER and the STAFF  
   Lectures, Tu Th, 10, and one section period.  
   Discussion of the inherited forms of behavior, modification of  
   original tendencies, the learning curve, emotions and attitudes, memory,  
   analysis of the thought process, etc.  
   Lectures, readings, demonstrations, laboratory exercises.

119. Psychology of Special School Subjects. (3) Either half-year.  
   (Credit B) M W F, 12.  
   Associate Professor FERNALD  
   Prerequisite: Psychology 110.  
   An analysis of the psychological problems involved in learning to  
   write, read, solve problems in mathematics, grasp the meaning of  
   history, geography, natural science, and other school subjects.  
   Lectures, assigned readings, and conferences.
Announcement of Courses

145A–145B. Social Psychology. (2–2) Yr. (Credit A, B)
Tu Th, 8. Assistant Professor Fisher
First half-year: The instinctive and the higher mental processes that are the basis of social life; the behavior of men in groups.
Second half-year: Adjustment and maladjustment. Race, intelligence, and psychic stability as factors in national unity.
Lectures, readings, discussions, and clinical demonstrations.

*150. Animal Psychology. (3) II. (Credit A, B) Professor Franz
Prerequisite: Biology 1 or an equivalent must precede this course.
The mental processes of animals, and their relations to human mental processes. Each student will carry out a number of observations and experiments on animals illustrating the general facts of animal behavior in different phyla.
Lectures, readings, and laboratory exercises.

155. Physiological Psychology. (3) I. (Credit A, B) Professor Franz
M W F, 12.
The nervous system and its functions, with special reference to the sensory, motor, and association processes of the cerebrum.
Lectures, readings, demonstrations, and discussions.

166A–166B. Clinical Psychology. (2–2) Yr. (Credit A, B)
Professor Franz, Associate Professor Fernald
One lecture and three hours clinical work weekly.
A study of the problems connected with the atypical child, including the discussion of mental deficiency, abnormality, genius, and emotional instability. Special emphasis is placed on the methods by which such children may be developed to a maximum of efficiency. In the second half-year practice in mental testing in the clinics, juvenile court, and schools is given.
Lectures, readings, clinical demonstrations and testing of special cases.

168. Abnormal Psychology. (3) II. (Credit A, B) Professor Franz
M W F, 12.
The facts of abnormality: in movement, speech, and sensation; delusions, disorders of attention, memory, and association; the relation of psychology to psychiatry and other subjects dealing with mental abnormalities.
Lectures, readings, demonstrations.

199. Special Study for Advanced Undergraduates. (3) Either half-year.
(Credit A, B) The Staff
Prerequisite: Psychology 106A, 107A, and one of the following courses: 110, 119, 145A, 150, 155, 166A, or 168. Special permission to register for this course is required, besides that of fulfilling the prerequisite conditions.
In this course students will undertake the special study of problems in connection with their major interests, in some fields of psychology: animal, clinical, experimental, physiological, statistical, social, and under the direction of the special instructor in whose field the interest lies.

*This course may not be given in 1925-26.
SPANISH

S. L. MILLER ROSENBERG, Ph.D., Associate Professor of Spanish.
LAURENCE D. BALL, Ph.D., Assistant Professor of Spanish (Chairman of the Department).
MANUEL PEDRO GONZÁLEZ, Ph.D., Instructor in Spanish.
LUÍS A. VILLEGAS, Doctor en Derecho, Instructor in Spanish.
ANNA KRAUSE, M.A., Associate in Spanish.
JOHN HARTMAN, M.A., Associate in Spanish.
SYLVIA N. RYAN, M.A., Associate in Spanish.
FRANCISCO MONTO, A.B., Associate in Spanish.
M. A. ZEITLIN, M.A., Associate in Spanish.

CÉSAR BAEJA, Doctor en Derecho, Lecturer in Spanish.
MARÍA LÓPEZ DE LOWTER, B.S., M.A., Lecturer in Spanish.

Preparation for the Major.—(1) Spanish A, B, C, D, or four years of high school Spanish. (2) A minimum of two years of Latin in the high school. Those unable to fulfill this requirement must offer compensatory courses in the other Romanic languages, or in German. (3) Only students who pronounce correctly and read fluently will be admitted to upper division courses. Transfers from other institutions will be tested by oral examination. (4) English 1A-1B, or an equivalent. (5) History 4A-4B.

The prerequisites for the various lower division courses are listed under these courses. Students whose high school record seems to warrant it may by examination establish their right to take a more advanced programme; or, they may be transferred to a more advanced course upon recommendation of the instructor.

The Major.—Required: Spanish 101A-101B or 106A-106B, and 107A-107B. The remaining 12 units may include not more than 6 units of upper division work either in French or Latin, or may be completed from other upper division courses in Spanish.

The department recommends supplementary choice of electives from the following: (1) history of the country or countries most intimately connected with the major; (2) additional study in Latin literature; (3) related courses in other literatures; (4) courses dealing with English expression; (5) the history of philosophy; (6) French; (7) German; (8) Greek.
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LOWER DIVISION COURSES

A. Elementary Spanish. (5) Either half-year. (Credit A, B) The STAFF
Ten sections, M Tu W Th F, 8, 9, 10, 11, 12, 2, 3.
The equivalent of two years of high school Spanish.

B. Elementary Spanish. (5) Either half-year. (Credit A, B). The STAFF
Five sections, M Tu W Th F, 8, 9, 10, 12, 2.
Prerequisite: course A, or two years of high school Spanish.
The equivalent of the high school course in intermediate Spanish.

C. Intermediate Spanish. (3) Either half-year. (Credit A, B) The STAFF
Five sections: MWF, 8, 11, 12; Tu Th, S, 9.
Prerequisite: course B, or three years of high school Spanish, or
its equivalent.

D. Intermediate Spanish. (3) Either half-year. (Credit A, B) The STAFF
Four sections: MWF, 8, 9, 12; Tu Th, S, 8.
Prerequisite: course C, or four years of high school Spanish.

50A-50B. Conversation and Composition. (3-3) Yr. (Credit A, B)
Dr. BARBA, Mrs. LOWTHER
For students who have had D, or the equivalent.
Designed especially for Spanish majors.

UPPER DIVISION COURSES

Prerequisite: 16 units of lower division Spanish, or the equivalent.

101A-101B. Conversation and Composition. (3-3) Yr. (Credit A, B)
Dr. VILLEGAS, Dr. GONZÁLEZ, Miss KRAUSE
Two sections A, one section B: MWF, 12, 2; Tu Th, S, 9.
Students who enter the upper division without course 50A-50B must
take 101A-101B; those who have had course 50A-50B should take
106A-106B.

103A-103B. Nineteenth Century Literature. (3-3) Yr. (Credit A, B)
MWF, 10.
Assistant Professor BAILIFF
General survey of the literature of the century. Lectures and
reading.

104A-104B. Spanish American Literature. (3-3) Yr. (Credit A, B)
MWF, 10.
Mrs. LOWTHER
A study of the principal authors of Spanish America.
Lectures and reading.

105A-105B. Modern Spanish Drama. (2-2) Yr. (Credit A, B)
Tu Th, 11.
Associate Professor ROSENBERG
Plays of the later nineteenth and twentieth centuries.
Lectures, discussions and reports.

106A-106B. Advanced Composition. (3-3) Yr. (Credit A, B)
MWF, 3.
Dr. GONZÁLEZ

107A-107B. Survey of Spanish Literature to 1800. (3-3) Yr. (Credit
A, B) MWF, 12.
Dr. BARBA

99. Course for Teachers. (2) Either half-year. (Credit A, B)
Tu Th, 10.
Associate Professor ROSENBERG
Announcement of the Southern Branch

TRAINING DEPARTMENT

STAFF IN SOUTHERN BRANCH TRAINING SCHOOL

CHARLES WILKIN WADDELL, Ph.D., Professor of Education and Director of the Training Schools.

ETHEL I. SALISBURY, M.A., Assistant Supervisor of Training and Associate Professor of Elementary Education.

CORINNE A. SEEDS, M.A., Principal of the Training School.

BERTHA E. WELLS, Assistant Supervisor of Training.

FRANCES GIDDINGS, M.A., Assistant Supervisor of Training.

HELEN B. KELLER, Ed.B., Assistant Supervisor of Training.

LULU STEDMAN, Ed.B., Assistant Supervisor of Special Education.

EDITH HOPE RINGER, Training Teacher, Adjustment Room.

ELIZABETH BRUENE, M.A., School Counselor.

EMMA J. ROBINSON, Training Teacher, Sixth Grade.

HELEN F. BOUTON, Ed.B., Training Teacher, Fifth Grade.

BESSIE WINSTON HOYT, Ph.B., Training Teacher, Fourth Grade.

VIVIAN EVANS, B.S., Training Teacher, Third Grade.

EDITH WALLOP SWARTS, Training Teacher, Second Grade.

SALLIE GARRETT, Training Teacher, First Grade.

ETHEL BRITTO, A.B., Training Teacher, Kindergarten.

BARBARA GREENWOOD, Training Teacher, Kindergarten.

Training Teacher Physical Education.

STAFF IN CITY TRAINING SCHOOLS

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Announcement of Courses

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Anna B. Connors, Training Teacher, First Grade, Lockwood.

Alice Beatrice Hill, Training Teacher, First Grade, Bridge Street.

Agatha M. Kirby, Training Teacher, First Grade, Bridge Street.

S. Edna Williams, Training Teacher, First Grade, Dayton Heights.

Hazel Glover, Training Teacher, Second Grade, Dayton Heights.

Marie Hoyt, Ph.B. in Ed., Training Teacher, Second Grade, Lockwood.

Inga Martinson Lacy, Training Teacher, Second Grade, Lockwood.

Lela Frances Bailey, A.B., Training Teacher, Third Grade, Dayton Heights.

Grace M. Tingley, Ed.B., Training Teacher, Third Grade, Dayton Heights.

Alice M. Greer, Training Teacher, Fourth Grade, Dayton Heights.

Gertrude Maloney, Training Teacher, Fourth Grade, Lockwood.

Buth J. Swanhholm, Training Teacher, Fourth Grade, Dayton Heights.

Anna Anderson, Training Teacher, Fifth Grade, Lockwood.

Sybil Houyshel, Training Teacher, Fifth Grade, Dayton Heights.

Laverno Lossing, Training Teacher, Fifth Grade, Lockwood.

Buth M. Baugh, Training Teacher, Sixth Grade, Dayton Heights.

Beth H. Benning, Training Teacher, Sixth Grade, Lockwood.

Gertrude C. Enfield, Training Teacher, Seventh Grade, Lockwood.

Serena P. Christiansen, Training Teacher, Eighth Grade, Lockwood.

Jeannette Ferman, Ed.B., Training Teacher, Adjustment Room, Dayton Heights.

Nino Brown, Training Teacher, Social Sciences, LeConte Junior High School.

Elsa B. Langenhagen, Training Teacher, Seventh and Eighth Grades, Los Feliz School.

Florence M. Hallam, A.B., Assistant Supervisor of Training, Home Economics.

Mary Frances Hollins, Training Teacher, Home Economics, LeConte Junior High School.

Helen Linkens, Training Teacher, Home Economics, Lockwood and Dayton Heights.

Nellie J. Sutter, A.B., Training Teacher, Home Economics, LeConte Junior High School.

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Margaret Hughes, Training Teacher, Physical Education, Lockwood.

Lulu Marie Jenkins, M.A., Training Teacher, Physical Education, Dayton Heights.
THE TRAINING SCHOOLS

Practice teaching is provided for all Teachers College students in (1) The University Training School, comprising two kindergartens, and the elementary grades; (2) The Lockwood and Dayton Heights elementary schools of Los Angeles city; (3) The LeConte Junior High School; (4) Other elementary, junior and senior high schools of Los Angeles.

The work is done under the direction of the Director of the Training Schools and a corps of assistant supervisors and training teachers.

TRAINING COURSES†

K190A. Kindergarten-Primary Teaching. (5)
K190B. Kindergarten-Primary Teaching. (5)
E190A. Elementary Teaching. (5)
E190B. Elementary Teaching. (5)
J191A. Junior High School Teaching. (5)
J191B. Junior High School Teaching. (5)
A190A. Elementary Art Teaching. (3)
A191. Junior High School Art Teaching. (3)
A192. Secondary Art Teaching. (4)
C192A. Secondary Commerce Teaching. (5)
C192B. Secondary Commerce Teaching. (5)
H190A. Elementary Home Economics Teaching. (2)
H190B. Elementary Home Economics Teaching. (2)
H191. Junior High School Home Economics Teaching. (2)
H192A. Secondary Home Economics Teaching. (2)
H192B. Secondary Home Economics Teaching. (2)
MA192A. Secondary Mechanic Arts Teaching. (5)
MA192B. Secondary Mechanic Arts Teaching. (5)
M190A. Elementary Music Teaching. (3)
M190B. Elementary Music Teaching. (2)
M191. Junior High School Music Teaching. (1)
M192. Secondary Music Teaching. (4)
P190A. Elementary Physical Education Teaching. (2)
P190B. Elementary Physical Education Teaching. (3)
P192A. Secondary Physical Education Teaching. (3)
P192B. Secondary Physical Education Teaching. (2)
P192C. Secondary Physical Education Teaching. (3)

ELECTIVE TEACHING

When elective teaching is taken it is to be designated as Teaching 195, preceded by the letter indicating the proper department and followed by a dash and the number of units.

† Credit B. All courses offered either semester.
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