

# University of California Bulletin

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ANNOUNCEMENT  
OF THE  
UNIVERSITY OF CALIFORNIA  
SOUTHERN BRANCH  
FOR THE  
ACADEMIC YEAR, 1923-24

JULY, 1923

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SOUTHERN BRANCH  
LOS ANGELES

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**Administrative Bulletins of the University of California**  
**Southern Branch**  
**1923-24**

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**CIRCULARS OF INFORMATION**

For copies of this Announcement address the *Students' Coöperative Bookstore, University of California, Southern Branch, Los Angeles*. Price, 20 cents; by mail, 25 cents.

For the Announcement of the University of California Summer Session in Los Angeles apply to the Summer Session Office, 815 Junior Orpheum Building, Los Angeles.

Letters of inquiry concerning the College of Agriculture should be addressed to the *Dean of the College of Agriculture, Berkeley, California*.

For the following circulars of information concerning the several colleges and departments of the University apply to the *University of California Press, Berkeley, California*.

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, government, requirements for admission to undergraduate status, requirements for degrees, and expenses. Price, 15 cents; sent by mail by the *University of California Press* for 20 cents. Detailed information is given in the other publications mentioned in this list.

The Annual Announcement of Courses of Instruction in the Academic Departments. Price, 25 cents; sent by mail by the *University of California Press* for 30 cents.

The Announcement of the Graduate Division.

The Annual Commencement Programme. Containing the list of degrees conferred, scholarships, prizes and other honors.

Specimen entrance examination papers.

The Annual Announcement of the School of Education.

The Annual Announcement of the School of Jurisprudence.

The Announcements of the Summer Sessions. Published annually in January.

The Catalogue of Officers and Students. Published in September and February. Price, 25 cents; sent by mail by the *University of California Press* for 30 cents.

The Monthly Meteorological Synopsis of Berkeley.

(Continued on third page of cover)

UNIVERSITY OF CALIFORNIA

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UNIVERSITY OF CALIFORNIA

SOUTHERN BRANCH

LOS ANGELES

1923

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 two yellow-car lines and one red-car line:

1. Heliotrope Drive Line (yellow car). Leave car at Melrose Avenue and Heliotrope drive.
2. Santa Monica Boulevard Line (red car). Leave car at either Vermont avenue or Berendo street.
3. Temple Street Line (yellow car). Leave car at Normal avenue.

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## CALENDAR, 1923-1924

## FALL SEMESTER 1923

1923	
Aug. 9 to 14	Matriculation examinations given in Berkeley only.
Sept. 3, Monday	Applications for admission, with complete credentials, should be filed with Recorder on or before this date. Late filing fee \$2.00. To give time for necessary correspondence and the securing of credentials, first inquiries should be made much earlier.
Sept. 12, Wednesday	Examination in Subject A, 8:30 a.m. General intelligence test, 2:00 p.m.
Sept. 13, Thursday	Registration of new students, 8:30 to 4:00.
Sept. 14, Friday	Registration of old students and re-intrants.
Sept. 17, Monday	Instruction begins 8:00 a.m.
Oct. 1, Monday	Admission after this date, only for extraordinary reasons.
Oct. 27, Saturday	Last day of first mid-term period.
Dec. 15, Saturday	Last day of second mid-term period.
Dec. 17, Monday	} Christmas Recess.
1924	
Jan. 1, Tuesday	
Feb. 2, Saturday	Fall semester closes.

## SPRING SEMESTER 1924

Jan. 7 to 11	Matriculation examinations given in Berkeley only.
Jan. 31, Thursday	Applications for admission in February to be filed on or before this date. Late filing fee \$2.00.
Feb. 8, Friday	Examination in Subject A, 8:30 a.m. General intelligence test, 2:00 p.m.

Feb. 9, Saturday	Registration of new students, 8:30 to 4:00.
Feb. 11, Monday	Registration of old students and re-intrants.
Feb. 12, Tuesday	Instruction begins 8:00 a.m.
Feb. 25, Monday	Admission after this date, only for extraordinary reasons.
Mar. 22, Saturday	Last day of first mid-term period.
April 14, Monday } April 19, Saturday }	Spring Recess.
May 10, Saturday	Last day of second mid-term period.
June 7, Saturday	Alumni Day.
June 20, Friday	The Fifth Southern Branch Commencement.
Third week in June	College Entrance Board examinations given in Los Angeles and other cities.
June 23, Monday } July 19, Friday }	Summer Course in Surveying in the vicinity of Los Angeles.
June 28, Saturday } Aug. 9, Saturday }	Summer Session in Los Angeles.
Sept. 15, Monday	Instruction for 1924-25 begins.

## 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 Commencement, at such places as may from time to time be determined, ordinarily at the California School of Fine Arts, California and Mason streets, San Francisco. The Los Angeles office of the Regents is in the Junior Orpheum Bldg, 816 Hill street, Los Angeles.

## REGENTS EX OFFICIO

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2820 Regent st, Berkeley

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Long Beach

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Sacramento

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ety  
Care, Kern County Land Co., Bakersfield

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

CLINTON E. MILLER, B. L.  
President of the Alumni Association  
910 I. N. Van Nuys bldg, Los Angeles

WILLIAM WALLACE CAMPBELL, So.D., LL.D  
President of the University  
217 California Hall, Berkeley

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

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14 Sansome st, San Francisco

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JAMES KENNEDY MOFFITT, B.S. (1924)  
41 First st, San Francisco

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(1928)  
1100 Franklin st, San Francisco

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510 Lucerne blvd, Los Angeles

JAMES MILLS (1926)  
Hamilton City

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

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

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

Mrs. MARGARET RISHSEL SASTORI (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

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808 First National Bank bldg, San Jose



OFFICERS OF THE REGENTS

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Land Agent  
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220 California Hall, Berkeley

Mortimer Fleishhacker  
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Attorney  
1300 Balfour bldg, San Francisco

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FOR THE YEAR 1923-24\*

*Agriculture*  
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Cochran, and Earl.

*Educational Relations:*  
Regents Wood, Dickson, Rowell, Ramm,  
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*Endowments:*  
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*Engineering:*  
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*Executive Committee:*  
This committee consists of the chairmen  
of all standing committees and the  
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*Finance:*  
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*Grounds and Buildings:*  
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*Medical School:*  
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Mrs. Sartori, and Haynes.

*San Francisco War Memorial:*  
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derson.

*Southern Branch of the University of  
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Biological Research:*  
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Haynes.

*Wilmerding School:*  
Regents Earl, Moffitt, and Mausy.

\* 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

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126 Library

*President of the University:*

William W. Campbell  
217 California Hall

*Dean of the University:*

Walter M. Hart  
217 California Hall

*Assistant Dean of the University:*

Baldwin M. Woods  
217 California Hall

*Comptroller, Secretary of the Board of Regents and Land Agent:*

Robert Gordon Sproul  
220 California Hall.

*Assistant Comptroller and Assistant Secretary of the Regents:*

Calmur John Struble  
220 California Hall

*Recorder of the Faculties:*

James Sutton  
204 California Hall

## IN LOS ANGELES

*Director of the Southern Branch:*

Ernest Carroll Moore  
108 Millsbaugh Hall

*Recorder of the Southern Branch:*

Lewis Adams Maverick  
101A Millsbaugh Hall

*Dean of the Summer Session in Los Angeles:*

H. L. Bruce  
815 Junior Orpheum Building

*\*Medical Department:*

Dean: George H. Kress  
245 Bradbury Building

*Extension Division—*

*Representative in Southern California:*  
H. S. Noble  
817 Junior Orpheum Building

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\* Graduate instruction only is offered in the Medical Department.

## I. HISTORY

### A. 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 (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.

## B. 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 Dr. 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 Dr. 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.

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.

**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 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,****Chemistry.****The Schools of****Architecture,****Education,****Jurisprudence,****Medicine (first and second years).****The University Extension Division.****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.**

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 Teachers College.  
The Summer Course in Surveying.  
Los Angeles Medical Department (graduate instruction only).  
The Summer Session.  
The University Extension Division.

VI. AT DAVIS

Branch of the College of Agriculture.

VII. AT RIVERSIDE

The Citrus Experiment Station and Graduate School of Tropical Agriculture.

VIII. AT LA JOLLA

The Scripps Institution for Biological Research.

IX. AT SWANTON

The Summer Course in Surveying.

**IV. OFFICERS AND FACULTY****ADMINISTRATIVE OFFICERS**

**WILLIAM WALLACE CAMPBELL, Sc.D., LL.D.,** President of the University.

**WALTER MORRIS HART, Ph.D.,** Dean of the University.

**BALDWIN MUNGER WOODS, Ph.D.,** Assistant Dean of the University.

- **ERNEST CARROLL MOORE, Ph.D., LL.D.,** Director of the Southern Branch of the University.

- **ELMER E. BECKMAN, A.B.,** Executive Secretary to the Director.

**ROBERT G. SPROUL, B.S.,** Comptroller and Secretary of the Regents.

**ROBERT M. UNDERHILL, B.S.,** Assistant to the Comptroller.

- **CHARLES H. RIEBER, Ph.D.,** Dean of the College of Letters and Science, Southern Branch.

- **MARVIN L. DARSIE, M.A.,** Dean of the Teachers College, Southern Branch.

- **HELEN MATTHEWSON LAUGHLIN,** Dean of Women, Southern Branch.

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- 2. **WILLIAM J. NORRIS, M.D.,** Physician for Men, Southern Branch.

- **E. R. WARE, M.D.,** Assistant Physician for Men, Southern Branch.

- 2. **LILLIAN RAY TITCOMB, M.D.,** Physician for Women, Southern Branch.

- **M. BURNEY PORTER,** Appointment Secretary and Supervisor of Teacher Training, Southern Branch.

- **E. R. WARE, M.D.,** Assistant Physician for Men.

- **LILLIAN RAY TITCOMB, M.D.,** Physician for Women.

- **M. BURNEY PORTER,** Appointment Secretary and Supervisor of Teacher Training, Southern Branch.

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- 2 | FREDERICK E. BECKMAN, Ph.D., Associate in French and Spanish. ✓ *Romance Lang.*
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- 2 | HARRIET E. GLAZIER, M.A., Assistant Professor of Mathematics. ✓
- 1 | J. E. GOODWIN, B.L.S., Librarian. ✓
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- 2 | HELEN HOWELL, Associate in Fine Arts. ✓
- 1 | ALICE HUBARD, Associate in French and Spanish. ✓
- 1 | \*ALICE O. HUNNEWELL, Instructor in English. ✓
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- 2 | GLENN JAMES, Ph.D., Assistant Professor of Mathematics. ✓
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- 2 | MAUDE E. JENKINS, B.S., Associate in Home Economics. ✓
- 1 | BENJAMIN W. JOHNSON, Lecturer in Education and Supervisor of Classes for the Training of Trade and Industrial Teachers. ✓
- 2 | ADOLFO JORDA, Lic. en Fil. y Letras, Instructor in Spanish. ✓

\* Absent on leave.

## Officers and Faculty

17

- 2 | ADRIAN D. KELLAR, B.S., E.E., Associate in Mechanic Arts. ✓
- 2 | FRANK J. KLINGBERG, Ph.D., Associate Professor of History. ✓
- 2 | V. O. KNUDSEN, Ph.D., Assistant Professor of Physics. ✓
- 2 | L. K. KOONTZ, Ph.D., Instructor in History. ✓
- 2 | WILLIAM J. KRAFT, Mus.Bac., F.A.G.O., Lecturer in Music. ✓
- \* ANNA KRAUSE, A.M., Associate in Spanish. ✓
- 2 | MELVA LATHAM, Ph.B., Assistant Professor of History. ✓
- 2 | ELIZABETH LATHROP, Associate in Home Economics. ✓
- 2 | C. A. LEDEUC, M.B.A., Ph.D., Assistant Professor of Accounting. ✓
- 2 | FREDERICK C. LEONARD, Ph.D., Instructor in Astronomy. ✓
- 2 | EVELYN LESLIE LOUGHEAD, M.A., Associate in French. ✓
- 2 | MADELEINE L. LETESSIER, A.B., Associate in French. ✓
- 2 | JOSEPH B. LOCKEY, Ph.D., Assistant Professor of History. ✓
- 2 | LAWRENCE C. LOCKLEY, M.A., Associate in English. ✓
- 2 | A. E. LONGUEIL, Ph.D., Assistant Professor of English. ✓
- 2 | MARÍA LÓPEZ DE LOWTHER, B.S., M.A., Lecturer in Spanish. ✓
- 2 | PAULINE LYNCH, Associate in Home Economics. ✓
- 2 | GEORGE M. MCBRIDE, Ph.D., Associate Professor of Geography. ✓
- | MYRTA LISLE MCCLELLAN, B.S., Assistant Professor of Geography. ✓
- 2 | MARSHALL FRANCIS MCCOMB, A.B., LL.B., Lecturer in Government. ✓
- 2 | W. T. MCGRATH, A.B., Associate in Economics. ✓
- 2 | J. F. MCGREW, Associate in Public Speaking. ✓
- 2 | ARTHUR PATCH MCKINLAY, Ph.D., Assistant Professor of Latin. ✓
- 2 | KATHERINE L. McLAUGHLIN, M.A., Associate Professor of Education. ✓
- 2 | DONALD MACKAY, Ph.D., Instructor in Philosophy. ✓
- 2 | HARRIET MACKENZIE, M.A., Instructor in English. ✓
- 2 | HAROLD WILLIAM MANSFIELD, Assistant Professor of Mechanic Arts. ✓
- 2 | CHARLES A. MARSH, B.S., Assistant Professor of Argumentation. ✓
- 2 | JAMES WILLARD MARSH, Associate in Mechanic Arts. ✓
- 2 | CHARLES E. MARTIN, Ph.D., Associate Professor of Government. ✓
- 2 | W. E. MASON, B.S., M.S., Instructor in Applied Mathematics. ✓
- 2 | LEWIS A. MAVERICK, M.A., Ed.M., Recorder, and Lecturer in Vocational Education. ✓
- 2 | RUSSELL W. MILLAR, Ph.D., Instructor in Chemistry. ✓
- 2 | LOYE HOLMES MILLER, Ph.D., Professor of Biology. ✓
- 2 | EARL J. MILLER, Ph.D., Assistant Professor in Economics. ✓
- 2 | ERNEST CARROLL MOORE, Ph.D., LL.D., Director of the Southern Branch and Professor of Education. ✓
- 2 | WILLIAM CONGER MORGAN, Ph.D., Professor of Chemistry. ✓
- 2 | ELMER S. NELSON, M.A., Associate in Commerce. ✓
- 2 | OLIVE NEWCOMB, Associate in Industrial Arts. ✓
- 2 | HOWARD S. NOBLE, A.B., M.B.A., Assistant Professor of Accounting. ✓

\* Absent on leave.

- 2 | FRANK E. OLDER, B.S., Assistant Professor of Agricultural Teaching. ✓
- 2 | GUY G. PALMER, Colonel, U. S. A., Retired, Professor of Military Science and Tactics. ✓
- 2 | JOHN CARL PARISH, Ph.D., Assistant Professor of History. ✓
- 2 | CHARLES H. PAXTON, Associate in Mechanic Arts. ✓
- 2 | L. E. PEARSON, M.A., Associate in English. ✓
- 2 | JOHN B. PHILLIPS, Associate in Mechanic Arts. ✓
- 2 | ESTELLA B. PLOUGH, Associate in Commercial Practice. ✓
- F. L. POOLE, M.S., Associate in Physics. ✓
- 2 | J. B. RAMSEY, A.B., Instructor in Chemistry. ✓
- 2 | EDWIN MOORE RANKIN, Ph.D., Lecturer in Greek. ✓
- 2 | CHARLES H. RIEBER, Ph.D., Dean of the College of Letters and Science and Professor of Philosophy. ✓
- 2 | G. ROSS ROBERTSON, Ph.D., Assistant Professor of Organic Chemistry. ✓
- 2 | CLARENCE HALL ROBISON, Ph.D., University Examiner and Assistant Professor of Education. ✓
- 2 | S. L. MILLARD ROSENBERG, Ph.D., Assistant Professor of Spanish. ✓
- ETHEL I. SALISBURY, M.A., Associate Professor of Elementary Education. ✓
- 2 | EFFIE SHAMBAUGH, Associate in Physical Education for Women. ✓
- 2 | MARION SHEPARD, A.B., Associate in Physical Education for Women. ✓
- 2 | GEORGE E. F. SHERWOOD, M.A., Associate Professor of Mathematics. ✓
- 2 | HARRY M. SHOWMAN, E.M., M.A., Assistant Professor of Mathematics. ✓
- 2 | LESLIE B. SIMPSON, Associate in Spanish. ✓
- 2 | BIRDIE KIRK SMITH, Associate in Fine Arts. ✓
- 2 | WILLIAM A. SMITH, Ph.D., Assistant Professor of Education. ✓
- 2 | LOUISE P. SOOY, Assistant Professor of Fine Arts. ✓
- | VERNON SPENCER, Assistant Professor of Music. ✓
- 2 | O. L. SPONSLER, Ph.D., Instructor in Botany. ✓
- A. N. STARK, JR., Assistant Professor of Military Science and Tactics. ✓
- 2 | HOSMER W. STONE, Ph.D., Assistant Professor of Inorganic Chemistry. ✓
- 2 | NELLIE B. SULLIVAN, Ph.D., Instructor in Psychology. ✓
- 2 | FLORENCE E. SUTTON, Associate in Physical Education for Women. ✓
- 2 | INA THACH, Associate in Physical Education for Women. ✓
- 2 | EVALYN THOMAS, A.B., B.L.I., Instructor in English. ✓
- 2 | HELEN B. THOMPSON, Ph.D., Professor of Home Economics. ✓
- 2 | CAROLINE I. TOWNSEND, Associate in English. ✓
- 2 | BERTHA C. VAUGHN, Teacher of Voice. ✓
- 2 | L. C. VALENTINE, A.B., Associate in English. ✓
- 2 | FREDERICK P. VICKERY, M.S., Assistant Professor of Geology. ✓
- | CHARLES WILKIN WADDLE, Ph.D., Professor of Education and Director of the Training Schools. ✓

- \*ARTHUR H. WARNER, A.B., B.S., Associate in Physics. ✓
- 2 | NATALIE WHITE, B.S., Associate in Industrial Arts. ✓
- 2 | BELLE H. WHITICE, Associate in Industrial Arts. ✓
- 2 | ALFRED R. WHITMAN, Ph.D., Assistant Professor of Geology. ✓
- 2 | J. HAROLD WILLIAMS, Ph.D., Lecturer in Education. ✓
- 2 | FLORENCE A. WILSON, A.B., B.S., Associate in Home Economics. ✓
- 2 | FREDERICK P. WOELLNER, Ph.D., Lecturer in Civic Education. ✓
- 2 | EUPHEMIA R. WORTHINGTON, Ph.D., Instructor in Mathematics. ✓
- 2 | FRANCES A. WRIGHT, Associate Professor of Public School Music.

STAFF OF TRAINING INSTRUCTION

UNIVERSITY TRAINING SCHOOL

- 2 | HELEN F. BOUTON, Ed.B., Training Teacher, Fifth Grade.
- 2 | ETHEL BRITTO, A.B., Training Teacher, First Grade, Southern Branch.
- ELIZABETH BRUENE, School Counselor.
- | MARGARET M. CAMPBELL, M.A., Training Teacher in Mathematics.
- 2 | MADELINE CROWELL, B.S., Teacher of Home Economics in the Training School.
- 2 | VIVIAN EVANS, Training Teacher, First Grade.
- 2 | BARBARA GREENWOOD, Training Teacher, Kindergarten.
- 7 FRANCES GIDDINGS, A.B., Supervisor of Primary Education.
- 2 | ALICE HUBARD, Training Teacher in Spanish.
- 2 | MABEL C. JACKSON, M.A., Training Teacher in English.
- WILBUR C. JOHNS, Assistant in Physical Education.
- | KATHARINE KAHLEY, A.B., Training Teacher in Social Sciences.
- \*HELEN B. KELLER, Supervisor of Adjustment Room.
- | BLANCHE KELLS, Training Teacher, Physical Education.
- ———, Teacher of Printing.
- ———, Training Teacher of Mechanic Arts.
- 2 | EDITH HOPE RINGER, Training Teacher, Third Grade.
- 2 | EMMA J. ROBINSON, Training Teacher, Sixth Grade.
- ETHEL I. SALISBURY, M.A., Associate Professor of Elementary Education.
- 2 | ALMA BARNETT SAWYER, M.A., Supervisor of Practice Teaching.
- 2 | CORINNE A. SEEDS, B.S., Training Teacher, Fourth Grade.
- 2 | KATHERINE SPIERS, M.A., Assistant Supervisor of Training.
- 2 | LULU M. STEDMAN, Training Teacher, Opportunity Rooms.
- 2 | EDITH WALLOP SWARTS, Training Teacher, Second Grade.
- 2 | THOMAS E. THOMPSON, A.B., Vice-Principal of Junior High School.
- | CHARLES WILKIN WADDLE, Ph.D., Professor of Education and Director of the Training Schools.
- 2 | BERTHA E. WELLS, Assistant Supervisor of Practice Teaching.

\* Absent on leave, 1923-24.

## STAFF IN CITY TRAINING SCHOOLS

- CHARLES WILKIN WADDLE, Ph.D., Professor of Education and Director of the Training Schools.
- BERTHA E. WELLS, Assistant Supervisor of Training.
- KATHERINE SPIERS, M.A., Assistant Supervisor of Training.
- MYETLE B. CHANDLER, A.B., Assistant Supervisor of Training and Principal, Dayton Heights.
- AUGUSTA N. SADLER, Assistant Supervisor of Training and Principal, Lockwood.
- M. W. CHANDLER, Assistant Supervisor of Training and Principal, Le Conte Junior High School.
- 7 NINO BROWN, Training Teacher, Eighth Grade, Lockwood.
- SERENA P. CHRISTENSEN, Training Teacher, Seventh Grade, Lockwood.
- RUTH M. BAUGH, Training Teacher, Sixth Grade, Dayton Heights.
- , Training Teacher, Sixth Grade, Lockwood.
- , Training Teacher, Fifth Grade, Dayton Heights.
- LAVERNA LOSSING, Training Teacher, Fifth Grade, Lockwood.
- ALICE M. GREER, Training Teacher, Fourth Grade, Dayton Heights.
- GERTRUDE MALONEY, Training Teacher, Fourth Grade, Lockwood.
- GRACE M. TINGLEY, Training Teacher, Third Grade, Dayton Heights.
- LURA SAWYER OAK, Training Teacher, Third Grade, Lockwood.
- ELLEN TOY, Training Teacher, Third Grade, Dayton Heights.
- INGA MARTINSON LACY, Training Teacher, Second Grade, Lockwood.
- HAZEL GLOVER, Training Teacher, Second Grade, Dayton Heights.
- JESSICA M. PARKS, Training Teacher, Second Grade, Lockwood.
- MARGARET ROSE CARNES, Training Teacher, First Grade, Dayton Heights.
- BESS HOLDZKOM, Training Teacher, First Grade, Lockwood.
- S. EDNA WILLIAMS, Training Teacher, First Grade, Dayton Heights.
- ELIZABETH WHITCOMB, Training Teacher, Kindergarten, Lockwood.
- ESTELLE ROYER, Training Teacher, Kindergarten, Dayton Heights.
- JEANETTE FERMAN, Training Teacher, Adjustment Room, Dayton Heights.
- 2 EDNA LEE ROOF, Training Teacher, Physical Education, Lockwood and Dayton Heights.
- HELEN LINKENS, Training Teacher, Home Economics, Lockwood and Dayton Heights.
- MARY FRANCES HOLLINS, Training Teacher, Home Economics, Le Conte Junior High School.
- NELLIE J. SUTTER, Training Teacher, Home Economics, Le Conte Junior High School.
- SUSIE K. SANDERSON, Training Teacher, Non-English, First Grade, Bridge Street.

**ASSISTANTS**

- PAUL FRAMPTON, Assistant in Physical Education for Men.
- WILBUR C. JOHNS, Assistant Training Teacher in Physical Education.
- 2 RUTH G. PERSONS, A.B., Assistant in Zoology.
- ELSIE RAMBO, Assistant Kindergarten Teacher.
- HARRY TROTTER, Assistant in Physical Education for Men.
- 2 JOHN D. ELDER, Assistant in Physics.

## V. ADMISSION TO THE UNIVERSITY

### ADMISSION FROM ACCREDITED SCHOOLS IN CALIFORNIA

A graduate of a California high school may enter the University of California without examination provided the following requirements be satisfied:

1. The school must have been accredited by the University of California.
2. The applicant must have completed a four-year high school course, aggregating at least 15 standard units\* of preparatory work, and he must be duly certified as a graduate of the school.
3. The candidate must (normally) have attended the school from which he is graduated at least one school-year† immediately preceding graduation.
4. The candidate must be specially recommended for admission to the University of California.

In recommending graduates for admission to the University the principals of accredited schools should use Recommendation Form A, with application for admission attached. Copies of this form are supplied by the University to the principals of all accredited schools in California.

The accrediting of secondary schools is regulated by an order of the Regents of the University passed March 4, 1884, and amended September 10, 1895, and January 10, 1905. 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. Blank forms of application for accrediting and lists of accredited schools may be obtained from the Recorder of the Faculties.

*Caution.*—Candidates recommended in accordance with the foregoing provisions are admitted to the University and enrolled in the curricula of their choice. It will be seen, however, that some of these curricula can not be completed in the University in the normal period (four years

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\* 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.

† 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.



for the degree A.B. or B.S.) unless the candidate during his high school course has completed such specific prerequisites as may underlie the University work. A list of the curricula, with a statement of the preparatory work required and recommended, is given hereunder.

#### ADMISSION FROM CALIFORNIA SCHOOLS NOT ACCREDITED

A graduate of a California secondary school not accredited by the University who is strongly recommended by the principal of his school will be admitted upon passing the following examinations:

English (2 units); U. S. History (1 unit); laboratory science (1 unit); and two of the following groups:

(a) Advanced English and History (in addition to U. S. History), any 2 units.

(b) Mathematics (intermediate algebra and trigonometry), 1½ units.

(c) Foreign languages, 3 units in one, or 2 units in each of two.

(d) Additional advanced science, 2 units.

#### ADMISSION FROM APPROVED HIGH SCHOOLS IN OTHER STATES

Applicants from secondary schools outside of California are required to meet the same standards as applicants who enter from secondary schools in California. The committee in charge of admissions must have evidence of the following facts: that the school has an approved standing at universities or colleges of acknowledged rank; that the applicant has been graduated from a four-year course of not less than fifteen standard secondary units; that the high school programme shall have included the subjects prescribed by the California State Board of Education (see Preparatory Work Required and Recommended); and that the applicant has maintained an average scholarship standing well above the mark required by the school for promotion or 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.

*Caution.*—Candidates recommended in accordance with the foregoing provisions are admitted to the University and enrolled in the curricula of their choice. It will be seen, however, that some of these curricula cannot be completed in the University in the normal period (four years for the degree A.B. or B.S.) unless the candidate during his high school course has completed such specific prerequisites as may underlie the University work. A list of the curricula, with a statement of the preparatory work required and recommended, is given hereunder.

**ADMISSION BY EXAMINATION**

Candidates who are unable to present satisfactory school certificates may be admitted to the University by passing examinations in the preparatory subjects constituting a standard high school course. The subjects to be presented must be arranged in advance with the University. The subjects to be required by the University will depend upon the applicant's high school training, his age, and his proposed course of study in the University. The applicant must pass examinations in at least fifteen standard high school units.

*Examinations at the University of California*

Matriculation examinations are held in August and in January of each year;\* but the examinations in January are primarily for the purpose of enabling students in the University to remove matriculation deficiencies. Applicants for admission who present certificates from their teachers that they are prepared in the subjects they offer will be admitted to the January examinations. Such certificates must be filed with the Recorder of the Faculties before the examinations.

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 at Berkeley or the Recorder of the Southern Branch.

*List of Preparatory Subjects*

A list of preparatory subjects, with the amount of matriculation credit assigned to each, is given below. The credit for each subject is stated in units, the standard secondary unit being the measure of a subject pursued throughout the school year or from thirty-six to forty weeks and constituting approximately one-quarter of a full year's work. This list is not exhaustive, but it represents most of the fields of instruction in the secondary schools of California. With exceptions noted below, the University holds entrance examinations in these subjects:

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\* These are held at Berkeley only.

New No.		Units Old of No. Credit	New No.		Units Old of No. Credit
1a	English, elem.....	(1) 2	†5a	Latin, adv., 4th yr.....	(7b,7c) 1
1b	English, adv. I.....	(14a) 1	†5c	French, elem., 1 yr. of 5c	(15a) *1
1c	English, adv. II.....	(14b) 1	†5c	French, elem.....	(15a) 2
2a	Algebra, elem.....	(3) 1	†5c	French, intermed.....	(15a) 1
2b	Algebraic Theory, I.....	(4a) †	†5c	French, adv.....	(15a) 1
2b	Algebraic Theory, II.....	(4a) †	†5d	German, elem., 1 yr. of 5a	(15b) *1
2c	Plane Geometry.....	(2) 1	†5d	German, elem.....	(15b) 2
2d	Solid Geometry.....	(4b) †	†5d	German, intermed.....	(15b) 1
†2e	Plane Trigonometry.....	(12a) †	†5d	German, adv.....	(15b) 1
†2f	Plane Analytic Geometry.....	(12a) †	†5e	Spanish, elem., 1 yr. of 5a	(15c) *1
3a	Physics.....	(11) 1	†5e	Spanish, elem.....	(15c) 2
3b	Chemistry.....	(12b) 1	†5e	Spanish, intermed.....	(15c) 1
3c	Physiology and Hygiene.....	(12f) 1	†5e	Spanish, adv.....	(15c) 1
3d	Botany.....	(12c) 1	†6a	Freehand Drawing.....	(16) 1
3e	Zoology.....	(12d) 1	†6b	Geometrical Drawing.....	(17) 1
3f	Biology.....	(12h) * 1	7	Mechanic Arts.....	(18a) †-3
3g	Physical Geography.....	(12e) 1	8	Agriculture.....	(19) * †-3
3h	Physical Science.....	(12g) * 1	9abc	Home Economics.....	(18c) * †-3
4a	History and Gov. of the U.S.....	(5) 1	10a	Music, Sight Singing and Dictation.....	(21a) 1
4b	History, Ancient.....	(10) 1	10b	Music, Elements of Com- position.....	(21b) 1
4c	History, Med. and Mod.....	(13a) 1	10c	Music, Instrumental and Vocal Technique.....	(21c) 1
4d	History, English.....	(13b) 1	10d	Music, History of Modern European Music.....	(21d) 1
†5a	Greek, elem.....	(8a) [1	11	Bookkeeping.....	(20c) 1
†5a	Attic Prose.....	(8b) 2	12	Stenography and Type- writing.....	(20d) 1-2
†5a	Attic Prose, adv.....	(9a) †	13	Military Science and Tactics.....	‡
†5a	Homer.....	(9b) †			
†5a	Latin, elem., 1st yr.....	(6a,b) * [1			
†5a	Latin, elem., 2d yr.....	(6a,6b) 2			
†5a	Latin, adv., 3d yr.....	(7a,7c) 1			

### College Entrance Examination Board

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

The examinations of the College Entrance Examination Board are usually held during the third week in June.

All applications for examination must be addressed to the College Entrance Examination Board, 431 West 117 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 \$9 for candidates examined in the United States or Canada and \$20 for candidates examined outside of the United States or Canada. 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.

\* No examination.

† 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.

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 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 specified 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.

Applications received later than the dates named will be accepted when it is possible to arrange for the admission of the candidates concerned, but only upon payment of \$9 in addition to the usual fee.

A list of the places at which examinations are to be held by the Board in June, 1924, 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.

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.

#### ADMISSION ON TEACHERS' DIPLOMAS

Holders of Teachers' Life Diplomas or of State Educational Diplomas of this state, or holders of similar diplomas recognized by the State Board of Education of California, may be admitted provisionally to the University in the academic departments, with the privilege of satisfying matriculation requirements by examination or by work in the University.

## PREPARATORY WORK REQUIRED AND RECOMMENDED

## THE HIGH SCHOOL PROGRAMME

Aside from the specific prerequisites for certain curricula, as set forth below, no prescription of high school work is made by the University. It is assumed that the authorities in responsible control of secondary education will make reasonable provision for solidity and breadth in the high school course. The choice of electives during the high school period must be made by the pupil, under the direction of the school faculty, and the decision as to subjects chosen will be based not solely upon "recommendations," made by universities and colleges but also upon other considerations best known to the school authorities, such as the aptitude of the individual pupil and the extent to which proper facilities for work of high quality in the various subjects is supplied by the school. A resolution of the California State Board of Education directs that all public high school curricula in California require, for graduation after July 1, 1920, the following: English, 2 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.

*Importance of Academic Subjects.*—The high school student who is preparing to enter the University is urged to devote the greater part of his time during the high school course to what are commonly spoken of as "academic" subjects, such as English, foreign language, mathematics, history, and science. Herein (pages 28-37) will be found statements of the subjects required and recommended by way of a preparation for the various curricula and major subjects of the University. It is only by a careful reading of these statements that the high school programme of an intending student of the University can be wisely arranged. Special attention is invited to the following subjects of the high school curriculum:

*English Composition: Oral and Written Expression.*—Training in this subject enters into the proper treatment of all topics of study taken up in the school course, and extends to speaking and oral reading as well as to ability to use one's mother tongue correctly, clearly, and pertinently on all the lines upon which the thought is exercised.

All undergraduate students are, immediately following their admission, required to take a written examination in Subject A: English Composition. Students who fail to make a satisfactory showing in this test are required to take a special course in English composition without university credit. Tuition fee, \$10. See under General Regulations in later pages of this circular.

*Mathematics.*—Provision should be made in the high school programme for two years of work in mathematics, namely, elementary algebra and plane geometry. Instruction in these subjects is not provided by the University excepting during the summer sessions and in the Division of University Extension; Extension courses are not open to resident students in the University during regular sessions. In no curriculum of the University is junior standing obtainable without credit for both these subjects.

*Foreign Language.*—In practically all colleges and departments of the University a knowledge of a foreign language is helpful: in many departments such knowledge is indispensable. Elementary work in foreign languages can as a rule be more profitably undertaken by pupils of high school age than by older persons. The 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. For information concerning the foreign languages required and recommended by the several departments of the University, the reader is referred to pages 33, 56, 62, herein. 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.

*Physics, Chemistry.*—For detailed information concerning the sciences required and recommended by the several colleges and departments of the University, the reader is referred to pages 56, 61, herein. Attention is called to the basic importance of physics and chemistry. Instruction in these subjects is not provided by the University excepting during the summer sessions.

#### 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

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\* These curricula are outlined to cover the requirements in all the colleges of the University of California. Certain requirements for the major must be completed at Berkeley.

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.

With reference to major subjects in the College of Letters and Science, the subjoined statement of "requirements and recommendations" is addressed rather to the student who desires to be well prepared to complete a full undergraduate major—possibly as a candidate for honors—than to the student who wishes merely to satisfy a minimum graduation requirements. In some subjects it will be possible for students to satisfy minimum graduation requirements in the major without complying in all respects with the prerequisite herein listed.

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.

*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:* plane geometry (1); elementary algebra (1); chemistry (1).\*

*Recommended:* advanced mathematics, including trigonometry (2); physics (1); geometrical drawing (1); advanced English (2); a reading knowledge of a modern foreign language.

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\* If it becomes necessary to limit the number of students receiving instruction in chemistry in the University, preference will be given to those who enter with credit in any two of the following high school subjects: chemistry, 1 unit; physics, 1 unit; plane trigonometry,  $\frac{1}{2}$  unit.

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

*Required:* elementary algebra (1); plane geometry (1); 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 four years, to the degree of Master of Arts in the Graduate Division at the end of not less than five years, and to the degree of Graduate in Architecture in the SCHOOL OF ARCHITECTURE at the end of not less than six years.

*Required:* plane geometry (1); elementary algebra (1); algebraic theory ( $\frac{1}{2}$ ); trigonometry ( $\frac{1}{2}$ ); physics (1); chemistry (1); freehand drawing (1); foreign language (2).

*Recommended:* advanced algebraic theory, including quadratics ( $\frac{1}{2}$ ); solid geometry ( $\frac{1}{2}$ ); geometrical drawing (1); Latin (2); French (2).

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

*Required:* plane geometry (1); elementary algebra (1).

*Recommended:* freehand drawing (1).

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

*Required:* elementary algebra (1); plane geometry (1); chemistry (1); physics (1).

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

**Bacteriology and Experimental Pathology:** leading to the degree of Bachelor of Arts.

*Required:* elementary algebra (1); plane geometry (1); 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:* elementary algebra (1); plane geometry (1); chemistry (1); physics (1).

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

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

*Required:* elementary algebra (1); plane geometry (1).

*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:* elementary algebra (1); plane geometry (1); any two of the three subjects—chemistry (1), physics (1), trigonometry ( $\frac{1}{2}$ ).

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

**Commerce:** leading to the degree of Bachelor of Science in the COLLEGE OF COMMERCE.

*Required:* algebra (1); plane geometry (1).

*Recommended:* additional mathematics (including trigonometry); natural sciences; modern foreign language; additional English.

**Dentistry:** 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 (1).

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

*Recommended:* foreign language.

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

*Recommended:* foreign language.

**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:* plane geometry (1); elementary algebra (1); algebraic theory ( $\frac{1}{2}$ ); trigonometry ( $\frac{1}{2}$ ); 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 for B.S.

*Recommended:* advanced algebraic theory, including quadratics ( $\frac{1}{2}$ ); solid geometry ( $\frac{1}{2}$ ); freehand drawing (1); foreign language (2).

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

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

**Forest Utilization:** leading to the degree of Bachelor of Science in the  
COLLEGE OF AGRICULTURE.

*Required:* same as for ENGINEERING.

*Recommended:* same as for ENGINEERING.

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

*Required:* elementary algebra (1); plane geometry (1); chemistry (1).

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

**Geological Sciences** (geology, mineralogy, paleontology): leading to the  
degree of Bachelor of Arts.

*Required:* elementary algebra (1); plane geometry (1); chemistry (1);  
physics (1).

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

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

*Recommended:* foreign language; at least one year of European history  
in addition to the history of the United States.

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

*Required:* plane geometry (1); elementary algebra (1); chemistry (1).

*Recommended:* freehand drawing (1); botany (1); domestic science  
(2); mechanical drawing (1); foreign language, preferably French  
or German (2-4).

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

*Required:* chemistry (1); elementary algebra (1); plane geometry (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:* elementary algebra (1); plane geometry (1); 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.

**Other Languages—French, German, Italian, Oriental, Sanskrit, Semitic, Slavic, Spanish:** leading to the degree of Bachelor of Arts.

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

**Law:** (A) leading to the degree of Bachelor of Arts in the COLLEGE OF LETTERS AND SCIENCE at the end of four years, and to the degree of J.D. in the School of Jurisprudence at the end of six years.

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

(B) leading to the degree LL.B. 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:* plane geometry (1); elementary algebra (1). *In addition,* such high school work as is prerequisite to the student's proposed major subject in the college. For statements of the prerequisites to the various major subjects in this college, the reader is referred to pages 80-135 herein.

*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. 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 Univer-

sity, 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 Practice:** leading to the degree of Bachelor of Arts.

*Required:* reading knowledge of French and German.

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

*Required:* plane geometry (1); elementary algebra (1).

*Recommended:* advanced algebraic theory, including quadratics (1); solid geometry ( $\frac{1}{2}$ ); trigonometry ( $\frac{1}{2}$ ).

**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).

*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.

*Required:* elementary algebra (1); plane geometry (1); and at least two high school units from the following: algebraic theory ( $\frac{1}{2}$ ); trigonometry ( $\frac{1}{2}$ ); physics (1); chemistry (1); foreign language (1).

*Recommended:* at least 2 units of language, preferably French, German or Spanish; physics (1); chemistry (1); algebraic theory (1); trigonometry ( $\frac{1}{2}$ ); solid geometry ( $\frac{1}{2}$ ); military science and tactics ( $\frac{1}{2}$ ); physical education.

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\* Students who plan to take library practice courses in 1923-24 or later should consult the Associate Librarian before making choice of a major subject. It will no longer be possible to make library practice a major, but combination majors are planned for those who wish to become librarians.

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

*Recommended:* harmony (1); history of music (1); vocal or instrumental technique or choral practice (1).

**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.

*Required:* graduation from an approved high school course of four years.\*

*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 departments at Berkeley.

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

*Recommended:* foreign language (2).

**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 and optometry.

*Required:* plane geometry (1); elementary algebra (1); chemistry (1); physics (1); trigonometry ( $\frac{1}{2}$ ); mechanical drawing (1); French (2) or German (2).

*Recommended:* additional mathematics; additional foreign language.

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\* In and after August, 1924, the requirements for admission to the three-year course will be the same as to the academic departments of the University. Until August, 1924, preference will be given to those applicants who are able to meet this requirement.

† If it becomes necessary to limit the number of students receiving instruction in chemistry in the University, preference will be given to those who enter with credit in any two of the following high school subjects: chemistry, 1 unit; physics, 1 unit; plane trigonometry,  $\frac{1}{2}$  unit.

**Pharmacy:** (A) leading to the degree of Ph.G. (Graduate in Pharmacy) at the end of a course of two years in the California College of Pharmacy in San Francisco.

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

(B) leading to the degree of Ph.C. (Pharmaceutical Chemist) at the end of a course of three 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.

(C) leading to the degree of Phar.B. (Bachelor of Pharmacy) at the end of a course of four years in the California College of Pharmacy.

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

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

*Recommended:* Latin; mathematics; physics or chemistry.

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

*Required:* chemistry (1); elementary algebra (1); plane geometry (1).

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

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

*Required:* elementary algebra (1); plane geometry (1); physics (1) or advanced mathematics including trigonometry (1), chemistry (1).

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

*Required:* elementary algebra (1); plane geometry (1); chemistry (1); physics (1).

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

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

*Recommended:* foreign language.

**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 at the end of four years and to the degree of Graduate in Public Health (Gr.P.H.) in the GRADUATE DIVISION at the end of six years.

*Required:* elementary algebra (1); plane geometry (1); physics (1); chemistry (1).

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

(B) leading to the degree of Bachelor of Science in the COLLEGE OF CIVIL ENGINEERING (curriculum in sanitary engineering) at the end of four years and to the degree of Graduate in Public Health (Gr.P.H.) in the GRADUATE DIVISION at the end of six years.

*Required:* same as for ENGINEERING; see above.

*Recommended:* same as for ENGINEERING; see above.

(C) leading to the degree of Bachelor of Arts in the COLLEGE OF LETTERS AND SCIENCE, Graduate in Public Health in the GRADUATE DIVISION, and Doctor of Medicine in the MEDICAL SCHOOL in a combined course of eight years.

*Required:* elementary algebra (1); plane geometry (1); physics (1); chemistry (1).

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

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

*Recommended:* same as for English; see above.

**Social Service:** leading to the degree of Bachelor of Arts.

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

*Recommended:* history (1); additional foreign language.

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

*Required:* elementary algebra (1); plane geometry (1); chemistry (1).

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

**ADMISSION WITH ADVANCED STANDING****FROM OTHER COLLEGES AND UNIVERSITIES**

Advanced standing in the Teachers College or the College of Letters and Science of the Southern Branch may be given applicants on the basis of credentials from other colleges and universities upon the approval of the credentials by the proper committee. A form which may be used for such credentials will be furnished on application to the Recorder of the Southern Branch, Los Angeles. It may be filled out by the applicant himself, but should be duly certified by the proper officer of the institution in which the work was done. 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 Advanced Standing for an estimate of their value in terms of the requirements of the University of California. The committee, acting on behalf of the faculty, is empowered to reject the certificates, in whole or in part, and to require examination in any or all of the subjects offered.

**ADMISSION FROM NORMAL SCHOOLS OR STATE TEACHERS COLLEGES**

A student in a state teachers college or normal school, who plans to enter the University of California, should arrange his programme with special reference to the degree requirements of the college in which he expects to take his bachelor's degree.

In the College of Letters and Science and in the College of Commerce, the junior certificate requirements consist largely of courses specifically prescribed in the fields of foreign languages, laboratory science, etc., and allow only a limited amount of free elective time. The premedical curriculum and the curricula of the colleges of engineering and agriculture include a number of prescribed courses in subjects which ordinarily are not represented in a state teachers college.

The University regulations, however, provide that a student admitted to the University from a normal school or a state teachers college who is also a graduate (with university recommendation) of an accredited high school, may be allowed junior standing for two years' work and senior standing for three years' work, whenever it appears that the work which has been done is substantially the equivalent of the work required by the University of California in the college or curriculum selected.

The foregoing allowance of credit is conditioned upon the presentation by the applicant of satisfactory recommendations both from the high school and from the normal school or state teachers college.



Graduates of California State normal schools or of other normal schools of equal rank who become candidates for the certificate of completion of the teacher-training curriculum may be exempted from the additional half-year of residence required beyond the bachelor's degree.

Credentials from high schools and normal schools of states other than California are evaluated in accordance with this general plan. The applicant must in every such case submit the detailed record of his high school and later studies in order that the Board of Admissions may be satisfied that the applicant has met the California requirements both as to selection of his studies and as to scholarship standing. Blank forms for statement of the applicant's studies may be obtained from the Recorder of the Faculties on request.

#### CREDIT FOR TEACHING EXPERIENCE

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.

#### FROM SCHOOLS AND COLLEGES IN FOREIGN COUNTRIES

Graduates of approved schools and colleges in foreign countries may be admitted only if their command of English is sufficient to permit them to profit by university instruction. This ability will be tested by an oral and written examination set by the Admissions Committee. A circular concerning the rules of the Admissions Committee in the matter of assignment of credit in languages to foreign students may be obtained from the Recorder of the Southern Branch, Los Angeles.

#### 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 less than twenty-one years of age 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. Regularly admitted students may, with the approval of the Dean, pursue strictly elective or limited programmes, if they do not desire to become candidates for degrees.

The Southern Branch 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.

Applications for admission to special status should be filed with the Recorder well in advance of the date announced as the last one for the filing of credentials by candidates for regular status. In practically every case, the Recorder will arrange for a personal interview between the candidate and the proper Dean or other officer, who will inspect the candidate's credentials, and determine any examinations that may be required in subjects prerequisite to the courses the candidate wishes to enter. Blanks for application and for transcripts of high school records may be obtained from the Recorder.

Applicants for special status will be required to take the examination in Subject A: English Composition, and the general intelligence test, and to undergo a physical examination. Dates for these will be announced at the opening of each semester.

All special students (men) shall report immediately to the officer in charge of military training for enrollment in the course, or for exemption on the proper grounds.

Upon petition special students, not candidates for any University degree or University teaching credential, may be excused from the exercises in physical education and hygiene; such students, however, in case they become candidates for degrees or teaching credentials, must meet these requirements in full.

Instruction is not offered in such essential preparatory subjects as United States history, elementary Latin and Caesar, and, save in the Summer Session, elementary chemistry and elementary physics. Before applying for admission, the applicant should see that he is prepared in any of these which may be prerequisite to work he may wish to do in the University.

## 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 semester.

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.

#### SUBJECT A: ENGLISH COMPOSITION

The Subject A examination is designed to test the student's ability in English composition and written expression, especially with regard to organization and freedom from technical errors.

All intrants to the Southern Branch must, at the time of their first registration, present themselves for examination in Subject A: English Composition.

(1) Students who pass Subject A are not required, but are advised, to continue their training in oral and written composition. (2) All students must pass Subject A examination. (3) No student who has not passed Subject A will be admitted to any University course in oral or written composition. (4) Students who fail to make a satisfactory showing in this test are required to take a special course in English composition without university credit. A tuition fee of \$10 is charged for this course. (5) Intrants who fail to present themselves for the examination at the time appointed must pay a fee of \$2 when they enter the examination for the first time. (6) For students who enter with advanced standing Subject A is a requirement for junior standing. (7) Failure in the examination does not prevent admission to the Southern Branch. (8) The examination will be given at the Southern Branch, at the opening of the fall and spring sessions.

The examination will be composed, set, and judged under the direction of the Committee on Subject A, and the requirements and penalties will be enforced by the deans and other proper authorities of the colleges.

#### ATTENDANCE

Absences from class exercises must be adjusted by the student with the instructor concerned.

**MILITARY SCIENCE, PHYSICAL EDUCATION, AND HYGIENE**

All undergraduate students shall, upon admission to the Southern Branch, report immediately to the proper officers for enrollment in military science (men), physical education (men and women), and hygiene (men and women), following the Registration Circular or the announcements which may be posted on the bulletin boards. 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, physical education, or hygiene, 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 all of these subjects or from any 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, physical education and hygiene.

A circular containing information concerning the requirements in military science, physical education, and hygiene, 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 enroll in the prescribed course or courses and thereafter (without authority) shall fail to appear for this work, his study card shall be immediately withdrawn; and he can be reinstated only by petition to the proper authority.

Vaccination at the time of entering, or proof of successful recent vaccination, is required of all students.

**UNITS OF CREDIT**

Both matriculation and University work are measured in "units". 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 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.

## STUDY-LIST LIMITS

(a) *Letters and Science.*—Students in the College of Letters and Science may present study lists aggregating from 12 to 16 units per semester without special permission as to quantity of work. During the first semester in residence at the Southern Branch no undergraduate student will be permitted to take more than 16 units of work.\* After one semester of regular residence (i.e., with a study list of at least 12 units), permission may be granted, on petition to the Scholarship Committee, to take not over 18 units per semester, provided the student has attained an average of at least two grade points per unit for the preceding semester. Prescribed courses in military science, physical education, and hygiene, and repeated courses are to be counted in making study-list totals.

In general, old students will be allowed (unless limited to 16 units because of deficiencies in the work of the previous semester) to enroll in 16½ units without special permission. Their cards will be stamped by the Recorder, "Only 16 units credit allowed."

Students may be allowed, on petition to the Scholarship Committee, to enroll in courses aggregating slightly more than this figure, when it is difficult to make the desirable courses total the exact limit. Their cards will be stamped by the Recorder, "Only 16 units credit allowed."

Regular students with deficiencies will be limited to 16 units, including repeated work.

Students enrolled in the College of Letters and Science, carrying lower division work preparatory to admission to the junior year of the College of Agriculture, the College of Civil Engineering, the College of Chemistry, the College of Commerce, the College of Mechanics, or the College of Mining, will be allowed study-list limits as prescribed for lower division students in the college in which they will be registered upon transferring to the upper division in Berkeley. Should they later transfer to a non-professional curriculum in Letters and Science, their credits will be scaled down in accordance with the above limits.

Students entering the College of Letters and Science from any other college, will have their advanced standing determined under the above limits.

The inclusion of English A in a student's study-list, although it does not carry units of University credit, will nevertheless reduce his allowable maximum by two units.

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\* Attendance in the summer session does not give standing as an "old student."

(b) Teachers College.—The requirements for the College of Letters and Science are changed in only one particular for the Teachers College, namely, the student may present a study-list aggregating from 12 to 17 units. The extra half-unit without petition, or slightly more upon petition to the Committee on Scholarship, may be allowed as above described for the College of Letters and Science; in case of the Teachers College the Recorder's stamp will read: "Only 17 units of credit allowed." The 18 unit maximum limit on petition by students having an average of two grade points per unit is the same as in Letters and Science. Regular students with deficiencies will be limited to 16 units including repeated work. The inclusion of English A in a student's study-list will reduce his allowable maximum by two units.

*Courses Taken Outside the Southern Branch.*—If a student is carrying on studies elsewhere, the total of his work must come within the limits above defined. The responsibility for meeting this requirement lies directly with the student, who should give full information to his adviser and the Recorder. If credit toward a certificate or a college degree is expected, the student should notify the Recorder at the beginning of any such outside course.

#### 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. Withdrawal from, or neglect of, any course entered on the study list, or a change in programme without the formal permission of the dean of the college, renders the student liable to enforced withdrawal from the Southern Branch, or other appropriate disciplinary action.

#### EXAMINATIONS

*Examinations.*—At the end of each semester regulations require that there shall be an examination covering the term's work for each class. The final grade for the class is based in part upon the daily work and in part upon this examination.

*Re-examination.*—Should a student receive a condition or an incomplete in a course and find it necessary to take a re-examination, he may do this without charge provided that he take the examination with the regular class which next repeats that course. Should he, however, take the examination at any other time he must pay a fee of \$5 for the special examination. In any case, permission to take the examination must be received from the Recorder's office.

Any student who is reported as having failed in a course, or who, after being conditioned, does not pass the reëxamination for the removal of the condition, will be required to repeat every such subject with the class that next takes it; unless, on recommendation of the officer of instruction in charge, the faculty shall permit him to review a subject in which he is thus deficient with the assistance of an acceptable private tutor; in which case he will be excused from attending the recitations, but will be required to take the regular examinations at the end of the year or half-year.

### GRADES OF SCHOLARSHIP

Beginning August, 1921, the results of examinations, together with term work when a record of the latter is kept, will for all undergraduate students be ranked and reported to the Recorder in six grades: A, excellent; B, good; C, fair; D, barely passed; E, conditioned; F, failure.\*

Courses in which students obtain grade E (conditioned) will not be credited to them, except upon passing a reëxamination.

"Incomplete" (Inc.) indicates that the student has been passing in his work but through illness or other unavoidable cause has failed to perform certain of the allotted tasks or has been absent from the required examination.

An "Incomplete" which is not made up by the close of the session in which the course is next given will then be recorded as a "Condition"; that is to say, a negative grade point will be entered on the student's record for each unit in the course, and also it will be impossible after that time for the grade to be removed by any grade higher than "D." A Condition which is not removed by the close of the session in which the course is next given will then be removable only by repetition of the entire course. See under "grade points" the regulations concerning negative grade points.

Grade F denotes failure, and the necessity of repeating not only the examination of the course but also the term work. The report in case of absence from the required examination, or failure to perform any of the allotted tasks in a given course, is incomplete.

### GRADE POINTS

To qualify for the bachelor's degree and teaching credentials in the Teachers College or for the bachelor's degree in the College of Letters and Science, in and after May, 1923, the candidate must have attained at least as many grade points as he has attained units of credit in work

\* An additional passing grade, P, may be given in certain stated courses where the individual work of the student cannot be determined with accuracy.

undertaken by him in and after August, 1921. It is also required that candidates for any teaching credential shall attain at least 10 of the necessary grade points in practice teaching courses.

The grades A, B and C carry with them grade points. A gives three grade points per unit, B two grade points per unit, C one grade point per unit. Grade D is a passing grade and gives the student credit in the course but no grade point.

Grades B, C and D may not be raised by any process of examination or even of repeating the work.

### NEGATIVE GRADE POINTS

Beginning February, 1924, negative grade points will be assigned at the rate of one negative grade point per unit, for courses reported conditioned or failed; that is, one grade point will be subtracted from the total of the student's grade points for each unit of E or F received. These negative grade points will be cancelled from the student's record only upon the satisfactory completion of the work, but no positive grade points may then be given.

Full g.p. allowed for E or F received prior to 1923-24 if removed not later than June, 1924. L.A.M. 1923-24

### DISQUALIFICATION

Every undergraduate student is 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. Any student who fails to satisfy this requirement will be dropped from the rolls (disqualified). Independently of these requirements, any student who neglects any part of the work for which he is registered (regardless of the number of units passed) may be disqualified by faculty action.

Any student so disqualified may be reinstated after an interval of at least a half-year, for reasons satisfactory to the Committee on Disqualified Students. The case of each disqualified student is handled individually, and the student must not assume that any particular method he may elect will be acceptable. It is necessary for any disqualified student who proposes ever to return to the Southern Branch to communicate without delay with this Committee through the Recorder in order that the question of reinstatement may be considered and that the student may arrange his studies during the interval of disqualification so that they will meet the Committee's requirements.

A student who receives a grade of E or F in any course during a given semester is considered as deficient and is, therefore, "limited" in the programme which he may take during the following semester. Deficiencies in Military Science and Physical Education have the same effect as deficiencies in other subjects.



## LEAVE OF ABSENCE AND HONORABLE DISMISSAL

*Indefinite leave of absence* must be sought by written petition to the office of the Recorder.

*Brief Leave of Absence*.—Application for leave to be absent, or excuse for having been absent from any college exercise other than an examination, 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 for several days, in which case the 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 Southern Branch, should be sought by written petition to the office of the Recorder. Without such petition no record of honorable dismissal will be made.

*Discontinuance Without Notice*.—Students who discontinue their work without formal leave of absence do so at the risk of having their registration privileges curtailed or entirely withdrawn.

## FEES

Incidental fee, \$12.50, 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, lockers, 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 the total fee (\$12.50) and will later receive a refund from the Comptroller of half of their fee (\$6.25).

*Tuition fee*.—Non-residents of California are charged a tuition fee of \$75.00 each half-year. Aliens who have not made a valid declaration of intention to become citizens are classified as non-residents of California. Every entering student 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. A circular concerning tuition fees for non-residents

is supplied by the Recorder upon request. If the student registers for instruction to an amount 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, \$2.00.

Late application for admission (after September 3, 1923, or January 31, 1924), \$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 study lists, \$1.00 per course.

For courses dropped after date set for filing study lists, \$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 text book deposit* is \$20, payable by every student subject to military training before his study card 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 text books 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 a membership card is \$5 per year. The card entitles the holder to participation in the affairs of the Associated Students; a subscription to the *Cub Californian*; admission to all athletic contests (with the exception of final intercollegiate

contests) held on the campus under the jurisdiction of the Associated Students.

*The ordinary yearly expenses* (including personal expenses) of a student in the academic departments would probably be at least \$675.

#### SCHOLARSHIPS

The Committee on Undergraduate Scholarships in the University of California 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 fifteenth day of March which precedes 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**

The cost of board and lodging in boarding houses near the Southern Branch is from \$40 to \$55 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. 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. Rents near the campus for unfurnished apartments, housing four or more persons, range from \$65 up.

There are no dormitories maintained by the Southern Branch. Lists of approved boarding and rooming places are published at the opening of every session. No woman is permitted to complete her registration unless her living accommodations are first approved by the Dean of Women.

Lists of boarding and rooming places and further advice concerning living accommodations may be obtained at the office of the Dean of Women, Millspaugh Hall, or from the Information Clerk.

**THE CAFETERIA**

The cafeteria which is maintained by the University serves luncheon for the accommodation of those in attendance at the University. It is located on the northern part of the campus.

**EMPLOYMENT**

Women students desiring employment should apply at the office of the Dean of Women, Millspaugh Hall, between 10 a.m. and 12 m. 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. Opportunities also exist for obtaining employment on an hourly basis.

Men students desiring employment should apply to Professor Mansfield, Mechanic Arts Hall.

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.

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 intelligently 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.

Little can be done 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 expense of the first half-year.

## LIBRARY, GYMNASIUM, INFIRMARY

### THE LIBRARY

The Library is located in a separate building with a capacity of 50,000 volumes. The reading rooms will accommodate about 500 students.

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.

The Library contains about 50,000 volumes and 10,000 pamphlets. About 5,000 books are added annually.

The Library subscribes for 340 leading periodicals, professional and general. In addition there are about 8,000 bound volumes of the literary and educational periodicals.

## 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 × 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 building of a swimming pool, 50 × 100 feet, at the rear of the Gymnasium, is projected for the coming year.

*For Women*

The Women's Gymnasium is well equipped. Besides a main hall, 60 × 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 × 300 feet.

## 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. Students are entitled to medical consultation and advice. Every student receives a physical examination.

## MUSICAL EVENTS

Five musical events are given during the year.

The Christmas Concert consists of a University community programme of Christmas carols; in which the historical expression of the Christmas thought is 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.

## STUDENT SELF-GOVERNMENT

## THE ASSOCIATED STUDENTS

The Southern Branch has student self-government. There is a complete organization, the Associated Students, that administers and controls all extra-curriculum activities. This organization has an executive council composed of a president, two vice-presidents, three 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 Graduate Financial Manager and the Graduate Athletic Manager, respectively.

Subject to the approval of the Director, the University Affairs Committee, composed of seven members, passes on all cases of misconduct among the students.

## PUBLICATIONS

The *Cub Californian* and *The Southern Campus* are the official publications of the students of the Southern Branch.

The *Cub Californian*, the student paper, is published semi-weekly. The *Cub* 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, because of crowded conditions, to get subjects which they need. 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 Sessions. The courses of instruction are mainly 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 Junior Orpheum Building, Los Angeles.

Summer Sessions are conducted at the seat of the University in Berkeley and at the Southern Branch in Los Angeles. In addition, the Inter-session of six weeks has been organized in Berkeley, and immediately precedes the Summer Session.

**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 Junior Orpheum Building.



## VII. CURRICULA

The curricula at the University of California, Southern Branch, are divided into two colleges: A—The College of Letters and Science, and B—The Teachers College. For the announcement and description of courses see p. 79.

### A. COLLEGE OF LETTERS AND SCIENCE

#### INTRODUCTORY

The curricula in the College of Letters and Science offer the first three years of academic work and prepare students to transfer with full credit to the junior and senior years in the departments of instruction at the University of California at Berkeley, or at other collegiate institutions.

#### THE JUNIOR CERTIFICATE

Registrants in the College of Letters and Science will receive upon the completion of the first two years' work a certificate to which their entrance credits and completed college credits entitle them. This certificate marks the transition to the junior and senior years.

Honorable mention will be granted with the junior certificate to students who attain at least second or B grade in 45 units. A student who gains honorable mention is thereby considered eligible for the honors status.

In 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 junior and senior years, will make an effort to establish a basis for a breadth of culture 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 special 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. By so doing he makes his programme more flexible, gives himself a greater freedom of choice, and prepares himself

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 minimum amount of work required for the junior certificate.

The degree requirement of 124 units is calculated on the assumption that the student will normally take 64 units of work in the freshman and sophomore years, including the prescribed work in military science and physical education and hygiene, and 60 units in the junior and senior years. The junior certificate will, however, 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.

<sup>1</sup>Subject A.

Psychology X.

Military, 6 units (men).

Hygiene, 1 unit (men), or 2 units (women).

Physical Education, 2 units.

(b) Foreign Language. At least 15 units in not more than two languages, but nothing less than a full year of each language studied may count toward this requirement. Each year of high school work in a foreign language will be counted in satisfaction of three units of this requirement. Courses given in English by a foreign language department will not be accepted in fulfillment of this requirement.

(c) Mathematics. Elementary algebra and geometry.

(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, 11.

Bacteriology 1\*.

Botany 1, 2A\*-2B\*.

Chemistry 1A\*-1B, 2A-2B\*, 5\*, 6A\*-6B\*, 8A-8B.

Geology 1A, 1B, 1C, 2C-2D, 6\*.

Mineralogy 1A\*-1B\*, 2AB.

Paleontology 1.

Physics 2A-2B, 3A\*-3B\*.

Zoology 1A\*-1B\*, 10, 15.

<sup>1</sup> An examination in Subject A: English Composition is required of all intrants at the time of their first registration in the Southern Branch. See pages 41 and 97.

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 in each of three of the following groups.

- (1) English, Public Speaking.
- (2) Foreign Language (additional to b). 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, 5, or any upper division year sequence.

German: any two consecutive courses of A, B, C, D; or SC-SD; or any upper division year sequence.

Greek: 1AB-2AB, 101.

Latin: any year sequence from the following: C, D, 1, 5, 102, 106. The third and fourth years of high school Latin are accepted as the equivalent of a year course.

Spanish: any two consecutive courses of A, B, C, D, or any upper division year sequence.

*Group 3—Mathematics*

Any two of the courses of C, 3A-3B, 6, 8. 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 4A-4B, 7A-7B, 8A-8B, 2A-2B if supplemented by a related course.  
Commerce 1A-1B (*Economics 1A-1B*).  
Political Science 1A-1B.

*Group 5—Philosophy*

Philosophy 1A-1B; 3A-3B; or 4A-4B.

*Summer Session Courses.* Some of the courses offered in the summer sessions are equivalent to courses offered in the fall and spring sessions, and these will be accepted in fulfilling requirements (b), (c) or (d). Students are advised to complete requirement (e) in the fall or spring sessions. A year course within the meaning of requirement (e) is not to be considered as a stated number of units, but as a subject of serious study throughout an entire academic year. Students who purpose applying any of the work offered in summer terms in satisfaction of the requirement of a year course for requirement (e) must have their programmes specially approved in advance by the Dean of the College.

ADDITIONAL COURSES ACCEPTABLE IN FULFILLMENT OF REQUIREMENTS FOR  
JUNIOR CERTIFICATE

*University Extension.* 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.

## DEPARTMENT OF COMMERCE

The requirements for the junior certificate in the Department of Commerce are as follows:

Subject A: English Composition. Examination required of all.\*

Psychology X.

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.

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 1A (Fundamentals of Modern Geography) and

3A (Introduction to Economic Geography)..... 6

Natural Sciences ..... 9

Mathematics:

Mathematics B (Plane Geometry) ..... 3

Mathematics 1 (Advanced Algebra) ..... 3

Mathematics 2 (Mathematics of Finance) ..... 3

Economics:

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

Military Science, Physical Education, Hygiene ..... 9

Electives ..... 19

Total ..... 64

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

The prerequisite to Mathematics 2 is Mathematics 1 or 1c. For Mathematics 1c elementary algebra is necessary and at least a first course in algebraic theory is strongly recommended. (Algebraic theory with elementary algebra and plane geometry should be taken in high school.)

## 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.

To receive the degree of Bachelor of Arts or Bachelor of Science at Berkeley, the student must have completed at least 54 units of college work

\* An examination in Subject A: English Composition is required of all undergraduate intrants at the time of their first registration in the University. For further regulations concerning Subject A see first page of General Information.

after the receipt of the junior certificate, of which 36 units must be in upper division courses.

The maximum number of units toward the degree of Bachelor of Arts or Bachelor of Science accepted at the University of California at Berkeley for work done in the College of Letters and Science at the Southern Branch is 100 units.

The final or senior year, including at least 24 units, must be taken in resident courses of instruction at Berkeley.

## B. THE TEACHERS COLLEGE

The curricula in the Teachers College are of the following types:

1. Two and one-half year courses leading to—
  - a. The Kindergarten-Primary Credential, valid in the kindergarten and grades 1, 2 and 3 of the elementary school.
  - b. The Elementary Credential, valid in the eight grades of the elementary school.
2. Three-year courses leading to the Elementary Credential in Fine or Industrial Arts, Music and Home Economics, valid in the eight grades of the elementary school and in grades 7, 8 and 9 when organized as a junior high school.
3. Four-year courses leading to the degree of Bachelor of Education and to the following types of teaching credentials:
  - \*a. The Junior High School Credential valid in grades 7, 8 and 9 when organized as a junior high school.
  - \*b. The Secondary Credential in Art, Commerce, Home Economics, Mechanic Arts, Music or Physical Education, valid in secondary and junior high schools.
  - \*c. The Kindergarten-Primary Credential, valid in the kindergarten and grades 1, 2 and 3 of the elementary school.
  - d. The Elementary Credential, valid in the eight grades of the elementary school. Opportunity is provided for specialization in one or more of the following fields:
    - (1) Elementary school supervision.
    - (2) Departmental work in the various elementary school subjects.
    - (3) Rural supervision and administration.
    - (4) Civic education (Americanization).
    - (5) Adjustment and opportunity room work.
    - (6) Vocational and part time education.

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\* Students completing these curricula may also receive the general elementary credential upon the completion of a course in Principles of Elementary Education. Education 150 is designed to meet this need.

## REQUIREMENTS FOR GRADUATION FROM THE TEACHERS COLLEGE

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

- I. Admission to the Teachers College.
- II. Completion of a total of 128 units or credit, inclusive of physical education, hygiene, and military science.
- 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 .....	47 or 48 units
1. Subject A .....	.....
2. Psychology X .....	1 unit
3. Biological Sciences .....	6
Elective sequences in Botany, Zoology or Physiology. One course must include laboratory work.	
4. English 1A .....	3
English (elective) .....	3
5. Physical Sciences .....	8
Courses in Physics, Chemistry, Geography, Geology and Meteorology, Mathematics, Astronomy or Logic will be acceptable, subject to approval of adviser.	
6. Psychology 2, 30 .....	6
7. Social Sciences:	
Commerce 1A .....	3
Political Science 50 .....	3
Elective sequences in History, Economics, Political Science .....	6
8. Military Science 1AB, 2AB (men) .....	6
9. Physical Education 1 (Hygiene) (men) .....	1
10. Physical Education 2 (Hygiene) (women).....	2
11. Physical Education 10, 11 (women) .....	4
12. Physical Education (required courses for men and women. One-half unit per semester).....	2

Total .....(M) 48, (W) 47 units

*Announcement of the Southern Branch***b. Departmental Sequences: Approximately 40 units.**

Sequences principal and secondary shall be selected from courses offered in the following departments: (1) Art, (2) Biology, (3) Chemistry, (4) Classical Languages, (5) Commerce, (6) English, (7) Geography, (8) Geology and Meteorology, (9) German, (10) History, (11) Home Economics, (12) Mathematics, (13) Mechanic Arts, (14) Music, (15) Philosophy and Psychology, (16) Physical Education, (17) Physics, (18) Political Science, (19) Romanic Languages.

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. Upper division courses are designated by numbers 100-199.

**c. Professional Sequences: Professional sequences, principal and secondary (approximately 40 units), are prescribed as follows:**

1. Principal Sequences—	units
*Education 11 .....	3
Education 114 .....	2
Education 140 .....	3
*Education 142 .....	3
*Education 165 or 166 .....	3
Psychology 107 or Philosophy 136 .....	3
†Teaching 190A, 190B .....	10

**2. Secondary Sequences, 12-14 units.**

Professional courses leading to specialization in various fields of education to be chosen by the student with the approval of his adviser.

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\* The courses listed above are required for general elementary certification in the degree curricula. In various special curricula other professional courses are substituted.

† Application for teaching assignments should be made some weeks before the opening of the semester in which the teaching is to be undertaken. Assignments are made in advance of the registration of students for other courses.

Regular group conferences with supervisors or training teachers each week are a required accompaniment of each teaching assignment. The 3 o'clock period on Tuesday must be kept open for this purpose.

Note.—Students entering the Teachers College without two years of mathematics (one year algebra and one year geometry) and two years of one foreign language, must complete as a part of the freshman and sophomore requirement one year (6 units) of mathematics and one year (10 units) of a foreign language.



**KINDERGARTEN-PRIMARY TRAINING CURRICULA****SUGGESTED FOUR-YEAR CURRICULUM LEADING TO THE DEGREE OF BACHELOR OF EDUCATION AND TO RECOMMENDATION FOR THE KINDERGARTEN-PRIMARY TEACHING CREDENTIAL**

For admission to this curriculum the applicant must show ability to play materials of the difficulty of the Arnold Collection and the accompaniments of the Barbour Child Land Books I and II. If a student is conditioned in piano she must remove this condition before assignment to practice teaching will be made.

**FRESHMAN YEAR**

<i>First Semester</i>		Units	<i>Second Semester</i>		Units
Subject A.....			Psychology 2.....	3	
Psychology x.....	1		*History 4B.....	3	
*Botany 1 or Agriculture 10.....	3		Political Science 50.....	3	
Commerce 1A.....	3		Zoology 12.....	3	
*History 4A.....	3		Physical Education 12A.....	2	
English 1A.....	3		Commerce 18A.....	2	
Physical Education 2.....	2		Physical Education (required course).....	†	
Physical Education (required course).....	†				16‡
		15‡			

**SOPHOMORE YEAR**

<i>First Semester</i>			<i>Second Semester</i>		
*Geography 1A.....	3		Psychology 30.....	3	
Philosophy 1A.....	3		Philosophy 1B.....	3	
English 12A.....	2		Music 61A.....	2	
Departmental Sequences.....	5		Art 51A.....	2	
Physical Education 12B.....	2		Education 21.....	3	
Physical Education (required course).....	†		Departmental Sequences.....	3	
		15‡	Physical Education (required course).....	†	
					16‡

**JUNIOR YEAR**

<i>First Semester</i>			<i>Second Semester</i>		
Art 51B.....	2		Education 142.....	3	
Education 114.....	2		History 11.....	2	
Public Speaking 15A or 15B.....	3		Philosophy 136.....	3	
English 130.....	3		Departmental Sequences.....	6	
Departmental Sequences.....	6		Education 127.....	2	
		16			16

**SENIOR YEAR**

<i>First Semester</i>			<i>Second Semester</i>		
Education 124 or Education 151.....	3		Education 126.....	3	
Departmental Sequences.....	3		Departmental Sequences.....	10	
Teaching K190A.....	5		Education 140.....	3	
Teaching K190B.....	5				16
		16			

\* Other courses in the same department may be substituted with written approval of chairman of department and adviser.

**KINDERGARTEN-PRIMARY TRAINING CURRICULA****THE SHORT CURRICULUM LEADING TO RECOMMENDATION FOR THE  
KINDERGARTEN-PRIMARY TEACHING CREDENTIAL**

For admission to this curriculum the applicant must show ability to play materials of the difficulty of the Arnold Collection and the accompaniments of the Barbour Child Land Books I and II. If a student is conditioned in piano she must remove this condition before assignment to practice teaching will be made.

**FRESHMAN YEAR**

<i>First Semester</i>		<i>Second Semester</i>	
	Units		Units
Subject A.....		Psychology 2.....	3
Psychology x.....	1	Zoology 12.....	3
*Botany 1 or Agriculture 10.....	3	Physical Education 12A.....	2
Commerce 1A.....	3	Music 61A.....	2
*Geography 1A.....	3	Art 51A.....	2
English 1A.....	3	Education 21.....	3
Physical Education 2.....	2	Physical Education (required course)..	†
Physical Education (required course)	†		
	<hr/>		<hr/>
	15‡		15‡

**SOPHOMORE YEAR**

<i>First Semester</i>		<i>Second Semester</i>	
	Units		Units
Political Science 50.....	3	Education 127.....	2
Psychology 30.....	3	Education 140.....	3
Physical Education 12B.....	2	Commerce 18A.....	2
Education 142.....	3	Public Speaking 15A or 15B.....	3
Art 51B.....	2	History 11.....	2
English 12A.....	2	Departmental Sequences.....	2
Physical Education (required course)..	†	Physical Education (required course)..	†
	<hr/>		<hr/>
	15‡		14‡

**JUNIOR YEAR**

<i>First Semester</i>	
	Units
Education 114.....	2
Education 124.....	3
Teaching K190A.....	5
Teaching K190B.....	5
	<hr/>
	15

15

\* Other courses in the same department may be substituted with written approval of chairman of department and adviser.

## ELEMENTARY SCHOOL TRAINING CURRICULA

## SUGGESTED FOUR-YEAR CURRICULUM LEADING TO THE DEGREE OF BACHELOR OF EDUCATION AND TO RECOMMENDATION FOR THE ELEMENTARY TEACHING CREDENTIAL

## FRESHMAN YEAR

<i>First Semester</i>		Units	<i>Second Semester</i>		Units
Subject A .....			*Geography 1A.....		3
Psychology x.....		1	*History 7a.....		3
Commerce 1A.....		3	*Zoology 12.....		3
Commerce 18A.....		2	Psychology 2.....		3
English 1A.....		3	Physical Education (required course)..	†	
*History 7A.....		3	Physical Education 1 (men).....		1
*Zoology 10.....		3	Physical Education 2 (women).....		2
Physical Education (required course)..	†		Physical Education 10 (women).....		2
Military Science 1A (men).....		1½	Military Science 1B (men).....		1½
		(M) 17 (W) 15½			(M) 15 (W) 16½

## SOPHOMORE YEAR

<i>First Semester</i>			<i>Second Semester</i>		
English 12A.....		2	English 12B.....		2
Mathematics 17.....		3	*Philosophy 1B.....		3
Psychology 30.....		3	Education 11.....		3
*Philosophy 1A.....		3	Political Science 50.....		3
†Departmental Sequences.....		3	†Departmental Sequences.....		3-5
Physical Education (required course)..	†		Physical Education (required course)..	†	
Physical Education 11 (women).....		2	Military Science 2B.....		1½
Military Science 2A (men).....		1½			
		16-16½			16-16½

## JUNIOR YEAR

<i>First Semester</i>			<i>Second Semester</i>		
Education 142.....		3	Psychology 107 or 132.....		3
Education (elective).....		3	Education (elective).....		3
†Departmental Sequences.....		10	Teaching E190A.....		5
		16	†Departmental Sequences.....		4
					15

## SENIOR YEAR

<i>First Semester</i>			<i>Second Semester</i>		
Education 114.....		2	Education 140.....		3
Education (elective).....		3	Education 166.....		3
†Teaching E190B.....		5	Education (elective).....		3-6
†Departmental Sequences.....		6	†Departmental Sequences.....		6-8
		16			15-16

\* Other courses in the same or allied departments may be substituted with the written approval of chairman of department and adviser.

† Either two or three departmental sequences should be chosen by the student in conformance with the statement on page 62.

### ELEMENTARY SCHOOL TRAINING CURRICULA

#### THE SHORT COURSE LEADING TO RECOMMENDATION FOR THE ELEMENTARY TEACHING CREDENTIAL

##### FRESHMAN YEAR

<i>First Semester</i>		<i>Second Semester</i>	
	Units		Units
Subject A .....		Psychology 30.....	3
Psychology x.....	1	English 12A.....	2
Psychology 2.....	3	*History 7A or 7B or Geog. 1A (or Physiology 10 or Zoology 12).....	3
English 1A.....	3	Mathematics 17.....	3
*Botany 1 or Zoology 10.....	3	Music 60 or Art 52A or Commerce 18A	2
*History 7A or 7B, or Geog. 1A.....	3	Physical Education (required course)	½
Commerce 18A or Art 52A or Music 60	2	Physical Education 1 (men).....	1
Physical Education (required course)	½	Physical Education 2 (women).....	2
Military Science 1A (men).....	1½	Military Science 1B (men).....	1½
	<hr/>		<hr/>
	15½-17		16-15½

##### SOPHOMORE YEAR

<i>First Semester</i>		<i>Second Semester</i>	
	Units		Units
Commerce 1A.....	3	Political Science 50.....	3
English 12B.....	2	Education 142.....	3
Education 11.....	3	Teaching E190A .....	5
*Physiology 10 or Zoology 12 (or His- tory 7A or 7B or Geography 1A).....	3	Departmental Sequences (elective).....	2
Art 52A or Music 60 or Commerce 18A	2	Physical Education (required course)...	½
Physical Education (required course)...	½	Physical Education 11 (women).....	2
Physical Education 10 (women).....	2	Military Science 2B (men).....	1½
Military Science 2A (men).....	1½		<hr/>
	<hr/>		15-15½
	15½-16		

##### JUNIOR YEAR

<i>First Semester</i>	
	Units
Education 114.....	2
Education 140.....	3
Teaching E190B .....	5
Departmental Sequences (elective).....	2-4
	<hr/>
	12-14
Total.....	76

\* Other courses in the same department may be substituted with written approval of chairman of department and adviser.

## JUNIOR HIGH SCHOOL TRAINING CURRICULUM

SUGGESTED FOUR-YEAR CURRICULUM LEADING TO THE DEGREE OF BACHELOR OF  
EDUCATION AND TO RECOMMENDATION FOR THE JUNIOR HIGH  
SCHOOL TEACHING CREDENTIAL

### FRESHMAN YEAR

<i>First Semester</i>	Units	<i>Second Semester</i>	Units
Subject A .....		English (elective).....	3
Psychology x.....	1	Psychology 2.....	3
English 1A.....	3	Political Science 50.....	3
Commerce 1A.....	3	Biological Science (elective).....	3
Biological Science (elective).....	3	Physical Science (elective).....	2
Physical Science (elective).....	3	Military Science 1B (men).....	1½
Military Science 1A (men).....	1½	Physical Education 10 (women).....	2
Physical Education 1 (men).....	1	Physical Education (required course) ..	1
Physical Education 2 (women).....	2		16-16½
Physical Education (required course) ..	½		
	16-16½		

### SOPHOMORE YEAR

<i>First Semester</i>	Units	<i>Second Semester</i>	Units
Psychology 30.....	3	Education 142.....	3
*History 7A.....	3	*History 7B.....	3
Physical Science (elective).....	3	†Departmental Sequences.....	8-9
†Departmental Sequences.....	5	Military Science 2B (men).....	1½
Military Science 2A (men).....	1½	Physical Education (required course) ..	1
Physical Education 11 (women).....	2		15½-16
Physical Education (required course) ..	½		
	16-16½		

### JUNIOR YEAR

<i>First Semester</i>	Units	<i>Second Semester</i>	Units
*Psychology 107 or 132.....	3	Education 150.....	3
Education 114.....	2	Teaching J191A.....	5
Education 140.....	3	Departmental Teachers' Course.....	2
Departmental Teachers' Course.....	2	†Departmental Sequences.....	5-6
†Departmental Sequences.....	6		15-16
	16		

### SENIOR YEAR

<i>First Semester</i>	Units	<i>Second Semester</i>	Units
Education 180A.....	3	Education 180B.....	3
Education 165 or 166.....	3	Education (elective).....	3
Teaching J191B.....	5	†Departmental Sequences.....	10
†Departmental Sequences.....	5		16
	16		

\* Other courses in the same department may be substituted with the written approval of chairman of department and adviser.

† Either two or three departmental sequences should be chosen by the student in conformance with the statement on page 62.

## SECONDARY FINE ARTS TRAINING CURRICULUM

SUGGESTED FOUR-YEAR CURRICULUM LEADING TO THE DEGREE OF BACHELOR OF  
EDUCATION AND TO RECOMMENDATION FOR THE SECONDARY  
SPECIAL TEACHING CREDENTIAL IN ART

### FRESHMAN YEAR

<i>First Semester</i>	Units	<i>Second Semester</i>	Units
Subject A .....		Art 1a.....	1
English 1A.....	3	English 1b.....	3
Psychology 1.....	1	Psychology 10 or Zoology 12.....	3
Art 1A.....	1	Political Science 50.....	3
Botany 1 or Zoology 10.....	3	Psychology 30.....	3
Commerce 1A.....	3	Physical Education (required course) †	
Psychology 2.....	3	Physical Education 10 (women).....	2
Physical Education (required course) †		Military Science 1b (men).....	1½
Physical Education 1 (men).....	1		15-15½
Physical Education 2 (women).....	2		
Military Science 1A (men).....	1½		
	17-16½		

### SOPHOMORE YEAR

<i>First Semester</i>	Units	<i>Second Semester</i>	Units
Art 31A.....	1	Art 31b.....	1
Art 4A.....	2	Art 4b.....	1
Art 2A.....	2	Art 2a.....	2
Art 12A.....	1	Art 16a.....	1
Art 8A.....	1	Art 3 (women).....	1
History 12.....	3	History 51.....	3
Philosophy 1A.....	3	Philosophy 1b.....	3
Physical Education (required course) †		Physical Education (required course) †	
Physical Education 11 (women).....	2	Military Science 2a (men).....	1½
Military Science 2A (men).....	1½	Philosophy 136.....	3
	15-15½		16-15½

### JUNIOR YEAR

<i>First Semester</i>	Units	<i>Second Semester</i>	Units
Art 161A.....	1	Art 161b.....	1
Art 8b.....	1	Art 135.....	2
Art 32A.....	2	Art 32b.....	2
Art 134A.....	1	Art 160b.....	2
Art 160A.....	2	Art 134b.....	2
Art 156A.....	2	Art 103.....	1
Art 137A.....	1	Art 137b.....	2
Teaching A190A.....	3	Teaching A191b.....	3
Philosophy 104A.....	2		15
English 152.....	2		
	17		

## SENIOR YEAR

<i>First Semester</i>		<i>Second Semester</i>	
Art 158A.....	1	Art 152B.....	2
Art 162.....	1	Art 154.....	2
Art 168.....	1	Art 180.....	2
Art 175A.....	2	Teaching A192A.....	4
Education 178.....	3	English 154.....	3
Art 152.....	2	Education 140.....	3
Art 183.....	2		<u>16</u>
English 153.....	3		
Education 114.....	2		
	<u>17</u>		

**SECONDARY INDUSTRIAL ARTS TRAINING CURRICULUM**

**SUGGESTED FOUR-YEAR CURRICULUM LEADING TO THE DEGREE OF BACHELOR OF  
EDUCATION AND TO RECOMMENDATION FOR THE SECONDARY  
SPECIAL TEACHING CREDENTIAL IN INDUSTRIAL ARTS**

The curriculum for this course is the same as for the Secondary Fine Arts Training Curriculum, with the following additions and omissions.

## OMIT

Art 4B (1), 16B (1), 134A-134B (3), 135 (2), 103B (1), 137A-137B (3), 154 (2), 161A-161B (2), 162 (2), 168 (1), 175A (2), 183A (2), 156A (2).

## ADD

Art 9 (2), 29A-29B (4), 119A-119B (4), 139A-139B (4), 149 (2), 159 (2), 189 (2), Art electives (3).

**ELEMENTARY FINE ARTS TRAINING CURRICULUM**

**THE SHORT CURRICULUM LEADING TO RECOMMENDATION FOR THE  
ELEMENTARY SPECIAL TEACHING CREDENTIAL IN FINE ARTS**

## FRESHMAN YEAR

<i>First Semester</i>	Units	<i>Second Semester</i>	Unit
Subject A.....		Art 4B.....	1
Psychology x.....	1	Art 1B.....	1
English 1A.....	3	Art 3 (women).....	1
Art 4A.....	2	Art 2B.....	2
Art 1A.....	1	Art 16B.....	1
Art 12A.....	1	Art 103.....	1
Art 2A.....	2	English 1B.....	3
Art 8A.....	1	Psychology 30.....	3
Psychology 2.....	3	Physical Educator (required course) †	
Physical Education (required course).. †		Physical Education 10c (women).....	2
Physical Education 1 (men).....	1	Military Science 1B (men).....	1½
Physical Education 2 (women).....	2		<u>14-15½</u>
Military Science 1A (men).....	1½		

## SOPHOMORE YEAR

<i>First Semester</i>		<i>Second Semester</i>	
Art 156A.....	2	Art 134B.....	2
Art 8B.....	1	Art 135.....	2
Art 32A.....	2	Art 32B.....	2
Art 134A.....	1	Art 31B.....	1
Art 31A.....	1	Art 160B.....	2
Art 160A.....	2	Teaching A190B.....	3
Art 137A.....	1	Philosophy 136.....	3
Art (elective).....	2	Physical Education (required course)..	‡
Teaching A190A.....	3	Military Science 2B (men).....	1‡
Physical Education (required course)	‡		
Physical Education 11c (women).....	2		17-15‡
Military Science 2A (men).....	1‡		
	17-17‡		

## JUNIOR YEAR

<i>First Semester</i>		<i>Second Semester</i>	
Art 158A.....	1	Art 137B.....	2
Art 162.....	1	Art 152B.....	2
Art 168.....	1	Art 161B.....	1
Art 175A.....	2	Art (elective).....	1
Art 161A.....	1	Art 154.....	2
Art (elective).....	2	Teaching A191A.....	4
Art 183A.....	2	Education 140.....	3
Art 152A.....	2	Education 114.....	2
English 152.....	2		
	14		17

**ELEMENTARY INDUSTRIAL ARTS TRAINING CURRICULUM****THE SHORT CURRICULUM LEADING TO RECOMMENDATION FOR THE  
ELEMENTARY SPECIAL CREDENTIALS IN INDUSTRIAL ARTS**

The curriculum for this course is the same as for the Elementary Fine Arts Training Curriculum, with the following additions and omissions.

**OMIT**

Art 4B (1), 16B (1), 103B (1), 134A-134B (3), 135 (2), 137A-137B (3), 154 (2), 161A-161B (2), 162 (2), 168 (1), 175A (2), 183A (2) 156A (2).

**ADD**

Art 9 (2), 29A-29B (4), 119A-119B (4), 139A-139B (4), 149 (2), 159 (2), 189 (2), Art electives (4).



## SECONDARY SPECIAL COMMERCE TRAINING CURRICULUM

SUGGESTED FOUR-YEAR CURRICULUM LEADING TO THE DEGREE OF BACHELOR OF  
EDUCATION AND TO RECOMMENDATION FOR THE SECONDARY  
SPECIAL TEACHING CREDENTIAL IN COMMERCE

## FRESHMAN YEAR

<i>First Semester</i>		Units	<i>Second Semester</i>		Units
Subject A .....			Commerce 1B.....		3
Psychology 2.....		1	Psychology 2.....		3
English 1A.....		3	Biology (elective, credit A).....		3
Commerce 1A.....		3	Commerce 18A.....		2
Biology (elective, Credit A).....		3	Geography 3A.....		3
Geography 1A.....		3	Military Science 1B (men).....		1½
Military Science (men).....		1½	Physical Education 10 (women).....		2
Physical Education 1 (men).....		1	Physical Education (required course).....		½
Physical Education 2 (women).....		2			16-16½
Physical Education (required course).....		½			
		16-15½			

## SOPHOMORE YEAR

<i>First Semester</i>			<i>Second Semester</i>		
English 1C.....		3	Commerce 14B.....		3
Psychology 30.....		3	Commerce 17B.....		2
Commerce 14A.....		3	Commerce 18B.....		2
Political Science 1A.....		3	Mathematics 18.....		2
Commerce 16B.....		2	Political Science 1B.....		3
Military Science 2A (men).....		1½	Departmental Sequences.....		1-4
Physical Education 11 (women).....		2	Military Science 2B (men).....		1½
Physical Education (required course).....		½	Physical Education (required course).....		½
		16-16½			16½

## JUNIOR YEAR

<i>First Semester</i>			<i>Second Semester</i>		
Jurisprudence 10A.....		3	Jurisprudence 10B.....		3
Psychology 107.....		3	Education 165.....		3
Education 114.....		2	History 176.....		2
Departmental Sequences.....		7-8	Teaching C192A.....		5
		15-16	Departmental Sequences.....		3
					16

## SENIOR YEAR

<i>First Semester</i>			<i>Second Semester</i>		
Education 178.....		3	Education 140.....		3
Commerce 198.....		3	Commerce (elective).....		6-8
Commerce (elective).....		4-6	Departmental Sequences.....		6-8
Teaching C192B.....		5			16
		16			

## SECONDARY SPECIAL HOME ECONOMICS TRAINING CURRICULUM\*

SUGGESTED FOUR-YEAR CURRICULUM LEADING TO THE DEGREE OF BACHELOR OF  
EDUCATION AND TO RECOMMENDATION FOR THE SECONDARY SPECIAL  
TEACHING CREDENTIAL IN HOME ECONOMICS

### FRESHMAN YEAR

<i>First Semester</i>	Units	<i>Second Semester</i>	Units
Subject A .....		Art 6A.....	2
Psychology x.....	1	Chemistry 2B.....	4
Chemistry 2A.....	4	Zoology 10.....	3
Commerce 1A.....	3	Home Economics 11A.....	3
English 1A.....	3	Psychology 2.....	3
Home Economics 22.....	2	Physical Education 10.....	2
Physical Education 2.....	2	Physical Education (required course) ..	1
Physical Education (required course) ..	1		17½
	15½		

### SOPHOMORE YEAR

<i>First Semester</i>	Units	<i>Second Semester</i>	Units
Art 13A.....	2	Psychology 30.....	3
Chemistry 10.....	4	Home Economics 1B.....	3
Home Economics 11B.....	3	Home Economics 33.....	3
Home Economics 1A.....	3	Home Economics 47A.....	3
Physiology 1.....	3	History 7B.....	3
Physical Education 11.....	2	Physical Education (required course) ..	1
Physical Education (required course) ..	1		17½
	17½		

### JUNIOR YEAR

<i>First Semester</i>	Units	<i>Second Semester</i>	Units
Home Economics 47B.....	2	Art 26.....	2
Home Economics 169.....	3	Bacteriology 1.....	3
Home Economics 175.....	3	Education 140.....	3
Physics 11.....	3	Political Science 50.....	3
Home Economics 166.....	2	Teaching H191A .....	4
Teaching H190A .....	2		15
	15		

### SENIOR YEAR

<i>First Semester</i>	Units	<i>Second Semester</i>	Units
Chemistry 107.....	4	Departmental Sequences.....	3
Education 114.....	2	Philosophy 136.....	3
Departmental Sequences.....	3	Home Economics 159 (or H. E. 185 or H. E. 183 or H. E. 179).....	6
Home Economics 170.....	3	Teaching H192A-H192B.....	4
Home Economics 171.....	1		16
Education 178.....	3		
	16		

\* Students may ordinarily qualify for the Elementary Special Teaching Credential upon the completion of the third year of this course.

**VOCATIONAL SPECIAL HOME ECONOMICS TRAINING  
CURRICULUM \***

THE SHORT CURRICULUM LEADING TO RECOMMENDATION FOR THE  
SECONDARY SPECIAL TEACHING CREDENTIAL IN  
VOCATIONAL HOME ECONOMICS

**FRESHMAN YEAR**

<i>First Semester</i>	Units	<i>Second Semester</i>	Units
Art 6A.....	2	Art 26.....	2
Chemistry 2A.....	4	Chemistry 2B.....	4
Commerce 1A.....	3	Education 11.....	3
English 1A.....	3	Home Economics 1A.....	3
Physiology 10.....	3	Home Economics 11A.....	3
Psychology 2.....	3	Political Science 50.....	3
	<hr style="width: 50%; margin: 0 auto;"/> 18		<hr style="width: 50%; margin: 0 auto;"/> 18

**SOPHOMORE YEAR**

<i>First Semester</i>	Units	<i>Second Semester</i>	Units
Chemistry 10.....	4	Bacteriology 1.....	3
Home Economics 166.....	2	Education 140.....	3
Home Economics 147A.....	3	Home Economics 2.....	3
Physical Education 2.....	3	Home Economics 33.....	3
Teaching H190A.....	2	Home Economics 43.....	2
Physics 11.....	3	Teaching H192A-H192B.....	4
	<hr style="width: 50%; margin: 0 auto;"/> 17		<hr style="width: 50%; margin: 0 auto;"/> 18
		Total.....	71 units

\* This course, maintained under the provisions of the Smith-Hughes Act, 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.

## SECONDARY SPECIAL MECHANIC ARTS TRAINING CURRICULUM

SUGGESTED FOUR-YEAR CURRICULUM LEADING TO THE DEGREE OF BACHELOR OF  
EDUCATION AND TO RECOMMENDATION FOR THE SECONDARY SPECIAL  
TEACHING CREDENTIAL IN MECHANIC ARTS

### FRESHMAN YEAR

<i>First Semester</i>	Units	<i>Second Semester</i>	Units
Subject A .....		English 1A.....	3
Psychology 1.....	1	Mathematics C.....	3
Engineering Drawing D.....	2	Mechanic Arts 10A.....	3
Mathematics 1.....	3	Physics 1B.....	3
Mechanical Engineering 8A.....	2	Psychology 30.....	3
Physics 1A.....	3	Physical Education (required course)..	1
Psychology 2.....	3	Military Science 1B.....	1½
Physical Education (required course)	1		<hr style="width: 100%;"/>
Physical Education 1.....	1		17
Military Science 1A.....	1½		
	<hr style="width: 100%;"/>		
	17		

### SOPHOMORE YEAR

<i>First Semester</i>		<i>Second Semester</i>	
Public Speaking 1A.....	3	Political Science 50.....	3
Commerce 1A.....	3	Commerce 1B.....	3
Mechanical Engineering 2.....	3	Mechanic Arts 54 or 53.....	3
Mechanical Engineering 9A.....	2	Mechanical Engineering 7.....	2
Zoology 10.....	3	Botany 1.....	3
Physical Education (required course)..	3½	Physical Education (required course)..	1
Military Science 2A.....	1½	Military Science 2B.....	1½
	<hr style="width: 100%;"/>		<hr style="width: 100%;"/>
	16		16

### JUNIOR YEAR

<i>First Semester</i>		<i>Second Semester</i>	
Mechanic Arts 162A.....	3	Education 140.....	3
Psychology 107.....	3	Mechanic Arts 150B.....	3
Mechanic Arts 150A.....	3	Mechanic Arts 165B.....	3
Mechanic Arts 152A.....	2	Teaching MA192A.....	5
Mechanic Arts 165A.....	3	Industrial History 176.....	2
Education 114.....	2		<hr style="width: 100%;"/>
	<hr style="width: 100%;"/>		16
	16		

## SENIOR YEAR

<i>First Semester</i>		<i>Second Semester</i>	
Commerce 154.....	3	Commerce 199B.....	3
Commerce 199A.....	3	Education 178.....	3
Education 165.....	3	Education 166.....	3
Teaching MA192A.....	5	Mechanic Arts 190.....	2
Elective (Shop Work).....	2	Electric Shop.....	3
	16		14

## SECONDARY SPECIAL MUSIC TRAINING CURRICULUM\*

SUGGESTED FOUR-YEAR CURRICULUM LEADING TO THE DEGREE OF BACHELOR OF EDUCATION AND TO RECOMMENDATION FOR THE SECONDARY SPECIAL TEACHING CREDENTIAL IN MUSIC

## FRESHMAN YEAR

<i>First Semester</i>	Units	<i>Second Semester</i>	Units
Subject A.....		English 1A.....	3
Psychology X.....	1	Philosophy 1B.....	3
Zoology 10.....	3	Political Science 50.....	3
Philosophy 1A.....	3	Psychology 2.....	3
Commerce 1A.....	3	Music 5B.....	1
Music 5A.....	1	Music 9B.....	2
Music 9A.....	2	Physical Education (required course) †	
Physical Education 2 (women).....	2	Military Science 1B.....	1½
Physical Education 1 (men).....	1		17-15½
Physical Education (required course) †			
	16-16½		

## SOPHOMORE YEAR

<i>First Semester</i>		<i>Second Semester</i>	
History 4A.....	3	History 4B.....	3
Zoology 12.....	3	Physics 12.....	2
Psychology 30.....	3	Music 3B.....	2
Music 3A.....	2	Music 4B.....	2
Music 4A.....	2	Music 6B.....	1
Music 6A.....	1	Music 35.....	3
Physical Education 10 (women).....	2	Physical Education 11 (women).....	2
Physical Education (required course) †		Physical Education (required course) †	
Military Science 2A.....	1½	Military Science 2B (men).....	1½
	16-16½		15-15½

\* Students completing the third year of this course will ordinarily qualify for the elementary special teaching credential.

## JUNIOR YEAR

<i>First Semester</i>		<i>Second Semester</i>	
Philosophy 136.....	3	Departmental Sequences.....	3
Music 102A.....	1	Music 102B.....	1
Music 112A.....	3	Music 112B.....	3
Music 133A.....	2	Music 133B.....	2
Music 155A.....	2	Music 155B.....	2
Music 114.....	1	Music 109.....	1
Music (elective).....	2	Music (elective).....	2
Teaching M190A.....	3	Teaching M190B.....	2
	17	Teaching M191.....	1
			17

## SENIOR YEAR

<i>First Semester</i>		<i>Second Semester</i>	
Education 178.....	3	Departmental Sequences.....	3
Departmental Sequences.....	2	Education 140.....	3
Music 105A.....	2	Education 114.....	2
Music 184.....	2	Public Speaking 1A.....	3
Music 185A.....	2	Music 105B.....	2
Teaching M192.....	4	Music 185B.....	2
	15		15

**SECONDARY SPECIAL PHYSICAL EDUCATION TRAINING  
CURRICULUM—(MEN)**

SUGGESTED FOUR-YEAR CURRICULUM LEADING TO THE DEGREE OF BACHELOR OF  
EDUCATION AND TO RECOMMENDATION FOR THE SECONDARY SPECIAL  
TEACHING CREDENTIAL IN PHYSICAL EDUCATION

## FRESHMAN YEAR

<i>First Semester</i>	Units	<i>Second Semester</i>	Units
Subject A.....		Psychology 2.....	
Psychology x.....	1	Chemistry 2B.....	
Chemistry 2A.....	4	English 1A.....	
Hygiene 1.....	1	History (elective).....	3
Commerce 1A.....	3	Military Science.....	1½
Military Science.....	1½	Physical Education 1B.....	½
History (elective).....	3	Physical Education 29B.....	1
Physical Education 1A.....	½		16
Physical Education 29A.....	1		
	15		

## SOPHOMORE YEAR

<i>First Semester</i>		<i>Second Semester</i>	
Zoology 1A.....	5	Philosophy 136.....	3
Psychology 30.....	3	Zoology 35.....	5
Public Speaking 1A.....	3	Physical Education 158.....	2
Political Science 50.....	3	Physical Education 170.....	2
Military Science.....	1½	Military Science.....	1½
Physical Education 7A.....	½	Physical Education 8A.....	½
Physical Education 29C.....	1	Physical Education 29D.....	1
	17		15

## JUNIOR YEAR

<i>First Semester</i>		<i>Second Semester</i>	
Physical Education 49.....	2	Physical Education 5.....	1
Physical Education 190A.....	3	Physical Education 190B.....	3
Teaching P190A.....	2	Teaching P192A.....	3
Physical Education 155A.....	2	Physical Education 182A.....	3
Elective .....	3	Physical Education 30B.....	1
Physical Education 30A.....	1	Physical Education 155B.....	2
Education 114.....	2	Education 178.....	3
	15		16

## SENIOR YEAR

<i>First Semester</i>		<i>Second Semester</i>	
Physical Education 182B.....	3	Physical Education 180B.....	3
Physical Education 180A.....	3	Physical Education 192B.....	3
Physical Education 192A.....	3	Teaching P192C.....	3
Teaching P192B .....	2	Education 140.....	3
Elective .....	3	Physical Education 156B.....	2
Physical Education 30C.....	1	Physical Education 30D.....	1
Physical Education 156A.....	2	Departmental Sequences.....	2
	17		17

**SECONDARY SPECIAL PHYSICAL TRAINING CURRICULUM—  
(WOMEN)**

SUGGESTED FOUR-YEAR CURRICULUM LEADING TO THE DEGREE OF BACHELOR OF  
EDUCATION AND TO RECOMMENDATION FOR THE SECONDARY SPECIAL  
CREDENTIAL IN PHYSICAL EDUCATION

**FRESHMAN YEAR**

<i>First Semester</i>	Units	<i>Second Semester</i>	Units
Subject A .....		Psychology 2.....	3
Psychology X.....	1	English 1A.....	3
Chemistry 2A.....	4	Chemistry 2B.....	4
Physical Education 2.....	2	History (elective).....	3
Commeroe 1A.....	3	Physical Education Practice.....	2½
Physical Education Practice.....	2½		
	<hr/>		<hr/>
	15½		15½

**SOPHOMORE YEAR**

<i>First Semester</i>		<i>Second Semester</i>	
Zoology 1.....	5	Zoology 35.....	5
Psychology 30.....	3	Philosophy 136.....	3
English 1B.....	3	Physical Education 58.....	2
Political Science 50.....	3	Physical Education 70.....	2
Physical Education Practice.....	2½	Physical Education 21.....	2
	<hr/>	Physical Education Practice.....	2½
	16½		<hr/>
			16½

**JUNIOR YEAR**

<i>First Semester</i>		<i>Second Semester</i>	
Education 178.....	3	Physical Education 105.....	1
Physical Education 149.....	2	Physical Education 190B.....	3
Physical Education 190A.....	3	Teaching P190B.....	3
Teaching P190A.....	2	Physical Education 182A.....	3
Physical Education 121.....	2	Departmental Sequences.....	3
Departmental Sequences.....	2	Physical Education Practice.....	2½
Physical Education Practice.....	2½		
	<hr/>		<hr/>
	16½		15½

**SENIOR YEAR**

<i>First Semester</i>		<i>Second Semester</i>	
Physical Education 182B.....	3	Physical Education 180B.....	3
Physical Education 180A.....	3	Physical Education 192B.....	3
Physical Education 192A.....	3	Teaching P192c.....	2
Teaching P192B.....	3	Education 140.....	3
Education 114.....	2	Departmental Sequences.....	3
Physical Education Practice.....	2	Physical Education Practice.....	2
	<hr/>		<hr/>
	16		16



## VIII. ANNOUNCEMENT OF COURSES

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

1. Courses designated by a double number (i.e., Commerce 1A-1B) are continued through two successive semesters. In registering for the course the student will use the first number for the first semester, and the other number for the second semester. At the end of each semester a final report will be made by the instructor. The student may discontinue the course at the end of the first semester with final credit for the work completed.<sup>a</sup>

2. The credit value of each course in semester units is indicated by a numeral in parentheses following the title.

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

4. The numbering system in this Announcement is the same as that used in the announcement of the schools and colleges of the University at Berkeley. Ordinarily, courses numbered from 1 to 99 will be taken in the freshman and sophomore years, and courses numbered from 100 to 199 in the junior and senior years.

5. Whenever Southern Branch courses equivalent to courses given at Berkeley are offered by a department other than the department by which they are offered there (or under another number in the same department) two means of designation are employed:

(a) A sub-caption under the department heading; thus—Paleontology 1 will be found in the Department of Biology.

(b) An italicized title enclosed in parentheses immediately following the course description; thus—Elementary Food (*Household Science 1B*).

6. Only courses marked "Credit" followed by the capital letter A or B may be counted toward certification recommendations or degree requirements, as follows:

(A) Courses which have been approved as the equivalent of courses in the departments at Berkeley. 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's degree in the Teachers College and toward appropriate recommendations for teaching.

\* The Southern Branch reserves the right to withdraw or modify these courses, or to change the instructors.

## 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 in Fine Arts.
- BESSIE E. HAZEN, Ed.B., Instructor in Fine Arts.
- ANNITA DELANO, Associate in Fine Arts.
- HELEN HOWELL, Associate in Fine Arts.
- OLIVE NEWCOMB, Associate in Industrial Arts.
- BIRDIE KIRK SMITH, Associate in Fine Arts.
- NATALIE WHITE, B.S., Associate in Industrial Arts.
- BELLE H. WHITICE, Associate in Industrial Arts.

*Doris Smith*

*Laboratory Fees.*—The fee required for courses 4B, 29A, 29B, 134A, 20B, 10B, 158A, 158B, 169A, 169B is 50 cents; for courses 8A, 8B, 168, 198A, 198B, it is \$1; for courses 119A, 119B, 139A, 139B, it is \$2; for course 134B it is \$4.50; for course 154 it is \$6.

## PREPARATION FOR THE MAJOR

Required: 1A-1B, 4A-4B, 2A-2B, 12A, 31A-31B, 32A-32B. (16 units.)

- ✓ 1A-1B. Appreciation and History of Art. (1-1) Yr. (Credit A, B)  
Tu Th, 1. GERE
- ✓ 2A-2B. Design. (2-2) <sup>(I-II) II</sup> (Credit A, B) *Howell* BROOKS, HAZEN *white*  
M W F, 8, 9; M W F, 2, 3.  
Study of the foundation of all composition, spacing, massing and color harmony.
- ✓ 3. Costume Appreciation. (1) II. (Credit B) SOOY  
Tu, 10, 11.  
Discussion and demonstration of costume and its relation to the individual.
- ✓ 4A. Freehand Drawing. (2) I. (Credit A, B) SMITH, HAZEN  
M W F, 8, 9; M W F, 2, 3.
- 4B. Freehand Drawing. <sup>(I)</sup> II. (Credit A, B) *Chandler*  
BROOKS
- 5A-5B. Stage Craft. (1-1) <sup>I-I</sup> (Credit B) DELANO, HAZEN, SMITH  
Making of working drawings and miniature sets. Construction and painting of stage setting. Study of processes used in decorating and making costumes.

## Announcement of Courses

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- ✓ 9. Elementary Construction. (2) II. (Credit B) WHITE
- 10A. Fine Arts Education. (2) <sup>II</sup> Either semester. (Credit B)  
 Tu Th, 1, 2. ~~THE STAFF~~  
Hazen, Whitice, Smith
- ~~10B. Industrial Arts Education. (2) II. (Credit B) THE STAFF~~  
~~Tu Th, 1, 2.~~
- ✓ 12A. Lettering. (1) I. (Credit A, B) ~~SMITH~~  
Whitice SMITH  
 Study and appreciation of lettering as a part of the subject of design.
- ✓ 12B. Lettering. (2) II. (Credit A, B) SMITH  
 Prerequisite: Art 12A. Study of alphabets and quick writing for commercial uses.
- ✓ 13A-13B. ~~Costume~~ Appreciation and Design. (2-2) ~~Yr. I II~~ HAZEN  
 (Credit B)  
 For home economics students. Appreciation and study of costume and original designing.
- ✓ 16. House Furnishing. (1) II. (Credit B) HAZEN, GERE  
 Including history of furniture.
- ✓ 20A-20B. Fine and Industrial Arts Education for Kindergarten-Primary Teachers. (2-2) ~~(Credit B)~~ ~~BARHAM, WHITICE, NEWCOMB~~ *Demitt Howell*
- ✓ 26. House Design and Furnishing. (2) I, II (Credit B) HAZEN, Howell  
 M W F, 10; M, 12; M W F, 2; F, 12; M W F, 3; W, 12.  
 For home economics students.
- ✓ 29A-29B. Bookbinding. (2-2) Yr. (Credit B) WHITICE
- ✓ 31A-31B. Appreciation and History of Art. (1) Yr. (Credit A, B) GERE
- ✓ 32A-32B. Design. (2-2) Yr. (Credit A, B) DELANO *white*  
 Imaginative and industrial design.
- ✓ 103. History of Costume. (1) II. (Credit B) SOOY  
 Lectures on historical costume.
- ✓ 119A-119B. Pottery. (2-2) ~~Yr. I II~~ (Credit B). NEWCOMB  
 Hand building and glazing. Use of potter's wheel, making of molds and casting.
- ✓ 134A. Drawing from Figure. (1) I. (Credit A, B) CHANDLER  
 Imaginative figure drawing.
- ✓ 134B. Drawing from Costumed Model. (2) II. (Credit A, B) SMITH

## Announcement of the Southern Branch

- ✓ 135. Illustration. (2) II. (Credit B) CHANDLER
- ✓ 137A. Sketching. (1) I. (Credit B).  
Landscape. BROOKS, ~~WILSON~~
- ✓ 137B. Sketching. (2) II. (Credit B)  
Landscape. CHANDLER
- ✓ 139A-139B. Weaving. (2-2) Yr. (Credit B) WHITE  
History of weaving and study of materials used. Tapestry and  
pattern weaving.
- ✓ 149. Basketry. (2) I. (Credit B) WHITICE
- ✓ 152A-152B. Design. (2-2) Yr. (Credit A, B) DELANO  
Advanced imaginative and industrial design.
- ✓ 154. Life Class. (2) II. (Credit B) SMITH
- ✓ 156A-156B. Interior Decoration. (2-2) Yr. (Credit B) ~~THE STAFF~~  
Practical designing of articles used in the home. *sooy, Delano*
- ✓ 158A. Textile Decoration. (1) I. (Credit B) DELANO *white*  
Block printing, batik and tied dyeing.
- ✓ 158B. Textile Decoration. (2) II. (Credit B) DELANO  
Block printing, batik and tied dyeing.
- ✓ 159. Advanced Pottery. (2) I. ~~II~~ (Credit B) NEWCOMB  
Study of glazes. Stacking kiln and firing.
- ✓ 160A-160B. Principles of Art Education. (2-2) Yr. (Credit B) BROOKS
- ✓ 161A-161B. Appreciation and History of Art. (1-1) ~~Yr.~~ GERE  
(Credit A, B)
- ✓ 162. Poster Design. (1) I. (Credit A, B) SMITH
- ✓ 168. Stage Craft. (1) I. (Credit B) SOOY  
Principles of art studied through the medium of the stage, plus  
the technical knowledge necessary to produce pantomimes, pageants,  
etc.
- ~~169A-169B. Leather. (2-2) Yr. (Credit B) WHITICE~~
- ✓ 175A-~~175B~~ Advanced Illustration. (2-~~2~~) Yr. ~~(Credit B)~~ CHANDLER *(F-T)*
- ✓ 177A-177B. Advanced Landscape Painting. (2-2) ~~Yr.~~ ~~(Credit B)~~ CHANDLER *(F-T)*

*Announcement of Courses*

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- ✓ 180. The Organization and Administration of Art Education. (2) II. (Credit B) SOOY
- ✓ 183A-183B. Costume Design. (2-2) Yr. (Credit B) SOOY  
Designing of costumes for modern use, also for pageants, pantomimes and plays.
- ✓ 184A-~~184B~~ Drawing and Painting. (2-2) ~~Yr~~<sup>I</sup> (Credit B) CHANDLER  
Study of the mediums of pen and ink, pencil and water-color.
- ✓ 186A-~~186B~~ Interior Decoration. (2-2) ~~Yr~~<sup>I</sup> (Credit B) SOOY  
Composition and color harmony. Perspectives of interiors in various mediums.
- ✓ 189. Bookbinding. (2-~~2~~) II. (Credit B). WHITICE
- ✓ 193A-193B. Commercial Design. (2-2) Yr. (Credit B). SOOY  
Composition plus technical requirements in advertising.
- ✓ 198A-198B. Clay Modeling. (1-1) Yr. (Credit B) NEWCOMB

**BIOLOGY**

- LOYE HOLMES MILLER, Ph.D., Professor of Biology.
- BENNET MILLS ALLEN, Ph.D., Associate Professor of Zoology.
- FRANK E. OLDER, B.S., Assistant Professor of the Teaching of Agriculture.
- SARAH ROGERS ATSAIT, M.S., Instructor in Biology.
- PIRIE DAVIDSON, M.A., Instructor in Zoology.
- FREDERICK M. ESSIG, Ph.D., Instructor in Botany.
- O. L. SPONSLEE, Ph.D., Instructor in Botany.
- RUTH G. PERSONS, B.S., Assistant in Zoology.

*Laboratory Fees.*—The fee for Bacteriology 10, Botany 2A, 2B, Physiology I, is \$2.50; for Zoology 1A, 1B, 4, 105, 106, a deposit of \$5.00 is required, of which a maximum of \$2.00 is returnable.

**AGRICULTURE**

- ✓ 1. General Horticulture. (3) II. (Credit A, B) OLDER, —  
Lectures, three hours; laboratory, two hours.

**AGRICULTURAL EDUCATION**

- ✓ 10. Elements of Agriculture. (3) Either semester. (Credit B) OLDER  
Lectures, three hours; laboratory, two hours.  
Lectures, W, 3; laboratory, M F, 3, 4.
- ~~15. Advanced Agriculture and School Gardening. (3) I. (Credit B)  
Prerequisite: Agriculture 10. OLDER~~

**BACTERIOLOGY**

- ✓ 10. General Bacteriology. (3) II. (Credit B) ESSIG  
Lectures and demonstrations. For home economics students only.

**BOTANY**

- ✓ 1. Fundamentals of Botany. (3) Either semester. (Credit A, B) ESSIG  
Elements of physiology, morphology, and taxonomy. Lectures and quizzes.  
M W F, 8.

- ✓ 2A-2B. General Botany. (4-4) Yr. (Credit A, B) SPONSLER  
 Tu Th, 1.

Lectures, two hours; laboratory, six hours. Structure, relationships, origin, and activities of plants.

- ✓ 104A-104B. Systematic Botany. (3-3) Yr. (Credit A, B) ESSIG, SPONSLER

Six hours laboratory with informal lectures and field trips to be arranged. Prerequisite: Botany 2A-2B. Limited to twenty students. Designed for botany majors, teachers of nature study, and students of the College of Agriculture.

PALEONTOLOGY

- ✓ 1. General Paleontology. (2) I. (Credit A, B) 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 responded to such influences.

PHYSIOLOGY

- ✓ 1. General Human Physiology. (3) I. (Credit A, B) ATSATT

Lectures, two hours; laboratory, three hours.  
 Lectures, W F, 2; laboratory, M, 1, 2, 3.  
 Prerequisite: Zoology 1A, Chemistry 2A-2B.

- ✓ 10. Physiology and Personal Hygiene. (3) ~~Either semester.~~ (Credit B) ATSATT

Lectures, two hours; laboratory, three hours.  
 Designed for those who plan to teach in the graded schools.

ZOOLOGY

- ✓ 1A-1B. General Zoology. (5-5) Yr. (Credit A, B) ALLEN, DAVIDSON and Assistants  
 Lectures, Tu Th S, 11.  
 Lectures, three hours; laboratory, six hours; one required field trip.

- ✓ 4. Microscopical Technique. (2) ~~Either semester.~~ (Credit A) PERSONS  
 Laboratory, six hours; assigned readings.  
 The preparation of animal tissues for microscopical examination.

- ✓ 35 General Human Anatomy (5) (Credit A, B) II Atsatt

- ✓ 10. **General Biology.** (3) Either semester. (Credit A, B) DAVIDSON  
Lectures, M W, 8, and 1 hour quiz.  
An outline of the main facts and principles of animal biology with special reference to heredity and evolution. Lectures, sections, assigned readings, and reports.
- ✓ 12. **Nature Study.** (3) Either semester. (Credit B) MILLER  
M W F, 9; M W F, 11.  
Lectures, readings, reports on materials and methods.
- ✓ 103. **Experimental Zoology.** (2) II. (Credit A, B) ALLEN
- ✓ 105. **Advanced Vertebrate Embryology.** (3) I. (Credit A, B) ALLEN  
Lectures, one hour; laboratory, six hours.  
Prerequisite: Zoology 1A and either 1B or 35, and junior standing.
- ✓ 106. **Comparative Anatomy of the Higher Vertebrates.** (4) II.  
(Credit A, B) DAVIDSON  
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.
- ✓ 113. **Zoology of the Higher Vertebrates.** (3) II. (Credit A, B) MILLER  
Lectures, two hours; laboratory, three hours with field trips to be arranged.  
Prerequisite: junior standing and Zoology 1A.  
Emphasis will be placed on the habits, distribution, and ecology of reptile, bird, and mammal.



**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., Instructor in Chemistry.
- RUSSELL W. MILLAR, Ph.D., Instructor in Chemistry.
- JAMES B. RAMSEY, A.B., Instructor in Chemistry.

*Laboratory Fees—*

<i>Courses</i>	<i>Deposit</i>	<i>Maximum Returnable</i>
2A, 2B .....	\$12.00	\$5.00
10, 107 .....	13.00	6.00
5, 6A, 6B, 120 .....	17.00	5.00
1A, 1B .....	17.50	5.00
111 .....	23.00	5.00
9 .....	28.00	10.00

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 at Berkeley is: quantitative analysis 6A-6B (6) or 5 (3); organic chemistry 8 and 9 (6); physical chemistry 110 (3), 111 (4), advanced inorganic chemistry 120 (3). 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.

## Announcement of the Southern Branch

- ✓ 1A-1B. General Chemistry. (5-5) <sup>either semester</sup> Yr. (Credit A, B) MORGAN, MILLAR and STAFF *Rumsey*  
 Lectures: M W F, 10 (for those beginning in September; Tu Th S, 10 (for those beginning in January).  
 Both halves given each semester.  
 Lectures or recitations, three hours; laboratory, six hours.  
 Required for Colleges of Engineering, Chemistry, Agriculture, and of premedical students and chemistry majors.  
 Prerequisite: high school chemistry, or physics and trigonometry.
- ✓ 2A-2B. General Chemistry. (4-4) <sup>either semester</sup> Yr. (Credit A, B) STONE, DUNN and STAFF.  
 Lectures: M W F, 11 (for those beginning in September); Tu Th S, 11 (for those beginning in January).  
 Both halves given each semester.  
 Lectures or recitations, three hours; laboratory, three hours.  
 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.  
 No prerequisite; high school chemistry recommended.
- ✓ 5. Quantitative Analysis. (3) Either semester. (Credit A, B) CROWELL  
 A course in gravimetric and volumetric analysis, shorter than 6A-6B. Required of petroleum engineers and of sanitary and municipal engineers.  
 Prerequisite: Chemistry 1A-1B.
- ✓ 6A-6B. Quantitative Analysis. (3-3) Yr. (Credit A, B) CROWELL  
 Required of economic geologists and College of Chemistry students.  
 Prerequisite: Chemistry 1A-1B.
- ✓ 8A-8B. Elementary Organic Lectures. (3-3) <sup>(I-II) II</sup> Yr. (Credit A, B) MORGAN *Robertson*  
 M W F, 9.  
 The first half of this course is required of premedical students, sanitary and municipal engineers, petroleum engineers, and College of Chemistry students.  
 Prerequisite: Chemistry 1A-1B, or 2A-2B.
- ✓ 9. Elementary Organic Laboratory. (3) II. (Credit A, B) ROBERTSON  
 Required of petroleum engineers, premedicals, and College of Chemistry students.  
 Prerequisite: Chemistry 8A.

- ✓ 10. Organic and Food Chemistry. (4) I. (Credit B) ROBERTSON  
Lectures or recitations, three hours; laboratory, three hours.  
Required of home economics majors.  
Prerequisite: Chemistry 1A-1B, or 2A-2B.
- ✓ 107. Biological Chemistry. (4) I. (Credit B) DUNN  
Lectures or recitations, three hours; laboratory, three hours.  
Required of fourth-year home economics students.  
Prerequisite: Chemistry 8A and 9, or 10.
- ✓ 110. Physical Chemistry. (3). ~~I~~ (Credit A, B) *Miller*  
Prerequisite: Course 5 or 6A; Physics 1A-1B or 2A-2B.  
Lectures and problems. Required for all later work in physical chemistry.
- ~~110B. Advanced Physical Chemistry. (3). (Credit A, B) —  
Prerequisite: Course 110.  
Lectures and problems. A continuation of course 110.~~
- ~~111. Physical Chemistry—Laboratory. (4). (Credit A, B) —  
Prerequisite: Course 110 and calculus.  
Physico-chemical problems and measurements.~~
- ~~120. Advanced Inorganic Chemistry. (3). (Credit A, B) —  
Prerequisite: Course 6A-6B and 110.  
Preparation and experimental study of substances, designed primarily to illustrate the factors which influence equilibrium and the speed of chemical reactions. Correlation of material by means of the periodic system.~~

**CLASSICAL LANGUAGES**

- ARTHUR PATCH MCKINLAY, Ph.D., Assistant Professor of Latin.  
 -EDWIN MOORE BANKIN, Ph.D., Lecturer in Greek.

**PREPARATION FOR THE MAJOR**

Required: (Latin course) 18 units of Latin, which may be distributed as either 6, 9, or 12 units in high school, or 12, 9, or 6 in college.

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

**THE MAJOR**

The requirements for the major at Berkeley are Latin 102, 106, and 12 units selected from upper division courses in Latin. The remaining 6 units may be chosen from upper division courses in Latin, Greek, English, French, German, Italian, Spanish or other languages, Linguistics, Roman Law, Jurisprudence, Philosophy, Ancient or Medieval History with the approval of the Latin Department.

**GREEK**

- ✓ 1AB-2AB. Beginning Greek, Attic Prose, and Homer. (5-5) Yr.  
 (Credit A, B) BANKIN  
 M Tu W Th F, 12.
- ~~3A-3B. Prose Composition. (1-1) Yr. (Credit A, B) BANKIN~~
- ✓ 101. Introduction to Plato: Apology and Crito. (3) II. Credit A, B  
 BANKIN
- ✓ 103. Historical Prose: Herodotus. (3) I. (Credit A, B) BANKIN
- ✓ 104. Greek Drama: Euripides and Aristophanes. (3) I. (Credit A, B)  
 Prerequisite: Greek 101. BANKIN
- ✓ 105. Greek Drama: Sophocles and Aeschylus. (3) II. (Credit A, B)  
 Prerequisite: Greek 104. BANKIN

## LATIN

- ✓ C. Third Year Latin: Ciceronian Prose. (3) II. (Credit A, B)  
M W F, 9. McKINLAY  
Open to those who have had two years of high school Latin.
- ✓ D. Fourth Year Latin: Augustan Poetry. (3) I. (Credit A, B)  
M W F, 9. McKINLAY
- ✓ 1. Cicero: De Senectute and Pliny's Letters. (3) I. (Credit A, B)  
M W F, 2. McKINLAY  
Open to those who have had four years of high school Latin.
- ✓ 3A-3B. Latin Prose Composition. (1-1) Yr. (Credit A, B) McKINLAY  
This course may be taken in successive years for credit.
- ✓ 5. Horace: Odes and Epodes. (3) II. (Credit A, B) McKINLAY  
M W F, 2.  
This course follows Latin 1.
- ✓ 102. Catullus and Livy. (3) I. (Credit A, B) McKINLAY  
Prerequisite: Latin 5.
- ✓ 106. Tacitus and Plautus. (3) II. (Credit A, B) McKINLAY  
Prerequisite: Latin 102.
- ✓ 110. Horace: Satires and Epistles. (2) I. (Credit A, B) McKINLAY  
Prerequisite: Latin 102-106.
- ✓ 118A. Tacitus: Histories. (2) II. (Credit A, B) McKINLAY  
Prerequisite: Latin 106.

## COMMERCE

- HOWARD S. NOBLE, A.B., M.B.A., Assistant Professor of Accounting.
- C. A. LE DEUC, M.B.A., Ph.D., Assistant Professor of Accounting.
- EARL J. MILLER, Ph.D., Assistant Professor in Economics.
- ELMER S. NELSON, M.A., Associate in Commerce.
- EVA M. ALLEN, Associate in Commercial Practice.
- ESTELLA B. PLOUGH, Associate in Commercial Practice.
- W. T. MCGRATH, A.B., Associate in Economics.
- HERMAN HILMER, Ph.D., Lecturer in Economics.

*Fees.*—A fee of \$2.50 will be charged for Commerce 16-B.

## PREPARATION FOR THE MAJOR

Required: (Economics course) Commerce 1A-1B, at least one of the following: Political Science 1A-1B, History 4A-4B, or History 8A-8B or Philosophy 3A-3B.

Required: (Secondary Teachers' course) Commerce 1A-1B, 14A-14B, Commerce 18A.

- ✓ A. Typing. (No credit.) ALLEN
- B. Shorthand. (No credit.) ALLEN
- ✓ 1A-1B. Principles of Economics. (3-3) <sup>(II) I</sup> (Credit A, B) *with pen*  
NELSON and STAFF *Miller Hilmer*  
Lectures, Tu Th, 9 and 1 hour quiz; Tu Th 10 and 1 hr quiz.
- ✓ 14A-14B. Principles of Accounting. (3-3) <sup>(II) I</sup> (Credit A, B)  
NOBLE, LE DEUC  
Tu Th, 9, and 2 hours laboratory; Tu Th, 10, and 2 hours laboratory.
- ✓ 16B. Typing. (2) Either semester. (Credit B) ALLEN  
Tu Th, 2.
- ✓ 17B. Shorthand. (3) II. (Credit B) M W F, 10. ALLEN
- ✓ 18A-18B. Penmanship. (2-2) <sup>(II) II</sup> (Credit B) PLOUGH  
Tu Th, 10; Tu Th, 11; Tu Th, 1; Tu Th, 2.

## Announcement of Courses

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✓ *100. Advanced Economics Theory. (2) I <del>II</del> (Credit A)	<i>Miller</i>
✓ *131. Elementary Statistics. (3) I <del>I</del> (Credit A, B)	LE DEUC
<del>*132. Advanced Statistics. (3) II. (Credit A, B)</del>	<del>LE DEUC</del>
✓ *150. Accounting Practice. (3) I. (Credit A, B)	LE DEUC
✓ *151. Advanced Accounting. (3) II. (Credit A, B)	LE DEUC
✓ *160A-160B. Money and Banking. (3-3) Yr. (Credit A, B).	NELSON <i>Hilmer</i>
✓ 161. Corporation Finance. (3) II. (Credit B) <del>A</del>	<i>Hilmer</i>
✓ 170. Principles of Marketing. (3) I. (Credit B)	<i>McGrath</i>
✓ 171. Principles of Advertising. (3) II. (Credit B)	<i>McGrath</i>
<del>172. Salesmanship. (3) II. (Credit B)</del>	<del>—</del>
✓ 180. Economics of Transportation. (3) II. (Credit B)	NELSON
✓ 185. Principles of International Commerce. (3) I. (Credit B)	NELSON
✓ *190. Business Organization. (3) I. (Credit A, B)	NOBLE
✓ *191. Business Administration. (3) II. (Credit A, B)	NOBLE
<del>198. Methods in Commercial Education. (3) II. (Credit B)</del>	<del>NOBLE and STAFF</del>

### Courses in Other Departments

Economic History (History 176).

Economic Geography (Geography 3A)

Commercial Law (Jurisprudence 10A-10B, 18A-18B) [under Political Science].

Business English (English 1c)

Business Mathematics (Mathematics 2, 18).

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\* Only 12 units may be taken by students in the College of Letters and Science.

## EDUCATION

- ERNEST CARROLL MOORE, Ph.D., LL.D., Director of the Southern Branch and Professor of Education.
- MARVIN L. DARSIE, M.A., Associate Professor of Education.
- CHARLES WILKIN WADDLE, Ph.D., Supervisor of Training and Professor of Education.
- BENJAMIN W. JOHNSON, Lecturer in Education and Supervisor of Classes in the Training of Trade and Industrial Teachers.
- KATHERINE L. McLAUGHLIN, M.A., Associate Professor of Education.
- ETHEL I. SALISBURY, M.A., Associate Professor of Elementary Education.
- WILLIAM A. SMITH, Ph.D., Assistant Professor of Education.
- CLARENCE HALL ROBISON, Ph.D., Assistant Professor of Education.
- — —, Assistant Professor of Education.
- FREDERICK P. WOELLNER, Ph.D., Lecturer in Civic Education.
- HARVEY L. EBY, A.B., Associate Professor of Education.
- LEWIS ADAMS MAVERICK, M.A., Lecturer in Vocational Education.
- J. HAROLD WILLIAMS, Ph.D., Lecturer in Education.
- HELEN M. CHRISTIANSEN, Associate in Education.

✓ 11. Principles of Teaching. (3) Either semester. (Credit B) STAFF  
 Tu Th S, 8; Tu Th S, 9; Tu Th S, 10; Tu Th S, 12.  
 Prerequisite: Psychology 2.

✓ 21. Introductory Kindergarten-Primary Education. (3) I. (Credit B)  
 M W F, 11. McLAUGHLIN

✓ 114. Civic Education. (2) Either semester. (Credit B) WOELLNER  
 Tu Th, 2.  
 Prerequisite: Political Science 50.

✓ 124. Kindergarten-Primary Curricula and Methods. (3) I. (Credit B)  
 M W F, 2. McLAUGHLIN  
 Prerequisite: Psychology 2.

✓ 126. History of Kindergarten and Primary Education. (3) I. *christiansen*  
 (Credit B.) Tu Th S, 9. McLAUGHLIN

x ✓ 127. Principles of Kindergarten-Primary Number. (2) I. (Credit B)  
*McLaughlin*

127 duplicated by 124A (1925-26)

127 - 2 un. by authority W A Smith 12-14-23



- ✓ 140. The Administration of Public Education (with special reference to California). (3) Either semester. (Credit B). SMITH, EBY  
M W F, 9; M W F, 2.
- ✓ 142. Introduction to Educational Measurement. (3) Either semester. (Credit B) DARSIE, ROBISON *via*  
Tu Th S, 8; Tu Th S, 10; M W F, 4.
- ✓ 150. Elementary Education. (3) II. (Credit B) ROBISON  
A course designed especially for those candidates for the junior high school and secondary certificates, who wish to qualify for the General Elementary Credential.
- ~~151. Comparative Study of Primary Education. (3) I. (Credit B) McLAUGHLIN~~
- ~~153. Kindergarten-Primary Supervision. (3) II. (Credit B) McLAUGHLIN~~
- \* ✓ 155. Rural Society and Education. <sup>(3)</sup><sub>(2)</sub> Either semester. (Credit B) EBY
- \* ✓ 156. Rural School Organization and Administration. <sup>(3)</sup><sub>(2)</sub> I. (Credit B) EBY
- \* ✓ 157. Rural School Supervision. <sup>(3)</sup><sub>(2)</sub> II. (Credit B) EBY
- ~~162. Americanization. (3) Either semester. (Credit B) WOELNER~~
- ✓ 165. Vocational Education. (3) I. (Credit B) JOHNSON  
Tu Th, 4-5:30.
- ✓ 166. Vocational and Educational Guidance. (3) II. (Credit B) MAVERICK  
M W F, 3.
- ~~167. Problems in Part Time Education. (3) II. (Credit B) JOHNSON  
Tu Th, 4-5:30.~~
- ~~169. The teaching of General Science in Junior High Schools. (2) II. (Credit B) EDWARDS~~
- ✓ 175. Educational Sociology. (3) I. (Credit B) DARSIE  
M W F, 2.

\* changed to 3 units each by authority of M. L. Darsie 9/3-23

- ✓ 178. Principles of Secondary Education. (3) Either semester. (Credit B)  
M W F, 4. SMITH
- ✓ 180A-180B. The Junior High School. (3-3) Yr. (Credit B) SMITH  
M W F, 10.
- ✓ 186. Educational Diagnosis. (3) II. (Credit B) DARSIE  
M W F, 4.  
The use of standard tests in school, class and individual diagnosis.  
Elementary statistical methods.  
Prerequisite: Education 142.
- ~~189. History of Education. (3) II. (Credit B) MOORE~~
- ✓ 195. Supervision of Teaching. (2) I. (Credit B) WADDLE  
Open to principals, supervisors, training teachers and those preparing for supervision.  
Prerequisite: two or more years of teaching experience.

Philosophy of Education (*see Philosophy and Psychology*).

## ENGLISH

- FREDERIC T. BLANCHARD, Ph.D., Professor of English.
- HERBERT F. ALLEN, Ph.D., Assistant Professor of English.
- SIGURD BERNHARD HUSTVEDT, Ph.D., Assistant Professor of English.
- LLEWELLYN BUELL, Ph.D., Assistant Professor of English.
- PERCY H. HOUSTON, Ph.D., Assistant Professor of English.
- ALFRED E. LONGUEIL, Ph.D., Assistant Professor of English.
- CHARLES A. MARSH, B.S., Assistant Professor of Argumentation.
- \*ALICE O. HUNNEWELL, Instructor in English.
- EVALYN THOMAS, A.B., B.L.I., Instructor in English.
- MARGARET S. CARHART, Ph.D., Instructor in English.
- HARRIET MACKENZIE, M.A., Instructor in English.
- LILY B. CAMPBELL, Ph.D., Instructor in English.
- CARL S. DOWNES, Ph.D., Instructor in English.
- KATHERINE COLLINS, M.A., Associate in English.
- MARY DERBY, Associate in English.
- LAWRENCE C. LOCKLEY, M.A., Associate in English.
- J. F. MCGREW, Associate in Public Speaking.
- LU E. PEARSON, M.A., Associate in English.
- LOUIS C. VALENTINE, A.B., Associate in English.

*- Caroline J. Johnson  
F.T. Baker*

## SUBJECT A: ENGLISH COMPOSITION

The Subject A examination is designed to test the student's ability in English composition and written expression, especially with regard to organization and freedom from technical errors.

All intrants to the Southern Branch must, at the time of their first registration, present themselves for examination in Subject A: English Composition.

(1) Students who pass Subject A are not required, but are advised, to continue their training in oral and written composition. (2) All students must pass Subject A examination. (3) No student who has not passed Subject A will be admitted to any University course in oral or written composition. (4) Students who fail to make a satisfactory showing in this test are required to take a special course in English composition without university credit. A tuition fee of \$10 is charged for this course. (5) Intrants who fail to present themselves for the examination at the time appointed must pay a fee of \$2 when they enter the examination for the first time. (6) For students who enter with advanced stand-

\* Absent on leave.

ing Subject A is a requirement for junior standing. (7) Failure in the examination does not prevent admission to the Southern Branch. (7) The examination will be given at the Southern Branch, at the opening of the fall and spring sessions.

The examination will be composed, set, and judged under the direction of the Committee on Subject A, and the requirements and penalties will be enforced by the Deans and other proper authorities of the colleges.

#### PREREQUISITE FOR THE MAJOR

English: 12 units (English 1A-1B and English 56A-56B).

Public Speaking: 12 units chosen from Public Speaking 1A-1B (or English 1A-1B), 2A-2B, 5A-5B.

- ✓ 1A-1B. First Year Reading and Composition. (3) Either semester.  
(Credit A, B)  
BLANCHARD, ALLEN, HUSTVEDT, BUELL, HOUSTON, LONGUEIL,  
CARHART, MACKENZIE, CAMPBELL, DOWNES, COLLINS,  
LOCKLEY, PEARSON, VALENTINE  
Open to all students who have received a passing grade in Subject A.  
M W F, 8; M W F, 9; M W F, 10; M W F, 11; M W F, 12; M W F,  
2; M W F, 3; Tu Th S, 8; Tu Th S, 9; Tu Th S, 10; Tu Th S, 11;  
Tu Th S, 12.
- ✓ 1C. English in Business Practice. (3) Either semester. (Credit A, B)  
Prerequisite: 1A. LOCKLEY
- ✓ 4A-4B. World Literature. (1-1) Yr. (Credit A, B) W, 3 BLANCHARD  
This course is given in series, each of which may be taken once.
- ✓ 12A. Reading, and the Teaching of English. (2) Either semester.  
(Credit B) *Stonard,* SAWYER
- ✓ 12B. Literature for the Primary Grades. (2) Either semester.  
(Credit B) MACKENZIE
- ✓ 14. Literature for the Middle Grades. <sup>3</sup> (3) II. (Credit B) MACKENZIE  
*(McDonnell 2-8-24)*
- ✓ 50 American Literature (3) (Credit A, B) *Baker*
- ✓ 51A-51B. Writing Based on Nineteenth Century Masterpieces. (3-3) *(17)*  
(Credit A, B) HUSTVEDT, HOUSTON

- ✓ 52A-52B. Types of English Literature. (3-3) Yr. (Credit A, B)  
LONGUEIL, CARHART, CAMPBELL
- ✓ 56A-56B. Survey of English Literature. (3-3) Yr. (Credit A, B) *Houston*  
ALLEN, HUSTVEDT, BUELL, LONGUEIL, CARHART, ~~CAMPBELL~~ *Downes*  
M W F, 10; M W F, 2; Tu Th S, 10.
- ✓ 114A-114B. English Drama from the Beginning to 1900. (3-3) Yr.  
(Credit A, B) LONGUEIL, BUELL
- ✓ 117J. Shakespeare. (3) Either semester. (Credit A, B) M W F, 10.  
BLANCHARD, HUSTVEDT *allen*
- ✓ 121A-121B. Nineteenth Century Poetry. (3-3) Yr. (Credit A, B) *I*  
ALLEN, ~~HUSTVEDT~~
- ✓ 125c-125d. The English Novel. (3-3) Yr. (Credit A, B) M W F, 9.  
BLANCHARD
- ✓ 125H. Nineteenth Century Prose. (3) Either semester. (Credit A, B) *Bob*  
HOUSTON
- ✓ 130-130. American Literature. (3) ~~Either semester~~ (Credit B) DOWNES *I*
- ✓ 153C. Contemporary Poetry (3) (Credit A, B) *I*
- ✓ 161. Junior High School English. (2) I. (Credit B) MACKENZIE

PUBLIC SPEAKING

- ✓ 1A-1B. Elements of Public Speaking. (3-3) ~~Yr~~ *(I, II) I* (Credit A, B)  
MARSH, *Marshall*
- ✓ 2A-2B. The Fundamentals of Expression and Interpretation. (3-3) Yr. *either*  
(Credit A, B.) M W F, 11. THOMAS
- ✓ 5A-5B. Principles of Argumentation. (3-3) Yr. (Credit A, B) MARSH  
Prerequisite: Public Speaking 1A-1B or English 1A-1B and the consent of the instructor.
- ✓ 10A-10B. Dramatic Interpretation. (3) Yr. (Credit A, B) THOMAS
- ✓ 15B. The Art of Story Telling. *3 10 10* (3) Either semester (Credit B)  
MACKENZIE

**GEOGRAPHY**

- GEORGE M. MCBRIDE, Ph.D., Associate Professor in Geography.
- MYRTA LISLE MCCLELLAN, B.S., Assistant Professor of Geography.
- RUTH E. BAUGH, A.B., Associate in Geography.
- FORD ASHMAN CARPENTER, LL.D., D.Sc., Lecturer in Meteorology

**PREPARATION FOR THE MAJOR**

Required: Geography 1A, 1B, 2B; Geology 1C, 2C.

**THE MAJOR**

The major at Berkeley includes Geography 113, 115, 116A. Students may have a maximum of not more than eight units of closely related work in other departments approved as a part of the units required for graduation.

- ✓ 1A. Fundamentals of Modern Geography. (3) Either semester.

(Credit A, B)

The STAFF

M W F, 8; M W F, 9; M W F, 2; Tu Th S, 10; Tu Th S, 11.

Underlying geographic principles which control life on the earth; the effect of environment upon the activities of man; various forms of geographic environment and a study in detail of type regions; especial emphasis upon the achievements of men in mastering handicaps of environment.

- 1B. Elementary Meteorology. (3) I. (Credit A, B)

BAUGH

A study of the earth's atmosphere and the changes in it which produce our weather and influence human affairs.

- 2B. Map and Instrumental Study of Weather and Climate. (2) II.

(Credit A, B)

The STAFF

Prerequisite: course 1B or equivalent preparation.

The making and recording of meteorological observations; practical work with meteorological instruments; a study of weather and weather maps.

- 3A. Introduction to Economic Geography. (3) Either semester.  
 (Credit A, B.) Tu Th S, 10. MCBRIDE, McCLELLAN  
 Prerequisite: Geography 1A or equivalent preparation.

A study of the influence exerted upon the economic activities of man by his physical environment, particularly by the form and structure of the land, the climatic conditions which prevail upon it, and the place relations in which its different regions stand to one another.

- ✓ 7. <sup>A+B</sup> Applied Meteorology. <sup>(1-1) Yr</sup> (1) H. (Credit A, B) <sup>(Common Courses 3-28-24)</sup> CARPENTER  
 Prerequisite: Geography 1A or 1B.

Descriptive lectures dealing with all forms of weather science applied to local and general environment.

113. General Climatology. (2) II. (Credit A, B) MCBRIDE  
 Prerequisite: course 1B or equivalent preparation.

A study of the principles underlying climatic phenomena, of the features which characterize the climates of different regions, and of the influence of climatic conditions upon the life of plants, animals, and the human race.

- ✓ 115. Geography of California. (2) Either semester. (Credit A, B) MCBRIDE  
 Tu Th, 1. McCLELLAN

A comparison and contrast of California's geographic advantages and handicaps; a tracing of the relations between the natural resources of the state and man's activities.

- ✓ 116A. Geography of North America. (2) I. (Credit A, B) BAUGH  
 Prerequisite: Geography 1A or Geology 1C.

A study of the continent of North America, based upon the several natural regions; the topography, climate, and natural resources in their relations to man and to the distribution of population and the localization of industries.

- ✓ 116C. Geography of Europe. (2) II. (Credit A, B) BAUGH  
 Prerequisite: Geography 1A or Geology 1C.

The importance of the geographic environment in the development and present status of the leading countries of Europe; the relations and inter-actions, socially and economically, among the various groups.

- ✓ 116D. Geography of Latin-America. (2) I. (Credit A, B) MCBRIDE  
 Prerequisite: Geography 1A or Geology 1C.

This course aims to ascertain the physical conditions characterizing the countries of Latin-America, particularly in their relation to the life of the inhabitants.

116E. Geography of Asia. (2) II. (Credit A, B) McCLELLAN

Prerequisite: Geography 1A or Geology 1C.

A study of the geographic problems which determine the social and economic conditions of the leading countries of Asia.

✓128. Geographic Influences in American History. (2) II. (Credit A, B)

McBRIDE

Prerequisite: Geography 1A and History 7A or 7B.

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.

169. The Teaching of Geography. (3) Either semester. (Credit B)

M W F, 9.

McCLELLAN

Prerequisite: Geography or equivalent preparation.

The fundamental purposes of geography as an instrument of instruction; the changing point of view; the basic principles; the various methods of presentation; the use of materials.



**GEOLOGY**

- FREDERICK P. VICKERY, M.S., Assistant Professor of Geology.
- ALFRED B. WHITMAN, Ph.D., Assistant Professor of Geology.

*Laboratory Fees.*—Mineralogy 1A, 1B, \$5; 2AB, \$2.50.

*Traveling Expense.*—Geology 2D, \$5; 5, \$5; 6, \$7.50; 102A-B, \$15 per semester.

**PREPARATION FOR THE MAJOR**

Required: Chemistry 1A-1B; Physics 2A-2B; Mathematics C; Civil Engineering 11A-11B, 1FA-1FB; Geology 1A-1B, 5; Mineralogy 1A, 1B, 2AB; Mechanic Arts C and 9.

Recommended: French, German, Chemistry 5, Geology 6.

**THE MAJOR**

All majors must include Geology 102A-102B and 103.

**GEOLOGY**

- ✓ 1A. General Geology: Dynamical and Structural. (3) Either semester. (Credit A, B.) M W F, 9; Tu Th S, 8. *Whitman* VICKERY  
 Three recitations per week and four field trips (half-day) per semester. Sections limited to thirty students.  
 Prerequisite: Chemistry and Physics.
- ✓ 1B. General Geology: Historical. (2) Either semester. (Credit A, B) *Vickery*  
 Prerequisite: Geology 1A, 1C, or Paleontology 1.
- ✓ 1C. Elementary Physiography. (3) Either semester. (Credit A, B) M W F, 11. VICKERY  
 A study of the surface of the earth.
- ✓ 2C-2D. Map and Field Study of Physiography. (1-1) *(IA) I* VICKERY  
 2C may be taken after or concurrently with 1C.

✓ 5. General Geology: Field Work: Dynamical and Structural. (1) Either  
semester. (Credit A)

May be taken after or concurrently with Geology 1A. Field excursions and reports.

✓ 6. General Geology: Laboratory and Field Work: Historical. (2) I.  
(Credit A)

May be taken after or concurrently with 1B.

✓ 102A-102B. Field Geology. (2-2) Yr. (Credit A)

Prerequisite: May be taken after or concurrently with Geology 103. Geology 5 recommended. Credit is given only to students who take the year's work.

Field work with supplementary lectures and exercises in mapping.

✓ 102C. Economic Geology. Metalliferous Deposits. (3) II. (Credit A)

WHITMAN

Prerequisite: Geology 1A and Mineralogy 1A, 1B.

✓ 102D. Economic Geology. Non-metalliferous Deposits. (2) I.  
(Credit A)

WHITMAN

Prerequisite: Geology 1A and Mineralogy 1A, 1B.

#### MINERALOGY

✓ 1A-1B. Determinative Laboratory. (2-2) Yr. Credit A. WHITMAN

Prerequisite: Chemistry.

✓ 2AB. Crystallography and Crystallographic Laboratory. (3) I.  
(Credit A)

WHITMAN

May be taken concurrently with or after Mineralogy 1A. The former is recommended.

## GERMAN

- WILLIAM DIAMOND, Ph.D., Assistant Professor of German.  
- A. K. 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, French or Latin.

Two years of German in high school or five semester units of college work will ordinarily admit to course B; three years of German in high school or ten semester units of college work will ordinarily admit to course C-D. In cases of special merit the department may grant more advanced standing.

## THE MAJOR

The requirements for the major at Berkeley are 24 units in upper division courses, including one full year's course in composition. With the permission of the department, six of the twenty-four units may be in related work in other departments.

- ✓ A. Elementary German. Beginners' course. (5) Either semester.  
(Credit A, B.) M Tu W Th F, 9. DIAMOND, *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 semester.  
(Credit A, B.) M Tu W Th F, 9. DIAMOND, *Dolch*  
Prerequisite: Course A or two years of high school German.

- ✓ A-B. Elementary German. (3-3) Yr. (Credit A, B) *Dolch*  
M W F, 12.

Exclusively for students looking toward work in medicine, engineering or along general scientific lines.

- ✓ C-D. Intermediate German (continuation of B). (3-3) ~~Yr.~~ *(I-II) II*  
(Credit A, B) DIAMOND  
Prerequisite: Course B or three years of high school German.

*Announcement of the Southern Branch*

✓ SC-SD. Scientific German. (3-3) Yr. (Credit A) *select*

Prerequisite: Course B or B<sup>2</sup> or three years of high school German.

This course provides special training in the reading of more or less technical texts and is intended for scientific and professional students.

104A. ~~Introduction to Modern German Literature.~~ (3) II. (Credit A, B)  
DIAMOND

~~Selected works of Hauptmann and Sudermann.~~

✓ 105A-105B. German Classics of the Eighteenth Century. (3-3) Yr.  
(Credit A, B) DIAMOND

Selected works of Lessing, Goethe, and Schiller.

✓ 106A-106B. Grammar, Composition, and Conversation. (2-2) Yr. *select*  
(Credit A, B)

**HISTORY**

- FRANK J. KLINGBERG, Ph.D., Associate Professor of History.
- JOHN CARL PARISH, Ph.D., Assistant Professor of History.
- JOSEPH B. LOCKEY, Ph.D., Assistant Professor of History.
- MELVA LATHAM, A.B., Assistant Professor of History.
- DAVID K. BJORK, Ph.D., Instructor in History.
- LUCY M. GAINES, M.A., Instructor in History.
- L. K. KOONTZ, Ph.D., Instructor in History.

**PREPARATION FOR THE MAJOR**

*Flornice look  
Rankin*

Required: History 4A-4B, or 7A-7B, or 8A-8B, or 2A-2B plus some other related History course, and either Political Science 1A-1B or Economics 1A-1B.

Recommended: French, or German, or Latin, or Spanish, or Italian.

**THE MAJOR**

The major at Berkeley is twenty-four units of upper division work in history, or eighteen upper division units in history and six upper division units in either political science or economics approved by the department.

- ✓ 2A-2B. History of England and Greater Britain. (2-2) Yr. (Credit A, B)  
Tu Th, 12; Tu Th, 1. ~~KLINGBERG, KOONTZ~~ *Byrd*
- ✓ 4A-4B. Social and Political History of Modern Europe. (3-3) Yr.  
(Credit A, B) ~~KLINGBERG, KOONTZ~~ *Staff*  
M W F, 8; M W F, 9; M W F, 11; Tu Th S, 9.
- ✓ 7A-7B. History of the United States. (3-3) Yr. (Credit A, B) *Staff*  
~~PARISH, LATHAM, GAINES~~  
Tu Th S, 8; Tu Th S, 9; Tu Th S, 10; M W F, 3.  
First semester, to 1837. Second semester, to the present time.
- ✓ 7C. History of the United States since 1876. (2) Either semester.  
(Credit A, B) ~~PARISH~~
- ✓ 8A-8B. The History of the Americas. (3-3) *Either sem.* (Credit A, B) ~~LOCKEY~~  
M W F, 12; M W F, 2.

## Announcement of the Southern Branch

- ✓ 11. Social Studies in the Kindergarten-Primary Grades. (2) Either semester. (Credit B.) Tu Th, 9; Tu Th, 3. LATHAM  
Treats of sources of material, curricula now in use, and projects.  
Prerequisite: Psychology 2.
- ✓ 38. Contemporary History. (1) Either semester. (Credit B) GAINES
- ~~89. Pacific Coast History. (2) Either semester. (Credit B) GAINES~~
- ✓ 77. The Social Sciences for Junior High Schools. (2) <sup>either sem</sup> (Credit B) LATHAM
- ✓ 111A-111B. The Development of Ancient Civilizations. (3-3) <sup>II-1</sup> (Credit A, B.) M W F, 10. RANKIN
- ✓ 131. The Renaissance. (3) I. (Credit A, B.) M W F, 12 KLINGBERG
- ✓ 142. The French Revolution. (3) II. (Credit A, B) KLINGBERG
- ✓ 176. The Industrial History of the United States. (2) Either semester. (Credit A, B) LATHAM
- ✓ 181A-181B. The History of the Westward Movement. (3-3) Yr. PARISH  
(Credit A, B)  
a. Settlement of the Mississippi Valley.  
b. Migration Across the Plains and Mountains to the Pacific.
- ✓ 183A-183B. The Expansion of Europe Since the Fifteenth Century. (2-2) Yr. (Credit A, B.) Tu Th, 11. KLINGBERG

**HOME ECONOMICS\***

- HELEN B. THOMPSON, Ph.D., Professor of Home Economics.
- BERNICE ALLEN, B.S., Ed.B., M.A., Instructor in Home Economics.
- ORABEL CHILTON, B.S., Associate in Home Economics.
- MAUDE E. JENKINS, B.S., Associate in Home Economics.
- MAUD D. EVANS, Associate in Home Economics.
- ELIZABETH LATHROP, Associate in Home Economics.
- FLORENCE A. WILSON, A.B., B.S., Associate in Home Economics.
- PAULINE LYNCH, Associate in Home Economics.

*Laboratory Fees.*—The fee required for courses 1A, 1B, 2, 69, 75, 79 is \$1; for courses 66, 71, is \$1.50; for courses 11A, 11B, 33, 59, 83, 85 is \$2.75.

- ✓ 1A. Textiles and Clothing (Household Art 1A). (3) Either semester.  
(Credit A, B) WILSON  
Study of textile fibres and principles of simple garment construction.  
Prerequisite: Art 6A.
- ✓ 1B. Elementary Dressmaking (Household Art 1B). (3) II. (Credit A, B) WILSON Lynch  
Prerequisite: Home Economics 1A and Art 13A.
- 2. The Study of Dress. (3) II. (Credit B) LATHROP  
Open only to vocational students.  
Prerequisite: Home Economics 1A.
- ✓ 11A. Elementary Food (Household Science 1A). (3) Either semester.  
(Credit A, B) ALLEN, EVANS  
Food principles, selection and preparation.  
Prerequisite: Chemistry 2A.
- ✓ 11B. Elementary Food (Household Science 1B) (3) Either semester.  
(Credit A, B) ALLEN  
Economic aspects and service of meals.  
Prerequisite: Chemistry 2B, Home Economics 11A.
- ✓ 22. Home Economics Objectives. (2) I-II (Credit B) Thompson  
STAFF  
Tu Th, 10.  
Required of freshmen.

\* Upon the completion of the Junior Year students will ordinarily receive the Elementary Special Home Economics Credential.

- ✓ 24. Home Economics Survey. (3) Either semester. (Credit B) *Evans*  
 M W F, 11; M W F, 2.  
 For general professional and Kindergarten-Primary students.
- ✓ 33. Elementary Dietetics. (3) Either semester. (Credit B) *Chilton*  
 Principles of diet applied to individuals, the family and other groups.  
 Prerequisite: Chemistry 10, Biology 10 to parallel or to precede Home Economics 11B.
43. Household Administration. (2) II. (Credit B) *ALLEN*  
 For vocational students.  
 Prerequisite: Chemistry 2A, Commerce 1A.
46. Home Economics Education. (4) II. (Credit B)  
 Combination of 47A and 47B. For vocational students.  
 Prerequisite: Psychology 2.
- ✓ 147A. Development of Home Economics Education. (3) Either semester.  
 (Credit B) *Thompson*  
 M W F, 12.  
 Prerequisite: Psychology 2.
- ✓ 147B. Principles of Home Economics Teaching. (2) Either semester.  
 (Credit B) Tu Th, 12. *Evans*  
 Study of typical courses and their presentation.  
 Prerequisites: Home Economics 47A, Psychology 2 and Education 11 or 78.
- ✓ 159. Food Problems. (3) II. (Credit B) *ALLEN*  
 Special problems in food with review of literature of the subject.  
 Prerequisite: senior standing.
- ✓ 166. Millinery. (2) Either semester. (Credit B) *LATHROP*  
 Prerequisite: Art 6A and Home Economics 1A or equivalent.
- ✓ 169. Household Administration. (3) I. (Credit B) *ALLEN*  
 Economic organization and administration of the activities of the home.  
 Prerequisite: Chemistry 2A, Physics 11, Commerce 1A, Food and Clothing—1 year each.



*Announcement of Courses*

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- ✓ 170. Home and Community. (3) I. (Credit B) *Thompson*  
Home and family life as modified by present social and civic demands.  
Prerequisite: senior standing.
- ✓ 171. Demonstration—Food and Clothing. (1) II. (Credit B) *Cynab*  
Prerequisite: senior standing. ~~STAFF~~
- ✓ 175. Advanced Dressmaking. (3) Either semester. (Credit B) LATHROP  
Prerequisite: Home Economics 1B. *Wilson*
- ✓ 179. Clothing Problems. (3) Either semester. (Credit B) LATHROP  
Special problems in clothing with review of literature.  
Prerequisite: senior standing.
- ✓ 183. Experimental Cookery. (3) <sup>I</sup> ~~Either semester.~~ (Credit B) *Chilton*  
Prerequisite: senior standing. ~~ALLEN~~
185. Advanced Dietetics. (3) II. (Credit B) ~~Prerequisite: Home Economics 33, Chemistry 57.~~ *CHELTON*

### MATHEMATICS

- GEORGE E. F. SHERWOOD, M.A., Associate Professor of Mathematics.
- HARRY M. SHOWMAN, E.M., M.A., Assistant Professor of Mathematics.
- GLENN JAMES, Ph.D., Assistant Professor of Mathematics.
- HARRIET E. GLAZIER, M.A., Assistant Professor of Mathematics.
- MYRTIE COLLIER, B.S., Assistant Professor of Mathematics.
- GUY H. HUNT, C.E., Assistant Professor of Applied Mathematics.
- EUPHEMIA R. WORTHINGTON, Ph.D., Instructor in Mathematics.
- PAUL H. DAUS, Ph.D., Instructor in Mathematics.
- FREDERICK C. LEONARD, Ph.D., Instructor in Astronomy.
- W. E. MASON, Instructor in Applied Mathematics.

*Fees.*—The fee required for Civil Engineering 1FA-1FB is \$5 per semester; for Civil Engineering 3 there is a minimum fee of \$20.

### PREPARATION FOR THE MAJOR

Required: Mathematics 3A-3B, 4A-4B, 6, 8.

Recommended: Physics, Astronomy, French, German.

- ✓ CA. Plane Trigonometry. (2) Either semester. (Credit A, B) *Northington, Showman, Mason*  
Tu Th, 12.  
Prerequisite: elementary algebra and geometry.
- ✓ CB. Spherical Trigonometry and Computation. (2) Either semester *James, Mason, Showman*  
(Credit A, B) Tu Th, 12.  
Prerequisite: plane trigonometry and solid geometry.
- ✓ G. Solid and Spherical Geometry. (2) I. (Credit A, B) *James, Mason*  
Tu Th, 10.  
Prerequisite: plane geometry.
- ✓ 1. Advanced Algebra. (3) Either semester. (Credit A, B) *Staff*  
M W F, 9; M W F, 11; M W F, 3.  
For students who have had 1½ years of high school algebra.
- ✓ 1c. Advanced Algebra. (3) Either semester. (Credit A, B) *Staff*  
M Tu W Th F, 9; M Tu W Th F, 11.  
For students requiring more drill than Mathematics 1 affords.
- ✓ 2. Mathematics of Finance. (3) Either semester. (Credit A, B) *Glazier, Showman*  
M W F, 11.  
Prerequisite: Mathematics 1 or 1c.

✓ A no credit 1st sem. elem. algebra Collier  
✓ B. no credit 2nd sem. 1923-24 Plane Geom Hunt  
Collier

- ✓ 3A. Plane Analytic Geometry. (3) Either semester. (Credit A, B)  
M W F, 8; M W F, 10. *Hunt* COLLIER, JAMES *James*  
Prerequisite: trigonometry and Mathematics 1 or its equivalent.
- ✓ 3B. Differential Calculus. (3) II. (Credit A, B) *Collier* ~~Collier~~ *James*  
M W F, 10.  
Prerequisite: Mathematics 3A.
- ✓ 3C. Differential and Integral Calculus. (5) I. (Credit A, B) *SHERWOOD*  
Prerequisite: Mathematics 3A. *Shawman*  
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, 8. *DAUS*  
Prerequisite: solid geometry and Mathematics 3B.
- ✓ 4C. Solid Analytic Geometry and Integral Calculus. (4) II.  
(Credit A, B) *SHERWOOD*  
Prerequisite: solid geometry and Mathematics 3C. *Shawman*  
This course with Mathematics 3C is the equivalent of Mathematics  
3B, 4A, and 4B.
- ✓ 5. Analytic Geom. (5 un.) (Credit A, B) *Worthington*
- ✓ 6. Introduction to Projective Geometry. (3) II. (Credit A, B) JAMES
- ✓ 8. College Algebra. (3) ~~Either semester.~~ I *SHOWMAN*  
(Credit A, B) M W F, 8.  
For students in the College of Letters and Science.
- ✓ 15C. First Course in Mechanics. (4) II. (Credit A, B) *Hunt* *SHOWMAN*  
Prerequisite: credit or registration in either Mathematics 4B or 4C.
- ✓ 17. Arithmetic for Teachers. (3) Either semester. (Credit B)  
COLLIER, GLAZIER, WORTHINGTON  
Tu Th S, 8; Tu Th S, 10.
- ✓ 17C. Arithmetic for Teachers (3) (Credit B) II *Glazier*
- ✓ 18. Business Mathematics. (2) I. (Credit B) Tu Th, 12. *HUNT*
- 74. The Teaching of Junior High School Mathematics. (3) II.  
(Credit B) *COLLIER*
- ✓ 102. Elementary Algebra for Advanced Students. (3) I.  
(Credit A, B) *WORTHINGTON*  
Prerequisite: Mathematics 3B or its equivalent.  
Selected topics in elementary algebra with particular reference to  
modern points of view.
- ✓ 109. Calculus (Advanced Course). (3) Either half-year.  
(Credit A, B) *James*

\* For students requiring more drill than 17.



**MECHANIC ARTS**

- HAROLD WILLIAM MANSFIELD, Assistant Professor of Mechanic Arts.
- JOHN B. PHILLIPS, Associate in Mechanic Arts.
- JAMES WILLARD MARSH, Associate in Mechanic Arts.
- FOSS R. BROCKWAY, Associate in Mechanic Arts.
- ADEIAN B. KELLER, Associate in Mechanic Arts.
- CHARLES H. PAXTON, Associate in Mechanic Arts.

**Laboratory Fees.**—The deposit required for Mechanical Engineering 7, 8A, 8B, 9A, 9B; Mechanic Arts 10A, 10B, 24A, 24B, 151A, 151B, 60A, 61, 162A, 162B, 75A, 75B is \$3.

**ENGINEERING DRAWING**

- ✓ C. Instrumental Drawing. (2) Either semester. (Credit A, B)  
M F, 2, 3, 4. PAXTON *Mansfield*
- ✓ D. Engineering Drawing. (2) Either semester. (Credit A, B)  
M F, 2, 3, 4. PAXTON
- ✓ 9. Lettering. (2) I. (Credit A, B) PAXTON
- 10. Lettering. (2) II. (Credit A, B) PAXTON

**MECHANICAL ENGINEERING**

- ✓ 1. Elements of Heat, Power, Engineering. (3) (Credit A) PAXTON  
M W F, 11.
- ✓ 2. Descriptive Geometry. (3) Either semester. (Credit A, B)  
Lectures, Th, 12; Drawing, Tu Th, 2, 3, 4. PAXTON, ~~MANSFIELD~~
- ✓ 6. Machine Design. (5) Either semester. (Credit A, B)  
~~MANSFIELD, PAXTON~~  
Lectures, M W F, 10; Laboratory, W, 2, 3, 4; S, 9, 10, 11.  
Principles of mechanism and elements of machine drawing.
- ✓ 7. Automotive Construction. (2) Either semester. (Credit A, B)  
MARSH, BROCKWAY
- ✓ 8A-8B. Shop Work. (2-2) *either sem* (Credit A, B) KELLER  
Lectures, M, 3, and 6 hours laboratory.  
Pattern making and foundry practice.

## Announcement of the Southern Branch

- ✓ 9A-9B. Shop Work. (2-2) ~~Yr.~~ <sup>either sem.</sup> (Credit A, B) PHILLIPS  
Lectures, Tu, 3, and 6 hours laboratory.  
Machine work in iron.
- ~~10. Automotive Laboratory. (3) Either semester. (Credit A, B) MARSH~~
- MECHANIC ARTS**
- ✓ 10A-10B. Shop Work. (3-3) ~~Yr.~~ <sup>I</sup> (Credit B) KELLAR  
Bench work in wood.
- ✓ 24A-~~24B~~ Shop Work. (3-3) ~~Yr.~~ <sup>I</sup> (Credit B) KELLAR  
Pattern making and molding.
- ~~60A-60B. Shop Work. (3-3) Yr. (Credit B) KELLAR~~  
~~Foundry practice.~~
- ~~61. Shop Work. (3) Either semester. (Credit B) PHILLIPS~~  
~~Forge practice.~~
- ✓ 75A-75B. Shop Work. (3-3) Yr. (Credit B) PHILLIPS  
Elementary machine shop practice.
- ✓ 150A-150B. Applied Electricity. (3-3) Yr. (Credit B) MARSH
- ✓ 151A-~~151B~~ Applied Electricity. (3-3) Yr. (Credit B) MARSH  
Storage battery and bench work.
- ~~152A-152B. Applied Mechanics I. (9) Yr. (Credit B) PATTON, MARSH~~
- ✓ 153. Machine Drawing. (3) ~~Either semester.~~ <sup>I</sup> (Credit B) MANSFIELD
- ~~154. Architectural Drawing. (3) I (Credit B) PATTON, MANSFIELD~~
- ✓ 162A-162B. Auto Mechanics. (3-3) Yr. (Credit B) MARSH, ~~BRUCKWAT~~
- ✓ 165A-165B. Home and Community Mechanics. (3-3) Yr. (Credit B)  
MANSFIELD, ~~BRUCKWAT~~ <sup>March</sup>
- ✓ 190. Organization and Administration of Industrial Education. (2) I.  
(Credit B) MANSFIELD and STAFF

**MILITARY SCIENCE AND TACTICS**

- GUY G. PALMER, Colonel, U. S. Army, Retired, Professor of Military Science and Tactics.
- JOHN E. CREED, Major, U. S. A., Assistant Professor of Military Science and Tactics.
- LEIGH BELL, Captain, U. S. A., Assistant Professor of Military Science and Tactics.
- A. N. STARK, JR., Captain, U. S. A., Assistant Professor of Military Science and Tactics.

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 text books for the use of the students belonging to such units. The University, being responsible for text books and uniforms furnished by the United States, requires the students to deposit with the Comptroller \$20 to cover the cost of the text books and uniforms issued to them. 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 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 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.

Students who complete the advanced course are also eligible for a commission by the Governor of the State of California in the University Cadets.

The courses are divided into two groups: the basic course and the advanced course.

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\* Students who are members of the National Guard or of the United States Naval Reserve Force are authorized to wear their guard or naval uniform in their military training at the University, and, upon application to the Supply Officer at the Military Science Building, may be excused from paying the deposit for uniform. Such students will pay a deposit of \$8 to cover cost of text books issued to them.

*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 two years' previous military training in a junior unit of the B. O. T. C., and who have not qualified for commissions in the Officers' Reserve Corps may receive credit therefor not to exceed the first year's instruction of the basic course. Application for this credit 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. The character of this recommendation will have weight in determining the credit to be given. When a student receives credit for the first-year basic course he will be enrolled in the second-year basic course in his freshman year. However, this credit may not be made the basis for exemption from taking the two years' work in Military Science and Tactics.

✓ 1A-1B. Basic Infantry Training. (1½-1½) Yr. (Credit A, B)

PALMER, CREED, BELL, STARK

M W F, 1; Tu Th, 12; W, 1. Wednesday of every other week.

Instruction in infantry drill, rifle marksmanship, interior guard duty, manipulation of the pack, tent pitching, scouting and patrolling, physical training and military courtesy.

✓ 2A-2B. Basic Infantry Training. (1½-1½) Yr. (Credit A, B)

PALMER, CREED, BELL, STARK

Instruction in map reading, infantry weapons, musketry, command and leadership, and military hygiene.

*Advanced Course*

The advanced courses are prescribed for such third-year and fourth-year students as have completed the basic course and elect to continue their military training.

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 president of



the institution 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 per year).

....., 192.....

In consideration of commutation of subsistence to be furnished me in accordance with law, I hereby agree to continue in the Reserve Officers' Training Corps during the remainder of my course in.....

....., to devote five hours

(Institution)

per week during such period to the military training prescribed, and to pursue the courses of camp training during such period prescribed by the Secretary of War.

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 the students at the rate prescribed for privates of the Regular Army.

Cadet officers and, so far as practicable, sergeants of the unit will be appointed from members of the junior and senior classes.

✓ 103A-103B. Advanced Infantry Training. (3-3) Yr. (Credit<sup>A</sup>B)

PALMER, CREED, BELL, STARK

Instruction and practice in the duties of officers in connection with basic courses; instruction in field engineering, military sketching, tactics, command and leadership, machine guns, 37 mm. guns and light mortars.

✓ 104A-104B. Advanced Infantry Training. (3-3) Yr. (Credit<sup>A</sup>B)

PALMER, CREED, BELL, STARK

Instruction and practice in the duties of officers in connection with basic courses; instruction in tactics, military history, administration, and command and leadership, Military Law and Rules of Land Warfare.

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 attend receive credit from the University of one-half of a University unit for each week of the duration of the camp, normally six weeks.

## MUSIC

- SQUIRE COOP, Lecturer in Music.
- FRANCES WRIGHT, Associate Professor of Public School Music.
- VERNON SPENCER, Assistant Professor of Music.
- WILLIAM J. KRAFT, Mus. Bac., F.A.G.O., Lecturer in Music.
- BERTHA C. VAUGHN, Teacher in Voice.

Applicants for any music credential must show evidence of musical talent, including ability to read music equivalent in difficulty to the first three books of the State text series. Ability to play piano music of advanced grade is a prerequisite to the work of the junior year.

## PREPARATION FOR THE MAJOR

Required: Music 4A-4B (6), 155A-155B (4), 6A-6B (4), 14A-14B (6).

Recommended: one year each of choral singing, musical history, ear training; two years' study of a musical instrument.

- |   |  |             |
|---|--|-------------|
| ✓ | 1A-1B. Choral Practice. (1-1) Yr. (Credit A, B)<br>M F, 3; Tu Th, 12.<br>All students who sing are eligible.                               | COOP        |
| ✓ | 2A-2B. Orchestral Practice. (1-1) Yr. (Credit A, B)<br>W F, 12; Tu Th, 3.<br>All students who play any orchestral instrument are eligible. | COOP        |
| ✓ | 3A-3B. Music History. (2-2) Yr. (Credit A, B) Tu Th, 1<br>A general survey of the development of music.                                    | KRAFT       |
| ✓ | 4A-4B. Introductory Harmony. (2-2) Yr. (Credit A, B)<br>Tu Th, 11; Tu Th, 2.   | KRAFT       |
|   | <del>4A-6B. Musicianship. (2-2) Yr. II (Credit A, B)</del>   | <i>coop</i> |
| ✓ | 7A-7B. Voice. (1-1) Yr. (Credit A, B) Tu Th, 9.<br>Tone production repertoire.   | VAUGHN      |
| ✓ | 8A-8B. Voice. (1-1) Yr. (Credit A, B)<br>Vocal ensemble (musicianship).<br>Prerequisite: Music 7A-7B.                                      | VAUGHN      |
| ✓ | 9A-9B. Melodic Dictation. (2-2) Yr. (Credit A, B)<br>M W F, 11.<br>Tone thinking.  | KRAFT       |

*Heaven in direction  
Miss Albin*

*1 First sem only  
2 Second " "*

## Announcement of Courses

121

- \*14A-14B. Counterpoint. (3-3) Yr. (Credit A, B) —
- ✓ 35. Music Supervision. ~~(3) Yr.~~ <sup>with permission</sup> (Credit B) ~~(160 3 un. ~~160~~)~~ WRIGHT
- ✓ 60. Teachers' Course in Music. (2) Either semester. WRIGHT  
(Credit B) M W, 3.
- ✓ 61. Kindergarten-Primary Music. <sup>2</sup> ~~(3)~~ Either semester. (Credit B)  
M F, 1. WRIGHT
- ✓ 102A-102B. Piano Ensemble. (1-~~2~~ <sup>I</sup> Yr.) (Credit A, B) COOP <sup>Spencer</sup>
- ✓ 105A-105B. Composition. (2-2) Yr. (Credit A, B) { SPENCER  
*alchim*
- ✓ 109. Conducting. (1) II. (Credit A, B) COOP
- 111A-111B. History of Music. (3-3) Yr. (Credit A, B) —  
Prerequisite: Music 5A-5B.
- ~~112A-112B. Music Education. (3-3) Yr. (Credit B) WRIGHT~~
- ✓ 114. Instrumentation. (1) I. (Credit B) COOP
- ✓ 133A-133B. Form and Analysis. (2-2) Yr. (Credit A, B) SPENCER *alchim*  
Harmonic and structural analysis of musical forms.
- ✓ 155A-155B. Advanced Harmony. (2-2) Yr. (Credit A, B) SPENCER *alchim*
- ✓ 184. Music Supervision. <sup>(3) I - (2) II</sup> ~~(3) Either semester.~~ (Credit B) WRIGHT
- ✓ 185A-185B. Piano Methods. (2-2) Yr. (Credit B) SPENCER *Coop.*

\* Not to be given 1923-24.

### PHILOSOPHY AND PSYCHOLOGY

- CHARLES H. RIEBER, Ph.D., Professor of Philosophy.
- 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.
- DONALD S. MACKAY, A.B., Instructor in Philosophy.
- NELLIE B. SULLIVAN, A.B., Instructor in Psychology.
- CLIFFORD L. BARRETT, A.B., M.A., Instructor in Philosophy.

#### PREPARATION FOR THE MAJOR

Philosophy.—Twelve units chosen from courses 1A-1B, 3A-3B, 4A-4B.

Psychology.—Required: Psychology 2, Philosophy 1A-1B, and either Physiology 1 and 2 or Zoology 1A-1B.

Recommended: French, German, Chemistry.

#### PHILOSOPHY

- ✓ 1A. Logic. (3) Either semester. (Credit A, B) M W F, 11.  
RIEBER, BARRETT  
 Deductive logic. Division, definition, the forms and transformations of judgments, the syllogism.
- ✓ 1B. Logic. (3) Either semester. (Credit A, B) RIEBER, BARRETT  
 Inductive logic. The presuppositions and methods of inductive sciences.  
 Prerequisite: Philosophy 1A.
- ✓ 3A-3B. History of Philosophy. (3-3) Yr. (Credit A, B) MACKAY  
 M W F, 2.
- ✓ 4A-4B. Introduction to Philosophy. (3-3) Yr. (Credit A, B) MACKAY Barrett  
 M W F, 11.

#### UPPER DIVISION COURSES

*General Prerequisite.*—Students enrolling in any upper division course must have completed six hours of work in the lower division courses, 1A-1B, 3A-3B, 4A-4B.

- ✓ 103A-103B. Philosophy of the Nineteenth Century. (3-3) Yr.  
 (Credit A, B) BARRETT  
 A study of the general ideas characteristic of the intellectual achievements of the century such as German idealism, French positivism, English utilitarianism, and theories of evolution.

- ✓ 104A-104B. Ethics. (3-3) Yr. (Credit A, B)
- ✓ 112 Philos. of Religion (3) (Credit A, B) II
- ✓ 116. Plato. (3) II. (Credit A, B)
- ✓ 121A Social & Political Philos. (2) Credit A, B) II
- ✓ 136A-136B. Esthetics. (3-3) Yr. (Credit A, B)  
Tu Th S, 10; Tu Th S, 11.

MACKAY  
Rieber  
FISHER  
GORDON  
*Mackay*  
*Bennett*

- ✓ 146. Literary Expressions of Philosophical Problems. (3) I.  
(Credit A, B)  
Prerequisite: course 3A-3B.

FISHER

PSYCHOLOGY

- ✓ X. The Psychology of Study. (1) Either semester. (Credit A, B)  
Tu, 8; Th, 8.

MOORE *W. Moore*

- ✓ 2. General Psychology. (3) Either semester. (Credit A, B)  
Tu Th S, 8; Tu Th S, 10.

THE STAFF  
*Fisher, Sullivan*

- ✓ 30. Educational Psychology. (3) I. (Credit B)  
M W F, 10; M W F, 12.

FERNALD, SULLIVAN  
*Fisher*  
*Gordon*

- ✓ 83. Advanced Psychology. (3) ~~Either semester.~~ (Credit A, B)  
Tu Th S, 11.

FISHER, SULLIVAN

- ✓ 106. Introduction to Psychological Experiment. (3) Either semester.  
(Credit A, B)

FISHER

- ✓ 107. Mental Tests and Measurements. (3) Either semester. (Credit A, B)

FERNALD

- ✓ 132. Psychology of Elementary School Subjects. (3) II. (Credit B)

FERNALD

- 140A. Psychological Experiment: Advanced. (1) Either semester.  
(Credit A, B)

FISHER

Hours to be arranged with instructor.  
Prerequisite: Psychology 106.

- ✓ 143A-143B. Clinical Psychology. (3-3) Yr. (Credit A, B)

FERNALD

- ✓ 145A-145B. Social Psychology. (2-2) Yr. (Credit A, B)

GORDON, FISHER

2 { duplicated by 2A (1924-25)  
" " 1A (1925-26)

### PHYSICAL EDUCATION FOR MEN

- FREDERICK W. COZENS, M.A., Assistant Professor of Physical Education.
  - ALBERT W. DOWDEN, A.B., Associate in Physical Education.
  - JAMES J. CLINE, A.B., Associate in Physical Education.
  - HARRY TROTTER, Assistant in Physical Education.
  - PAUL FRAMPTON, Assistant in Physical Education.
- 
- WILLIAM J. NORRIS, M.D., Physician for Men.
  - E. R. WARE, M.D., Assistant Physician for Men.

### 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.

*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.

*Physical Tests.*—Male students in the College of Letters and Science taking required physical education must pass a series of practical physical tests (see announcement on bulletin board in the Men's Gymnasium). 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 qualified for the athletic division may take regular work in any type of sport offered in a particular semester. Men failing so to qualify but not found defective in any essentials of health or bodily conformation will be assigned to work adapted to their special needs. 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 ( $\frac{1}{2}$  unit credit per semester).

*Majors in the Teachers College.*—Men whose major is physical education should consult the suggested schedules for Physical Education under the heading Curricula—The Teachers College in this announcement.

Notices concerning all phases of the work of the department will be posted on the bulletin board of the Men's Gymnasium and should be read carefully by all.

- 1. Hygiene. (1) Either semester. (Credit A, B) S, 8. NORRIS
- 1A-B-C-D. Gymnastics. (1) Either semester. (Credit A, B) FRAMPTON *staff*
- 2A-B-C-D. Special Gymnastics. (1) Either semester. (Credit A, B)  
Corrective gymnastics. DOWDEN *staff*
- 3A-B-C-D. Track. (1) Either semester. (Credit A, B) COZENS, TROTTER
- 4B-D. Baseball. (1) II. (Credit A, B) COZENS  
Open to men enrolled on the varsity or freshman squads.
- 5A-B-CD. Basket-ball. (1) Either semester. (Credit A, B) DOWDEN  
Men must have passed physical tests in order to enroll in this work.
- ~~6A-B-C-D. Tennis (1/2) (Credit A, B)~~
- ~~7A-B-C-D. Tennis (1) Either semester. (Credit A, B)~~  
All men enrolled in tennis must pass the tests of the department.
- 7A-B-C-D. Boxing. (1) Either semester. (Credit A, B) DOWDEN, CLINE
- 8A-B-C-D. Wrestling. (1) Either semester. (Credit A, B) CLINE
- 10A-B-C-D. Swimming. (1) Either semester. (Credit A, B) DOWDEN
- 13A-C. American Football. (1) I. (Credit A, B)  
CLINE, COZENS, DOWDEN, TROTTER  
Open to men enrolled on the varsity or freshman squads.
- 15A-B-C-D. Handball. (1) Either semester. (Credit A, B) COZENS  
~~Open to fourth semester men who have passed tests.~~  
Tournaments under supervision. Classes limited to 16 men.
- 29A-B-C-D. Practice in Athletic Activities. (1-1) Yr. (Credit B) COZENS  
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) COZENS  
Required of physical education majors in their third and fourth years of work.
- 70. Theories of Play, School and Playground Games. (2) II. COZENS (Credit B)
- 155A-155B. Methods and Practice in Teaching Gymnasium Activities and Elementary School Sports. (2-2) Yr. (Credit B) DOWDEN  
Prerequisite: 1A, 7A, 8A.
- 156A-156B. Methods and practice in Coaching Athletics. (2-2) Yr. (Credit B) COZENS, DOWDEN  
Prerequisite: 3A, 4A, 5A, 13A, 30AB.

\* Not to be given, 1923-24.

149 Kinesiology (2) I  
150 B (PEW.) (3) I  
151 A-B (3-3) Yr  
Miss Jameson  
" Atkinson  
" Close

## PHYSICAL EDUCATION FOR WOMEN

- RUTH V. ATKINSON, B.S., Director of Physical Education for Women.
- LUCILE P. GRUNEWALD, B.S., Associate in Physical Education.
- DOROTHY S. GIBLING, A.B., Associate in Physical Education.
- BERTHA HALL, Associate in Physical Education.
- EMILY D. JAMESON, A.B., Associate in Physical Education.
- BELLE H. BARRY, B.S., Associate in Physical Education.
- CORA E. ECKERT, A.B., M.A., Associate in Physical Education.
- EDITH HARSHBERGER, A.B., Associate in Physical Education.
- MARION SHEPARD, A.B., Associate in Physical Education.
- EFFIE SHAMBAUGH, Associate in Physical Education.
- FLORENCE E. SUTTON, Associate in Physical Education.
- INA THACH, Associate in Physical Education.
- KATHERINE CLOSE, M.D., Lecturer in Hygiene.

-- LILLIAN BAY TITCOMB, M.D., Physician for Women.  
 RUBY I. McLEAN, R.N., Nurse. *Miss McLean*

- x* 2. Hygiene. (2) Either semester. (Credit A, B) M F, 1. TITCOMB
- x* 5. First Aid (1) (Credit B) II *McLean*
- x* 10. Physical Education. (2) Either semester. (Credit B) JAMESON, S
- x* 10C Dancing (For Art students) (2) (Credit B) II *McLean*
- x* 11. Physical Education. (2) Either semester. (Credit B) JAMESON, SHEPARD,
- x* 12A-12B. Physical Education. (2-2) ~~II~~ (1-II) II (Credit B) HALL  
 Kindergarten-Primary Courses.
- ~~21. Special Methods. (2) II (Credit B) Tu W Th, 9. JAMESON~~
- x* 52A-52B. Prescribed Courses for Freshmen. (1-1) *either year* (Credit A)  
 HARSHBERGER, THACH, ECKERT, GIBLING  
 Required of all students not enrolled in 53A-53B during the first year.
- x* 52C-52D. Prescribed Courses for Sophomores. (1-1) *either year* Fr. (Credit A)  
 HARSHBERGER, THACH, ECKERT, GIBLING, SHAMBAUGH  
 Required of all students not enrolled in 53C-53D during the second year.

year.

*x* 52AB  
*x* 52CD

(1) I  
 (1) II

*Gibling*  
*Gibling*



Announcements Courses

127

x 53 of

53A-53B. Corrective or Restrictive Gymnastics. (1-1) ~~Yr.~~ *either semester* (Credit A, B)  
GRUNEWALD and STAFF  
Required instruction in 53A-52B of first-year students whose  
medical and physical examination indicates the need of corrective  
or restrictive gymnastics.

x 53 of

53C-53D. Corrective or Restrictive Gymnastics. (1-1) ~~Yr.~~ *either semester* (Credit A, B)  
GRUNEWALD and STAFF  
Required instruction in courses 52C-52D of second-year students whose  
medical and physical examination indicates the need of corrective  
or restrictive gymnastics.

54. Physical Education. (2) II. (Credit B) Tu Th, 2.  
Site: Psychology 2.

*JAMESON*  
~~HALL~~

55. Folk Dancing. (1-1) ~~Yr.~~ *either semester* (Credit A, B)

TEACH, ECKERT, SHAMBAUGH *Mary*

56. Rhythmic Dancing. (1-1) ~~Yr.~~ (Credit A, B)

57. Natural Dancing (1/2) (Credit B) *either semester*

TEACH, HALL *Mary*

58A-58B. Rhythmic Dancing. (1-1) ~~Yr.~~ (Credit B)

M W F, 3; M, 4.

59A-59B. Gymnastics. (1-1) ~~Yr.~~ (Credit A, B)

HARSHBERGER

60. Gymnastics (1/2) (Credit B) ~~Yr.~~

61A-61B. Plays and Games. (1-1) Yr. (Credit B) GRUNEWALD, HALL

I. Tu Th, 10. II. Tu Th, 1.

62. Athletic Games (1/2) (Credit B) *Grunewald*

63A-B-C-D. Athletics. (1) Either semester. (Credit B)

GIBLING, SHEPARD, SHAMBAUGH, ECKERT, HALL, *Staff*

64. Tennis. (1) Either semester. (Credit A, B)

SUTTON, ECKERT, SHAMBAUGH, ~~SHEPARD~~

65. Swimming. (1) Either semester. (Credit A, B)

GIBLING, ECKERT, SHEPARD, SHAMBAUGH

66. First Aid. (1) II. (Credit A, B) M F, 1.

MOLAN

67. Special Methods. (2) I. (Credit B) Tu Th F, 11. HARSHBERGER

68. Kinesiology. (2) I. (Credit B) Tu Th, 8.

JAMESON

70 (1st 2nd) (2) II *Coyne*

*Announcement of the Southern Branch*

- ✓ 173A-173B. Athletics. (1-1) Yr. (Credit B) M W F, 8. GIBLING
- ✓ 174A-174B. Athletics. (1-1) Yr. (Credit B) M W F, 8. GIBLING
- ✓ 180A-180B. Principles and Administration of Physical Education. (2-3)  
 (Credit B) M W F, 11. *Johnson*  
 Prerequisite: Psychology 2, 30; Physical Education 21, 121.
- ✓ 182A-182B. Therapeutic Gymnastics. (3-3) ~~Est.~~ (Credit B)  
 I. Tu Th, 10. II. M W F, 11. GRUNEWALD  
 Clinic hours to be arranged.  
 Prerequisite: Physical Education 149.
- ✓ 190A-190B. Physiology. (3-3) Yr. (Credit B) M W F, 8. CLOSE  
 Prerequisite: Zoology 1A, Chemistry 2B.
- ✓ 192A-192B. Normal Diagnosis. (3-3) Yr. (Credit B) CLOSE  
 M W F, 10.  
 Prerequisite: Physical Education 190A-190B.

## PHYSICS

- JOHN MEAD ADAMS, Ph.D., Associate Professor of Physics.
- LAUBENCE ELLSWORTH DODD, Ph.D., Assistant Professor of Physics.
- HIRAM W. EDWARDS, Ph.D., Assistant Professor of Physics.
- VERN O. KNUDSEN, Ph.D., Assistant Professor of Physics.
- J. W. ELLIS, Ph.D., Instructor in Physics.
- \* ARTHUR H. WARNER, A.B., B.S., Associate in Physics.
- FRED L. POOLE, B.S., Associate in Physics.
- LEO P. DELSASSO, Assistant in Physics.
- JOHN D. ELDER, Assistant in Physics.
- HOWARD F. CHRISTENSON, Assistant in Physics.

*Laboratory Deposits and Fees.*—The deposit for laboratory courses 1A-1B, 3A-3B, 4A-4B, 11, is at the rate of \$5 per half-year for each laboratory exercise a week; for courses 3C-3D, \$10. The fees are: for 1A-1B, 3A-3B, 4A-4B, \$4 per half-year; for 3C-3D, \$8 per half-year; and for other laboratory courses \$3 per half-year.

## PREPARATION FOR THE MAJOR

Required: Physics 1A-1B, 4A-4B, or 2A-2B, 3C-3D; Mathematics C, 3A-3B; Chemistry 1A-1B.

Recommended: French or German.

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) ADAMS and STAFF  
Lectures, Tu Th, 11; Tu Th, 1. Quiz and laboratory, 3 hours.  
Mechanics, sound, and heat. For students in engineering and architecture only.
- ✓ 2A-2B. General Physics. (3-3) Yr. (Credit A, B) EDWARDS, ELDER  
Lectures, M W, 11; quiz, 1 hour.  
Mechanics, sound, heat, light, electricity. For premedical students, open to other students who are taking Physics 3A-3B.

\* Absent on leave, 1923-24.

- ✓ 3A-3B. Physical Measurements. (1-1) Yr. (Credit A, B) EDWARDS, ELDER  
For premedical students, open to other students who are taking  
Physics 2A-2B.
- ✓ 3C-3D. Physical Measurements. (2-2) Yr. (Credit A)  
For students majoring in physics.
- ✓ 4A-4B. General Physics. (3-3) Yr. (Credit A) ADAMS, DODD, ~~POSS~~  
Lectures, Tu Th, 8; laboratory, 3 hours.  
Electricity and light. For students in engineering.  
Prerequisite: Physics 1A-1B.
- ✓ 5. Electrodynamics. (3) II. (Credit A) KNUDSEN  
Preparatory to courses in electrical engineering.  
Prerequisite: Physics 4A, Mathematics 4A.
- ✓ 11. General Physics. (3) I. (Credit B) DODD  
Mechanics, sound, heat, light, electricity, with special attention to  
applications of physics in the household. Intended primarily for  
students in home economics.
- ✓ 12. The Physical Basis of Music. (2) II. (Credit A, B) DODD  
Lectures and experimental demonstrations.
- ✓ 105A-105B. Analytic Mechanics. (3-3) Yr. (Credit A) EDWARDS *elder*  
Prerequisite: a course in physics, and a course in the differential  
and integral calculus. The statics and the dynamics of particles and  
rigid bodies.
- ✓ 108A. Physical Optics. (2) I. (Credit A) DODD  
Prerequisite: Course 2A-2B or Course 4B, and a course in the differ-  
ential and integral calculus. Lectures and reading on selected topics  
in light.
- ✓ 110A-110B. Electricity. (2-2) Yr. (Credit A) KNUDSEN  
Prerequisite: Physics 2A-2B or 4A, and a course in the differential  
and integral calculus. Elementary mathematical theory of electricity  
and magnetism.
- ✓ 111. Modern Physics: methods, results, and interpretations. (2) II.  
(Credit A, B) ADAMS  
Prerequisite: a course in general physics, and a course in the  
differential and integral calculus. A general view of the progress  
of physics in the last twenty-five years. Lectures and reading.

## POLITICAL SCIENCE

- CHARLES E. MARTIN, Ph.D., Associate Professor of Government.
- WILLIAM H. GEORGE, Ph.D., Instructor in Government.
- CLARENCE A. DYKSTRA, A.B., Lecturer in Government.
- MARSHALL FRANCIS MCCOMB, A.B., LL.B., Lecturer in Law.

## PREPARATION FOR THE MAJOR

Students who desire to make political science their major subject in the upper division must take courses 1A, 1B, and either Economics 1A-1B or History 4A-4B.

## THE MAJOR

Candidates for the bachelor's degree at Berkeley with political science as a major must offer at least 24 units in upper division courses, not more than 6 of which may be taken in some other department.

Instruction in the department falls into four main groups: I. Political Theory; II. International Relations; III. National Government; IV. Municipal and Local Government. Programmes at Berkeley must include 9 units in one of the main groups and at least 3 in each of the others. Courses in political theory and American government are required. The 24 major units should be evenly distributed through the junior and senior years.

Jurisprudence forms a separate section under the Political Science Department.

- ✓ 1A-1B. Government. (3-3) Yr. (Credit A, B) M W F, 10.

MARTIN, GEORGE

This course satisfies the State requirement for instruction in the Constitution of the United States.

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*Group I.—Political Theory*

- ✓ 11. The Principles and Problems of Politics. (3) I. (Credit A, B) GEORGE
- ✓ 13. The Problems of Democracy. (3) II. (Credit A, B) GEORGE
- ✓ 112A-112B. Evolution of Government and Political Ideas. (3-3) Yr. GEORGE  
(Credit A, B)

## Group II.—International Relations

✓ 25A-25B. Foreign Relations of the United States. (3-3) Yr. (Credit A, B) M W F, 11. MARTIN

~~27. The Government of Dependencies. (3) I. (Credit A, B) MARTIN~~

## Group III.—National Government

✓ 50. American Government. (3) Either semester. (Credit A, B)  
Tu Th S, 9. DYKSTRA  
Required of students in the Teachers College.

✓ 53. Evolution and Meaning of the American Constitutional System. (2)  
Either semester. (Credit A, B) McCOMB

Not open to freshmen.

✓ 151. American Government. (3) Either semester. (Credit A, B)  
DYKSTRA

Prerequisite: Political Science 1A-1B.

~~152. American Political Parties and Party Issues. (3) I. (Credit A, B)  
Tu Th S, 8. DYKSTRA~~

✓ 156. Principles of Public Administration. (2) II (Credit A, B) MARTIN *syland*

✓ 158A-158B. Latin-American Governments and Political Institutions. (2)  
Yr. (Credit A, B) LOCKEY

## Group IV.—Municipal and Local Government

~~171. State Government. (3) II. (Credit A, B) Tu Th S, 8. DYKSTRA~~

✓ 162. The Government of Cities. (2) I. (Credit A, B) DYKSTRA

## JURISPRUDENCE

✓ 10A-10B. Elementary Law. (3-3) Yr. (Credit A, B) McCOMB  
M W F, 8.

~~18A-18B. Commercial Law. (2-2) Yr. (Credit A, B) Tu Th, 8. McCOMB~~

~~30A-30B. International Law. (3-3) Yr. (Credit A, B) MARTIN  
M W F, 8.~~

~~38A-38B. Advanced Commercial Law. (2-2) Yr. (Credit A, B)~~

✓ 130B International Law (Credit A, B) 3 un. *Martin*

\* Not to be given 1923-24.

53 + 101 are the same course but numbered differently for the 2 semesters.

**ROMANIC LANGUAGES**

- HENRY RAYMOND BRUSH, Ph.D., Professor of Romance Language.
- S. L. MILLARD ROSENBERG, Ph.D., Assistant Professor of Spanish.
- ALEXANDER GREEN FITE, Ph.D., Assistant Professor of French.
- NEMOURS HONORE CLEMENT, Ph.D., Assistant Professor of Romance Languages.
- MARIA LOPEZ DELOWTHER, M.A., Lecturer in Spanish.
- FREDERICK E. BECKMAN, Ph.D., Associate in Romance Languages.
- MADELEINE M. L. LETESSIER, A.B., Associate in French.
- EVELYN LESSLIE LOUGHEAD, A.M., Associate in French and Spanish.
- ALICE HUBARD, Associate in French and Spanish.
- A. G. W. CERF, M.A., Litt.D., Honorary Lecturer in French.
- ADOLFO JORDÁ, Lic. en Fil. y Letras, Instructor in Spanish.

**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.

**THE MAJOR**

The requirements for the major at Berkeley are French 101A-101B, 109A-109B, 112A-112B.

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, Spanish, Italian, Latin or Philosophy.

**ASSIGNMENT TO 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 semester. (Credit A, B) The STAFF  
M Tu F Th F, 8; M Tu W Th F, 10; M Tu W Th F, 12; M Tu  
W Th F, 3.

## Announcement of the Southern Branch

- ✓ B. Elementary French. (5) Either semester. (Credit A, B) The STAFF  
M Tu W Th F, 8; M Tu W Th F, 10; M Tu W Th F, 12; M Tu  
W Th F, 3.  
Prerequisite: Course A or one year of high school French.
- ✓ C. Intermediate French. (3) Either semester. (Credit A, B) *staff*  
Tu Th S, 9; M W F, 2. CLEMENT in Charge  
Prerequisite: Course B or two years of high school French.
- ✓ D. Intermediate French. (3) Either semester. (Credit A, B) *staff*  
Tu Th S, 9; Tu Th S, 11; M W F, 2. CLEMENT in Charge  
Prerequisite: Course C or three years of high school French.
- ✓ 1A-1B. Intermediate French. (3-3) Yr. (Credit A, B) FITE  
Prerequisite: Course B with grade A or B. 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) ~~BRUSH~~ LETESSIER *Clement*  
Thorough review of the essentials of grammar; composition and  
reading of modern French authors.  
Prerequisite: Course D or 1B, or four years of high school French.
- ✓ 6A-6B. Scientific and Technical French. (2-2) Yr. (Credit A, B)  
*Simpson* BRUSH
- ✓ 101A-101B. Composition, Oral and Written. (3-3) Yr. (Credit A, B)  
CLEMENT  
Prerequisite: Courses 1A-1B or C and D with grade of A or B;  
otherwise 5A-5B.
- ✓ 107A-107B. Typical Comedies as Documents of Spoken French. (2-2)  
Yr. (Credit A, B) FITE  
Prerequisite: an average grade in French courses higher than C.
- ✓ 109A-109B. A Survey of French Literature and Culture. (3-3) Yr.  
(Credit A, B) BRUSH  
From the seventeenth century to the present time.
- ✓ 112A-112B. The Nineteenth Century. (2-2) Yr. (Credit A, B) BRUSH  
A. From Chateaubriand to Balzac; B. From Balzac to Anatole  
France.
- ✓ 190. Course for Teachers. (2) Either semester. (Credit B) BRUSH, ~~FITE~~  
Prerequisite: 16 units of freshman and sophomore work, or equivalent,  
and French 101A-101B.



## 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 other Romanic languages and European History. (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.

The prerequisites for the various lower division courses are listed under these courses. Students whose record in high school 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

The required courses at Berkeley are 101A-101B, 106A-106B, and 107A-107B. The remaining 8 units may include not less than 6 units of upper division work in either French, Italian or Latin or may be made up from any two of the following year-courses: Spanish 103, 104, 105, and 110.

The department recommends supplementary choice of electives from the following: history of country or countries related to the major; Latin; related literature courses; English; history of philosophy; German; Greek.

✓ A. Elementary Spanish. (5) Either semester. (Credit A, B)

ROSENBERG in Charge

M Tu W Th F, '9; M Tu W Th F, 10; M Tu W Th F, 11; M Tu W Th F, 2.

The equivalent of the high school course in elementary Spanish. Students who complete A after having one year of Spanish in high school will receive two units in addition to their matriculation credit.

✓ B. Elementary Spanish. (5) Either semester. (Credit A, B)

ROSENBERG in Charge

M Tu W Th F, 9; M Tu W Th F, 10; M Tu W Th F, 11; M Tu W Th F, 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 semester. (Credit A, B)  
 Tu Th S, 10; M W F, 3. ROSENBERG in Charge  
 Prerequisite: Course B or three years of high school Spanish, or  
 the equivalent. The equivalent of the high school course in advanced  
 Spanish.

✓ D. Intermediate Spanish. (3) Either semester. (Credit A, B)  
 Tu Th S, 10; M W F, 3. ROSENBERG in Charge.

✓ 25A-25B. Commercial Spanish. (3-3) Yr. (Credit A) BECKMAN  
 For students in the Department of Commerce only.  
 Prerequisite: Courses A and B or their equivalents.

✗ 50A-50B. Conversation and Composition. (3-3) Yr. (Credit A, B)  
<sup>Jordan</sup> ~~LOWTHER~~  
 For lower division students only who have had C-D or four years  
 of high school Spanish. Designed especially for Spanish majors.  
 Grade A, B, C, or equivalent in previous language work.

✗ 53A-53B. Advanced Spanish. (3-3) Yr. (Credit A, B) ROSENBERG  
 Prerequisite: Course D or four years of high school Spanish or  
 an equivalent. Advanced reading in modern Spanish; conversation  
 and composition associated with reading.

✓ 101A-101B. Advanced Conversation and Composition. (3-3) Yr.  
 (Credit A, B) LOWTHER  
 Prerequisite: the equivalent of 16 lower division units. A required  
 course for the major.

✓ 104A-104B. Spanish-American Literature. (3-3) Yr. (Credit A, B)  
 LOWTHER  
 Prerequisite: the equivalent of courses C, D, or four years of high  
 school Spanish or an examination. A study of the principal authors  
 of Hispano-America. Lectures and reading.

✓ 105A-105B. Modern Drama. (2-2) Yr. (Credit A, B) ROSENBERG  
 A study of the plays of Echegaray, Perez Galdos, Benavente, los  
 Quinteros, Martinez Sierra, etc. Prerequisite: the same as for 104A-104B.

✓ 190. Course for Teachers. (2) Either semester. (Credit B)  
 ROSENBERG, ~~LOWTHER~~  
 Prerequisite: Spanish 51A-51B, 53A-53B.

50AB + 53AB are not duplicate courses. v. Courses Office  
 Rules + Procedure. 2-11-25.

50AB duplicates 5AB (1922-23)

**TRAINING DEPARTMENT**

**STAFF IN SOUTHERN BRANCH TRAINING SCHOOL**

**CHARLES WILKIN WADDLE, Ph.D.**, Professor of Education and Director of the Training Schools.

**THOMAS E. THOMPSON, A.B.**, Assistant Supervisor of Training and Vice-Principal of the Junior High School.

**ETHEL I. SALISBURY, M.A.**, Assistant Supervisor of Training and Associate Professor of Elementary Education.

**FRANCES GIDDINGS, A.B.**, Supervisor of Training.

**BERTHA E. WELLS**, Assistant Supervisor of Training.

**KATHERINE SPIERS, M.A.**, Assistant Supervisor of Training.

**ALMA BARNETT SAWYER, M.A.**, Assistant Supervisor of Training.

**MADELINE CROWELL, B.S.**, Training Teacher in Home Economics.

**MARGARET M. CAMPBELL, M.A.**, Training Teacher in Mathematics.

**KATHERINE KAHLEY, A.B.**, Training Teacher in Social Sciences.

**MABEL C. JACKSON, M.A.**, Training Teacher in English.

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**ELIZABETH BRUENE**, School Counselor.

**BLANCHE KELLS**, Training Teacher in Physical Education.

**WILBUR C. JOHNS**, Assistant in Physical Education.

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The work is done under the direction of the Director of the Training Schools and a corps of assistant supervisors and training teachers.

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- ✓ 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)
- ✓ A190B. Elementary Art Teaching. (3)
- ✓ A191A. Junior High School Art Teaching. (4)
- ✓ A191B. Junior High School Teaching. (3)
- ✓ A192. Secondary Art Teaching. (4)
- ✓ C192A. Secondary Commerce Teaching. (5)
- ✓ C192B. Secondary Commerce Teaching. (5)

\* Credit B. All courses offered either semester.

- ✓ H190A. Elementary Home Economics Teaching. (2)
- ✓ H190B. Elementary Home Economics Teaching. (2)
- ✓ H191A. 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)
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- ✓ 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)
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**ELECTIVE TEACHING**

- ✓ When elective teaching is taken it is to be designated as Teaching 195.

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