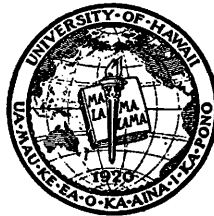


UNIVERSITY OF HAWAII
QUARTERLY BULLETIN

VOLUME VII

NUMBER 2

CATALOGUE
AND
ANNOUNCEMENT
OF COURSES
1928-1929



MAY, 1928

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UNIVERSITY OF HAWAII
Honolulu

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HONOLULU STAR-BULLETIN, LTD.

CALENDAR

1928-1929

1928

June 4	Seventeenth Annual Commencement	Monday
July 2	Summer Session begins.	Monday
September 1	Last day for receiving applications for admission.	
September 4-8	"Freshman Week."	Saturday
September 10-11	Registration, Twenty-first Annual Session.	Tues.-Sat.
September 12	Instruction begins.	Mon.-Tues.
October 1	Last day for receiving applications from candidates for advanced degrees.	Wednesday
November 11	Armistice Day.	Monday
Nov. 29-Dec. 1	Thanksgiving Recess.	Sunday (celebrated Mon.)
December 24	Christmas Recess begins.	Thurs.-Sat.
		Monday

1929

January 7	Work resumed.	Monday
January 21-26	Mid-year examinations.	Mon.-Sat.
January 29	Registration, Second Semester.	Tuesday
February 22	Washington's Birthday.	Friday
March 29-30	Good Friday Recess.	Fri.-Sat.
April 15	Last day for receiving requests for examinations for advanced degrees.	
May 3	Seventh Annual Contest for Berndt Prize.	Monday
May 25-June 1	Final Examinations.	Friday
June 3	Eighteenth Annual Commencement.	Sat.-Sat.
August 31	Last day for receiving applications for admission.	Monday
September 3-7	"Freshman Week."	Saturday
September 9-10	Registration, Twenty-second Annual Session.	Tues.-Sat.
		Mon.-Tues.

GENERAL INFORMATION

LOCATION.—The University is located about three miles from the business center of Honolulu, in Manoa Valley, overlooking Waikiki Beach, which is about two miles distant.

CURRICULUM.—The University offers courses in the arts and sciences, education, commerce, agriculture, engineering, sugar technology and home economics. Evening courses are offered.

SEMESTERS.—The University year is divided into two semesters of 18 weeks each and a summer session of six weeks. The first semester of the next University year is from September 10 to January 26, the second semester from January 29 to June 3, and the 1928 summer session is from July 2 to August 10.

CREDITS.—One unit of credit represents one lecture or laboratory period per week throughout the semester, or three per week throughout the summer session. Grade points are determined by the grade of the student's work in each course.

ADMISSION.—Only candidates who offer 15 acceptable units of high school work with a good average grade, or the equivalent, are admitted. Applications should be sent in early in the summer, before June 30 if possible.

FRESHMAN WEEK.—Every Freshman is expected to be at the University during "Freshman Week," September 4-8. Entrance examinations, consultations with officers and instructors, and introductory lectures occupy the "week."

DISBURSEMENT OF FUNDS.—All disbursement of funds appropriated by the Territorial Legislature of Hawaii for the support of the University is by the territorial treasurer upon warrants issued by the territorial auditor, upon vouchers approved by the board of regents.

Funds received by the University from other sources, except from the federal government, are turned into the territorial treasury and disbursed in the same manner as appropriated funds.

The University of Hawaii is a Land Grant College and, therefore, receives annually \$50,000 from the federal government. This money is disbursed by the Bank of Bishop & Co., Ltd., upon vouchers approved by the board of regents.

CHARTER.—The University of Hawaii was established by enactment of the Territorial Legislature. The charter is published in Revised Laws of Hawaii, 1925, Chapter 33, Sections 409-411.

BOARD OF REGENTS is composed of seven members, five of whom are appointed by the Governor of Hawaii for a term of five years, and two are ex-officio, the President of the Board of Agriculture and Forestry and the President of the University.

THE BOARD OF REGENTS

CHARLES R. HEMENWAY, *Chairman*

DAVID L. CRAWFORD, *Secretary*

REV. AKAIKO AKANA

GEORGE H BROWN

DR. CHARLES B. COOPER

MARY DILLINGHAM FREAR

ARTHUR G. SMITH

OFFICERS OF THE UNIVERSITY

President, David L. Crawford, B. A., M. A.
Dean of the College of Applied Science, Arthur R. Keller, C. E., LL. B.,
S. M. C. E., M. S.
Dean of the College of Arts and Sciences, Arthur L. Andrews, B. L.,
M. L., Ph. D., L. H. D.
Dean of Women, Mrs. Dora S. Lewis, B. S., M. A.
Director of the Summer Session, Thayne M. Livesay, A. B., A. M.
Director of Agricultural Extension, Merlyn D. L. Forbes, B. S.
Treasurer, Gerald R. Kinnear, A. B., M. B. A.
Registrar, Helen B. MacNeil, A. B.
Librarian, Clara F. Hemenway.
Superintendent of Buildings and Grounds, Allan B. Bush.
Superintendent of Aquarium, Frederick A. Potter.
Superintendent of University Farm, Noah Pekelo.
Superintendent of Waiakea Experiment Station, Robert Pahau, B. S.
Superintendent of Cafeteria, Mrs. Julia Mabel Coxhead.

COMMITTEES OF THE FACULTY

Faculty Council

Ex-Officio

David L. Crawford, Chairman
Arthur R. Keller
Arthur L. Andrews
Harold S. Palmer

Elected

Romanzo Adams
Frank T. Dillingham
John S. Donaghho
Charles H. Edmondson
Paul Kirkpatrick

Helen B. MacNeil, Secretary

Standing Committees

1928-1929

Admission.—T. M. Livesay (Chairman), A. R. Keller, A. L. Andrews,
T. A. Bailey, H. B. MacNeil.
Curriculum.—A. L. Andrews (Chairman), A. R. Keller, L. A. Henke,
T. M. Livesay, H. B. MacNeil.
Discipline.—Romanzo Adams (Chairman), A. G. Clarke, E. C. Webster,
E. M. Bilger, Floralyn Cadwell.
Graduate Study.—H. S. Palmer (Chairman), F. T. Dillingham, P. S.
Bachman.
Physical Education and Military Science.—A. G. Clarke (Chairman),
A. R. Keller, Otto Klum.
Research.—Dr. A. L. Dean (Chairman), C. H. Edmondson, H. S. Pal-
mer.

THE FACULTY

AGRICULTURE:—

LOUIS A. HENKE, M. S., *Professor of Agriculture*, (1916).*

B. S., University of Wisconsin, 1912; M. S., University of Wisconsin, 1923.

2657 Terrace Drive.

FREDERICK G. KRAUSS, D. Sc., *Professor of Agronomy*, (1921).

Professor of Agriculture, College of Hawaii, 1910-1914; Agronomist, Hawaii Experiment Station, 1914-1921; Honorary D. Sc., University of Hawaii, 1923.

2447 Parker St.

CHARLES M. BICE, B. S., *Instructor in Poultry Husbandry*, (1927).

B. S., University of Wisconsin, 1927.

2159 Atherton Road.

JAMES S. LOW, B. S., *Assistant in Agriculture*, (1926).

B. S., University of Hawaii, 1926.

2236 Young Street.

ANTHROPOLOGY:—

FREDERIC WOOD-JONES, D. Sc., *Professor of Physical Anthropology*, (1927).

B. Sc., London, 1903; M. B. B. S., London, M. R. C. S., L. R. C. P., 1904; D. Sc., London, 1910; D. Sc., Adelaide, 1920; F. R. S., 1925.

2231 Hyde Street.

ART:—

LOUISE PINKNEY SOOY, *Professor of Art and Design*, (1927).

Graduate Teachers' College, Columbia University; On leave from University of California at Los Angeles.

Box 2455, Honolulu.

HUC-MAZELET LUQUIENS, B. F. A., *Instructor in Art*, (1924).

B. A., Yale, 1902; B. F. A., Yale, 1908.

1646 Bingham St.

BOTANY:—

HERBERT F. BERGMAN, Ph. D., *Professor of Botany*, (1919).

B. S., Kansas Agricultural College, 1905; M. S., University of Minnesota, 1915; Ph. D., University of Minnesota, 1918.

2819 Kahawai St.

ROSS S. BEAN, B. S., *Instructor in Botany*, (1927).

B. S., Brigham Young University, Utah, 1921; Graduate work University of California, 1925-1927.

1527-G Makiki St.

* Indicates date of appointment on the Faculty of the University of Hawaii.

CHEMISTRY AND SUGAR TECHNOLOGY:—

FRANK T. DILLINGHAM, M. A., *Professor of Chemistry and Sugar Technology, (1909).*

B. S., Worcester Polytechnic Institute, 1901; M. A., Yale, 1916.
Fellow in Plant Nutrition, University of California, 1922-1923.
2562 Jones St.

RICHARD WRENSHALL, Ph. D., *Professor of Chemistry, (1919).*

Ph. B., Yale, 1911; Ph. D., Yale, 1915.

EARL M. BILGER, Ph. D., *Assistant Professor of Chemistry, (1925).*

B. S., Wesleyan University, 1920; M. A., Wesleyan University,
1921; Ph. D., Yale, 1925.

Men's Dormitory.

W. R. McALLEP, Lecturer on Sugar Manufacture, (1919).

Sugar Technologist, H. S. P. A., Experiment Station, Honolulu.
2031 Vancouver Highway.

GIICHI FUJIMOTO, M. S., *Instructor in Chemistry, (1921).*

B. S., University of Hawaii, 1921; M. S., University of Hawaii,
1923; Asst. Chemist for Territorial Board of Health.

1524 Farrington St.

CHINESE:—

SHAO CHANG LEE, M. A., *Professor of Chinese Language and History, (1922).*

Graduate Canton Christian College, Canton, China, 1911; Grad-
uate Tsing Hua College, Peking, China, 1913; A. B., Yale, 1917;
M. A., Columbia, 1918.

Absent on leave, first semester.

ECONOMICS AND COMMERCE:—

CHARLES N. REYNOLDS, Ph. D., *Professor of Economics, (1927).*

A. B., University of Oregon, 1913; M. A., University of Oregon,
1922; Ph. D., Stanford University, 1927.

200 Dewey Ave.

MATTHEW M. GRAHAM, C. P. A., *Professor of Accountancy, (1927).*

C. A., Institute of Accountants and Actuaries, Glasgow, Scot-
land, 1906; C. P. A., Territorial Board of Accountancy; In-
structor, University of Hawaii, 1924-1925; Comptroller, Alex-
ander Young Hotel Company, Honolulu.

2646 Oahu Ave.

BEN DORFMAN, M. A., *Instructor in Commerce, (1927).*

A. B., Reed College, 1924; M. A., University of California, 1927.

Men's Dormitory.

EDUCATION:—

THAYNE M. LIVESAY, M. A., *Professor of Education and Psy-
chology, (1924).*

A. B., Pacific University, 1917; A. M., University of Washing-
ton, 1921; Graduate work Stanford, 1921-1924.

2423 Koa Ave.

FRED E. ARMSTRONG, M. S., *Professor of Agricultural Education*, (1926).

B. S., Clemson College, 1916; M. S., University of Minnesota, 1921.

2212 Hunnewell Place.

ENGINEERING:—

ARTHUR R. KELLER, M. S., *Professor of Engineering and Dean of College of Applied Science*, (1909).

C. E., Cornell, 1903; LL. B., National University, 1906; S. M. C. E., Harvard, 1916; M. S., Massachusetts Institute of Technology, 1916.

2456 Oahu Ave.

JOHN MASON YOUNG, M. M. E., *Professor of Engineering*, (1908).

B. S., University of Florida, 1898; M. E., Cornell, 1902; M. M. E., Cornell, 1904. President, Pacific Engineering Co., Honolulu.

945 Alewa Drive.

CARL B. ANDREWS, C. E., *Professor of Engineering*, (1920).

B. S., Rose Polytechnic Institute, 1908; M. S., Rose Polytechnic Institute, 1909; C. E., Rose Polytechnic Institute, 1917.

743 Wylie St.

ERNEST C. WEBSTER, C. E., *Professor of Engineering and Mathematics*, (1925).

Ph. B., Yale, 1904; C. E., Yale, 1906.

1836 Punahou St.

ENGLISH:—

ARTHUR L. ANDREWS, Ph. D., *Professor of English and Dean of College of Arts and Sciences*, (1910).

B. L., Cornell, 1893; M. L., Cornell, 1895; Ph. D., Cornell, 1902; L. H. D., Honorary, Tufts, 1926.

2346 Liloa Rise.

CHARLES H. NEIL, A. B., *Assistant Professor of English*, (1921).

A. B., University of South Carolina, 1903.

Absent on leave.

LAURA V. SCHWARTZ, Ph. D., *Assistant Professor of English*, (1924).

B. A., College of the Pacific, 1920; M. A., Stanford, 1921; Ph. D., Stanford, 1924.

2726 Hillside Ave.

JOHN MILTON BAKER, M. A., *Assistant Professor of English*, (1926).

A. B., Knox, 1919; Lit. B., Columbia, 1921; A. M., Harvard, 1926.

2159-B Atherton Rd.

CARL G. STROVEN, A. B., *Instructor in English*, (1927).

A. B., Stanford, 1926.

2011 Lanihuli Drive.

FLORALYN CADWELL, M. A., *Instructor in English*, (1927).

B. L., University of California, 1912; M. A., University of Hawaii, 1926; Graduate work, University of Geneva, 1926.
University of Hawaii.

HORTENSE HALLOCK, M. A., *Instructor in English*, (1927).

B. A., Elmira College, 1921; M. A., Cornell, 1922; Graduate work, Cornell, 1922-1923, 1925; Univ. of Missouri, 1923-1924.
2208 Kamehameha Ave.

ENTOMOLOGY:—

EDWIN H. BRYAN, JR., M. S., *Special Instructor in Entomology*, (1925).

B. S., University of Hawaii, 1920; Ph. B., Yale, 1921; M. S., University of Hawaii, 1924. Curator, Bishop Museum, Honolulu.
2721 Ferdinand Ave.

GEOLOGY AND GEOGRAPHY:—

HAROLD S. PALMER, Ph. D., *Professor of Geology*, (1920).

B. A., Yale, 1912; Ph. D., Yale, 1923; Graduate work, University of Vienna, 1926-1927.
1450 Kewalo St.

GERMAN:—

MARIA HÖRMANN, A. B., *Special Instructor in German Language*, (1927).

Staatsexamen für Höhere Töchter Schulen, Berlin, Germany, 1905; B. A., University of Hawaii, 1923.
1036 Green St.

HAWAIIAN:—

JOHN H. WISE, *Professor of Hawaiian Language*, (1926).

Oberlin, 1890-1893.
1910 Fort St.

HISTORY AND POLITICAL SCIENCE:—

KARL C. LEEBRICK, Ph. D., *Professor of History and Political Science*, (1920).

B. S., University of California, 1911; M. S., University of California, 1913; Ph. D., University of California, 1917.
Absent on leave.

WILLIAM H. GEORGE, Ph. D., *Professor of History and Political Science*, (1928).

A. B., Harvard, 1902; A. M., Princeton, 1906; Ph. D., Harvard, 1921. Graduate study under Dr. Duquit, University of Bordeaux.

Dole Hall, Punahou Campus.

KALFRED DIP LUM, Ph. D., *Assistant Professor of Political Science*, (1926).

B. A., University of Hawaii, 1922; A. M., Columbia University, 1923; New York University Law School, 1923-1925; Ph. D., New York University, 1926.

1947-B North King St.

PAUL S. BACHMAN, Ph. D., *Assistant Professor of History and Political Science*, (1927).

B. A., Ohio State University, 1922; M. A., University of Washington, 1924; Ph. D., University of Washington, 1927.

2562 Jones' St.

THOMAS A. BAILEY, Ph. D., *Assistant Professor of History and Political Science*, (1927).

A. B., Stanford, 1924; M. A., Stanford, 1925; Ph. D., Stanford, 1927.

2575 Jones St.

RALPH S. KUYKENDALL, M. A., *Special Instructor in History*, (1923).

A. B., College of the Pacific, 1910; M. A., University of California, 1918; Executive Secretary, Hawaiian Historical Commission, Honolulu.

1711 Clarke St.

HOME ECONOMICS:—

CAREY D. MILLER, M. S., *Assistant Professor of Food and Nutrition*, (1922).

A. B., University of California, 1917; M. S., Columbia University, 1922.

Absent on leave.

ANNA B. DAHL, *Assistant Professor of Textiles and Design*, (1917).

Formerly head of Vienna School of Costume Design, San Francisco.

2448 Manoa Road.

DORA S. LEWIS, M. A., *Assistant Professor of Home Economics and Dean of Women*, (1927).

B. S., Washington State College, 1920; M. A., Teachers College, Columbia University, 1926.

Women's Dormitory.

LILLIAN E. LARSON, *Assistant in Textiles*.

Vienna School of Costume Design, San Francisco, California, 1912-1918; Fashion Academy, San Francisco, 1924.

Women's Dormitory.

JAPANESE:—

TASUKU HARADA, D. D., LL. D., *Professor of Japanese Language and History*, (1920).

B. D., Yale, 1891; D. D., Amherst, 1910; LL. D., Edinburgh, 1910; President Doshisha University, Kyoto, Japan, 1907-1919.

1728 Rocky Hill St.

MATHEMATICS (See also Engineering):—

JOHN S. DONAGHHO, M. A., *Professor of Mathematics and Astronomy*, (1908).

A. B., Marietta, 1889; A. M., Marietta, 1897.

961 Alewa Drive.

MILITARY SCIENCE:—

ADNA G. CLARKE, LIEUT. COL., LL. B., (Retired), *Professor of Military Science and Tactics*, (1921).

LL. B., Kansas University, 1897; A. B., Kansas University, 1900; Graduate Artillery School, 1906; Distinguished Graduate School of the Line, 1913; Graduate Army Staff College, 1914.
2125 Armstrong St.

NORMAN M. NELSON, CAPTAIN, (D. O. L.), *Assistant Professor of Military Science and Tactics*, (1925).

Graduate of the Infantry School, 1924.
1638 Anapuni St.

CECIL J. GRIDLEY, CAPTAIN, (D. O. L.), *Assistant Professor of Military Science and Tactics*, (1927).

Graduate of the Infantry School, 1922.
2036 Lanihuli Drive.

PHILOSOPHY:—

LOCKWOOD MYRICK, JR., A. M., *Assistant Professor of Philosophy*, (1926).

A. B., Harvard, 1915; A. M., Harvard, 1917.
Men's Dormitory.

PHYSICAL EDUCATION:—

OTTO KLUM, *Professor of Physical Education and Director of Athletics*, (1921).

3119 Rainbow Drive.

MAY K. GAY, M. A., *Instructor in Physical Education*, (1925).

B. A., University of Hawaii, 1923; M. A., Columbia University, 1925.
1611 Keeaumoku St.

SAMUEL W. ROBLEY, *Special Instructor in Physical Education*.

Executive, Honolulu Boy Scouts.
89 South King St.

PHYSICS:—

PAUL KIRKPATRICK, Ph. D., *Professor of Physics*, (1923).

B. S., Occidental College, 1916; Ph. D., University of California, 1923.
2158 Atherton Road.

MASICK CHARLES MAGARIAN, M. A., *Instructor in Physics*, (1925).

B. S., Massachusetts Institute of Technology, 1923; M. A., Stanford, 1925.
Men's Dormitory.

IWAO MIYAKE, B. S., *Assistant in Physics*, (1927).

B. S., University of Hawaii, 1926.
Nuuanu Japanese Church, cor. Nuuanu and Kukui Sts.

POLITICAL SCIENCE (See History):—**PSYCHOLOGY (See also Education):—**

STANLEY D. PORTEUS, *Professor of Clinical Psychology*, (1922).

Lecturer Experimental Education, University of Melbourne, 1916; Research Scholar Anatomy Department, University of Melbourne, 1918; Director Research Laboratory, Vineland, N. J., 1919-1925.

2620 Anuenue St.

ROMANCE LANGUAGES (French, Spanish):—

IRVING O. PECKER, A. B., *Professor of Romance Languages*, (1919).

A. B., Boston University, 1912; Alliance Francaise, Sorbonne, Paris.

Absent on leave, first semester.

CLARENCE EDWARD PARMENTER, Ph. D., *Acting Professor of Romance Languages*.

Associate Professor of Romance Languages, University of Chicago.

MARGUERITE MCGEE, B. A., *Instructor in French and Spanish*, (1927).

B. A., Stanford, 1916; Graduate work, Stanford, 1919-1920; Centro de Estudios Historicos, Madrid; Sorbonne, Paris.

Apt. 16-A, 2189 Kalia Road.

SOCIOLOGY:—

ROMANZO ADAMS, Ph. D., *Professor of Sociology*, (1920).

A. B., University of Michigan, 1897; A. M., University of Michigan, 1898; Ph. D., University of Chicago, 1904.

2315 Lilloa Rise.

ANDREW W. LIND, A. M., *Research Assistant in Sociology*.

A. B., University of Washington, 1924; A. M., University of Washington, 1925; Graduate work, University of Chicago, 1925-1927.

2136 Kamehameha Ave.

LLOYD R. KILLAM, M. A., *Special Instructor in Sociology*.

A. B., Jewell, 1908; M. A., Brown, 1911; M. A., Columbia, 1927; Instructor, Honolulu School of Religion.

2628 East Manoa Road.

SUGAR TECHNOLOGY (See Chemistry):—**ZOOLOGY:—**

CHARLES H. EDMONDSON, Ph. D., *Professor of Zoology*, (1920).

Ph. B., University of Iowa, 1908; M. S., University of Iowa, 1904; Ph. D., University of Iowa, 1906. Zoologist, Bishop Museum, Honolulu.

2019 Vancouver Highway.

CLAIR ARTHAUD HANNUM, M. S., *Instructor in Zoology*, (1926).

B. S., University of Washington, 1923; M. S., University of Washington, 1924; Graduate work, University of Washington, 1924-1926.

Niumalu Hotel.

JENS M. OSTERGAARD, *Assistant in Zoology*, (1920).

2418 Kuhio Ave.

SUMMER SESSION, 1927

In addition to members of the University faculty, the following instructors conducted courses in the 1927 summer session of the University.

MARTIN R. ADEN, *Commercial Artist, Advertiser Publishing Co., Honolulu.*

Hopkins Institute of Art, San Francisco, 1912-1915.

CHARLES E. BANKS, *Member, Advertiser Staff. Newspaper man, novelist, and playwright.*

CATHARINE E. B. COX, A. B., *Director of the Hawaiian Academy of Arts, Honolulu.*

A. B., Bryn Mawr, 1889.

JAMES R. COXEN, M. S., *Director of Vocational Education, Territory of Hawaii.*

B. S., Kansas State Agric. College, 1907; M. S., University of Wisconsin, 1920.

WILLIAM W. KEMP, Ph. D., *Professor of Education; Dean of the School of Education, University of California.*

A. B., Stanford, 1898; Ph. D., Columbia, 1912.

TOWNE NYLANDER, A. M., *formerly Instructor in the Department of Economics, Princeton University.*

A. B., Univ. of California, 1922; A. M., Univ. of California, 1923.

EDNA J. ORR, A. M., *Home Economics, Kamehameha Schools, Honolulu.*

B. S., Illinois Wesleyan, 1919; A. M., Columbia, 1925.

WILLIS T. POPE, Sc. D., *Horticulturist, U. S. Agricultural Experiment Station, Honolulu.*

B. S., Kansas Agric. College, 1898; M. S., Univ. of California, 1916; Sc. D., Univ. of Hawaii, 1926.

WILLIAM A. SMITH, Ph. D., *Assistant Professor of Education, University of California, at Los Angeles.*

A. B., Willamette Univ.; A. M., Univ. of Washington; Ph. D., Univ. of Chicago.

ROBERT R. SPENCER, A. M., *Principal, Washington Junior High School, Honolulu.*

B. A., Univ. of Hawaii, 1923; graduate work, Stanford, 1925-1926.

LORLE S. WEEBER, Ph. D., *Psychologist, Kamehameha Schools, Honolulu; formerly Research Assistant Professor of the Iowa Child Welfare Research Station, State University of Iowa.*

A. B., Bryn Mawr, 1912; A. M., Bryn Mawr, 1913; Ph. D., Columbia, 1916.

ROSS B. WILEY, Ph. D., *Director of Education, Territorial Normal School, Honolulu.*

A. B., Oklahoma City College, 1914; A. M., Univ. of California, 1925; Ph. D., Univ. of California, 1926.

LIBRARY

CLARA F. HEMENWAY, *Librarian.* Absent on leave.

MARY P. PRINGLE, *Acting Librarian.* Pleasanton Hotel.

MARIE LAMONT BURROWS, S. B., *Associate Librarian and Cataloguer.*

S. B., Simmons College, 1915.

2458 Koa Ave.

EUPHE G. M. SHIELDS, B. A., *Library Assistant.*

B. A., University of Hawaii, 1924.

Absent on leave.

GEORGIA M. JOHNSON, *Library Assistant.*

2868 Kahawai St.

CYNTHIA BUCK GEISER, A. B., *Assistant Cataloguer.*

A. B., Western State College, Colorado, 1926.

2418 Ferdinand Ave.

KATHRYN JEANETTE MACFARLANE, *Library Assistant.*

Los Angeles Public Library School, 1923; University of California, 1923-1926.

1809 Makiki St.

ESTHER HOE STEWART, *Library Assistant.*

3142 Olu St.

CLARA W. CHUNG, M. A., *Library Assistant.*

B. A., University of Hawaii, 1925; B. S., Simmons College, 1926; M. A., Columbia, 1927.

1082 Beretania St.

EXTENSION

MERLYN D. L. FORBES, B. S., *Director of Agricultural Extension.*

B. S., University of Hawaii, 1924.

ETTA RADKE, A. B., *Assistant Director of Extension.*

A. B., University of Wisconsin, 1916.

2329 Beckwith St.

HONG CHANG WONG, B. S., *Extension Agent.*

B. S., University of Hawaii, 1927.

1918 Fort St.

PSYCHOLOGICAL CLINIC**STANLEY D. PORTEUS, Director.**

Lecturer, Experimental Education, University of Melbourne, 1916; Research Scholar Anatomy Department, University of Melbourne; Director Research Laboratory, Vineland, N. J., 1919-1925.

2620 Anuenue St.

MARJORIE ELIZABETH BABCOCK, M. A., Assistant Psychologist.B. A., Wells College, 1919; M. A., University of Hawaii, 1927.
University of Hawaii.**ROBERT G. BERNREUTER, A. B., Research Assistant.**

A. B., College of the Pacific, 1924.

147 Liliuokalani Ave.

ASSISTANTS IN ADMINISTRATION**President's Office:—****LENORE HOFFMAN, Secretary to the President.**

Women's Dormitory.

Deans' Offices:—**BERTHA DURANT, Stenographer.**

Kahala; Box 2755.

Business Office:—**MYRTLE SWANSON, Secretary to the Treasurer.**

2468 Upper Cleghorn Drive.

KATHLEEN MUIR, Clerk.

Brookland Hotel.

NORA POTTER, Clerk.

1530 Kaihee St.

CHESTER CHANG, Clerk.

27 Kauila St.

Registrar's Office:—**HELEN MOSES, Secretary.**

57 Cleghorn Drive.

Extension Division:—**GRACE D. ROURKE, Assistant.**

2801 Kahawai St.

Telephone Exchange:—**EMMALINE L. KING, Clerk.**

1334 Alewa Drive.

Shop:—**CLARENCE E. OWEN, Mechanic.**

1242 Palolo Ave.

ROY CALVERT, Assistant Mechanic.

1171 20th Ave.

EXPERIMENT STATION***ASSOCIATION OF HAWAIIAN PINEAPPLE CANNERS****ARTHUR L. DEAN, Ph. D., Director.**

A. B., Harvard, 1900; Ph. D., Yale, 1902.

2225 Hyde St.

* The Experiment Station of the Association of Hawaiian Pineapple Canners is affiliated with the University of Hawaii, with its headquarters on the University Campus. Its financial support, however, is wholly by the Association.

- HARRY L. DENISON, B. S., *Agriculturist.***
B. S., University of Hawaii, 1920.
Kahala, Oahu.
- WALTER A. WENDT, B. S., *Assistant Agriculturist.***
B. S., University of Wisconsin, 1920.
Wahiawa, Oahu.
- WILLIAM A. BALDWIN, Ph. B., *Assistant Agriculturist and Agent for Maui.***
Ph. B., Yale, 1892.
Makawao, Maui.
- FRANCIS A. I. BOWERS, B. S., *Assistant Agriculturist.***
B. S., University of Hawaii, 1924.
Wahiawa, Oahu.
- HENRY O. THOMPSON, B. S., *Assistant Agriculturist.***
B. S., University of Hawaii, 1926.
Wahiawa, Oahu.
- FREDERICK G. KRAUSS, D. Sc., *Geneticist.***
D. Sc., University of Hawaii, 1923.
2447 Parker St.
- KENNETH KERNS, B. S., *Assistant Geneticist.***
B. S., University of Hawaii, 1926.
Walpahu, Oahu.
- CHRISTOS PLUTARCH SIDERIS, Ph. D., *Physiologist and Pathologist.***
B. C., Samos Lyceum, Greece, 1908; B. S., University of California, 1921; Ph. D., University of California, 1924.
2633 Pamoia St.
- GLENN E. PAXTON, M. S., *Assistant Pathologist.***
B. S., Colorado Agricultural College, 1918; M. S., University of Wisconsin, 1921.
1641 Anapuni St.
- GWENDOLYN COCHRANE WALDRON, B. S., *Assistant Pathologist.***
B. S., University of California, 1922.
P. O. Box 2870.
- BEATRICE H. KRAUSS, B. S., *Assistant Physiologist.***
B. S., University of Hawaii, 1926.
2447 Parker St.
- EICHI MASUNAGA, B. S., *Assistant Physiologist.***
B. S., University of Hawaii, 1927.
57, No. 2 Cunha Lane.

- SHIZUO HARADA, B. A., *Assistant*.
B. A., University of Hawaii, 1925. 1233 Elm St.
- MARY KAMM, B. S., *Assistant Pathologist*.
B. S., University of Hawaii, 1927. 192 South School St.
- GEORGE HAROLD GODFREY, Ph. D., *Nematologist*.
B. S., Washington State College, 1913; M. S. Iowa State College, 1917; Ph. D., University of Wisconsin, 1923.
2561 Malama Way.
- HELENE T. MORITA, B. S., *Assistant Nematologist*.
B. S., University of Hawaii, 1924. 1021 Kama Lane.
- JULIETTE OLIVEIRA, B. A., *Assistant Nematologist*.
B. A., University of Hawaii, 1928. 1541 Fort St.
- JAMES F. ILLINGWORTH, Ph. D., *Entomologist*.
B. S., Pomona, 1900; M. A., Stanford, 1901; Ph. D., Cornell, 1912.
1103 12th Ave.
- FRANK T. DILLINGHAM, M. A., *Chemist*.
B. S., Worcester Polytechnic Institute, 1901; M. A., Yale, 1916.
2562 Jones St.
- FRANCIS A. E. ABEL, M. S., *Assistant Chemist*.
B. S., University of Hawaii, 1921; M. S., University of Hawaii, 1924.
2376 Oahu Ave.
- JOHN M. HORNER, A. B., *Assistant Chemist*.
A. B., Stanford, 1922. 2433 Nuuanu Ave.
- CARL A. FARDEN, B. S., *Assistant Chemist*.
B. S., University of Hawaii, 1924. 1142 Wilder Ave.
- ELSIE G. GREENLAND, *Secretary to the Director*.
Punahou Court, 1630 Makiki St.
- EMMA WILSON, *Librarian*.
3807 Mauna Loa Ave.
- MINERVA M. TOWNSEND, *Stenographer*.
1067 Lunalilo St.

EXTENSION INSTRUCTORS

In addition to members of the University faculty, the following instructors conducted extension courses in 1927-1928:

GEORGE AXTELLE, B. A., *Principal Fort Street School, Honolulu.*

B. A., University of Washington, 1923.

JOHN WESLEY COULTER.

B. A., 1919, M. A., 1921, University of California; Ph. D., University of Chicago, 1926.

MILDRED FIRTH CROCKETT, M. A., *Special Instructor in English.*

B. A., University of Washington, 1914; M. A., University of Washington, 1915.

D. S. JEPSON, M. S., *Certified Public Accountant.*

B. S., University of Southern California, 1924; M. S., University of Southern California, 1925; C. P. A., California, 1927. Associated with Henry Davis Audit Co., Honolulu.

ROBERT SPENCER, B. A., *Principal, Washington Junior High School, Honolulu.*

B. A., University of Hawaii, 1923; Graduate work, Stanford, 1925-1926.

J. F. WOOLLEY, B. S., *Postmaster, Honolulu.*

B. S., Utah Agricultural College, 1916.

THE UNIVERSITY OF HAWAII

The University of Hawaii was established by act of the Territorial Legislature in 1907. It bears the same relation to the Territory as do the several state universities to their respective states, and draws most of its financial support from the Territory. It is also in part a land-grant college. Although it never received a grant of land, such as was provided for the similar colleges of the states by the original Morrill Act of 1862, it does benefit by the Second Morrill Act of 1890. It is open to all who are qualified, regardless of sex, color, or nationality.

The growth of the University has been rapid, both in numbers of students and plant investment and in its sphere of service and public esteem. The Act of Establishment was passed by the Legislature in 1907, and the instructional work began in 1908, with five students and two instructors, in a temporary location on the grounds of the McKinley High School. After a few years the institution was moved to its present site in Manoa Valley. In 1920 a College of Arts was added and the name was changed from the College of Hawaii to the University of Hawaii.

The University of Hawaii is accredited by the Association of American Universities and is recognized as an institution of good standing, from which students may transfer without loss of credits to other American colleges and universities or to European universities.

Hawaii is noted for its friendly mingling of many races, and the University reflects this in its cosmopolitan student body. Its students represent many racial groups, chiefly Caucasian, Japanese, and Chinese, most of whom are American citizens because they were born in Hawaii. This friendly cosmopolitanism is an important factor in the life of the community, and should be felt in the future relations of the countries bordering the Pacific Ocean.

In the field of tropical agriculture the University has an opportunity unique among American institutions and is developing both undergraduate and graduate programs of instruction and research which should be of interest not only to residents of Hawaii but to others as well.

RELATED SERVICE

In addition to its instructional program, the University is responsible for several other forms of public service.

The Aquarium, at Waikiki Beach, is operated by the University as a place of education and entertainment for the benefit of the resident public and of visitors. Over a million persons have visited it during the past twenty years.

The Psychological and Psychopathic Clinic is a Territorial institution under the management of the University. It makes examinations of persons at the request of the courts, industrial schools, the Board of

Health, the Department of Public Instruction and other public institutions and organizations, and, under proper regulation, at the request of private institutions and organizations, parents or guardians. In addition the clinic is conducting investigations in the field of psychology.

The Waiakea Experiment Station was established in 1921 by legislative act, to assist the homesteaders on the island of Hawaii. A tract of about 90 acres near Hilo is devoted to this work, the experiments being largely in sugar cane culture, though diversified crops and live stock form an important part of the work of the station. No appropriation is made for this, requiring that the work be self-supporting.

Seismological Observatory. The U. S. Coast and Geodetic Survey is operating the seismological observatory in Gartley Hall under a special agreement with the University whereby the results and observations are made of service to this Territory. This is a well-equipped observatory, with good earthquake recording instruments, and is the principal station of the Coast and Geodetic Survey in Hawaii.

The Association of Hawaiian Pineapple Cannery has affiliated its experiment station with the University, all the expense of this station being borne by the Association. The field work is carried on largely at Wahiawa, the heart of the pineapple country, while the laboratory and technical investigations are conducted on the university campus in buildings erected by the Association.

RELATED INSTITUTIONS

To supplement its own facilities for instruction and research the University has made coöperative arrangements with several other institutions.

Bishop Museum. By arrangements between the University and the Bishop Museum it is provided that there shall be reciprocity in the use of libraries, laboratories, collections and other facilities of research. Graduate students registered in the University of Hawaii will be allowed to carry on investigations under the guidance of members of the Museum staff, and work done in this way may be credited toward advanced degrees by the University. Advanced students will be allowed the use of the Museum facilities when working under proper direction, subject to such regulations as may be deemed expedient by the Director of the Museum.

Honolulu Academy of Arts. This excellent institution, built and endowed by Mrs. C. M. Cooke, offers to the University its unsurpassed collections of works of art from all parts of the world, for the educational advancement of the students and instructors.

The Hawaiian Sugar Planters' Association maintains an experiment station, the facilities of which are available to the University for instructional purposes. Students in sugar technology may spend a semester at this station as a regular part of their program of study, and several members of the station staff take part in the instructional work of the University.

The Territorial Board of Agriculture and Forestry and the *Federal Experiment Station* cooperate in several ways with the University in advancing agricultural education.

Territorial Normal School. The University correlates the work of its Education Department with that of the Territorial Normal School sufficiently so that transfer of credits may be facilitated, and to some extent instructional service is exchanged.

Rockefeller Foundation. A grant of \$20,000 per year for five years, beginning January 1, 1927, has been made to the University of Hawaii by the Rockefeller Foundation for research in the field of racial blends. The objective of this research is to discover the mental, physical, and cultural effects of the blending of the races which are resident in the Hawaiian Islands. This should have an important bearing on the future welfare of the people around the Pacific Ocean.

CAMPUS AND BUILDINGS

The University is situated in Manoa Valley, one of the most attractive of Honolulu's residential districts, about three miles from the business center.

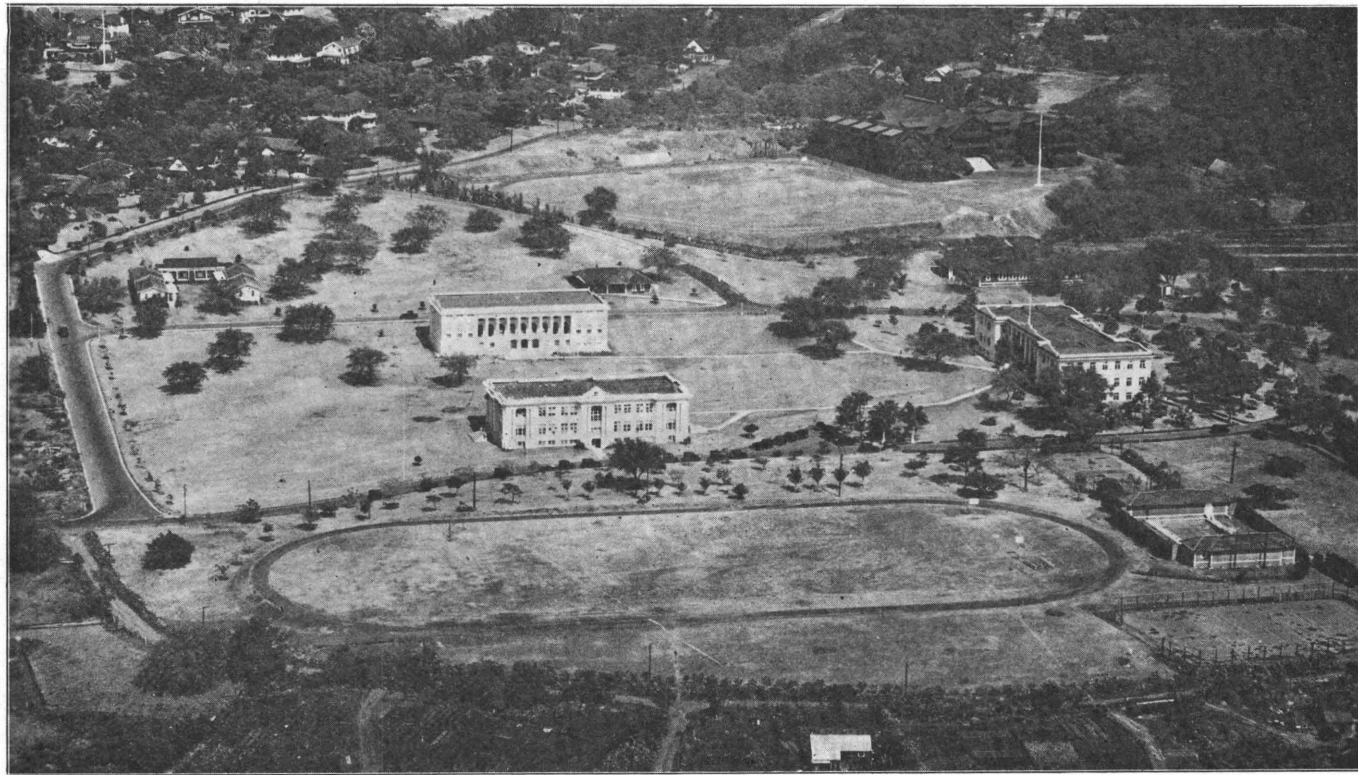
The campus occupies an area of about 100 acres. Two-thirds of this is the farm, used for experimental crops, pasturage, and livestock, and on the remainder are located the university buildings, as indicated in the accompanying illustration. At the rear of the farm lands is the Manoa Stream which not only furnishes irrigation water for the crops, but offers excellent facilities for student work in hydraulics and irrigation studies.

The principal buildings are grouped in a quadrangle which is not yet completed. These are of re-inforced concrete construction, three stories in height and of somewhat uniform architecture. Hawaii Hall, the present administration building, was the first one erected. Gartley Hall for chemistry and physics, named for Mr. Alonzo Gartley, and the University Library were added a few years later. The fourth building of the quadrangle is now under construction, and will provide laboratories for the biological sciences.

A second group of re-inforced concrete buildings, consisting of five one-story structures, houses the Engineering Department, and provides ample facilities for laboratories, class rooms, shops, and drafting rooms. One of these buildings is devoted to work in hydraulics, while another is equipped as a testing laboratory and serves a dual purpose, providing instructional facilities for students and offering to local engineering and industrial firms facilities for commercial testing.

The equipment of the testing laboratory includes a 150,000 lb. capacity Riehle universal testing machine, for tension, compression, and transverse tests of large specimens; a small 10,000 lb. capacity Riehle machine for testing specimens in transverse strain; a 20,000 lb. capacity Olsen universal testing machine for tension and compression tests of small specimens; an Olsen torsion machine for torsion tests up to 50,000 in.-lbs.; an Olsen apparatus for making the Brinell hardness test; a special Olsen machine of 40,000 lbs. capacity for compression tests of cement and concrete cubes; and a standard Riehle 2,000 lb. machine for briquettes.

A section of the laboratory is fitted with the essential apparatus for the physical testing of road materials. This equipment includes a Page impact machine, Dorry hardness machine, Deval abrasion ma-



Aerial photograph of the campus, University of Hawaii, as it appeared in 1926. Several buildings are now under construction. (Photo by 11th Photo Section Air Corps, United States Army.)

chine, Page briquette-forming machine, together with core drills, sieves and miscellaneous asphalt-testing apparatus.

A third group of buildings is for physical education, recreation, and athletics. A large gymnasium, a swimming tank with adjoining locker rooms, a locker building for men's athletic teams, asphalt tennis courts and a turf football and baseball field and quarter-mile cinder track comprise this group. Nearby is a building for the R. O. T. C. The Honolulu Stadium, about a mile from the campus, is owned in part by the Associated Students of the University and is used for all football and baseball games.

Two small residence halls and a diningroom are available to those who wish to reside on the campus.

The farm is equipped with the necessary buildings for dairy, poultry and other livestock industries, a barn for tools and implements, and several cottages for the employees.

Not all the work of the University is on the Manoa Campus, for there is at Waikiki Beach a marine biological laboratory and aquarium, and at Kaimuki an astronomical observatory. On the Island of Hawaii, near Hilo, there is an agricultural demonstration station operated by the University, with about 90 acres of land.

The Library now contains 43,512 volumes. Extensive collections of important Chinese and Japanese works catalogued in English, are available. In addition there are on the shelves 156,952 pamphlets, many of them bulletins of agricultural experiment stations and of the various departments of the Federal Government. The Library is a depository for all Government publications, and in this building the Institute of Pacific Relations maintains its library in cooperation with the University, thus affording important facilities for the student of international affairs.

Reading rooms are maintained, wherein may be found local and mainland daily papers, the leading literary magazines and reviews, and a great number of technical and scientific periodicals. Throughout the day and evening, the Library and Reading Rooms are open to the public, and persons complying with the regulations may withdraw books for home use.

The Herbarium of the University of Hawaii, in the custody of the Bishop Museum, contains the most nearly complete collection of Hawaiian plants in existence, including specimens of species which have already become extinct. The portions of the types and the co-types of plants described by Dr. W. Hillebrand, together with the types of new species, form the most valuable part of the herbarium.

The Territory has invested about three quarters of a million dollars in the buildings and grounds of the University and more has been added from private sources. The value of the lands occupied is nearly two million dollars.

GIFTS TO THE UNIVERSITY

The University has received a number of generous gifts from friends who are interested in the forward progress of higher education. The first of these was a field for athletics and recreation made possible by Mr. J. P. Cooke, who gave sufficient money for the leveling and turfing of a part of the original campus.

The land for the Astronomical Observatory in Kaimuki was the gift of Harry F. Lewis and his wife, the funds for erecting the building coming from other private sources.

The Aquarium and the Marine Biological Laboratory at Waikiki were the gifts of Mr. Charles M. Cooke, who was much interested in this form of public education.

A 25-yard swimming tank with adjoining locker buildings both for men and for women was built for the University by funds raised largely by the students.

A building for men's athletic teams was built and presented to the University by the Associated Students.

The tennis courts on the campus are the gift of the students who raised the necessary funds largely by their own contributions.

A number of scholarship funds and student-aid loan funds have been given by friends, as indicated on page 35.

The Rockefeller Foundation is giving \$20,000 per year to the University for the advancement of research. The Association of Hawaiian Pineapple Canners and the Pacific Guano and Fertilizer Company have each made cash contributions toward research projects of importance to agriculture.

Gifts made to the University during the preceding year are as follows:

American Association of Arts and Sciences.....	\$ 250.00
Associated Students	5,000.00*
Class of 1927.....	126.38
Faculty Prize fund.....	700.00
Harriet Wheeler Loan fund.....	300.00
Outdoor Circle	54.78
Pacific Guano and Fertilizer Co.....	250.00
Pratt, G. D. (for Aquarium).....	500.00
Representatives Club	75.00
Rockefeller Foundation	20,000.00

* In the form of a building presented to the University for use by athletic teams.

ADMISSION

It is the purpose of the University of Hawaii to prepare its graduates for special distinction in whatever vocation they may choose, and to this end candidates for admission must present satisfactory evidence of their fitness for university work. This is determined partly by the scholastic record made in the school or college last attended, partly by a psychological examination and partly by testimonials as to character, ability, and fitness for university work.

Special students taking less than a full program of work must meet the same entrance and scholarship requirements as regular

students except that those of mature age who have not the required preparatory school education may be accepted for limited work upon presenting satisfactory evidence of such previous training as manifestly fits them to pursue the desired courses.

Auditors are persons who are permitted to attend certain *courses as listeners, not partaking in the examinations and receiving no credits. Persons desiring the privilege of attending classes as auditors will make application to the Registrar and if the application is granted will pay the usual fee in the course and be issued an auditor's card.

ADMISSION TO FRESHMAN STANDING

Every applicant for admission to the University as a freshman must take the Thorndike Intelligence Examination for High School Graduates and an English Placement Examination, and must submit evidence of proper preparatory training by offering in one of the ways mentioned below or by a combination of two or more of these ways, evidence of satisfactory preparation in at least 15 units of high school work, this work to be selected from the list of subjects given on page 27.

Every applicant must satisfy any special requirements of the college in which he expects to take his work.

- 1—The applicant may take entrance examinations offered by the University and thus satisfy all or a part of the 15 unit requirement.
- 2—The applicant may take examinations offered by the College Entrance Examination Board and submit statements from the Board covering certain subjects, or the applicant may take the comprehensive examinations offered by the Board and submit a certificate from the Board covering all entrance requirements. In the latter case the complete high school record must also be submitted.
- 3a—The applicant may present a record from an approved secondary school showing fifteen (15) units in approved subjects with an average grade of 80% or better. These fifteen units must include three (3) units of English in which the average grade is at least 80% and two (2) units in mathematics. Candidates in this group who fail seriously in the psychological examination or in the English placement examination may not be admitted.
- 3b—The applicant may present a high school record showing fifteen (15) units in approved subjects but in which the average grade is below 80%. If such a candidate makes a score above the average in the psychological examination and in the English placement examination, permission to matriculate may be granted.

A unit signifies the satisfactory completion of a course of study pursued for a full school year, with five recitations per week of not less than 45 minutes each, or the equivalent laboratory or shop exercises.

* Courses which auditors may attend are designated in the catalog by an asterisk (*).

The 15 units should include at least 10 from the following list:

English	Algebra	Physiology
†Latin	Plane Geometry	General Science
†Greek	Solid Geometry	Physical Geography
†French	Plane Trigonometry	Ancient History
†German	Physics	General History
†Hawaiian	Chemistry	English History
†Spanish	Botany	U. S. History
†Oriental Languages and Literature	Zoology	Civil Government

Any other five subjects or combinations of subjects to total five units, credited by the school toward its diploma, will be accepted. However, in no case will more than 2 units nor less than 1/2 unit be accepted in any subject, and such subjects must have been pursued in accordance with regular classroom procedure involving a reasonable amount of preparation in addition to the time spent in class.

Candidates desiring to study mathematics in the University or to elect subjects for which mathematics is a prerequisite must offer at least 2½ units in mathematics, covering elementary and intermediate algebra and plane geometry; those desiring to enter the course in Engineering must offer 3½ units in mathematics. Beginning in 1929 candidates for the 4-year course in Agriculture, the courses in Sugar Technology and in General Science, including Pre-Medical work, will not be accepted who do not offer for entrance algebra through quadratics and plane geometry.

Candidates offering freehand drawing and perspective must submit drawings made in the preparatory school.

Students wishing to enter an advanced course in one of the modern languages must offer at least 2 units in that language. Students offering two or more units in a modern language will not be permitted to register in the elementary course in that language.

ADMISSION TO ADVANCED STANDING

Admission to advanced standing may be granted to students who transfer with sufficient credits from another university or college of recognized standing. Students thus transferring must present an official statement of the studies offered for admission at that institution, of the studies pursued in college and the grade received in each, and also a certificate of honorable dismissal. Credit toward graduation will be given only in subjects in which a grade of C or better is recorded.

ADMISSION OF SPECIAL STUDENTS

Mature persons, ordinarily only such as are at least 21 years of age, who present to the Committee on Admissions satisfactory evidence of their ability to carry on the work desired may register as Special Students, taking a limited program of courses. Persons less than 21 years of age may be admitted as special students provided they are able to fully meet the entrance requirements for regular Freshman

† Entrance credit for languages will not be granted unless at least two units in some one language are offered.

standing, but desire to carry only a limited program of courses not leading toward a Bachelor's degree.

Persons of some maturity who have had experience that manifestly prepares them for college work may be given entrance credit for such work. Just what forms of work will be given credit and just how many credits will be granted cannot be stated in advance; but each case will be passed upon individually.

Admission as a Special Student is in no case permitted as a means of avoiding compliance with the requirements laid down for regular students.

ADMISSION OF GRADUATE STUDENTS

Graduates of an accredited collegiate institution may be admitted as graduate students and candidates for an advanced degree. Requirements governing this are stated in more detail on page 32.

THE CURRICULUM

The curriculum of the University is divided between two colleges, the College of Applied Science and the College of Arts and Sciences, the former including courses in agriculture, engineering, sugar technology, home economics and general science; the latter in natural and social sciences, languages, art, education, commerce, etc. Graduate courses are offered in both colleges, and the general program of extension courses is participated in by both.

The year's work is divided into two semesters of eighteen weeks each, with an additional summer session of six weeks.

CREDITS AND GRADE POINTS

Recognition of work done is given in terms both of credits and of grade points. A credit is the equivalent of three hours per week spent in the preparation and recitation of a lesson, or in the field or laboratory. The exact division of this time, however, is generally left to the professor in charge.

Grade points are computed as follows: For each semester hour 3 grade points are granted when the grade is 90 or above; 2 grade points when the grade is 80-89; 1 grade point when the grade is 70-79. Grades of 60-69 give credit for semester hours, but no grade points.

Grade points are computed in all courses in which grades are reported, including Military Training and Physical Education.

A student is not entitled to grade points for grades received upon re-examination after being conditioned in any subject.

Students entering as undergraduates with advanced standing will not be given grade points upon work done elsewhere; but on work done here must gain grade points in the same proportion to credit hours required for graduation as is demanded of other students.

No student with entrance conditions can be registered as a Sophomore, none with Freshman conditions as a Junior, and none with Sophomore conditions as a Senior.

To graduate from the University of Hawaii, the student must have gained a minimum of 136 grade points, of which at least 69 must be

gained in the last half of the course. Minimum credit requirements vary in the two colleges and in the different courses. In the College of Arts and Sciences the minimum requirement is 128 credits; in the College of Applied Science it varies from 136 to 148 credits.

BACCALAUREATE DEGREES

On satisfactory completion of a regular course in the College of Applied Science a candidate is granted the degree of Bachelor of Science (B. S.), the diploma designating the course which has been pursued. The degree of Bachelor of Arts (B. A.) is granted upon the satisfactory completion of a regular course in the College of Arts and Sciences.

The University of Hawaii will permit the substitution of the first year in an approved professional school for the fourth year of the University course; and will, upon the satisfactory completion of three years of a University course and one year in an approved professional school, grant the degree of B. S. or B. A. according to the course pursued.

Candidates presenting advanced credits from other institutions will be required to do, as a minimum, the equivalent of a year's work in residence at the University of Hawaii (at least 30 semester hours) in order to receive a Bachelor's degree.

PREPARATION FOR PROFESSIONAL DEGREES

The prospective student of medicine may follow either of two lines of procedure. He may take a two-year course, comprising only such studies as are required for admission to the medical school. Or he may remain for three years, thereby obtaining a better preparation for his professional studies and at the same time satisfying the requirements for the degree of B. S. or B. A. It is thus possible to obtain both the degrees of B. S. or B. A. and M. D. in seven years.

Students planning to spend but two years in preparation for medical school or desiring the degree of B. S. should register in the course in General Science in the College of Applied Science. Persons desiring the degree of B. A. should register in Group III in the College of Arts and Sciences.

The medical schools adopting the requirements prescribed by the American Medical Association demand a minimum of 15 high school units, of which at least 3 must be in English, 2 in some one foreign language, 2 in mathematics (including algebra through quadratics), and 1 in history.

They also require a minimum of 60 university credit hours, as shown by the following schedule:

REQUIRED SUBJECTS	SEMESTER HOURS	UNIVERSITY OF HAWAII EQUIVALENT
Chemistry	20	Chem. 101 or 102, 105 and 106, 124.
Physics	8	Physics 102.
Biology	8	Botany 101, Zool. 150 and 151.
English Composition.....	6	English 100.
Other Non Science subjects:		
History, Language, Economics	12	

SUBJECTS STRONGLY URGED	SEMESTER HOURS
A modern foreign language.....	6 to 12
Advanced botany or advanced zoology.....	3 to 6
Psychology	3 to 6
Advanced mathematics, including trigonometry.....	3 to 6

OTHER SUGGESTED ELECTIVES

English (additional), economics, history, sociology, political science, logic, mathematics, drawing, Latin, Greek.

Students preparing for schools of law or theology may obtain the degree of B. A. by satisfactorily completing three years of work in the University of Hawaii, and one year in an approved school of law or theology.

MILITARY DRILL

In accordance with the requirements placed by the United States Congress on all Land Grant Colleges, this University offers instruction in military science and tactics. This is required during the first two years of all physically fit male students who are citizens of the United States, but is optional in the third and fourth years. A senior unit of the Reserve Officers' Training Corps is located at the University, and this advanced instruction leads to a reserve commission in the United States Army.

PHYSICAL EDUCATION

Men. All male students of the Freshmen and Sophomore classes who do not take part in the military training program are required to take physical education, unless prevented by some physical disability.

Women. All women students under 25 years of age registered as regular students or as special students carrying eight or more credits are required to take physical education unless excused on account of physical disability.

A medical and physical examination must be taken at least once each year. This examination is made by an authorized physician under the direction of the University.

UNIVERSITY EXTENSION SERVICE

The University is offering a program of Extension Service whereby its educational facilities are made available beyond the confines of the campus, thus in a very real way "making the Territory of Hawaii its campus."

The Extension Service takes the form of (1) special courses of instruction offered in the evenings or at such times and places as may be most convenient for the people thus served; (2) home study and reading courses; (3) lecture service; (4) publications; (5) miscellaneous public service.

The Department of Agricultural Extension has a Director in charge and is associated closely with the agricultural work of the University and undertakes to serve the farming interests of the Territory, both the large and the smaller industries. Short courses, traveling agents

and specialists, marketing helps, consultation and research service, together with the publication of a weekly farm paper (The Extension Letter) comprise the Agricultural Extension Service. The courses of instruction in this department are of short duration and offer no university credits.

Special announcements of extension courses and other forms of service are issued from time to time and are not included in this catalogue.

EXTENSION COURSES

Extension courses are offered by the University for the benefit of those adult persons who cannot attend the regular courses. Those courses in which university credits are given must be approved by the Faculty Committee on Curriculum.

Admission to extension courses giving credits is governed by the same rules as admission to regular courses. Extension courses which give no credits are open to any adult person who is interested and wishes to enroll.

Credits gained in extension courses conducted by the University of Hawaii may be applied toward the Bachelor's degree, but not more than 25 per cent of the total credits required to be earned at the University for the degree may be extension course credits.

SUMMER SESSION

For the benefit of teachers and others who desire to attend the University but cannot do so in the regular winter and spring semesters, a third session of six weeks duration is conducted in the summer period, in July and August. Instruction is offered by members of the University faculty and by instructors and lecturers invited from other institutions.

The schedule of classes permits the average student in the summer session to gain six credits, taking three two-credit courses. The instructional work is kept on a par with that of the longer sessions and credits given in the summer courses are of equal worth with credits in the regular courses, applicable toward a Bachelor's or an advanced degree.

Admission to the summer session is governed by the same rules as apply to the longer semesters. Candidates for the Master's degree may fulfill the requirement for credits in four summer sessions, but additional work must be done in the preparation of the thesis. At least two of these four sessions must be at this University.

Announcement of courses and faculties of the 1928 Summer Session, July 2 to August 10, will be sent upon request.

GRADUATE STUDY AND RESEARCH

Research is considered by the University as one of its important functions and it is devoting some of its resources and energy to practical studies in the fields of tropical agriculture, racial and comparative psychology, anthropology, sociology, history, international relations, chemistry, geology, zoology, botany and marine biology. Hawaii offers

special opportunities for research in these fields and mature students from any part of the world are invited to come here to share in these programs of study, using the facilities of the University and of other related institutions.

ADVANCED DEGREES

Graduates with a Bachelor's degree from an accredited university or college may engage in graduate study as candidates for the degree of Master of Science or Master of Arts in certain fields. One year of advanced work in residence, or its equivalent, is the minimum requirement for this degree. The candidate must satisfactorily complete a program of advanced study for which his previous education has laid the necessary foundation, and must also present an acceptable thesis and pass the required examinations. Four Summer Sessions, with additional research or special advanced study may be accepted as fulfilling the residence requirement for a Master's degree.

Work of advanced grade done at institutions other than the University of Hawaii may be accepted as fulfilling part of the requirements for the Master's degree, provided that the amount of work done at the University of Hawaii shall be equal to at least one-half of the total work required. The amount of credit to be allowed for work done elsewhere will be determined by the Committee on Graduate Work after examination of the transcript of record of the candidate.

Courses numbered 300 and over in this catalogue are graduate courses and some of those numbered 200 and over may be taken for full credit by graduate students, while others may be taken for half credit only, as determined by the Committee on Graduate Work.

Application for admission as a candidate for an advanced degree must be made in writing to the Committee on Graduate Work not later than October 1 or February 10 and should be accompanied by transcript of record issued by the institution from which the applicant has received his Bachelor's degree, and also by transcripts of any graduate work done at other institutions. In case the amount of under-graduate work is deemed insufficient, the applicant, if accepted, may be required to take further under-graduate courses.

The graduate student works under the direction of an advisor or a special committee appointed by the Committee on Graduate Work to guide his work and review its progress from time to time.

Candidates for an advanced degree whose program of work continues more than one year must renew their registration at the beginning of each year, but without payment of an additional fee. Candidates taking regular undergraduate courses must register at the beginning of each semester.

The advanced work may be restricted to one field or subject, or to a major and a minor, or to a major and two minors; but at least one-half of the work must be in the major, and the minors must be so correlated with the major as to satisfy the Committee on Graduate Work that the candidate is working with a definite and scholarly purpose.

The title of the thesis, together with the written approval of the chairman of the committee in charge; must be furnished to the Committee on Graduate Work before the end of the semester preceding that in which the degree is to be taken.

The completed thesis must be presented to the Committee on Graduate Work at least one week before the date set for the candidate's examination, and must win the approval of the Committee in charge of his candidacy by demonstrating his ability not only to do original work, but also to present the results of that work in creditable form. The thesis, accompanied by the written approval of the chairman of the candidate's committee, will be returned temporarily for use in the examination. Before the candidate is granted a degree, a typewritten copy and a carbon copy of the thesis on pages 8½ x 11 inches in size, bearing the written approval of the chairman of the committee in charge of the candidacy, must be deposited in the Library as the permanent property of the University, together with a fee sufficient to pay for binding both copies.

The examination for the degree will be conducted by the committee in charge of the candidate's work, and may be either written or oral, or both. It shall be open to all members of the faculty. The candidate must apply in writing to the Committee on Graduate Work not later than April 15, or January 1, for an examination. The request must bear the approval of the chairman of the committee in charge of his candidacy, and must also be accompanied by a short summary (one or two pages) of his thesis. Announcement of the time and place of examination will be made by the Committee on Graduate Work not later than May 1, or January 15.

CIVIL ENGINEER DEGREE

The degree of Civil Engineer (C. E.) will be granted to Bachelors of Science in Civil Engineering from this institution, who shall complete two years of practical experience in their chosen profession, present a satisfactory paper upon some topic of interest connected with their work, complete certain assigned problems, and pass required examinations. Regulations governing the granting of this degree are essentially those governing candidates for Master's degrees, so far as fees, registration, dates for filing notices, etc., are concerned.

TUITION AND FEES

1. A registration fee of \$10.00 per semester is charged all regular students, all special students regardless of the number of hours for which they are registered, and all auditors. Graduate students and Extension students do not pay this fee (see paragraphs 3 and 4 below).

2. Non-residents of Hawaii pay a tuition fee of \$25.00 per semester or \$2.00 per credit hour, in addition to the registration fee named above. Persons who come in any of the following classifications are not subject to this tuition fee.

(a) Any person who has resided continuously in the Territory of Hawaii for at least one year prior to the registration day of any semester.

(b) Any person, one or both of whose parents has been a resident of the Territory of Hawaii for at least one year.

(c) Any person who is in the military or naval service of the United States, or who is a dependent of one in such service.

3. Graduate students pay a fee of \$25.00 at the time of original registration and a second fee of equal amount at the time the advanced degree is awarded. In addition to this, a fee sufficient to cover the cost of binding the two copies of the thesis, is payable before the awarding of the degree. If the candidate for an advanced degree wishes to purchase a hood, this may be ordered at the Business Office. A hood is loaned by the University for the graduation ceremony.

4. Extension students pay the fees set for each course.

5. Summer Session students, including both graduate and undergraduate students, pay a registration fee of \$10.00 and an additional fee of \$2.50 per credit hour. No distinction is made between non-residents of Hawaii and residents.

6. Laboratory and other special fees and deposits are charged in connection with certain courses, as indicated in the description and schedule of courses. These fees are for laboratory materials or in some instances for books or for the costs incident to required field trips. Graduate students taking these courses must pay the fees the same as undergraduates.

7. The use of the swimming tank and gymnasium is free to all students. Locker assignments may be obtained at the Business Office on payment of the fee of \$1.00 per semester.

8. Miscellaneous Fees. A late Registration Fee of \$1.00 is required of all students who register later than the announced registration days, and a fee of one dollar is charged for each change of schedule made after the two-week interval following registration day.

A fee of one dollar is charged students for each copy of transcript of record after the first such copy has been issued.

Charges are made for special examinations given at times other than those regularly announced.

The use of steel book lockers may be secured from the Business Office by making a deposit of \$1.75, seventy-five cents of which will be refunded upon return of the key.

All fees must be paid as a part of registration and no registration card will be finally accepted until it is endorsed showing payment.

No student shall be permitted to register until all outstanding indebtedness to the University has been liquidated, unless special permission has been obtained from the President or Treasurer.

Apparatus lost or destroyed is charged at market prices. Students whose breakage exceeds the deposit will pay the difference before receiving credit for the course taken.

RESIDENCE AND DINING HALLS

Two residence halls and a cafeteria are available to students on the university campus. Cafeteria service for noon luncheon is available to all students and faculty members who desire it, and in addition provision is made for the needs of occupants of the residence halls.

For the men there is a one-story building with accommodations for twenty-eight. Every room is well ventilated, some arranged for one man and others for two, while a few are in a suite arrangement with a study room between two bedrooms and designed for four men. The rooms are furnished, except for linen and bedding.

For the women students who wish to live on the campus there is a one-story frame building with accommodations for sixteen, as well

as for the Dean of Women who supervises the hall. The rooms are furnished except for bedding and linen. A kitchenette with buffet service is available.

A charge of \$63.00 per person per semester and \$25.00 for the summer session is made for these accommodations. This is payable in advance unless some other arrangement is made satisfactory to the Business Office. No refund is made unless a satisfactory substitute occupant can be secured, in which case the rental is prorated.

Applications for rooms should be addressed to the Business Office.

STUDENT AID AND PRIZES

To help worthy students in their efforts to obtain an education, the University offers financial aid in the form both of scholarships and loans. Some of the scholarships are available only to persons named by the donors, but most of them are awarded by the University. Several loan funds afford financial aid to students on generous terms.

Applications for scholarships and loans should be addressed to the University as far in advance as possible, so that they may receive careful consideration. Scholarships for the following college year are usually awarded about June 1.

Honolulu Chamber of Commerce Freshman Scholarship—A scholarship of \$100, awarded to the needy graduate of a Honolulu preparatory school presenting the best entrance record.

Honolulu Chamber of Commerce Agricultural Scholarship—An annual scholarship of \$100, awarded to an upperclassman taking the course in Agriculture or the agricultural division of the course in Sugar Technology.

Hilo Chamber of Commerce Scholarships—Annual scholarships of \$100, awarded by a committee of the Hilo Chamber of Commerce to residents of East Hawaii who desire to take a full regular course at the University of Hawaii.

Maui Woman's Club Scholarship—An annual scholarship of \$100 is awarded by the Maui Woman's Club to a graduate of the Maui High school.

University Club Sophomore Scholarship—This scholarship of \$100 is awarded for the Sophomore year to that needy student who makes the best record in the work of the Freshman year.

Prince Fushimi Memorial Educational Fund—The sum of \$300 is available annually for the assistance of American citizens of Japanese ancestry of high scholastic and good moral standing who are unable to fully pay their educational expenses.

Daughters of American Revolution Scholarships—Aloha Chapter, D. A. R., offers two scholarships of \$100 each to be used preferably for girls taking the Home Economics Course, one scholarship to be given, if possible, to a girl of Revolutionary or early American ancestry.

Chinese Community Scholarships—A fund of about \$3,000 has been given to the University of Hawaii to endow scholarships for students of Chinese ancestry. The income is awarded to three students of the Junior or Senior classes, preferably two men and one woman.

Stephen Spaulding Scholarship—The income of an endowment of \$2,500, given by Florence Tucker Spaulding in memory of her son Stephen Spaulding, ex-1927, will be awarded annually as a scholarship to a male student of the University.

LOAN FUNDS

Harriet Wheeler Fund is the gift of Mrs. Inez Wheeler Westgate, available to any worthy and needy student.

Representatives Club Fund, available to students designated by the donor.

The N. G. B. Loan Fund, the gift of Mr. Guy Buttolph, is available to any needy and worthy student.

The Rotary Club Loan Fund, available to students designated by the donor.

Daughters of American Revolution.—The D. A. R. Student Loan Fund of Hawaii affords financial aid for the benefit of students, either women or men.

College Club of Honolulu offers loan fund aid to needy women students.

PRIZES

Berndt Prize for Public Speaking.—A prize of \$100 annually is offered by Mr. Emil A. Berndt, of Honolulu, for a contest in Public Speaking. This contest is open to all undergraduates, and in certain cases to special students who are registered for twelve or more semester hours.

Dean Prize for Research.—The Arthur Lyman Dean prize is offered annually by the University Faculty for the encouragement of research.

STUDENT ORGANIZATIONS

A. S. U. H.—The students of the University are organized in *The Associated Students of the University of Hawaii*. This organization manages all athletic contests, publishes a weekly newspaper ("Ka Leo") and an Annual ("Ka Palapala") and supervises the activities and financial accounts of other student organizations. A general membership fee, together with a subscription fee for the newspaper "Ka Leo" and the Annual, is collected by the A. S. U. H. at the time of registration.

A chapter of Theta Alpha Phi, a national honorary dramatic organization, is maintained for the encouragement of dramatics.

The Hawaii Union, an honorary debating society, not only affords recognition to those who have been active in debate, but fosters an interest in public speaking both in the preparatory schools and the University.

Several social clubs and associations are in existence, but there are no Greek letter Fraternities on the campus.

The Cosmopolitan Club is interested in better relations between races and nations and is developing a junior league of nations council.

The University Y. M. C. A. is an association of Christian students and faculty men who have organized in order to develop Christian character among the students and afford opportunity for expression of the spirit of brotherhood through the various student activities.

COLLEGE OF APPLIED SCIENCE

The College of Applied Science combines the instructional program usually offered by colleges of agriculture and colleges of engineering. Five lines of study are offered to students in this College, as follows:

1. Agriculture
2. Engineering
3. Sugar Technology
4. Home Economics
5. General Science

The degree of Bachelor of Science is granted upon satisfactory completion of any of the four-year programs of study offered by this College, provided the student has been registered in that course for at least two semesters prior to the time of graduation. 136 credits and the same number of grade points are required for graduation in all courses, except engineering in which 148 are required. In those courses in which summer field work or practice is either required or elective the number of credits required for graduation is increased by the number of credits given for such summer work. In some cases the student is permitted to spend his fourth year at some approved professional college but is granted the Bachelor's degree by this University. (See page 29).

During the first two years of the course, either military science or physical education is required of all students. Exemption from this requirement must be secured from the proper faculty committee.

Admission. Candidates who wish to register in the Engineering course must present $3\frac{1}{2}$ units of secondary school mathematics; in other courses in which college mathematics is a requirement at least $2\frac{1}{2}$ units of secondary school mathematics must be presented for entrance (algebra through quadratics and plane geometry).

Candidates expecting to study engineering are strongly urged to begin the study of both physics and mechanical drawing in preparatory school. Candidates offering mechanical drawing as an entrance unit will be required to submit the plates drawn by them in the preparatory school. They will be placed in a special section in the class in mechanical drawing, and permitted to begin at once on the more advanced work.

The University farm comprises sixty acres, lying between the University buildings and Manoa stream. Any portion of it can be reached by a five-minute walk from the classrooms. About twenty-three acres laid off in a permanent and definite system of one acre fields are under cultivation. The remainder is pasture and unimproved fields. A four-inch centrifugal pump driven by a fifteen horse-power semi-Diesel engine lifts water from Manoa stream over an intervening ridge and provides water for most of the cultivated fields.

AGRICULTURE

The courses in this Department are designed to give the student an intimate knowledge of the fundamental principles which underlie agriculture as a science and a profession, and thus equip him for effective service either in practical farming, agricultural education, or research

work. Agricultural science comprehends a wide range of subjects, and includes something from nearly every department of human learning. The natural sciences of geology, chemistry, physics, botany, zoology, bacteriology, and physiology are directly and intimately related to it. Not in the sciences alone should the agricultural student be broadly educated, but also in mathematics, languages, history, and economics.

In outlining these courses the object sought is first to teach the general laws governing the relationship of growing crops and living animals to soil, climate, and surroundings. The method is by laboratory investigations, field experiments and lectures. This study of the fundamentals will be required of all students who intend to specialize in any advanced line of agricultural work.

Following this fundamental work the special applications and modifications appertaining to particular crops and problems are studied.

The outline of courses for the first year is the same for all students in agriculture, with opportunities for divergent specializing in later years. The second and third years include a few required courses but there is ample opportunity for the student to elect those courses which pertain most closely to the branch of agriculture in which he is most interested.

REQUIRED COURSES

FIRST YEAR

Botany 101
Chemistry 101 or 102
English 100
Mathematics 150, 151

SECOND YEAR

Physics 102 or 152
English 120 or 130

THIRD YEAR

Agriculture 250
Agriculture 251
Agriculture 254

FOURTH YEAR

No required courses, except that major requirements must be satisfied.

Before the end of the Freshman year, the student must submit for approval, to the Advisor and Dean, a detailed program of courses for the remaining three years, indicating as his major one of the following:

(1) Sugar Culture; (2) Pineapple Culture; (3) Livestock; (4) Vocational Education.

The general program of studies should be so arranged that the student's time will be divided as follows:

General College Courses	60 credits
General Agricultural Courses	20 "
Major Agricultural Requirement	"
(Not including general courses).....	16 "
Free electives—either agricultural courses in other than major branch or general electives.....	40* "

Total requirement.....136 credits (minimum)

The course in Farm Practice, Agriculture 150, must be completed before the beginning of the Junior year. It may be taken in the vacation following either the Freshman or the Sophomore year.

* The number of free electives will decrease as the credits in the three groups above are increased.

Students specializing in the study of pineapple production are advised to take Agriculture 258 in the summer following the Junior year. Pineapple Field Practice (Agr. 263) is the only course taken by these students in the second semester of the Senior year.

Students specializing in agricultural education to fit themselves for vocational service under the Smith-Hughes Act of Congress should take certain of the courses in Psychology and Education, as advised by the Dean.

ENGINEERING

The Course in Engineering is designed to give thorough training in the fundamental principles upon which professional engineering practice is based, and to illustrate the application of these principles by the solution of numerous practical problems. Persons entering this course are expected to be well prepared in the physical sciences and in mathematics up to and including solid geometry and plane trigonometry. It is desired to emphasize the necessity of thorough preparation in order that the more serious work of mastering technical subjects may not be hampered by lack of proper groundwork.

The general plan provides a broad foundation in English, mathematics, chemistry, physics, and drawing during the first two years. The work of the last two years is more technical and professional in its nature, embracing the study of the principles involved in power development by means of the various prime movers, including steam engines, water-wheels, gas and gasoline engines, and steam turbines; and also a study of the design of such machines, and of the materials entering into their construction, as well as practical tests to determine their working efficiency and economy of operation. It is aimed to fit graduates to assume gradually, as practical experience is acquired, those administrative responsibilities which are more and more devolving upon men of technical training, and to become ultimately skilful practical engineers. So far as possible, the importance of each subject covered is illustrated by the application to some work which is met in actual practice. It is also intended that the course shall be valuable from an educational viewpoint; therefore, while the student is learning each subject both theoretically and practically, the training of his mind is kept in view as well as the needs of the profession.

REQUIRED COURSES

FIRST YEAR

Civil Engineering 101
Mechanical Drawing 101
Mathematics 104
Chemistry 101 or 102
English 100

SECOND YEAR

Civil Engineering 125
Mechanical Engineering 129
Mechanical Drawing 133
Mathematics 106
Physics 150, 151
English 120 or 130

THIRD YEAR

Civil Engineering 227, 252, 253, 255,
257
Mechanical Engineering 252, 282
Engineering Laboratory (X.E.) 253
Physics 250, 251
Geology 256

FOURTH YEAR

Civil Engineering 201, 229, 276, 277,
279
Mechanical Engineering 283
Mathematics 250
Physics 200
Economics 252

SUGAR TECHNOLOGY

The Courses in Sugar Technology are designed primarily for those who desire to enter into active service in some branch of the sugar industry. Although these courses, since they prepare for one particular industry, might be termed highly specialized, the importance of a sound training in general science has not been overlooked. In the third and fourth years enough special instruction in subjects pertaining directly to the sugar industry is given so that the man who completes this course should have sufficient technical understanding to prove of some immediate value in a subordinate position on a plantation, and yet not have his future progress hampered by an inadequate theoretical training.

The Hawaiian Sugar Planters' Association offers many very valuable opportunities for making more practical the instructional work of the University. Advanced students serve as apprentices in their mills and plantations, and take part in their Experiment Station projects and activities.

The cane sugar industry, as carried on in the tropics, comprises in itself two quite distinct branches: the growing of cane, and its manufacture into sugar. Inasmuch as it would be extremely difficult, if not impossible, to acquire thorough knowledge in both these branches in four years, the courses in Sugar Technology are offered in three divisions.

Agricultural Division. The first year is almost parallel with the Course in Agriculture. In the third year it is advisable to elect certain courses in chemistry in addition to strictly agricultural topics, for the reason that sugar production is probably more dependent on chemistry than is any other branch of agriculture. Sugar analysis is also required, as familiarity with this work is often required of an agricultural chemist. The lectures on cane sugar manufacture are required in the fourth year, as it is desirable that the agriculturist have some knowledge of what happens to the cane after he has grown it.

Sugar Chemistry Division. The work of the first two years follows closely that of the Agricultural Division, but in the third and fourth years the course differs in offering more work in chemistry, with the purpose of giving such training in chemistry as shall prepare a student not only to become an efficient sugar chemist, but also to conduct investigations leading to better methods of control in the manufacture of sugar.

Sugar-House Engineering Division. The first year is identical with the Course in Engineering, while the second year differs only in the substitution of qualitative analysis for advanced mechanical drawing. Chemistry is continued in the third year, together with the most essential of the engineering subjects. Students in this division take sugar analysis and sugar manufacture together with those of the Sugar Agricultural Division.

During the summer vacation between the third and fourth years a minimum of six weeks' work on one of the plantations, or in connection with the work of the Experiment Station of the Hawaiian Sugar Planters' Association, is required of students in all divisions. The student must submit a written report of the work performed.

The second semester of the fourth year is devoted almost entirely to practical work. Arrangements are made whereby students in the

Sugar Agriculture Division serve as student assistants in the Experiment Station of the Hawaiian Sugar Planters' Association, and those in the Sugar-house Engineering Division serve as special apprentices in the factory of one of the plantations, where they actually perform the manual labor required at the various stations of the mill and boilinghouse. Careful notes must be kept of this work and a report submitted at the end of the semester.

This also applies to students in the Sugar Chemistry Division, who may elect either field or factory practice.

REQUIRED COURSES

AGRICULTURAL DIVISION

CHEMISTRY DIVISION

FIRST YEAR

Botany 101
Chemistry 101 or 102
Mathematics 150, 151 *
English 100
Drawing, M. D. 101

Botany 101
Chemistry 101 or 102
Mathematics 150, 151 *
English 100
Drawing, M. D. 101 or
Art 100

SECOND YEAR

English 120, or 130
Chemistry 124
Physics 102
Civil Engineering 101

English 120 or 130
Chemistry 124
Physics 102

THIRD YEAR

Agriculture 250, 251, 254
Sugar Technology 201, 253

Agriculture 250, 251
Sugar Technology 201, 253

FOURTH YEAR

Agriculture 252
Sugar Technology 250, 252, 255
Economics 150

Agriculture 252
Sugar Technology 250, 252
Sugar Technology 255 or 257
Economics 150

The course in Farm Practice, Agriculture 150, must be completed before the beginning of the Junior year.

A summer course (Sugar Technology 253) must be taken in the field during the summer period following the Junior year.

The second semester of the senior year is spent in the field or mill taking Sugar Technology 255 or 257, for which 16 credits are granted.

SUGAR-HOUSE ENGINEERING DIVISION

FIRST YEAR

Mathematics 104
Chemistry 101 or 102
Mechanical Drawing 101
Civil Engineering 101
English 100

SECOND YEAR

Mechanical Engineering 129
Mathematics 106
Physics 150, 151
Chemistry 105, 124
English 120 or 130

* Students who offer 3½ units of mathematics for entrance will not be required to take mathematics 150, 151, but will ordinarily be expected to elect mathematics 152, 153.

THIRD YEAR	FOURTH YEAR
Civil Engineering 252, 253, 255	Mechanical Engineering 284
Mechanical Engineering 282	Physics 200
Engineering Laboratory (X.E.) 253	Sugar Technology 250, 252, 257
Sugar Technology 201, 253	Economics 150
Chemistry 230	
Physics 250, 251	

In the summer period following the Junior year the student must take Sugar Technology 253.

The second semester of the Senior year is devoted entirely to Factory Practice (Sugar Technology 257).

HOME ECONOMICS

The courses in Home Economics allow specialization in either Household Art or Household Science but are designed to give some fundamental training in the branch not chosen as a major. A program combining the fundamental subjects of Household Art and Household Science as well as the required training in Psychology and Education is provided for students who wish to fit themselves as teachers of Home Economics. Students planning to teach Home Economics are expected to major in one branch of the subject and elect the other branch as a minor. In order to guide the student, certain elective subjects are suggested as particularly adapted for the work of that year. The student will be assisted by her Faculty Adviser in arranging a program of studies adapted to her needs and capabilities.

Students in the class of 1929 will not be held to this new program, but will be expected to fulfill the requirements for the course in operation at the time of their admission.

REQUIRED COURSES

HOUSEHOLD ART	HOUSEHOLD SCIENCE	VOCATIONAL EDUCATION
FIRST YEAR		
English 100	English 100	English 100
Chemistry 101 or 102	Chemistry 101 or 102	Chemistry 101 or 102
Household Science 150, 151	Household Science 150	Household Science 150 Household Art 100, 150
Household Art 100, 150	Household Art 100	Art 110
Art 110	Art 110	
SECOND YEAR		
English 130	English 120 or 130	English 120 or 130
Art 111, 120	Household Art 101	Household Art 101
Household Art 101	Household Science 102	Household Science 102
Household Science 102	Economics 150, 151	Psychology 150
Economics 150, 151	Physiology 251	Education 151
	Chemistry 105, 106 *	

* First semester only.

THIRD YEAR

Art 210, 211	Household Science 200,	Household Science 250
Household Art 200	250	Psychology 250
Household Science 250	Chemistry 260	Education 251
	Botany 151	Home Economics 252
		Home Economics 253

FOURTH YEAR

Household Art 250	Household Science 249	Education 252
		Education 253
		Psychology 251
		Practice House

GENERAL SCIENCE

Students who desire to specialize in the biological sciences or in chemistry, physics or mathematics may register in the General Science course as candidates for the Bachelor of Science degree. It is intended that each student shall have a knowledge of the elements of a considerable range of subjects, and at the same time specialize in some field sufficiently to become acquainted with its more advanced phases and proficient in its methods of work. In order to accomplish this result the student is allowed considerable latitude in the selection of studies, but is required to carry the major part of his elective work in some one group of sciences.

In order to graduate in the General Science course the student must have passed the prescribed studies of the first and second years, must have completed fundamental courses and have satisfactorily completed courses aggregating not less than a total of 136 credits. One of the two groups—Physical Sciences or Biological Sciences—must be selected when the student is registering the first year, and at least 60 per cent of the elective work of the course must be in this group. No credit toward graduation is given for courses which cover only field work or practice.

Before the end of his Freshman year, the student must file with the Dean a program, approved by the Dean, indicating the courses he intends to take during the remaining three years of his collegiate work. He must designate as his major subject one of the following: (1) Botany, (2) Zoology, (3) Chemistry, (4) Physics and Mathematics. During the last four semesters the student must devote the major part of his time to the subject selected and to closely related courses in the other subjects. To graduate it will be necessary that at least 30 credit hours be gained in his major subject.

Students who plan to specialize in Chemistry, Zoology or Botany should have a working knowledge of German and French, since it is essential for advanced work in these subjects. Such students, therefore, should elect German or French in the Freshman year. In every case, the student should consult for advice the head of that department in which he plans to take the major portion of his work.

Students who plan to meet the entrance requirements of medical schools by either two or three years of resident collegiate work, electing the major portion of their work in science, should enter this course. Electives chosen must, to a large extent, be governed by the standard admission requirements of medical schools (see page 29).

Attention of entering students is particularly called to the prerequisite for Physics 102. Students who enter with four years of high school mathematics are not required to elect Mathematics 150, 151 in their Freshman year.

Prescribed courses are few. In the Freshman year, the student must take English 100, Chemistry 101 or 102 and Military Science or Physical Education. In the second year, he must take English 120 or 130, and Military Science or Physical Education. In the succeeding years, there are no required courses but, prior to graduation, every student must complete fundamental courses aggregating at least six credits in at least five of the following seven groups:

- (a) Mathematics
- (b) Physics
- (c) Chemistry
- (d) Botany
- (e) Zoology
- (f) Geology
- (g) Economics

An outline list of the courses from which the group elective work must be selected is given below:

GROUP ELECTIVE WORK

GROUP A

PHYSICAL SCIENCES

1st Year.	*2nd Year	†3rd and 4th Years.
Math. 104, 150, 151, 152, 153	Math. 106	Math. 250, 252, 253
Geog. 150, 151	Phys. 102, 150, 151	Chem. 211, 212, 213, 214, 215, 216, 230, 260, 261
Drawing	Chem. 105, 106, 124	Sugar Tech. 201, 250, 252
Language	Geol. 252, 253, 256	Phys. 200, 250, 251, 252, 253, 255, 350, 351, 353, 355
or	C. E. 101	C. E. 252, 253, 255
Political Science 100	M. D. 133	M. E. 252, 282
	Language	Geol. 254, 255
	or	
	History 140	

GROUP B

BIOLOGICAL SCIENCES

1st Year.	*2nd Year.	†3rd and 4th Years.
Botany 101	Botany 102, 106, 107	Bot. 151, 153, 203, 208, 209, 240, 250, 251, 300
Zoology 150, 151	Chemistry 105, 106	Chem. 230, 260, 261
Geography 150, 151	Zoology 100	Zool. 102, 152, 153, 300
H. S. 100	Entomology 250, 251	Ent. 300, 301, 302
Drawing	Geology 252, 253, 256	Agr. 250, 251, 254, 256, 259, 261, 262
Language	H. S. 102	Geol. 254, 255
or	Physics 102	H. S. 200, 251, 300
Political Science 100	Psychology 150	Econ. 150, 151
	Language	Physiol. 251
	or	Physics 255
	History 140	

* First year electives are open to Sophomores.

† First year science electives taken by Juniors and Seniors count half credit only. Second year electives are open to Juniors and Seniors.

COLLEGE OF ARTS AND SCIENCES

The College of Arts and Sciences has a twofold purpose. Its first aim is to make possible a comprehensive and thorough acquaintance with those fields of thought and achievement, both in the humanities and the sciences, upon which our present civilization has been reared. It seeks also, through the operation of a system of group electives, commencing with the Sophomore year, to prepare the student for those activities which are professional rather than technical in their nature, such as law, medicine, teaching, journalism, commerce, and public and social service.

In the main, therefore, the courses of study offered in this College are those generally recognized as forming the basis of a liberal education. Because of our unique geographical position, standing midway between continental America and the Orient, Hawaii must understand the Orient as well as the Occident. More than usual attention is therefore given to the languages, literature, philosophy, and history of the lands bordering upon the Pacific.

Graduates from the College of Arts and Sciences are awarded the degree of Bachelor of Arts.

Requirements for Graduation. To be entitled to the degree of Bachelor of Arts, the candidate must

- (a) have passed all the prescribed studies (see page 46).
- (b) have received credit for a minimum of 128 semester hours, and
- (c) have gained a minimum of 136 grade points,* of which at least 69 must have been earned during the last half of the course.

Language Requirement. Students in the College of Arts and Sciences must complete French 101, Spanish 101, German 101, or an equivalent by the end of the Sophomore year; or Chinese 200, Japanese 200, Hawaiian 200, or an equivalent by the end of the Junior year. Students who fail to meet this requirement will not be allowed credit toward graduation for a language course taken later to make up this deficiency.

Number of semester hours a semester. Except as provided below, no student in the College of Arts and Sciences shall be permitted to register for more than 16 semester hours in any semester, in addition to the prescribed courses in Military Drill and Physical Education. Students who have, however, during the preceding semester, gained a minimum of 30 grade points may register for 18 credit hours, in addition to Military Drill and Physical Education; as may Freshmen during their first semester, provided their grades in the subjects offered for entrance average 85% or more.

Although the greater part of the work is elective, the student is expected to select his studies in conformance with a well defined

* For an explanation of grade points see page 28.

program. To this end he registers in one of the five groups of allied subjects indicated below, and is given a Faculty Adviser who will assist him in his choice of studies. *No credit will be given for any course not regularly entered, with the Dean's approval, upon the registration card.*

- Group I. History, Economics, and Social Science.
- Group II. Languages, Literature, and Art.
- Group III. Natural and Physical Sciences.
- Group IV. Education.
- Group V. Commerce.

REQUIREMENTS FOR THE BACHELOR OF ARTS DEGREE

PRESCRIBED COURSES			
FIRST YEAR		SECOND YEAR	
	<i>Credits</i>		<i>Credits</i>
English 100.....	3	English 130.....	3
Science*	3 or 4	Science*	3 or 4
Pol. Sc. 100.....	3	Modern Language †	3
Modern Language.....	3	Mil. Sc. or Phys. Ed.....	1 or 2
Mil. Sc. or Phys. Ed. ‡.....	2 or 1	Elective	6-12
Elective	3		
	16-18		16-18

THIRD AND FOURTH YEARS

‡All electives, except Physical Education for women, provided the Modern Language requirement has been met.

GROUP ELECTIVES

In addition to the courses listed above as required of all students in the College of Arts and Sciences, certain elective courses must be chosen to meet the Group Requirements stated below. Other electives may be chosen as the student desires, provided the prerequisites of the courses are satisfied. The student is expected, however, to map out a plan of study with the aid of a Faculty Adviser. The Group Electives are listed under the heads of the respective groups, together with the year in which they can ordinarily be most advantageously taken.

GROUP I—HISTORY, ECONOMICS, AND SOCIAL SCIENCE

Students preparing for the study of law, journalism, or for public or social service will select this Group. Of the 96 elective semester hours, at least 42 are to be chosen from courses in History, Political Science, Sociology, Economics, Commerce, and Geography.

First Year: History 100, 110, 140, 154, 162; Geography 150, 151.

Second Year: History 124, 125, 145, 157, 172, 173, 175; Political Science 105, 106, 110, 120; Economics 123, 150, 151.

* Chem. 101 or 102, or Bot. 101, or Zool. 150, 151, or Physics 152, or the Orientation Course. This requirement may be met either in the Freshman or the Sophomore year.

† Unless met by end of Freshman year.

‡ One credit for women; two credits for men. Physical Education is required of women during the four years.

Third and Fourth Years: History 215, 227, 230, 241, 243, 244, 252, 253, 255, 261, 279, 291; Sociology 250, 252, 253, 254, 255, 260, 261, 262, 265, 267, 279, 281, 350, 351; Economics 260, 261, 262, 263, 270, 281; Commerce 260, 261, 274, 275; Political Science 200, 230, 250, 251, 252, 253, 254, 255, 262, 263; Geography 300.

GROUP II—LANGUAGES, LITERATURE, AND ART

Students desiring to specialize either in languages and literature, or in art, should select this Group.

Of the elective courses, a minimum of 40 semester hours must be chosen from the courses in English, French, Spanish, German, Hawaiian, Chinese, Japanese; Art 100, 101, 110, 111, 120, 200, 201, 202, 203, 210, 211; Sociology 250, 262, 267; Psychology 252, 253; History 110; and Economics 123.

GROUP III—NATURAL AND PHYSICAL SCIENCES

Students preparing for medicine or dentistry will select this Group, provided they are candidates for the degree of Bachelor of Arts. See page 29.

Of the 96 elective semester hours, at least 48 must be chosen from some group of related sciences. A statement of the minimum requirements of medical schools and of subjects strongly urged appears on page 29.

First Year: Chemistry 101 or 102; Botany 101; Zoology 150 and 151; Mathematics 104, 150, 151, 152, 153.

Second Year: Chemistry 105, 106, 124; Zoology 100, 102, 152, 153; Physics 102, 152; Botany 102, 106, 151, 153.

Third Year: Chemistry 230, 260, 261; Botany 203, 250, 251; Entomology 250, 251; Geology 252, 253; Physiology 251.

*Fourth Year.** Chemistry 215, 216, 318; Botany 208, 209, 300; Zoology 300; Entomology 300, 301, 302; Geology 254, 255, 300.

GROUP IV—EDUCATION

The number of semester hours to be chosen within this Group will vary with the subject or subjects the student is preparing to teach. In addition to the courses dealing with the subjects to be taught (see page 62) the student will select courses in Psychology and Education aggregating at least 20 semester hours.

Second Year: Education 151.

Third Year: Education 251; Psychology 250.

*Fourth Year.** Education 200, 252, 253, and 261; Psychology 200, 251, 252 and 253.

GROUP V—COMMERCE

Students desiring a training in Commerce will register in this Group. The courses should be chosen in accordance with the following outline.

* Junior courses are open to Seniors.

OUTLINE OF COURSE IN COMMERCE

FIRST YEAR

	Name of Course	Credits	
		1st Sem.	2d Sem.
English Composition.....	Eng. 100.....	3	3
American Institutions	Pol. Sc. 100.....	3	3
A Modern Language (French, German, Spanish, Hawaiian, Japanese or Chinese; see page 45).....		3	3
Geography.....	Geog. 150, 151.....	3	3
Elective (Mathematics or History advised)		3	3
Military Science or Physical Education.....		2 or 1	2 or 1

SECOND YEAR

	Name of Course	Credits	
		1st Sem.	2d Sem.
English Literature.....	Eng. 130.....	3	3
A Modern Language (cont.).....		3	3
Elements of Economics.....	Econ. 150, 151.....	3	3
Accounting.....	Com. 150, 151.....	3	3
Elective		3	3
Military Science or Physical Education.....		2 or 1	2 or 1

THIRD YEAR

	Name of Course	Credits	
		1st Sem.	2d Sem.
Argumentation or Business Correspondence.....	Eng. 206 or Eng. 201.....	2	2
Money and Banking.....	Econ. 260.....	3	-
Business Law.....	Com. 260, 261.....	2	2
Corporation Finance.....	Com. 264.....	3	-
Business Management.....	Com. 265.....	-	3
Marketing.....	Com. 270, 271.....	3	3
Elective		3	6

FOURTH YEAR

	Name of Course	Credits	
		1st Sem.	2d Sem.
Advanced Accounting.....	Com. 252, 253 or or Foreign Trade.....	3	3
Elective in Commerce.....	Com. 274, 275.....	4	4
Elective		8	8

COURSES OF INSTRUCTION

Courses numbered 100 to 199 are Freshman and Sophomore, or lower division courses. Those numbered 200 to 299 are for Juniors and Seniors, but may be open to graduate students with half or whole credit. The numbers 300 to 399 designate graduate courses, but in some instances Seniors may register in these.

Courses which extend through the year (two semesters) are designated by 00 to 49, as 100 to 149, 200 to 249 and 300 to 349. Courses of one semester length are designated by 50 to 99, as 150 to 199, 250 to 299 and 350 to 399.

Of these latter, first semester courses are designated by even numbers and second semester courses by odd numbers.

Courses marked by an asterisk are open to auditors (see page 26).

ORIENTATION COURSE

Science and Ourselves

Wood-Jones and Porteus

This course, open to all students, is intended to give an intelligent interest in those sciences which deal with man and his position in nature. Its subject matter is drawn chiefly from anthropology, psychology, physiology, and anatomy, and tells the story of man's physical and mental development. It presents a brief survey of the biological sciences in so far as they contribute to an understanding of ourselves and our every-day behavior and is a good background for those intending to pursue further studies in education, medicine, psychology, and sociology. Text: "The Matrix of the Mind." First and second semesters, 3 credits each.

AGRICULTURE

150 Farm Practice

Henke and Krauss

A period of at least eight weeks must be spent in practical farm work, either on the University farm or some other approved farm where diversified agriculture is practiced. The purpose in this course is to gain familiarity with the fundamental agricultural operations, the care of farm animals, and the care and use of implements. Required of all students in Agriculture and Agricultural Division of Sugar Technology before the beginning of the Junior year. Those who can present satisfactory evidence of sufficient practical experience may be excused from this requirement.

151 Animal Husbandry

Henke

A general study of the important breeds of horses, cattle, sheep, and swine, their feeding, care and management. Lectures, recitations and laboratory work. Fee \$1.00. Second semester, 3 credits.

152 Poultry Husbandry

Bice

An elementary course dealing with the embryology of the baby chick, the anatomy of the digestive and reproductive systems, the genetics of

egg production, and the principles of poultry husbandry. Two lectures and one laboratory per week. Fee \$1.00. First semester, 3 credits.

250 Soils**Henke**

Origin, composition, tilth, and fertility of soils with special reference to the Hawaiian Islands. Required of Juniors in Agriculture and Sugar Technology, Agriculture and Chemistry divisions. Prerequisites: Chemistry 101 or 102; Physics 102 or 152. Three lectures or recitations and two laboratory periods each week. Fee \$3.00; returnable deposit \$2.00. First semester, 5 credits.

251* Crops**Krauss**

A study of the history, botany and culture of the leading tropical and temperate zone crops with special emphasis on the former. Required of Juniors in Agriculture and Sugar Technology, Agriculture and Chemistry divisions. Prerequisite: Agriculture 250. Three lectures or recitations, two laboratory periods each week. Fee \$2.00. Second semester, 5 credits.

252* Sugar Cane Production**Henke**

A study of the varieties of cane, their planting, irrigation, fertilization, and harvesting. Includes visits to various experimental fields and plantations. Students are required to keep Fridays as free from other work as possible for field trips. Prerequisite: Agriculture 250 and 254. Lectures, recitations, and laboratory periods. Fee \$2.00. First semester, 4 credits.

253* Dairying**Henke**

A study of dairy cows, the production, handling, and marketing of milk and milk products, milk testing and separation, butter-making, etc. Two lectures or recitations, and one laboratory period a week. Fee \$1.00. Second semester, 3 credits.

254* Genetics**Krauss**

A study of the underlying principles and their practical application in the improvement of plants and animals. Opportunity is offered to qualified students to undertake original investigations in the breeding of sugar cane, pineapples and other crops. The development of new varieties of legumes, tomatoes and other crop plants, as well as of a new variety of poultry is now under way. Required of Juniors in Agriculture and Sugar Technology, Agriculture division. Lectures, recitations and laboratory work. Fee \$1.00. First semester, 3 credits.

255 Poultry Husbandry**Bice**

A course dealing with problems of management on a large commercial poultry farm; an hour report on one phase of the poultry industry; assigned outside reading and discussions based upon important research problems. Prerequisite: Agriculture 152. Two lectures, one quiz. Fee \$1.00. Second semester, 3 credits.

257 Feeds and Feeding**Henke**

A detailed study of the feeding of all kinds of farm and plantation animals. Lectures and recitations. Second semester, 3 credits.

258 Pineapple Field Practice**A. H. P. C. Experiment Station Staff**

Properly qualified students will be recommended for 8 weeks of

summer practice work as student assistants at the Experiment Station of the Hawaiian Pineapple Cannery Association at Wahiawa. The student assistants will be under the direction of the Director of the Station and will be detailed to various activities of the Station with a view to becoming acquainted with as many aspects as possible of pineapple culture. Only students who register in the Course in Agriculture may use these credits towards graduation. Advised as prerequisite for Agriculture 260. 6 credits.

259 Forestry

A study of general forestry problems, with special reference to those of the Hawaiian Islands. The course is given every other year, alternating with Horticulture. Fee \$1.00. Second semester, 3 credits.

260* Pineapple Production **Krauss**

A study of pineapple production in all its phases, paralleling the course in Sugar Production. Advised prerequisites: Agriculture 250 and 258. Fee \$2.00. First semester, 4 credits.

261* Horticulture **Krauss**

A general study of horticulture with special reference to the fruits and vegetables of the Hawaiian Islands. The course is given every other year, alternating with Forestry. Fee \$1.00. Second semester, 3 credits. Given in 1928-1929.

262* Applied Genetics and Breeding **Krauss**

Practical plant and animal improvement by breeding. Application of the laws and principles of genetics in their relation to crop plants and live stock, including poultry. Fee \$1.00. First semester, 3 credits.

263 Senior Field Practice in Pineapple Production **A. H. P. C. Experiment Station Staff**

During the second semester of the Senior year students majoring in Pineapple Production will be required to work in the capacity of student assistants at the Experiment Station of the Hawaiian Pineapple Cannery Association at Wahiawa, under the supervision of the Director of the Station, or be sent out as assistants to the field men in charge of experimental and other work on various plantations. A full report of the work in duplicate must be submitted at the end of the semester. 16 credits.

265 Agricultural Thesis **Henke and Krauss**

Advanced individual work in field and laboratory, with accompanying library work. Second semester, 6 to 10 credits.

300 Research Work **Henke and Krauss**

Situated in a climate where out-of-door experimental work can be carried on the year round, Hawaii affords ideal opportunities for research in tropical agriculture. First and second semesters. Credit by arrangement.

ART

100 Freehand Drawing **Luquiens**

Freehand perspective; drawing in outline and in light and shade from ornamental forms, natural objects, and casts, in pencil and char-

coal; composition; memory sketching. Students who have received entrance credits in freehand drawing and perspective, or have otherwise presented satisfactory evidence of preparation, are given more advanced work. Two periods studio. First and second semesters, 2 credits each.

101 Drawing and Painting

Luquiens

The work of the course is chiefly in color; pastel or oil if the student shows evidence of satisfactory preparation. Still life; study from the living model, head and costume; outdoor work in landscape. Prerequisites: Courses 100 and 110. Two periods studio. First and second semesters, 2 credits each.

110 Design

Sooy

Study of art structure, the elements and principles underlying all art. First semester, exercises in line notan and color harmony to stimulate the appreciation and develop the creative power; color theory. Second semester, more advanced exercises in appreciative study of structure, imaginative use of pattern and abstract form. No prerequisite. First and second semesters, 2 credits each.

111 Advanced Design

Sooy

First semester, composition: the study of beautiful spacing, mass and color using naturalistic forms, exercises forming a basis for pictorial composition. Second semester, pattern and form studied in relation to various industrial materials; textile, wrought iron, pottery, etc. Prerequisite: Course 110; prerequisite or parallel: Course 120. First and second semesters, 2 credits each.

120* Art Appreciation

Sooy

The philosophy of esthetics, an analysis of the elements and principles underlying all the space arts. Appreciative study of the beautiful product of all periods and peoples. Lantern lectures and class discussion. Second semester, a brief resumé of the development of the great movements in art. No prerequisites. First and second semesters, 2 credits each.

200 Drawing and Painting from Life

Luquiens

Students will work from the draped figure, in charcoal or in paint at the discretion of the teacher. Prerequisite: Course 101. Two periods studio. First and second semesters, 2 credits each. (Not offered in 1928-1929.)

201 Etching

Luquiens

A study of the technical methods of etching, including line etching and dry point, and, for students who so wish, soft ground, aquatint, etc. Work will be chiefly in landscape, but ample opportunity will be given advanced students to follow their own preferences in subject and treatment. Press and other permanent equipment furnished by University. Prerequisite: Course 101. Students are requested to confer with instructor before registering. Two periods, studio and outdoor work. First and second semesters, 2 credits each. (Alternates with Course 101. Not offered in 1928-1929.)

202 Advanced Painting or Etching**Luquiens**

An opportunity is offered to advanced students who have taken either Course 101 or Course 201 to continue their work in either line for a second year for credit, at the discretion of the instructor. First and second semesters, 2 credits each.

210 Costume Design**Sooy**

Art structure in its relation to costume. First semester, study of harmonious spacing, tone and color, distribution of ornament and pattern, criticism of prevailing styles in regard to individual becomingness and personality. Brief survey of historic costume. Second semester, costume for the stage. Use of line and color to present mood and character. Prerequisites: Courses 110, 111. First and second semesters, 2 credits each. (Not offered in 1928-1929.)

211 Interior Decoration**Sooy**

Theory and practice in the application of the fundamentals of design to the beautifying of the home. First semester, large compositions of simplified mass and arrangement in the room, special emphasis on color harmony; lectures on historic styles and present day adaptations. Second semester, technical rendering of rooms in color; designing of furniture and art objects; excursions to homes for practical discussion and study. Prerequisites: Courses 110, 111. First and second semesters, 2 credits each. (Not offered in 1928-1929.)

212 Lettering, Poster and Illustration**Sooy**

The use of the alphabet as design motif. Study of beautiful letter forms and the composition of fine page arrangements; combination of lettering and other forms in the poster. Second semester, simple exercises in illustration, carrying on the composition of the figure. Prerequisites: Courses 100, 101, 110, 111. First and second semesters, 2 credits each.

BOTANY**101 General Botany****Bean**

A study of the organization of the plant body of seed-bearing plants. The structure of the members of the plant body, the relation of form to function and adjustment to external conditions are given special attention during the first semester. This is followed in the second semester by a brief survey of the principal groups from algae to seed-bearing plants with a study of the life history of representative forms. The evolution of the vegetative and reproductive organs of the plant as related to the habitat is given special attention. Two periods laboratory and one hour lecture or recitation a week. Fee \$2.00 per semester. First and second semesters, 3 credits each.

102 Elementary Systematic Botany**Bergman**

A study of native and introduced flowering plants, especially with reference to characters which are useful in determining their identity. Practice in the use of keys for identification and in the recognition of the more common forms and families on sight is emphasized. Two or more periods laboratory or field and one hour lecture or recitation a week, with assigned reading. Prerequisite: Botany 101. First and second semesters, 3 or more credits each.

106 Plant Physiology**Bergman and Bean**

A study of the physiological activities of the plant, such as absorption, translocation, synthesis of food materials, respiration, growth, and reproduction. Text: Duggar's "Plant Physiology," with supplementary reading and written reports. Prerequisite: Botany 101. Two periods laboratory and one hour lecture or recitation a week. General fee, \$2.50; breakage deposit, \$3.00 per semester. First and second semesters, 3 credits each.

107 Histological Technique**Bergman**

A course in the preparation of permanent microscopic mounts of plant tissues. Includes methods of killing, fixing, embedding, sectioning, staining and mounting of tissues of various kinds. Supplements Courses 153 and 209. Valuable to students in plant breeding who are interested in the study of physical basis of heredity. Prerequisite: Botany 101. Six to twelve hours laboratory per week. Fee \$2.00 per credit hour. First and second semesters, 2 to 4 hours credit.

151 General Bacteriology**Bergman**

An introductory course on the morphology and physiology of bacteria and the relation of these organisms to household and industrial processes and to sanitation. The preparation of culture media, methods of isolation and the study of cultural characteristics. Text: Hilliard, "A Textbook of Bacteriology and Its Applications." Laboratory guide: Levine, "Laboratory Technique in Bacteriology." Prerequisite: Botany 101 or one year of Zoology. One hour recitation or lecture and six hours laboratory per week. A general fee of \$2.50, together with a breakage deposit of \$5.00 is required in this course. Second semester, 3 credits.

153* Elementary Plant Pathology**Bergman**

A systematic study of plant diseases. The morphologic characters, life history and methods of control. Text: Duggar's "Diseases of Plants." Prerequisite: Botany 101. Two periods laboratory and one hour lecture or recitation a week. Fee \$3.50. Second semester, 3 credits. (Offered in alternate years. Not given in 1928-1929.)

203 Plant Ecology**Bergman**

A study of plants in relation to the environment. The use of exact methods in the measurement of factors of the environment and of the effect of these factors on the plant. Studies in migration, invasion, competition and dominance in relation to plant succession, and the use of exact methods of determining the composition of the plant community. Prerequisites: Botany 102, 106 and 209. Two or three periods field or laboratory with one hour lecture or recitation a week and assigned reading. Fee \$2.00 per semester. First and second semesters, 2 or 3 credits each. (Offered in alternate years. Not given in 1928-1929.)

208 Advanced Plant Physiology**Bergman**

An experimental study of the processes of nutrition and growth of plants, with collateral reading and conference, and written reports. Text: Palladin, "Physiology of Plants." Prerequisite: Botany 101

and 106 and Organic Chemistry and Chemistry 310. Two or three laboratory periods per week. Fee \$5.00 per semester. First and second semesters, 2 or 3 credits each.

209 Plant Anatomy**Bergman**

A study of the structure of vascular plants. The origin and differentiation of tissues and the relation of structure to function are emphasized. Text: Eames and McDaniels, "Introduction to Plant Anatomy." Prerequisite: Botany 101; Botany 107 desirable but not required. Two laboratory periods and one hour recitation a week, with assigned reading. First and second semesters, 3 credits each.

240 Plant Biochemistry**Bergman**

The isolation, purification, and identification of organic and inorganic plant constituents with a study of their probable origin and function in the plant. Prerequisite: Botany 208. Three laboratory periods per week, with assigned reading and written reports. General fee \$3.00, breakage deposit \$3.00 per semester. First and second semesters, 3 credits each.

250 Taxonomy of the Grasses**Bergman**

A study of the morphology of the flower in the different tribes of grasses with reference to relationship and probable evolution. Practice in the identification of species and in sight recognition of tribes and genera is included. Prerequisite: Botany 102. Three laboratory periods per week, with assigned reading. First semester, 3 credits.

251 Taxonomy of the Compositae**Bergman**

A study of the morphology of the flower in the different tribes of Compositae with reference to relationship and probable evolution. Practice in the identification of species and in sight recognition of tribes is included. Prerequisite: Botany 102. Three laboratory periods per week, with assigned reading. Second semester, 3 credits.

300 Botanical Research**Bergman**

Open to students who show sufficient preparation and ability to carry on studies of an investigational nature. Hours and credits to be arranged.

CHEMISTRY**101 General Chemistry****Wrenshall and Fujimoto**

An elementary course in general chemistry, for students without previous training in the subject, designed to serve either as a foundation for further work in chemistry or as a brief survey of the science for those who do not intend to take further work in chemistry. Students who receive entrance credit in chemistry will not be given University credit in this course. Three hours classroom and one period laboratory a week. Text: "An Elementary Study of Chemistry" by McPherson and Henderson, with accompanying laboratory manual. Fee \$5.00 per semester; breakage deposit, \$3.00 per semester. First and second semesters, 4 credits each.

102 Advanced Inorganic Chemistry**Bilger and Fujimoto**

Designed to qualify students who have had chemistry in preparatory schools for advanced work in chemistry, or to serve as a comprehensive survey of the science. Fundamental theories and laws of chemistry are emphasized. The last month in the course is devoted to qualitative analysis and the principles of theoretical chemistry upon which it is based. Experimental lectures, recitations, and laboratory work. Texts: "General Chemistry," by Deming; "Exercises in General Chemistry," by Deming and Arenson; and "Outline of the Methods of Qualitative Chemical Analysis," by Carney. This course may not be taken for credit by students who have received credit for Chemistry 101. Prerequisite: a previous course in elementary chemistry. Three hours classroom and one laboratory period a week. Fee \$5.00 per semester; breakage deposit \$3.00 per semester. First and second semesters, 4 credits each.

105* Organic Chemistry**Wrenshall**

The Aliphatic and Aromatic Series. Lectures, collateral reading, discussions, and frequent quizzes. For those who specialize in chemistry and sugar technology this is accompanied by the laboratory course. Text: J. F. Norris' "Organic Chemistry." Prerequisite: Chemistry 101 or 102. Three hours classroom a week. First and second semesters, 3 credits each.

106 Organic Chemistry Laboratory**Wrenshall**

To be taken in conjunction with Chemistry 105. A study of the preparation, separation and analysis of a number of organic compounds. One period laboratory a week. Text: J. F. Norris' "Experimental Organic Chemistry." Fee \$6.00 per semester; breakage deposit \$5.00 per semester. First and second semesters, 1 credit each.

124 Qualitative Analysis**Bilger**

A course in systematic qualitative analysis covering the characteristic reactions, detection, and separation of the common basic and acidic ions. Methods for the solution and analysis of solid unknowns are also included. In the lecture period the fundamental principles of theoretical chemistry and reactions involved in the analysis are studied. Texts: "Qualitative Chemical Analysis," by A. A. Noyes, and "The Elements of Qualitative Chemical Analysis," Volume I, by Stieglitz. Prerequisite: Chemistry 101 or 102. One lecture and two periods of laboratory a week or lectures at the discretion of the instructor. Fee \$5.00 per semester; breakage deposit \$5.00 per semester. First and second semesters, 3 credits each.

211 Physical Chemistry**Bilger**

An introductory, non-mathematical course in the general principles of theoretical chemistry, including the study of pressure-volume relations of gases, theories of solution, homogeneous chemical equilibrium, phase rule, colloids, thermochemistry, electrochemistry, and the modern theories of the constitution of matter. It is advised that this course be taken concurrently with Chemistry 212 and 214. Text: "Physical Chemistry for Colleges," by Millard. Prerequisites: Chemistry 124 and 230. Two hours classroom a week. First and second semesters, 2 credits each.

212 Physical Chemistry Laboratory**Bilger**

A series of laboratory exercises in the practice of physical chemical methods. Open to students who have completed or are taking Chemistry 211. Texts: "Laboratory Manual of Physical Chemistry," by Davidson and Van Klooster, and "Practical Physical Chemistry" by Findlay. Prerequisites: Chemistry 124 and 230. Permission to take Chemistry 212 must be obtained from the instructor before registration. One laboratory period a week. Fee \$3.00 per semester; breakage deposit \$5.00 per semester. First and second semesters, 1 credit each.

213 Advanced Physical Chemistry Laboratory**Bilger**

A continuation of Chemistry 212. Open only to students who have completed Chemistry 212. Permission to take Chemistry 213 must be obtained from the instructor before registration. Fee \$3.00 per semester; breakage deposit \$5.00 per semester. First and second semesters, 1 credit each.

214 Problems in Physical Chemistry**Bilger**

A course dealing with the solution of problems pertaining to the topics which form the titles of the chapters of Millard's "Physical Chemistry for Colleges." It is advised that this course be taken concurrently with Chemistry 211. Text: "Physico-Chemical Calculations," by Knox. Open only to students who are taking or have taken Chemistry 211. One hour classroom a week. First and second semesters, 1 credit each.

215 Chemical Literature**Dillingham, Wrenshall and Bilger**

A library course in which articles appearing in current chemical periodicals are studied, and topics are assigned for reports. Prerequisites: Chemistry 101 or 102, 124 and 230. To be taken in conjunction with Chemistry 216. One hour classroom a week. First and second semesters, 1 credit each.

216 Advanced Quantitative Analysis—Dillingham, Wrenshall & Bilger

Analysis of special substances, such as foodstuffs, soils, fertilizers, ores, iron, steel, water, etc. Prerequisites: Chemistry 101 or 102, 124 and 230. Three periods laboratory a week. Fee \$5.00 per semester; breakage deposit \$5.00 per semester. First and second semesters, 3 credits each.

230 Quantitative Analysis**Wrenshall and Fujimoto**

The principles of gravimetric and volumetric analysis, including laboratory practice in calibration of glassware, determination of the constants of the balance, and the analysis of pure substances and commercial products. Text: "Quantitative Analysis," by Popoff, and "Chemical Calculations" by Wells. Prerequisites: Chemistry 102, or 101 and 124. One hour classroom and two periods laboratory a week. Fee \$5.00 per semester; breakage deposit \$5.00 per semester. First and second semesters, 3 credits each.

260* Biological Chemistry**Dillingham**

A course consisting of lectures, recitations, supplementary reading, and laboratory periods dealing with the chemistry of food constituents,

plant and animal life and nutrition. Prerequisites: Chemistry 102, or 101 and 124 and first semester of 105. Two hours classroom and one laboratory period a week. Fee \$4.00; breakage deposit \$3.00. First semester, 3 credits.

261* Agricultural Chemistry**Dillingham**

A course consisting of recitations, supplementary reading and laboratory periods dealing with the chemistry of soils, fertilizers, foods and insecticides. Prerequisites: Chemistry 260 and its prerequisites, and one semester of chemistry 230. Two hours classroom and two laboratory periods a week. Fee \$5.00; breakage deposit, \$5.00. Second semester, 4 credits.

310 Colloid Chemistry**Bilger**

An introduction to the chemistry of colloids. Chiefly laboratory work with occasional lectures, class discussions, and conferences. Assigned readings in various standard text books on colloids and also in the chemical journals; written reports are required. Open to students who have completed or are taking Chemistry 211. Text: "Laboratory Manual of Colloid Chemistry," by Holmes. Prerequisites: Chemistry 124, 230 and 212. Permission to take Chemistry 310 must be obtained from the instructor before registration. Fee \$3.00 per semester; breakage deposit \$5.00 per semester. First and second semesters, 1 credit each. (Alternate years, not offered in 1928-1929.)

318 Chemistry Research **Dean, Dillingham, Wrenshall and Bilger**

The preparation of a thesis on some subject in pure or applied chemistry. Elective course, particularly for graduate students. Hours, credits and fees to be arranged. Fee and breakage deposit not less than \$10.00 each per semester.

CHINESE**100 First Year Chinese****Lee**

Study of foundation characters. Reading and construction of characters and sentences; dictation, simple conversation and translation. Text: Chu and Tao's "Easy Chinese Lessons", Book I and II. First and second semesters, 3 credits each.

100b Beginners Course for Occidental Students**Lee**

Study of foundation characters. Pronunciation, and construction of characters; simple conversation and translation. Text to be compiled by the instructor. First and second semesters, 3 credits each. (Not offered in 1928-1929). (Note: Since the methods and technique of teaching the Chinese language to Occidental students are necessarily different from those in presenting the subject to Oriental students, a separate division of Beginners Chinese is offered for Occidental students.)

101 Second Year Chinese**Lee**

Continues the study of foundation characters and idioms. Reading, construction of characters and sentences, dictation, conversation, and translation. Text: Chu and Tao's "Easy Chinese Lessons", Book III and IV. First and second semesters, 3 credits each.

200 Third Year Chinese

Lee

Reading of short stories and simple newspaper articles; study of simple poems and proverbs; letter-writing, composition, and translation. Text to be selected. First and second semesters, 3 credits each.

201 Classical Literature

Lee

Study of selected works of Confucius, Mencius, Mocius and of several other authors of the various periods in the history of Chinese literature. This course is especially prepared for those College students who have graduated from the Chinese language schools. First and second semesters, 2 credits each. (Not offered 1st semester 1928-1929.)

CIVIL ENGINEERING

(See Engineering)

COMMERCE

150-151 Elementary Accounting

Graham

A study of the fundamental principles of accounting supplemented by practice in the solution of problems. The proprietorship equation; principles of debit and credit and their application to the balance sheet and the profit and loss statement; controlling accounts, and the use of the simple columnar journals; a brief introduction to the corporate form of organization. First and second semesters, 3 credits each.

250-251 Intermediate Accounting

Graham

The principles and practice of accounting in relation to the corporation. Accounting for capital stock, bonds, and sinking funds; theory and practice of depreciation, capital and revenue expenditures, and special reserves. Preparation of the balance sheet and profit and loss statement for managerial use. Prerequisite: a grade of at least 70 in Commerce 151. First and second semesters, 3 credits each.

252-253 Advanced Accounting

Graham

A study of certain material not covered in the preliminary courses, such as, the consolidated balance sheet and income statement, budgetary control, and the analysis of financial statements. Particular emphasis will be placed upon the relation of accounting to management. In addition, the student will be given further practice in the solution of C. P. A. and similar problems covering the general field of accounting theory and practice. Prerequisite: A grade of at least 70 in Commerce 251. First and second semesters, 3 credits each.

260-261* Business Law

Lectures and Reading. First and second semesters, 2 credits each. (Not offered 1928-1929.)

264 Business Management

Dorfman

An analysis of the types of organization; plant location; forms in organization management; personnel administration—labor problems, wage scales; scientific management; a survey of the problems of

large scale production. Prerequisites: Junior standing and Economics 150-151. First semester, 3 credits.

265 Corporation Finance

Dorfman

A study of the corporate form of organization. Corporate instruments; methods of financing; sale of securities; combinations and consolidations; the relation of the corporation to the stockholder, the bondholder, the general creditor, and the outside public; the stock exchange. Prerequisite: Commerce 150-151. Second semester, 3 credits.

270-271 Marketing

Dorfman

Functions of marketing; transportation, finance, and agricultural credit in particular; Marketing Systems, direct, indirect, and cooperative; Marketing Agencies, a discussion of middlemen and their functions; price; organized exchanges; forecasting; risk assumption and hedging. Second semester—Analysis of general, specialty, department, and chain stores, and mail order houses. The major part of the course is devoted to practical problems with special reference to wholesale and retail trade; brands, trademarks, advertising, and price policies. Prerequisites: Junior standing and Economics 150-151. Prescribed for students in Commerce. First and second semesters, 3 credits each.

272 Sales Management

Dorfman

A course devoted to analyzing the essentials of a good sales organization, and dealing with the salesmanager, his relation to factory, product and market; price-making and price protection; selection of salesmen; training, equipment; territory; compensation; contests; conventions and conferences; meeting competition; types of sales strategy; principles of selling service; selling cost and expense; sales budgeting; interlocking selling and advertising effort. Practical illustrative problems. First semester, 2 credits. (Not offered 1928-1929.)

273 Advertising

Dorfman

Special emphasis is devoted to the nature, purpose, and structure of advertising copy; psychological problems involved; mediums; principles of size and position; display; form; border; color; illustration; type principles; arrangement; methods of testing; outdoor and foreign advertising. Second semester, 3 credits.

274-275 Foreign Trade

Dorfman

Principles of foreign trade, past and present; governmental aid; commercial treaties; a detailed discussion of the tariff and tariff making; trade and trade routes of the world; balances of trade; invisible exports and imports; elements of foreign exchange. Second semester—Practical exporting; export sales organization, sales methods; financing, credits and collections; technical papers in export procedure; detailed problems in exporting and importing. Prerequisites: Junior standing and Economics 150-151. First and second semesters, 3 credits each.

276 Retail Merchandizing

Dorfman

Consideration is given to retail selling methods and store management, with particular reference to local conditions. Attention will be

given to store personnel problems; employee turnover; wages and education of salespeople; store location and rent factors; merchandise classification and control; layout and arrangement of displays; stock-turn; advertising; branded and trade-marked goods; determination of most profitable lines; costs of distribution; price policies; credit; financial features; returned goods; delivery; general administrative problems. First semester, 2 credits.

291 Statistics**Dorfman**

Statistical indices of business conditions; averages and means of determination; graphic presentation; methods of eliminating seasonal variation and secular trend; moving averages; dispersion, skewness, correlation; internal and external financial and business statistics; index numbers; weekly problems. Prerequisite: Junior standing. Recommended to commerce students. Second semester, 3 credits. (Not offered 1928-1929.)

ECONOMICS**123 Economic History****Reynolds**

The history of the development of industrial methods and institutions. The changing technique of production and distribution of economic goods. Special emphasis will be laid upon the developments of the Industrial Revolution, the social problems arising therefrom, and the political and other attempts to solve these problems. The first semester will deal more particularly with the industrial history of England and the continent of Europe, while the work of the second semester will stress the economic development of the United States as it fits into the changing world order. First and second semesters, 3 credits each.

150-151 Elements of Economics**Reynolds**

An introductory course. Organization of production; price; distribution. First and second semesters, 3 credits each.

252 Introduction to Economics**Reynolds**

A course open to Junior and to Senior students in Agriculture, Civil Engineering and Sugar Technology. Students can not receive credit for both this course and course 150-151. First semester, 3 credits. (Not offered 1928-1929.)

260 Money and Banking**Reynolds**

A study of the problems centering around the use of money and credit. Prerequisite: Economics 150-151. First semester, 3 credits.

261 Public Finance**Reynolds**

Principles of taxation and public expenditures. National, state, and local taxes. Public debts. Prerequisite: Economics 150-151. Second semester, 3 credits.

262-263 Practical Banking**Reynolds**

A course in actual work in the Bank of Hawaii and under the direction of the officers of the bank. Students will be given an opportunity to learn the varied sorts of banking procedure, receiving

promotion to new kinds of work as their practical efficiency and other conditions may warrant. Students will work two afternoons of each week from one o'clock till the books are balanced. Open only to students who have credit in or are registered in Economics 260 and who are recommended by the professor of economics and accepted by the bank. Reports of progress will be required monthly. Two credits each semester.

270 Transportation**Reynolds**

Ocean, rail, and inland water transportation. Prerequisite: Economics 150-151. First semester, 3 credits. (Not offered 1928-1929.)

281* Labor**Reynolds**

A study of legal and social aspects. Prerequisite: Economics 150-151. Second semester, 3 credits. (Not offered 1928-1929.)

EDUCATION

Each prospective teacher will be expected to earn at least six units of credit in Psychology, exclusive of Psychology 150, and fourteen in Education including the Principles and Practice of Teaching and the Principles of Secondary Education. In case of previous successful teaching experience the five-hour requirement of practice teaching may be waived.

In addition it is urged that English 205 be taken, as ability in public speaking is invaluable in the teaching profession. In fact a thorough command of both oral and written English is so essential in teaching that students who have defects in either are seriously advised not to consider teaching as a career.

Every student should be equipped to teach two subjects in the secondary school and therefore should concentrate on these subjects during the university course. In each case the amount and quality of the work required in the teaching subjects will be determined by the Department of Education and the other Departments concerned.

As the University is desirous of correlating its work as far as possible with that of the public and private schools an effort will be made to arrange advanced courses for properly qualified teachers-in-service when there is sufficient demand for such courses.

151* Introduction to Education**Livesay**

This course is intended for beginning students in Education and others who may be interested in the field even though they are not looking forward to the teaching profession. The aim is to give the student a survey of the broad field of Education. Treatment is given to such topics as teaching as a profession, public school organization, the curriculum, the historical background of American education, scientific principles of child training, etc. Not open to first year students. Second semester, 3 credits.

200 Directed Reading in Education**Livesay and Armstrong**

Open only to those qualified to do independent work and show results. Either semester, credit to be arranged. Roughly one point

of credit is the equivalent of 54 hours of satisfactory work. Registration only by permission of instructor.

251* Principles of Secondary Education**Livesay**

This course deals with the sociological and psychological principles which are fundamental to the present organization, administration, and selection of subject matter of the secondary school. The nature of the adolescent, the historical development of secondary education, secondary education in other countries, the place of the various subjects in the high school program, curriculum organization, and other major topics are considered. Prerequisites: Education 151 and Psychology 250. Second semester, 3 credits.

252 Principles of Teaching in Secondary Schools**Livesay**

A treatment of the application of psychological principles to classroom procedure. The course covers such topics as diagnosis of pupils, motivation, lesson planning, discipline, teaching pupils to think, testing, and supervised study. Systematic visits to secondary schools will be required as part of the course. Limited to seniors and graduate students who have completed twelve semester hours in education and psychology. First semester, 3 credits.

**252a Principles of Teaching Home Economics
in Secondary Schools****Erwin**

A course for prospective teachers of Home Economics as well as for teachers in service. The course will include such topics as the aims in teaching home economics, problems in the various phases of subject matter, methods of presentation, planning a course of study to fit the needs of the girl, aids in teaching, and laboratory equipment and text-books. A one credit course planned to supplement the general course in methods—Education 252. (Not offered in 1928-1929.)

253 Practice in Teaching in Secondary Schools**Livesay**

Practice in teaching in secondary schools in Honolulu. An arrangement exists between the Department of Education and the Department of Public Instruction whereby qualified students may have opportunity to do practice teaching in Honolulu High Schools. Usually this involves the responsibility of a class or group for the remainder of the year. During the semester when practice teaching is carried on no student should take more than 13 semester hours, exclusive of Education 253. Credit for this course is not granted if the student has previously held a responsible teaching position for pay. Open only to those who have had Education 252 in the first semester of the same year. Second semester, 5 credits.

261 Educational Tests and Measurements**Livesay**

Principles of test construction, use of tests and scales in the administration and supervision of instruction, pupil diagnosis on the basis of test scores, etc. Simple graphical and statistical methods introduced and developed as needed. Second semester, 3 credits.

271 Principles of Vocational Education **Armstrong**

What vocational education is; the development of vocational education, with special reference to agriculture; organizations adapted to this type of work; organization for vocational education in Hawaii. Required of those preparing to teach vocational agriculture. Three lecture-recitations per week. Second semester, 3 credits.

275—Methods and Practice in Teaching Vocational Agriculture **Armstrong**

Special methods used in teaching vocational agriculture. Students must spend a part of the semester teaching vocational agriculture in some school of the Territory. Designed especially for seniors. Second semester, 5 to 10 credits.

300 Research in Education **Livesay and Armstrong**

An opportunity is offered for qualified graduate students to work on research problems in some field of Education. Registration allowed only after consultation with the instructor concerned.

ENGINEERING**CIVIL ENGINEERING****C. E. 101 Surveying** **C. Andrews**

Plane surveying, supplemented by lectures and drafting-room exercises. The use of the chain, tape, transit and level, and practice in the manipulation of these instruments in the field. The drafting-room work includes practice in the computations that the surveyor is called upon to make, and plotting from original notes. Text: Breed and Hosmer's "Principles and Practice of Surveying," Vol. 1. Prerequisites: M. D. 101, Mathematics 104 or 150 and 151. Required of Freshmen in Civil Engineering and Sugar Technology, Sugarhouse Engineering division; Sophomores in Sugar Technology, Agricultural division. Elective for Sophomores in Agriculture, General Science and Sugar Technology, Chemistry division. \$2.00 per semester. Two field or drafting periods and one recitation. First and second semesters, 3 credits each.

C. E. 125 Roads and Pavements **Keller**

Lectures, laboratory, practice in testing materials of road construction, and inspection of local types of pavements. The lecture work covers the construction and maintenance of various types of roads and city pavements, special reference being made to local types. Prior to inspection trips, the specifications under which the road to be visited was built are studied. In the laboratory the student becomes familiar with the type machines used in testing road materials and the methods of performing such tests. Text: Blanchard and Drown's "Textbook on Highway Engineering" and Besson's "City Pavements." Prerequisites: C. E. 101 and M. D. 101. Sophomores in Civil Engineering. \$2.00 per semester. First and second semesters, 2 credits each.

C. E. 201 Surveying and Drawing **C. Andrews**

Recitation and field and drafting work, covering the various methods of making and plotting topographical surveys, including the

theory and use of the plane table, stadia, sextant, and solar attachment to the transit. Students are required to make and reduce observations illustrating the methods of base line measurement, triangulation, and precise leveling. Text: Breed and Hosmer's "Principles and Practice of Surveying," Vol. II, and Leland's "Practical Least Squares." Prerequisites: Mathematics 106 and C. E. 101. Juniors in Civil Engineering. \$2.00 per semester. First and second semesters, 3 credits. (Alternates with C. E. 227. Not offered in 1928-1929.)

C. E. 227 Surveying**C. Andrews**

Railroad surveying, construction, and economics. Field work and recitations, covering the methods of establishing grade lines, laying out circular and transition curves, the reconnaissance, preliminary and location surveys for a railroad; earthwork computation, maps, profiles; plans of structures and estimates. Texts: Willard's "Maintenance of Ways and Structures"; Cain's "Earth Pressure, Walls and Bins"; Searles' & Ives' "Field Engineering." Prerequisites: C. E. 101, Mathematics 106. Seniors in Civil Engineering. \$2.00 per semester. First and second semesters, 3 credits each. (Alternates with C. E. 201. Given in 1928-1929.)

C. E. 229* Municipal Engineering**Keller**

Lectures and recitations, including the general principles and methods of construction and cost; city water supply; waterworks, and fire protection; the method of sewage and garbage disposal; the hydraulics of sewers; the relation of rainfall to storm flow. Part of the course is devoted to municipal transportation problems now handled by the various public service commissions. Texts: Turneure & Russell's "Public Water Supply"; Metcalf & Eddy, "Sewerage and Sewage Disposal, a Textbook"; Engineering Periodicals and U. S. Government Reports. Seniors in Civil Engineering. First and second semesters, 3 credits each.

C. E. 231* Soil Mechanics**C. Andrews**

Lectures and discussions covering the field of recent scientific investigations relating to earthwork engineering, particularly dealing with the work of Terzaghi and other European and American investigators. The first part of the course deals with the physical factors involved in earth pressure phenomena, including a study of the physical properties of soils which are of practical importance in connection with engineering operations. The second part of the course is devoted to a study of the various soil phenomena which are known to occur in connection with earthwork operations and foundation work. Open to Seniors in engineering and to qualified practicing engineers. First and second semesters, 1 or 2 credits each.

C. E. 252* Analytical and Applied Mechanics**C. Andrews**

The fundamental principles of the various branches of applied mechanics, and the use of higher mathematics in the solution of problems relating to engineering work. Includes the study of analytical statics, composition and resolution of forces, application to rigid bodies, centers of gravity, centers of mass, friction, work, flexible cords, funicular polygon, and the catenary, together with a large number of problems to illustrate special and general methods

of solution. The analytical theory of kinetics is developed and special attention is given to the laws of motion, variable forces, constrained motion, central forces, impact, energy, dynamics of prime movers, moments of inertia, rotary motion, and the simple and compound pendulum. Text: Poorman's "Mechanics." Prerequisite: Mathematics 106. Juniors in Civil Engineering and Sugar Technology, Sugar-house Engineering division. First semester, 4 credits.

C. E. 253* Structural Mechanics**C. Andrews**

The resistance and elasticity of materials in tension, compression, and shearing stress, and the study and calculation of riveted joints, simple beams, cantilevers, restrained and continuous beams, safe loads, elastic curves, deflections, beams of uniform strength, columns, temperature stresses, and horizontal shear in beams, together with the solution of numerous practical problems. Text: Poorman's "Strength of Materials." Prerequisite: C. E. 252. Juniors in Engineering and Sugar Technology, Sugar-house Engineering division. Second semester, 4 credits.

C. E. 255 Hydraulics**Keller**

Lectures and recitations covering the more important principles of hydraulics which govern and treat of fluids at rest, hydrostatic pressure, manometers, and Pitot tube, Venturi meter, strength of pipes, pressure of water against walls and dams, earth pressure, barometric leveling, flow of liquids through pipes and over weirs, fluid friction, loss of head, flow of water in open channels, Kutter's formula, impulse and resistance of fluids, the Pelton water wheel, overshot, breast and undershot wheels; turbines and reaction wheels, and the general practice of turbine testing. The laboratory practice includes the gauging and measurement of flow in channels and over weirs, tests of water motors of various types, tests of hydraulic rams, and pumping machinery of various kinds. Text: Schoder & Dawson's "Hydraulics." Prerequisite or parallel: C. E. 252 and 253. Juniors in Civil Engineering and Sugar Technology, Sugar-house Engineering division. Second semester, 3 credits.

C. E. 257 Irrigation Engineering**Keller**

An elementary course which covers the laws governing rainfall, evaporation and runoff, followed by a study of the methods of distributing irrigation water, the losses involved and the amount of water required to irrigate various crops. This course, although primarily designed for engineers, is open to properly prepared students electing other courses. Texts: Meyer's "Hydrology," Fortier's "Use of Water in Irrigation," also government pamphlets. Prerequisite or parallel: C. E. 255. Juniors in Civil Engineering. Second semester, 2 credits.

C. E. 276 Structural Design**Young**

Lectures and drafting exercises, in which the student computes the stresses and designs the members of a plate girder bridge and a steel building truss. Includes the making of complete detail drawings and specifications, done under close supervision and carefully checked. The important general points are covered by lectures, minor points being taken up with individual students during the progress of the work. Text: Hool & Kinne "Stresses in Framed

Structures" and "Structural Members and Connections." Seniors in Civil Engineering. First semester, 3 credits.

C. E. 277 Bridge Design

Young,

Lectures and drafting exercises following C. E. 276 and covering the complete design of a single track through bridge for a given conventional loading, and including all computation, the making of complete engineer's drawings, and the specifications. Text: Hool & Kinne "Steel and Timber Structures." Seniors in Civil Engineering. Second semester, 3 credits.

C. E. 279 Concrete and Masonry Structures

Young

The properties of stone, brick, and concrete, and their uses in engineering structures, such as foundations, retaining walls, piers, abutments, and dams; including the design of arches and dams in stone, and the design of reinforced concrete structures, such as beams, girders, columns, floor slabs, and highway bridges. Lectures and drawing-room work, supplemented by library reference. Text: Hool & Kinne, "Concrete and Masonry Structures." Prerequisites: C. E. 201, 252 and 253. Seniors in Civil Engineering. Second semester, 3 credits.

C. E. 280 or 281 (may be taken either semester) Water Analysis Keller

A laboratory course which covers the standard methods of making physical, chemical and bacteriological examinations of water and sewage. Text: American Public Health Standard Methods. Prerequisite or parallel: C. E. 229. Elective for Seniors in Civil Engineering. Either semester, credits to be arranged.

C. E. 282 Hydraulic Construction

Keller

Lectures, recitations and reports covering the more important hydraulic constructions. The work is divided into three parts, as follows: water storage, including reservoir capacity, available sources of supply, the design of spillways and flood channels; irrigation engineering, including methods of distribution, construction of flumes, tunnels, and ditches, and also touching upon the agricultural problems involved; harbor engineering, including a study of various types of wharves, methods of dredging, and harbor improvement. Prerequisites: C. E. 252, 253 and 255. Seniors in Civil Engineering. First semester, 2 credits.

C. E. 287* Arches

C. Andrews

Design and investigation of the stability of masonry and reinforced concrete arches. Lectures and drafting exercises, covering the design of a typical masonry arch bridge, and the drawing of equilibrium polygons for various loadings. Prerequisite: C. E. 253. Elective for Seniors in Civil Engineering. Second semester, 2 credits.

DRAWING AND MACHINE DESIGN (M. D.)

M. D. 101 Mechanical and Freehand Drawing

Webster

Elementary drafting, which includes freehand sketching, freehand lettering, use of instruments, conventional sections, drawing from copies and models (using parts of machines from the mechanical

laboratory as models), the making of shop drawings, shading, tracing and blue-printing; in which particular attention is given to lettering, general neatness, and accuracy. Text: French's "Engineering Drawing." The cost of materials and instruments required is about \$50.00. First and second semesters, 2 credits each.

M. D. 103 Descriptive Geometry and Lettering Webster

An elementary course in practical descriptive geometry designed for entering students in engineering who offer for entrance two or more years of mechanical drawing and who satisfactorily pass a test given as first exercise in mechanical drawing, M. D. 101. Freshmen satisfactorily completing this course will receive advanced work in descriptive geometry and elementary work in kinematics in place of the regularly scheduled work for Sophomores in M. D. 133. First and second semesters, 2 credits each.

M. D. 133 Descriptive Geometry Webster

Descriptive geometry, with special reference to its application to practical work in the drafting office, embracing lectures and drafting-room practice in which a large number of problems of a practical nature are worked out. Prerequisite: M. D. 101 and Mathematics 104. Texts: "Descriptive Geometry," Tracy & North. "Exercises in Descriptive Geometry," Kirby. Sophomores in Engineering and Sugar Technology, Sugar-house Engineering division. First and second semesters, 2 credits each.

MECHANICAL ENGINEERING (M. E.)

M. E. 129 Office and Shop Methods C. Andrews

Lectures, drafting and shop inspections. Lectures familiarizing the students with the type and use of machines and tools used in pattern, wood-working, forge and machine shops. The laboratory work consists of inspections of typical local shops and practice in estimating. The elements of Graphical Statics are taken up in the second semester. Prerequisite: M. D. 101. Sophomores in Civil Engineering and Sugar Technology, Sugar-house Engineering division. First and second semesters, 2 credits each.

M. E. 252 Materials of Engineering Keller

Lectures and recitations on the properties and requirements for materials used in engineering construction, including wood, iron, steel and concrete. Methods of manufacture as affecting quality of material, standard tests employed to secure the proper grade of material, and standard specifications. Prerequisites: Mathematics 106, M. D. 133. Juniors in Civil Engineering. First semester, 3 credits.

M. E. 282 Steam Machinery. Young

The fundamental laws governing the transformation of heat into work, embracing the properties of gases, laws of expansion, heat measurement, the mechanical equivalent of heat, properties of steam, construction and study of steam tables, and heat analysis as applied to steam and internal combustion engines. The solution of a large number of problems of a practical nature is required. Lectures and recitations. Prerequisites: Mathematics 106, M. D. 133. Senior Civil

Engineers and Juniors in Sugar Technology, Sugar-house Engineering division. First semester, 3 credits.

M. E. 283 Contracts and Specifications **Keller**

Lectures on contracts, touching upon points likely to be of value to engineers, together with such principles of law as should be understood by the engineer who is entrusted with the drawing of contracts, followed by a detailed study of typical contracts and specifications for engineering work of various kinds. Text: Allen, "Business Law for Engineers." Prerequisite: M. E. 282, or C. E. 229. Seniors in Civil Engineering. Second semester, 2 credits.

M. E. 284 Engineering of Sugar Plants **G. H. W. Barnhart**

Lectures and drafting-room exercises involving the application of the fundamental principles of engineering practice to modern sugar works, including grinding and evaporating machinery, boiler and engine plant, conveying machinery, industrial railways, arrangement of buildings, layout of plant, and other general and special engineering considerations affecting the making and refining of sugar. Prerequisite: M. E. 282. Seniors in Sugar Technology, Sugar-house Engineering division. First semester, 4 credits. (Not offered in 1928-1929.)

ENGINEERING LABORATORY (X. E.)

X. E. 253 Materials Laboratory **Keller**

Laboratory practice in testing the materials of construction, involving complete tests of specimens of wood, iron, steel, and concrete in their various forms. Special attention is given to the preparation and testing of specimens of concrete, both plain and reinforced, in the form of cubes, columns, beams, and girders. The facilities available for such work are ample and the instruction given covers a large number of practical tests, thus affording the student valuable means of familiarizing himself with the behavior of such materials under stress. Prerequisite: C. E. 252. Juniors in Civil Engineering and Sugar Technology, Sugar-house Engineering division. Fee \$5.00. Second semester, 3 credits for students in Civil Engineering and 2 credits for students in Sugar-house Engineering division of Sugar Technology.

ENGLISH

All candidates for admission to the University as regular students and all special students desiring to elect English 100 are given a Placement Test in English. All who fail to make a satisfactory grade must register in English 50.

50 Elementary Composition **Cadwell and Hallock**

An elementary course in composition to be taken by all Freshmen whose placement tests show insufficient preparation for English 100. At the beginning of the second semester those who are deemed qualified may register for English 100B; for others the course will continue throughout the year. Three class meetings a week; 1 credit. *Students taking this course will be charged a fee of \$10.00 a semester.*

100 Composition **Neil, Schwartz, Stroven, Cadwell, Hallock**

The principles of exposition, description, and narration; analysis of illustrative specimens; frequent written exercises, and individual conferences with instructor; occasional exercises in oral composition; collateral reading. Designed to lead not only to correctness of expression, but also to a knowledge of constructive principles. Required of all Freshmen who qualify in the English placement test. First and second semesters, 3 credits each.

100B Composition **Hallock**

This course is essentially a repetition of the first semester of English 100, and is given for the convenience of those who complete English 50 in one semester. Students satisfactorily completing English 100B will qualify for admission to English 120 and 130; but they will be expected to complete course 100 during the second semester. Second semester, 3 credits.

120 Technical and Business English **Stroven**

The principles of technical exposition. Composition and analysis of technical reports, scientific papers, and professional letters. Weekly written exercises, and a long paper each semester. Frequent individual conferences with the instructor. May be taken in place of English 130 by Sophomores in the College of Applied Science. First and second semesters, 2 credits each.

130 English Literature **Andrews**

A survey of English literature from Beowulf to Wells, with special attention to the development of the ideas and ideals that have helped shape our present ways of life. In addition to the reading of some standard history of literature and collection of extracts, there will be a detailed study of at least six complete novels and plays. Required of all Sophomores, in the College of Arts and Sciences, and may be elected by all other Sophomores in place of English 120. First and second semesters, 3 credits each.

140 Journalism **Baker**

A study of the development of the modern newspaper; psychology of news interest; the structure of the News Story; methods of getting and writing the different types of News Stories; the Interview, the Editorial; special Feature Articles. First and second semesters, 2 credits each.

150-151 Oral Reading **Baker**

A study of a limited number of selections, chiefly poetical, with the purpose of gaining an appreciation of an author's thoughts and emotions, and training in such vocal exercises as may enable the student to read aloud with understanding and expression. First and second semesters, 2 credits each.

160-161 Play Production **Cadwell**

The study, production, and direction of one-act plays. Drill in oral expression. Prerequisite: High grade in English 150-151, or

consent of the instructor. Not open to Freshmen. Two periods a week of 2½ hours each. First and second semesters, 3 credits each.

201 Business Correspondence **Stroven**

Designed especially for students in Commerce. A study of principles and practices observed in business correspondence; continued practice in the writing of business letters dealing with sales, credit, complaints, adjustments, collections, etc., and of other business forms. Open only to Juniors and Seniors. First and second semesters, 2 credits each.

205 Public Speaking **Baker**

A study of the principles underlying oral expression, and frequent practice in extemporaneous speaking. Open to all Juniors and Seniors. First and second semesters, 3 credits each.

206 Argumentation **Baker**

The theory of argumentation; the analysis of representative arguments; practice in the writing of briefs and forensics. Open to all Juniors and Seniors. First and second semesters, 2 credits each.

207 The Novel **Neill**

The development of the novel in England. Particular attention will be given to social and literary tendencies as reflected in representative novels from Richardson to Meredith. Prerequisite: English 130. First and second semesters, 3 credits each. (Not offered in 1928-1929.)

208 Victorian Prose and Poetry **Neill**

The first semester will deal with certain representative prose writers with special emphasis upon Carlyle, Arnold, Ruskin, and Newman. During the second semester a study will be made of the more considerable poets of the period with special emphasis upon Tennyson and Browning. Prerequisite: English 130. First and second semesters, 3 credits each.

210 Directed Reading **Schwartz**

Eight hours of reading weekly with informal class reports and discussions. Designed to lead to an acquaintance with some important books which are not read in connection with other courses. Prerequisites: English 130 and the approval of the instructor. First and second semesters, 2 credits each.

213 The Bible as Literature **Andrews**

A study of the types of literature represented in the Bible, their development, and their content as influenced by historical and social conditions; together with the development of the Bible in English translations and their influence on English literature. Prerequisite: English 130 or equivalent. First and second semesters, 3 credits each. (Not offered in 1928-1929.)

240 Advanced Journalism **Baker**

Advanced work in headline writing, make-up and editorial policy; studies in journalistic style and discussion and reports on technical

problems of newspaper practice. This is for students who have taken English 140 or who have had practical experience. Registration will be limited. First and second semesters, 2 credits each.

250 American Literature Since 1870 **Andrews**

The study of representative poems, essays, and fiction. Prerequisite: English 130. First semester, 3 credits.

251 The Short Story **Andrews**

The principles of the short story, analysis of representative stories; collateral reading; practice in short story writing; conferences with instructor. Prerequisites: English 130 and 250. Second semester, 3 credits.

252 Shakespeare **Schwartz**

An introduction to Shakespeare with rapid reading of a considerable number of the plays in chronological sequence. Prerequisite: English 130 or equivalent. First semester, 3 credits. (Not offered in 1928-1929.)

253 Shakespeare **Schwartz**

The continuation of Course 252. Devoted to the more intensive study of a few plays. Prerequisite: English 252. Second semester, 3 credits. (Not offered in 1928-1929.)

254 The Essay **Schwartz**

The writing of essays of various types with much collateral reading of representative modern essayists. Admission only on consent of the instructor. First semester, 3 credits.

255 The Modern Novel **Schwartz**

The novel in England and America since Meredith and James. Prerequisite: English 130 or equivalent. Second semester, 3 credits.

261 History of the English Language **Schwartz**

Studies in the origin and development of the language with special reference to the problems of modern English grammar and usage. Prerequisite: English 130 or equivalent. Second semester, 3 credits. (Not offered in 1928-1929.)

279 Victorian Poetry **Neil**

A study of the more considerable poets of the period with special emphasis upon Tennyson and Browning. Prerequisite: English 130 and the consent of the instructor. Second semester, 3 credits.

300 English Seminar **Andrews**

Designed primarily for graduates, though properly qualified Seniors may be admitted. The intensive study of movements, periods or authors, either British or American. Weekly meetings for reports and discussions. First and second semesters, 2 credits each.

ENTOMOLOGY

250 General Entomology

Bryan

A study of the structure, habits and classification of insects. One hour classroom, two periods laboratory. Fee \$1.00. First semester, 3 credits.

251 Economic Entomology

Bryan

Lectures and reports on the more important insect pests of agriculture, live stock and man, and their control, with special reference to Hawaii. Laboratory work includes the recognition and collection of specimens of stages in the life history of economically important insects. Trips are made to various experiment stations and fields. Prerequisite: Entomology 250. One hour classroom and two periods laboratory. Fee \$1.00. Second semester, 3 credits.

300 Research in Economic Entomology

Bryan

Opportunities for research work in this field are especially attractive, since the problem can be developed throughout the year without interruption. Open only to students who have shown marked ability in the study of entomology. Prerequisite: Entomology 250 and 251. Throughout the year, 3 or more credits a semester. Laboratory work to be done at Bishop Museum, or elsewhere by special arrangement.

301 Taxonomy of Insects

Bryan

A laboratory course in the identification of insects, and advanced study of classification. Special groups may be studied and original work done by the students. Prerequisite: Entomology 250 and 251. Fee \$1.00 per semester. First and second semesters, credits and schedule to be arranged. Laboratory work to be done at Bishop Museum.

302 Entomology Seminar

Bryan

Special work in entomology may be provided for students capable of advanced study. Hours and credits to be arranged. Registration only after consultation with the instructor.

FRENCH

100* Elementary Course

McGee

Phonetics, dictation, conversation reading of easy prose and poetry. Texts: Fraser and Squair's French Grammar; Talbot's "La France Nouvelle"; selected readings from Merimée, Halevy, Loti, and others; Fournon and Broussard's "Pour Parler Français." First and second semesters, 3 credits each.

101* Nineteenth Century French Novel

McGee

Reading of selected masterpieces of Hugo, Daudet, Balzac, Sand, and others. Conversation, essays, and lectures. Carnahan's "Short French Review Grammar." Prerequisite: One year of French in college or two years in preparatory school. First and second semesters, 3 credits each.

200* Contemporary French Literature **Parmenter and Pecker***

(This course and all to follow are conducted entirely in French.) Critical study of the most modern movement in French prose, with especial attention to war literature. Texts for use in class are imported directly from Paris. Essays, lectures, and discussion on contemporary topics. Prerequisite: Two years of college French or equivalent. First and second semesters, 3 credits each.

201* Phonetics **Parmenter and Pecker***

A study of French sounds. Texts: Geddes, "French Pronunciation"; Passy, "Lectures variées mises en transcription phonétique"; Ballard's *Phonetic Reader*; Passy-Rambeau, "Chrestomathie française." Phonetic transcription of newspaper editorials and original anecdotes. Conversation. Required of those majoring in Romance languages. Prerequisite: Two years of college French. First and second semesters, 2 credits each.

202* Advanced Conversation and Composition **Pecker**

A practical course in every-day current French. Reading of French newspapers and magazines with discussion of various aspects of contemporary French life. Compositions on assigned topics. Prerequisite: Three years of college French or equivalent. Second semester, 2 credits.

250* Classic Drama **Pecker**

Masterpieces of Corneille, Racine and Molière. Lectures in French upon the literary history of the period. Additional outside reading and research will be assigned. Prerequisite: Three years of college French or equivalent. First semester, 2 credits. (Not offered in 1928-1929.)

251* Romantic School **Pecker**

Readings from Lamartine, de Musset, Hugo, etc. Lectures in French upon the significance and influence of the Romantic movement. Individual research and reports on assigned topics. Prerequisite: French 250. Second semester, 2 credits. (Not offered in 1928-1929.)

252* Modern French Drama **Parmenter**

This course alternates with French 250. Selected plays of Brieux, Hervieu, Rostand, Maeterlinck, Bernard, Becque, Bernstein, and others. Rapid reading with essays, lectures, and discussions. Individual research and reports. Prerequisite: Same as for French 250. First semester, 2 credits.

253* Advanced French Seminar **Pecker**

This course alternates with French 251. Continuation of study as outlined for French 252, or similar work on any phase or period of French literature in which students may be interested. Prerequisite: French 252. Second semester, 2 credits.

* Professor Parmenter, first semester; Professor Pecker, second semester.

GEOGRAPHY

150* Physical Geography **Palmer**

The suitability of the earth as the abode of man, with special reference to his dependence on climate, relief, continental exposure to oceans, and on plant and animal life. First semester, 3 credits.

151* Economic Geography **Palmer**

A study of the principles governing the production of the chief raw materials and manufactures of the world and of the commerce in these commodities. Prerequisite: Geography 150. Second semester, 3 credits.

300 Geography Seminar **Palmer**

Special work in geography may be arranged for students capable of advanced study. Registration only on consent of instructor. Hours and credits to be arranged.

GEOLOGY

252* Physical Geology **Palmer**

The work of the atmosphere, streams, ground water, lakes and oceans, snow and ice, earthquakes and volcanoes. The nature of these agents and the results they accomplish. Text is Pirsson and Schuchert's "Introductory Geology." Prerequisite: Either Chemistry 101, Chemistry 102, Botany 101, Zoology 150, or Physics 102. Two recitations and one laboratory period a week. Fee \$1.00. First semester, 3 credits.

253* Historical Geology **Palmer**

The history of the earth, of its continents and ocean basins, and of its plant and animal inhabitants. Same text as for Geology 252. Prerequisite: Geology 252 or 256. Two recitations and one laboratory period a week. Fee \$1.00. Second semester, 3 credits.

254 Mineralogy **Palmer**

A study of the crystal systems, of the physical, chemical and morphological criteria for the determination of minerals, leading up to the sight identification of the more common rock-forming and economic minerals. Text is Ford's "Dana's Manual of Mineralogy." Prerequisite: Chemistry 101 or 102, and 124. One lecture and two laboratory periods a week. Fee \$3.00. First semester, 3 credits.

255 Geology of Ground Water **Palmer**

The origin, amount, distribution, circulation, recovery and quality of ground water. Special reference is made to Hawaiian ground water. Prerequisite: Geology 252 or 256. Two recitations a week. Fee \$1.00. Second semester, 2 credits.

256* Geology for Engineers **Palmer**

The work of the various geologic agencies, with especial reference to the structures they produce and the significance of these structures to engineers. Ries and Watson's "Elements of Engineering Geology." Required of Juniors and Seniors in Civil Engineering.

Two recitations and one laboratory period a week. Fee \$1.00. First semester, 3 credits. (Alternate years; offered in 1928-1929.)

300 Geology Seminar

Palmer

Special work in geology may be arranged for students capable of more advanced work. Registration only on consent of instructor. Hours and credits to be arranged.

GERMAN

100* Elementary German

Hörmann

A course for beginners in the German language. Foundation in grammar. Exercises in reading and translating easy German. Dictation and conversation. Singing of German folk songs. Texts: Bagster-Collins, "First Book in German," Mueller and Wenckebach, "Glückauf" (A First German Reader). First and second semesters, 3 credits each.

101A* Intermediate German

Hörmann

Continuation of German grammar, with especial stress on sentence construction. Writing of easy original compositions. Conversation. Reading of such prose texts as Storm, "Immensee"; Auerbach, "Brigitta"; Wildenbruch, "Das edle Blut," and others. First and second semesters, 3 credits each.

101B* Intermediate Scientific German

Hörmann

The same as 101A, with exception of the reading matter, which will be selected from scientific material. First and second semesters, 3 credits each.

200* Advanced German

Hörmann

Rapid reading for comprehension. German classics: Lessing, "Minna von Barnhelm" and "Nathan der Weise"; Schiller, "Wallenstein" and "Don Karlos"; Goethe, "Götz von Berlichingen" and "Egmont"; Bürger, "Balladen." Compositions. First and second semesters, 3 credits each.

HAWAIIAN

100 Elementary Course

Wise

Pronunciation, vocabulary, dictation, reading of easy prose, elementary grammar and the common present-day Hawaiian phrases. Reading the Hawaiian-English New Testament. First and second semesters, 3 credits each.

101 Intermediate Course

Wise

Conjugation, translation of short proverbs, and composition. Reading the Hawaiian-English New Testament. First and second semesters, 3 credits each.

200 Advanced Course

Wise

Reading and translation of Meles and Hawaiian songs. Andrews on Syntax; composition, literal and figurative Hawaiian songs. First and second semesters, 3 credits each.

300 Hawaiian Literature and Arts**Wise**

Study of Hawaiian Meles; ancient traditions and customs and the arts and crafts of old Hawaii. Composition of Meles and songs. Transposition of Hawaiian prose to mele. First and second semesters, 2 credits each.

HISTORY**100* General European History****Bachman**

A general history of European civilization. A study of the development and expansion of European civilization from the earliest times to the beginning of the World War. First and second semesters, 3 credits each.

110* English History**Bailey**

A general course in English history from the period of the Anglo-Saxon to the present. The second semester will begin with the social and political conditions of England from 1750, with a discussion of the immediate influence of the Reform Act of 1867, and the development of England to the present time. Lectures, discussions and special reports. First and second semesters, 3 credits each. (Not offered in 1928-1929.)

124* History of Japan**Harada**

Lectures on an outline of the history of Japan, with supplementary readings. In the second semester special attention is given to the development of feudalism and of modern Japan; the development of political, social, intellectual, and religious movements from the time of the arrival of Commodore Perry, in 1852, to the present time. First and second semesters, 2 credits each.

125 History of China**Lee**

An introductory course in Chinese History. The first semester deals with the development and expansion of Chinese culture from the earliest times to the beginning of China's contact with the Modern West. The second semester will be devoted to the study of China's foreign relations and internal problems from 1644 to the present. Assigned readings, supplementary lectures and discussions. First and second semesters, 2 credits each. (During 1928-1929 this course will be given only in the second semester.)

140* American History**Bailey**

A survey course. First semester: the colonization of North America; international rivalry and expansion; the development of colonial institutions; the American revolution; the formation of the federal government; and the history of the United States to the administration of Jackson. Second semester: Political, industrial, and social changes; territorial expansion; slavery issues; the Civil War and Reconstruction; the United States as a world power. No prerequisite. Library fee \$1.00. First and second semesters, 3 credits each.

145* The History of the West**Bailey**

Territorial growth of the United States through colonial to modern

times; the diplomacy and politics of expansion; the settlement and development of the West; the influence of expansion upon American thought and institutions. The emphasis will be upon the trans-Mississippi West. Prerequisite: History 140 or equivalent. First and second semesters, 2 credits each.

154 Ancient History**Bailey**

Greek history to the Roman conquest; Roman history to the sixth century A. D. Emphasis on early Mediterranean background; Greek and Roman colonial systems; the effect of imperialism on the institutions of Rome; and the cultural and institutional contributions of Greece and Rome to our modern civilization. No prerequisites. First semester, 3 credits.

157 History of Medieval Europe**Bachman**

A survey of the history and of the problems of Medieval Europe from the fourth to the end of the fifteenth century. Second semester, 3 credits. (Not offered in 1928-1929.)

162* The World War**Clarke**

A brief study of the more important campaigns and a detailed study of engagements in which the United States took part. Open to all students of the University. Given especially for students intending to take the Advanced Course R. O. T. C. First semester, 1 credit.

172* Introduction to the Modern History of Oceania**Kuykendall**

Discovery and exploration; work of traders and missionaries; colonization of Australasia; acquisition of islands by the great powers; international rivalries; recent developments. Lectures and topical readings. First semester, 2 credits.

173* The United States in the Pacific**Kuykendall**

Introductory course; including outline of the history of Hawaii and the Philippine Islands. This course will be given every other year, alternating with History 175. Second semester, 2 credits.

175* Great Britain, France, and Germany in the Pacific—Kuykendall

Introductory course. This course will be given every other year, alternating with History 173. Second semester, 2 credits. (Not offered in 1928-1929.)

215* History of Europe Since 1800**Leebrick**

The history of diplomacy and international developments in Europe in the Nineteenth and Twentieth Centuries. Attention is called to the influence of international movements in their world aspects. No one text is used, but the student is advised to buy one of several recommended texts. Prerequisite: History 100. First and second semesters, 2 credits each. (Not offered in 1928-1929.)

227-327 Hawaiian History**Kuykendall**

A seminar course, open only to Seniors, graduate students, and special students by permission of the instructor. Each member of the class will be assigned a subject for investigation throughout the year, and will be required to present a paper embodying the results of the

investigation. No credit will be given for the first semester's work unless the course is also taken during the second semester. Prerequisite: History 173. First and second semesters, 2 credits each.

230-330 European Expansion in the Pacific Area **George**

The precise subject to be studied each year will be decided upon by the class and the instructor. A course for advanced students conducted as a reading seminar course. Admission only by the consent of the instructor. First and second semesters, 2 credits each. Hours arranged with instructor.

241* History of Oriental Religions **Harada**

Lectures on the religions of India, China and Japan, and the modern religious and ethical movements in those countries. First and second semesters, 1 credit each.

243* Recent History of the United States **Bailey**

A detailed consideration of the development of the United States from 1868 to the present. Prerequisite: History 140 or equivalent. First and second semesters, 2 credits each. (Not offered in 1928-1929.)

244* Diplomatic History of the United States **Bachman**

A survey of our foreign relations from the establishment of the republic to the present time. Prerequisite: American Institutions or History 140. First and second semesters, 3 credits each. (Not offered in 1928-1929.)

252* The Formation of the American Constitution **Bachman**

A study will be made of the formation of colonial governments, early state constitutions, the establishment of our national Constitution, and subsequent developments to about the year 1800. Text to be selected; assigned reference readings. Prerequisite: American Institutions or History 140. First semester, 3 credits.

253 History of Spanish America **Bailey**

An outline course dealing with the history and institutions of the leading countries of Latin America. Emphasis on the Spanish colonial system; the Spanish-American wars of Independence; the Monroe Doctrine; Pan Americanism; and the relations between the United States and Latin America. No prerequisite. Second semester, 3 credits. (Not offered in 1928-1929.)

255* The History of the American Constitution Since 1800 **Bachman**

A continuation of History 252 carrying the study to the most recent time. The evolution of present constitutional questions will be traced. No one text will be used; assigned reference readings. Prerequisite: American Institutions or History 140. Although a continuation of History 252, that course is not a prerequisite. Second semester, 3 credits.

261* Europe Since 1890 **Leebrick**

A study of the history of diplomacy and international relations from the last decade of the nineteenth century to the present time.

Special emphasis will be laid upon the World War and its attendant problems. No one text is used; assigned reference readings. Prerequisite: History 100. Second semester, 2 credits.

279* General Ethnology **A member of the Bishop Museum Staff**

Especial attention will be given to the Polynesian Culture. Second semester, 2 credits.

291 Chinese Civilization **Lee**

A general survey of the development of the various Chinese institutions—political, social, religious, economical, educational, etc. Illustrated lectures, assigned readings and discussions. Fee \$1.25. Second semester, 2 credits.

HOME ECONOMICS

GENERAL COURSES

H. E. 250 Household Management **Lewis**

A study of the practical arrangement, organization, equipment and care of a house in relation to costs and to the contribution they make to better family life, with special consideration of the apportionment of the income through the family budget. First semester, 3 credits.

H. E. 252 Child Development

The psychology of the child, with special reference to the problem of mental development and the behavior of children. Planned especially for vocational home economics students but open to all Juniors and Seniors. First semester, 2 credits.

H. E. 253 Home Nursing and Child Care

A study of the causes, indications and prevention of sickness, home nursing procedures, first aid in accidents. The physical care of infants and children. Second semester, 2 credits.

HOUSEHOLD ART

H. A. 100 Textiles and Garment Making **Dahl**

A study of fabrics, processes of manufacture, and economic value and uses; the use of commercial patterns, scientific fitting and garment making. Lectures, discussions and laboratory work, required of students in Home Economics. Open to regular and special students. Students presenting entrance credit in sewing will be excused from the laboratory work of the first semester. Fee \$3.50 per semester. First and second semesters, 3 credits each.

H. A. 101 Dressmaking and Designing **Dahl**

This course gives practical training in the application of line, color harmony, and texture to costumes for different individuals and purposes. Drafting of patterns is taught. All designing is done by modeling on dress forms. Original work is required. Lectures, discussions and laboratory work. Prerequisite: H. A. 100; prerequisite or parallel: Art 110. Fee \$3.50 per semester. First and second semesters, 3 credits each.

H. A. 150* Costume Appreciation **Dahl**

Discussion and demonstration to develop appreciation of costume as a means of art expression. Costume is considered from the standpoint of abstract design, becomingness, suitability and expressiveness. Open to all students. Fee \$1.50. First semester, 2 credits.

H. A. 153 Costume Decoration **Dahl**

This course emphasizes the principles of design in relation to dress decoration. Various media will be used in planning and developing all types of decoration for dresses, hats, etc. Emphasis is placed on seasonal trimming. Prerequisite or parallel: H. A. 101. Fee \$5.00. Second semester, 3 credits. (Given in alternate years; offered in 1928-1929.)

H. A. 200 Millinery **Dahl**

The construction and trimming of hats, beginning with the use of foundation materials; making of wire and willow frames; copying from models and pictures; original designs. Prerequisites: H. A. 100 and 101. Fee \$5.00 per semester. First and second semesters, 3 credits each. (Not offered in 1928-1929.)

H. A. 250 Advanced Dressmaking **Dahl**

Special application of the principles of design and construction to suits, coats and capes. Prerequisites: H. A. 100 and 101. Fee \$3.50. First semester, 3 credits. (Given alternate years; offered in 1928-1929.)

HOUSEHOLD SCIENCE

H. S. 102 Food Economics **Lewis**

Selection, preparation and serving of food with regard to composition, cost, season, and occasion. The effects of economic conditions and production, transportation, and marketing upon the cost and availability of foods will be considered. Prerequisite: Chemistry 101 or 102. Fee \$5.00 per semester. First and second semesters, 3 credits each.

H. S. 150 Elementary Food Preparation **Lewis**

A study of the fundamental cookery processes applied to the important classes of food stuffs. The production, manufacture and composition of common foods are considered in lecture. Lecture and laboratory. Required of all students majoring in the Home Economics course who have not had high school cookery approved by the Household Science Department. Open to all students. No prerequisites. Fee \$5.00. First semester, 3 credits.

H. S. 151* Elementary Nutrition **Lewis**

A study of the principles of diet in relation to health and their application in the planning and preparation of meals for the family. Two lectures and one laboratory. Prerequisite: H. S. 150 or a knowledge of cookery processes satisfactory to the instructor. Fee \$5.00. Second semester, 3 credits.

H. S. 200 Nutrition

Miller

A study of the nutritive requirement of man; the function of food in the body; the nutritive value of foods and their place in the diet. Prerequisites: Chemistry 101, or 102; Chemistry 105. Prerequisite or parallel: Chemistry 260. Lectures and laboratory. Fee \$5.00 per semester. First and second semesters, 3 credits each. (Not offered in 1928-1929.)

H. S. 249-349 Research

Miller

Problems according to preparation. Investigation of nutritional problems; animal and human feeding experiments. For Seniors and graduates. Fee \$5.00 per semester. Hours and credits to be arranged. (Not offered in 1928-1929.)

H. S. 251 Food Investigation

Miller

Special problems relating to cost, preparation, and utilization of food. Studies may be of a general nature or with reference to Hawaiian conditions. Laboratory and conferences. Prerequisite: H. S. 102. Fee \$5.00. Second semester, 3 credits. (Not offered in 1928-1929.)

H. S. 252-253 Field Practice in Household Science

Miller

During the senior or graduate year students who have completed H. S. 200, Advanced Nutrition, may take field practice in cooperation with any of the organizations listed below. Credits and hours to be arranged. First and second semesters.

1. The Social Service Bureau of Honolulu will give field practice in social nutrition work under the direction of its trained workers for Seniors or graduates majoring in Household Science. H. S. 200 must be taken previously or parallel. Sociology satisfactory to the Social Service Bureau will also be required. The number of hours and credit will be arranged for each student.

2. The Queen's Hospital of Honolulu will also cooperate with the Household Science Department of the University, so that seniors or graduates may obtain field practice as dietitians in the hospital. Hours and credit will be arranged for each individual student.

3. The Castle Kindergarten of Honolulu offers field practice in the Nursery School. Child Care and Child Psychology courses satisfactory to the director of the Kindergarten must be taken prerequisite or parallel with the work there. For this course H. S. 151 may be offered in place of H. S. 200.

See pages 42, 43 for outline of courses in Home Economics. After the second year the student may choose a household art major or household science major. Education courses to satisfy the requirements for teaching may be taken as electives in the junior and senior years if desired.

JAPANESE**100 Beginner's Course**

Harada

Colloquial Japanese; pronunciation, conversation and grammar using romanized spelling (First Semester). Reading, translating and

writing in *Katakana* and *Hiragana*, using Japanese readers (Second Semester). First and second semesters, 3 credits each.

101 Intermediate Course **Harada**

Reading and translation of Japanese readers. Simple Chinese characters, dictation, composition and letter-writing. First and second semesters, 3 credits each.

200 Advanced Course **Harada**

Reading of advanced readers, modern literature and magazine articles. Exercises on translation and essay writing. First and second semesters, 3 credits each.

201 Japanese Literature **Harada**

Aston's "History of Japanese Literature" with supplementary lectures on the development of contemporary literature. Japanese-English and English-Japanese translations, with readings of contemporary literature. First and second semesters, 2 credits each.

MATHEMATICS

104* Engineering Mathematics **Webster**

(a) Analytic geometry, plane and solid. (b) Spherical trigonometry. (c) A short course in Advanced Algebra, including symmetric functions, partial fractions, irrational functions, simultaneous quadratic equations, binomial theorem, theory of equations, infinite series, logarithms. (d) A short course in differentiation. Required of Freshmen in Engineering. Prerequisites: Elementary Algebra, Plane and Solid Geometry, Plane Trigonometry. First and second semesters, 5 credits each.

106* Calculus **Donaghho**

Differential and integral calculus. Required of Sophomores in Engineering. Prerequisite: Course 104. First and second semesters, 3 credits each.

150* Plane Trigonometry **Webster**

Prerequisites: Algebra and Plane Geometry. First semester, 3 credits.

151* Algebra and Analytic Geometry **Webster**

Prerequisites: Algebra, Plane Geometry and Plane Trigonometry. Second semester, 3 credits.

152* Analysis **Donaghho**

A brief course in analytic geometry, differentiation, integration, and applications, intended to meet the needs of students of natural science. Prerequisites: Algebra, Plane Geometry, Plane Trigonometry. First semester, 3 credits.

153* Analysis **Donaghho**

Continuation of Course 152. Second semester, 3 credits.

156* Elementary Mathematics **Donaghho**

An analysis of the mathematics of the high school courses, with reference to the underlying principles, and methods of teaching. Prerequisites: Elementary Algebra and Plane Geometry. First semester, 1 or 2 credits.

157* Elementary Mathematics **Donaghho**

Continuation of Course 156. Second semester, 1 or 2 credits.

250* Astronomy **Donaghho**

A brief course in practical astronomy, adapted to the needs of engineering students. Required of students in Engineering. Prerequisite: Course 104. First semester, 3 credits. Alternates with M. E. 282. (Not offered in 1928-1929.)

252* Differential Equations **Donaghho**

Prerequisite: Course 106. First semester, one or two credits.

253* Differential Equations **Donaghho**

Continuation of Course 252. Second semester, one or two credits.

MECHANICAL DRAWING

(See Engineering)

MECHANICAL ENGINEERING

(See Engineering)

MILITARY SCIENCE AND TACTICS

All male students who are citizens of the United States and physically fit are required to enroll during their first two years in the Reserve Officers' Training Corps, and to devote three periods a week of not less than one hour each to military science and training. Two of the three periods are devoted to drill practice and one period to theoretical training, during the first year basic course; one period is devoted to drill and two periods are devoted to theoretical training during the second year basic course.

At the end of the basic course a student who so elects and who is selected by the President of the University and the Professor of Military Science and Tactics, and who signs a form of written agreement prescribed by the Secretary of War, may be enrolled for two more years of service in the Reserve Officers' Training Corps. Such students are required to devote five hours a week to an advanced course in military science and training throughout two years and the completion of this work becomes for them a prerequisite for graduation. They are required also to attend one summer camp of six weeks duration. While enrolled in the Advanced Course, except the time at camp, they receive commutation of rations, at the authorized rate; at camp, the ration itself is furnished and they are paid at the rate of seventy cents per day.

THE COURSE OF INSTRUCTION FOR THE INFANTRY UNIT SENIOR DIVISION,
RESERVE OFFICERS' TRAINING CORPS

	Basic Course	Advanced Course
Basis for calculation of time available for instruction		
1. Minimum hours of instruction per week required by law	3	5
2. Estimated number of weeks per academic year....	36	36
3. Estimated total available academic hours.....	108	180
4. Credits for each semester.....	2	4

SUBJECTS AND SCOPE

THE FIRST YEAR BASIC COURSE
(Military Science 100)

Subjects	Hours Allotted
Marksmanship	15 hours
Military Courtesy.....	3 hours
Military Hygiene and First Aid.....	8 hours
Physical Drill	6 hours
Command and Leadership.....	64 hours
Inspections and Ceremonies.....	12 hours

THE SECOND YEAR BASIC COURSE
(Military Science 110)

Subjects	Hours Allotted
Scouting and Patrolling.....	12 hours
Musketry	10 hours
Interior Guard Duty.....	4 hours
Automatic Rifle	12 hours
Command and Leadership.....	58 hours
Inspections and Ceremonies.....	12 hours

THE FIRST YEAR ADVANCED COURSE
(Military Science 200)

Subjects	Hours Allotted
Military Field Engineering.....	12 hours
Infantry Weapons (Machine Gun).....	56 hours
Command and Leadership.....	52 hours
Inspections and Ceremonies.....	12 hours
Military Sketching and Map Reading.....	24 hours
Combat Principles	16 hours

THE SECOND YEAR ADVANCED COURSE
(Military Science 210)

Subjects	Hours Allotted
Infantry Weapons:	28 hours
37-MM Gun	
3" Trench Mortar	
Administration	8 hours
Military History and National Defense Act	20 hours
Combat Principles	46 hours
Command and Leadership.....	52 hours
Inspections and Ceremonies.....	12 hours
Military Law	4 hours
Rules of Land Warfare.....	2 hours

PREPARATION FOR PROMOTION
(Military Science 251)

A course covering subject matter of examination for promotion in the Reserve Corps. Elective course for Reserve Officers and Seniors. Two hours classroom or laboratory periods per week. Second semester, 2 credits.

MUSIC

Courses in music taken in the Punahou School of Music may be credited towards graduation from the University of Hawaii, provided that the courses taken are of a nature to justify the granting of credits. The courses that may be credited and the number of credits each will carry is determined by the University.

Students desiring credit for work done in the Punahou School of Music should register for such work on their University Registration Card, and at the same time make a written request for credit, stating fully the nature of the course and the amount of time the course will demand.

Band. Male students, who are interested in music, may register and join the University Band. Attendance required: Full practice, 3 hours weekly; individual instruction as necessary. Credits: Two (2) for those not members of the R. O. T. C.; one (1) for members of the R. O. T. C.

PHILOSOPHY

100 Introduction to Philosophy

Myrick

This course has two aims, of which the first is to acquaint the student with some of the more important philosophical problems and the answers which some of the more important philosophers have given. The second aim will be to find a place in life for both science and religion.

This is a year course, and may not be taken for credit either semester only. Open to Sophomores and upper classmen. First and second semesters, 3 credits each.

101 The Making of the Modern Mind

Myrick

An effort will be made to understand the thoughts and ideals of our own day by tracing their historical origin and development. This is a year course, and may not be taken for credit either semester only. Open to all students in the University. First and second semesters, 3 credits each.

150 Logic, Deductive and Inductive

Myrick

Open to Sophomores and upper classmen. First semester, 3 credits.

153 Ethics

Myrick

An introductory course in ethics, the emphasis being laid upon the concrete problems of moral conduct. Open to Sophomores and upper classmen. Second semester, 3 credits.

200 History of European Philosophy Myrick

The development of European thought from the earliest of the Greek thinkers to our own day; its relation to the social, political, and religious life of the times; the origin and early development of scientific ideas; incidental comparison with Eastern thought. Philosophy 201 is suggested as a companion course. First and second semesters, 3 credits each.

201 Civilization and Culture of Ancient Greece Myrick

Most of the great literary masterpieces of the Greeks will be read in English translation, partly in order to appreciate them for their own sakes, and partly through them to get a better understanding of the Greek view of life. This is a year course and may not be taken for credit either semester only. Open to upper classmen and others who obtain the consent of the instructor. First and second semesters, 3 credits each.

PHYSICAL EDUCATION*For Men*

All first and second-year physically fit men students registered as regular students or as special students taking eight or more credit hours a semester and not registered for R. O. T. C. are required to take three periods per week of Physical Education.

102 Physical Education for Men Robley

This course includes games, natural gymnastics, athletics, and individual gymnastics. Three hours per week. First and second semesters, 2 credits each.

275 Theory and Practice of Physical Education Klum

A course intended for men who expect to handle Physical Education activities in secondary schools. The course covers the coaching of secondary school sports, the supervision of playground activities, etc. Restricted to Juniors and Seniors with registration contingent upon the consent of the instructor. Second semester, 2 credits.

For Women

All women students under twenty-five years of age and registered as regular students or as special students taking eight or more credit hours a semester are required to take a minimum of one credit hour per week of Physical Education. Exemption from this requirement may be obtained only by permission of the Faculty Committee. All students registered are required to attend classes until exemption has been granted.

A medical and physical examination will be required at the beginning of the school year. Those students not passing will take Individual Gymnastics in place of the regular gymnasium classes. The schedule for the examinations will be posted on the bulletin board during Freshmen week.

First and second year students are required to take two periods per week of supervised exercise; third and fourth year students are required to take one period of 200a, 200b or 204.

100 Required of Freshmen **Gay**

This course will include archery, swimming (beginners only), athletics and clogging. Two hours a week. First and second semesters, 1 credit each.

102 Required of Sophomores **Gay**

This course will include athletics, natural gymnastics, clogging and natural dancing. Two hours a week. First and second semesters, 1 credit each.

104 Swimming **Gay**

Open to all students. a. Beginners' class. b. Intermediate and advanced classes. Classes of no less than eight students. No credit given unless specially arranged with instructor. One hour a week. First and second semesters.

200a Natural Gymnastics and Games **Gay**

This course will include marching, calisthenics, and games of low and high organizations. One hour a week. First and second semesters, 1 credit each.

200b Clogging and Character Dancing **Gay**

Two periods a week. First and second semesters, 1 credit each.

204 Individual Gymnastics **Gay**

This course will include correctives for underweight, overweight and postural cases. Two periods a week. First and second semesters, 1 credit each.

260 Dramatic Games **Gay**

This course will include singing games and pantomime. Open only to upper classmen and teachers. First semester, 2 credits.

PHYSICS**102 General Physics** **Kirkpatrick, Magarian, and Assistant**

Mechanics, heat, light, electricity and magnetism, and modern atomic physics. Prerequisite: Mathematics 151. The student's work is about equally divided between laboratory effort and text study. This is the course regularly taken by pre-medical students. The textbook used is "Textbook of Modern Physics," by Weld and Palmer. Fee \$2.00 per semester. First and second semesters, 4 credits each.

150 Mechanics and Properties of Matter **Magarian**

Parallel course Mathematics 106. Two lecture-recitation periods and one laboratory period weekly. This is a required course for Sophomore students in Engineering. Fee \$1.00. First semester, 3 credits.

151 Heat **Magarian**

Parallel course Mathematics 106. Two lecture-recitation periods and one laboratory period weekly. This is a required course for Sophomore students in Engineering. Fee \$1.00. Second semester, 3 credits.

152 General Physics

Kirkpatrick and Assistant

Prerequisite: Mathematics 150. The content of this course is similar to that of Physics 102. The treatment, however, is more abbreviated, emphasizing description rather than analysis. It is expected that this course will be taken by students of agriculture and those who have not had a course in elementary physics. This course should not be selected by medical students, engineering students, or students in sugar technology. Three lectures and two laboratory periods. First semester, 5 credits.

200* Advanced Electricity

Kirkpatrick

Prerequisites: Physics 150 and 250. One lecture period and two laboratory periods during the first semester, and two lecture periods and one laboratory period during the second semester. This is a required course for Senior students in Engineering. The laboratory work comprises measurements of current, voltage, resistance, inductance, capacity, and magnetic properties, and the testing of commercial electrical machinery. The textbooks used are "Advanced Laboratory Practice in Electricity and Magnetism," by Terry; and "Elements of Electrical Engineering," by Cook. Fee \$2.00 first semester, \$1.00 second semester. First and second semesters, 3 credits each.

250 Electricity and Magnetism

Magarian

Prerequisites: Physics 150 and Mathematics 106. One lecture-recitation period and one laboratory period weekly. This is a required course for Junior students in Engineering. Fee \$1.00. First semester, 3 credits.

251 Light and Sound

Magarian

Prerequisites: Physics 150 and Mathematics 106. One lecture-recitation period and one laboratory period weekly. This is a required course for Junior students in Engineering. Fee \$1.00. Second semester, 3 credits.

252-253 Supervised Reading

Kirkpatrick

Students may pursue any desired branch of physics through a plan of recommended readings and occasional consultations. Either semester, hours and credits by arrangement.

255 Light

Kirkpatrick

Prerequisite: Physics 102 or its equivalent. Lens systems, theory and applications of diffraction, spectrometry, interference, polarization. Two lectures and one laboratory period weekly. Second semester, 3 credits.

351* Electronic Physics

Kirkpatrick

Prerequisites: A knowledge of the content and methods of general physics and a working knowledge of the calculus. Two discussion periods weekly. This course is an introduction to modern subatomic physics. Crowther's "Ions, Electrons, and Ionizing Radiations" is used as a text, with supplementary readings in other books and journals. One semester, 2 credits.

353* Atomic and Molecular Structure Kirkpatrick and

A seminar course for students possessing a knowledge of the fundamentals of theoretical physics and chemistry. Molecular and atomic constitution is considered in the light of current physical and chemical views. In particular the models proposed by Bohr and by Lewis and Langmuir are considered in detail. Second semester, 2 credits.

355 X-Ray Kirkpatrick

The historical development of knowledge of x-rays, theoretical considerations, bearing of x-ray research upon problems of modern physics, modern x-ray technique. Two lecture-discussion meetings a week. Second semester, 2 credits.

361 Physical Research Kirkpatrick

Students possessing requisite qualifications will be permitted to pursue original investigations, under the supervision of the department. Hours and credits by arrangement.

PHYSIOLOGY**251 Physiology** Edmondson

A course in physiology for the general student as well as those preparing for medicine. The functions characteristic of the various systems of organs of the human body are considered in detail. Not open to Freshmen or Sophomores. Three lectures a week. Second semester, 3 credits.

POLITICAL SCIENCE**100* American Institutions** George and Bachman

The aim is to teach citizenship by familiarizing students with the various institutions of American government and with new working principles. Training is given in reading newspapers, magazines and books; discussions of current events, local, national and international, are frequent. The discussion-recitation method is followed. Text: Munro's "The Government of the United States." The library has several copies of supplementary texts. Library fee \$1.00 per semester. First and second semesters, 3 credits each.

105* A Course in Political Science for Teachers and Others George

Course to be arranged with those interested at first session of class. An afternoon time will be arranged. First and second semesters, 2 credits each.

106 English Constitutional History Bailey

A study of the development of the English government and the English judicial system from the periods of the Anglo-Saxons to the present. Lectures, discussions, and special reports. Intended for pre-legal students. Prerequisite: Political Science 100. Text: Taswell-Langmead, "English Constitutional History." First and second semesters, 2 credits each.

110* Political Science **Bachman**
Introduction to Political Science. History of Political Theory. First and second semesters, 3 credits each.

120* Comparative Government **Leebrick**
A comparison of the government of the United States with other governments, especially those of Great Britain, France, Switzerland, and Germany. Attention will be given to the principles of Political Science, and the end of the second semester will be devoted to a brief examination of current political ideas. Text: Bryce, "Modern Democracies." First and second semesters, 3 credits each. (Not offered in 1928-1929.)

200 International Law **Lum**
A study of the principles of international law governing the intercourse of states, chiefly as interpreted and applied by the United States, and as reflected in the discussions of international tribunals and the comments of authoritative writers. No previous knowledge of law is required. Prerequisite: Political Science 100 or a general knowledge of political science. Texts: Fenwick, "International Law," and Evans, "Leading Cases on International Law." First and second semesters, 3 credits each. (Not offered in 1928-1929.)

230-330 Seminar in Hawaiian Politics **Lum**
Intended for advanced students interested in special problems in Hawaiian politics. No regular class meetings, but frequent conferences with the instructor. Only those specially qualified will be admitted. Credits according to amount of work done.

250* International Organization **Lum**
A study of the development of the modern state system, diplomacy, arbitration, international administration, conferences and congresses to 1919. Text: Potter "Introduction to the Study of International Organization." First semester, 3 credits.

251 Problems in International Organization and Relations. **Lum**
The purpose of this course is to analyze the political and legal development of some of the important problems of international law and contemporary organization of the society of nations, especially the League of Nations, and its relations to current war problems. Lectures, special reports, and class discussions. Prerequisite: Political Science 200 or 250. No one text is used, but reference readings are assigned. Second semester, 3 credits.

252* Elections **Lum**
This course includes consideration of electoral methods and history of the important countries of the world. Such problems as corrupt practices, non-voting, primary elections, etc., are studied. Special attention is given to problems in Hawaii. Prerequisite: Political Science 110 or 120. Text: Seymour and Frary, "How the World Votes." First semester, 3 credits.

253* American Political Parties**Lum**

A course in the historical development of the party system in the United States and a study of its present organization and methods. Deals especially with campaign methods, the boss, and the function of the party in elections and administration. Prerequisite: History 140. Texts: Robinson "The Evolution of American Political Parties" and Merriam "The American Party System." Second semester, 3 credits.

254 Municipal Government**Lum**

A study of the legal position of municipalities in the United States and of the structure of municipal city governments including mayor-council, commission, and commission-manager governments. Particular attention will be given to the City and County of Honolulu. Lectures, reference readings, and discussions. Prerequisite: Political Science 100. First semester, 2 credits. (Not offered in 1928-1929.)

255 Municipal Administration**Lum**

A study of the principal functions and activities of municipalities; public works, public health and welfare, schools, police and fire. Special attention is given to budget making, purchasing, salary standardization, local tax administration, etc. Consideration will be given to the City and County of Honolulu. Lectures, assigned reference readings, and discussions. Prerequisite: Political Science 100 or 254. Second semester, 2 credits. (Not offered 1928-1929.)

262 Governments of Far Eastern Countries**Lum**

A study of the evolution of the political organization of China, Japan, Korea and India. Lectures, discussions, assigned readings and special reports. First semester, 3 credits.

263 Far Eastern Diplomacy**Lum**

A general survey of the diplomatic and international relations of the Far Eastern countries. Lectures, discussions, assigned readings and special reports. Second semester, 3 credits.

PSYCHOLOGY**150* General Psychology****Livesay**

An introductory course in psychology offering a survey of the various aspects of mental life. (Although it is not a prerequisite, beginning students in psychology will find Zoology 150 of great benefit.) Not open to first year students. First semester, 3 credits.

200 Directed Reading in Psychology**Livesay**

Open only to those qualified to do independent work and show results. Either semester, credit to be arranged. Roughly one point of credit is the equivalent of 54 hours of satisfactory work.

250* Educational Psychology**Livesay**

This course deals with psychological principles underlying the educative processes, and includes such topics as native endowment, transfer of training, individual differences, sex differences, habit for-

mation, the role of instincts in education, etc. Prerequisites: Psychology 150 or its equivalent. First semester, 3 credits.

251 Psychology of the Secondary School Subjects **Livesay**

A consideration of psychological principles and experimental data bearing upon the learning and teaching of high school subjects such as History, Science, Mathematics, English, etc. Prerequisite: Psychology 250 or its equivalent. Second semester, 2 credits.

252* Racial Psychology **Porteus**

This course will deal primarily with comparisons of the educational, social, mental, and industrial status of the various racial groups in Hawaii. The subject matter of these lectures will be taken from investigations already completed or in progress which relate to the reality and nature of racial differences as influenced by heredity and environment.

Note: As the material will change from year to year students may, with the approval of the instructor, re-enroll in this course for credit. First semester, 2 credits.

253* Mental Measurements **Porteus and Babcock**

A course of lectures with demonstrations of psychological tests, educational measurements and rating scales, with particular reference to those applicable to racial groups in Hawaii. The value and limitations of such tests both for clinical diagnosis and research purposes will be discussed. Second semester, 2 credits.

300 Research in Psychology **Porteus and Livesay**

An opportunity is offered for graduate students, and others properly qualified, to carry on special investigations. Either semester, credit to be arranged. Roughly one point of credit is the equivalent of 54 hours of satisfactory work.

The Psychological Clinic provides facilities for properly qualified students to obtain practical training in methods of mental testing and psychological research. This training will be particularly applicable to students wishing to qualify themselves for work in the fields of psychology, sociology and special education. Ordinarily credit will be given for this work under Psychology 300.

SOCIOLOGY

250* Introduction to the Study of Sociology **Lind**

An orientation course. Physical conditions, population, human nature, social contacts and social processes, social institutions, social evolution and social problems. This course or its equivalent is a prerequisite to all other courses in sociology. First semester, 3 credits.

252-253 Directed Reading **Adams**

A reading course in the literature of some field of social service to accompany Sociology 254-255. Consultations and reports monthly. Semester papers based on reading and practical work. Open only to students believed to be able to do successful work with but little

direction. Credit not to exceed 3 units for each semester, to be given according to work accomplished.

254-255 Social Service

Adams

This course is offered by the University in co-operation with certain social service agencies in Honolulu. Work has been given in co-operation with the Social Service Bureau and the International Institute and plans have been made for co-operation with the Department of Social Service in the Queen's Hospital. This Course is open only to such regular full time students as shall make appropriate arrangements for unpaid service. The student will devote such time as may be determined upon to actual work under the direction of the head worker of the selected social agency, and shall be responsible to such head worker. Credit will be based on success in the work and the number of units shall be according to the amount of work done, but in no case shall it exceed five for any semester. Open only to students who expect to enter social work as a profession.

260-261 Discussion as a Social Process

Killam

Principles and methods of discussion leadership in organized groups; readings, discussions, field work and reports. First and second semesters, 3 credits each.

262 Principles of Sociology

Adams

Human nature. Society and the group. Social contacts and interaction. Social forces. Competition, conflict, accommodation and assimilation. Social control. Collective behavior. Open only to seniors or graduate students who have had not less than two courses in sociology. First semester, 3 credits.

265 Social Aspects of Migration

Adams

Types of migratory movement. Migration as modifying physical and social environment. The process of social disorganization and reorganization resulting from migration. Personality traits as modified through migration. An interpretation of American immigration. Second semester, 3 credits. (Not offered in 1928-1929.)

267 The Family

Adams

Primitive types of family organization. Evolution of the family in historic times. A comparative study of the Oriental and the Occidental family. Family systems and personality traits. Second semester, 3 credits.

279 Community Organization

Lind

A background for the study of community problems. The factors which determine the location and growth of communities. Types of communities. The selection and movement of population elements. Dominance and subordination. The community pattern and social organization. Lectures, discussion and field trips. Second semester, 3 credits.

281 Urban Sociology**Lind**

A study of the processes of social interaction within the urban environment. The growth, local distribution, mobility and segregation of population within the various areas of the city; the development of cultural differences and the resulting changes in institutions, e.g., the family, church, school; and in the general patterns of personal and social life. Field trips to various institutions, agencies and districts of the city of Honolulu will be arranged. Lectures, special reports and class discussion. Second semester, 3 credits. (Not offered 1928-1929.)

350-351 Some Aspects of Race Contacts in Hawaii**Adams**

A seminar course. Each member of the class will collect data relative to some situation and present them to the class with interpretation and conclusions. Discussion. Admission to not more than six seniors and graduates by special permission. Tuesday evening, 7:30-9:30. First and second semesters, 2 credits each.

SPANISH**100* Elementary Course****McGee**

Conversation and dictation. Both Castilian and Latin-American pronunciation taught. Texts: Coester's Spanish Grammar; Padre Isla's "Gil Blas de Santillana"; Dorado's "España Pintoresca"; Alarcón's "El Capitán Veneno"; Gutiérrez' "El Trovador"; Crawford's Spanish Composition. First and second semesters, 3 credits each.

101* Contemporary Spanish Literature**McGee and Pecker***

Works of Galdós, Valera, Pereda, Ibáñez, and others. Conversation and composition based on Waxman's "A Trip to South America." Commercial correspondence. First and second semesters, 3 credits each.

250* Spanish Classics**Pecker**

Works of Cervantes, Lope de Vega, Tirso de Molina, Calderón de la Barca, and others. The picaresque novel, "Lazarillo de Tormes." Lectures upon the history of Spanish literature. Composition, conversation, and review of grammar. Prerequisite: two years of college Spanish. First semester, 2 credits. (Not offered 1928-1929.)

251* Advanced Spanish Seminar**Pecker**

Rapid reading of modern Spanish novels, plays, and current periodicals. Lectures and discussions. Individual research and reports on assigned topics. Seneca's "Spanish Conversation and Composition." Prerequisite: Spanish 250. Second semester, 2 credits. (Not offered 1928-1929.)

252* Modern Spanish Novel**Parmenter**

Rapid reading course with advanced work in composition and conversation. Review of grammar. This course alternates with

* Miss McGee, first semester; Professor Pecker, second semester.

Spanish 250. Prerequisite: Two years of college Spanish. First semester, 2 credits.

253* Modern Spanish Drama

Pecker

Rapid reading of modern Spanish plays, with continued work in composition, diction and conversation. Cool's "Spanish Composition." This course alternates with Spanish 251. Prerequisite: Spanish 252. Second semester, 2 credits.

SUGAR TECHNOLOGY

In addition to the courses outlined below there are other Sugar Technology courses listed in the Chemistry and Agriculture Departments.

201 Sugar Analysis

Dillingham

Laboratory and lecture course intended to fit the student for the position of chemist in a sugarhouse laboratory, or to give him a good working knowledge of chemistry as applied to the manufacture of raw and refined sugar. Among the topics taken up are the theory and construction of the polariscope and the refractometer, the calibration and testing of laboratory apparatus, general laboratory routine, and the fitting out of a sugar laboratory, the methods of sampling and of analysis of the various products met with in a cane sugar factory.

In order to take this course the student must have a working knowledge of general chemistry and laboratory manipulations. Prerequisites or parallel, Chemistry 101 or 102 and 124. Required of Juniors in Sugar Technology. One lecture and two laboratory periods a week. Fee \$5.00 per semester; breakage deposit, \$3.00 per semester. First and second semesters, 3 credits each.

250 Sugar-House Calculations

Dillingham

A lecture and recitation period in which instruction is given in sugar-house calculations, in working out problems involving the yield and losses ordinarily encountered in actual factory work, and in making out typical laboratory reports such as are required by plantations in the Hawaiian Islands. Prerequisite: S. T. 201 and 253. Seniors in Sugar Technology. First semester, 1 credit.

252 Sugar Manufacture

McAllep

A series of lectures and recitations on the manufacture of sugar, taking up in detail a discussion of the various types of machinery and apparatus employed in the best modern factories and the principles involved in their use, embodying such topics as multiple milling, the effect of various types of roller grooving, pressure and maceration on extraction, clarification of juices, multiple effect evaporation, the economical use of steam, sugar boiling, crystalization in motion, and the curing, drying, and preparation of sugars for the market. Though this is primarily a course for cane sugar men, a brief description of the methods employed in beet sugar manufacture and refinery practice is also given, together with a discussion of the various processes for making white sugar direct from the cane. Required of Seniors in

Sugar Technology. Prerequisite: S. T. 201 and 253. Three hours a week classroom. First semester, 3 credits.

253 Summer Practice**Dillingham**

During the summer vacation between the Junior and Senior years, students in Sugar Technology will be required to spend at least 8 weeks in practical field or mill work. Those taking field work become Student Assistants in the Experiment Station of the Hawaiian Sugar Planters' Association. Those taking factory work enter one of the mills, where they are under the direction of the manager and work at various stations under regular factory conditions. Academic credit for this will be granted on the presentation of a satisfactory report in duplicate. Prerequisite: S. T. 201. 6 credits.

255 Field Practice**Dillingham**

During the second semester of the Senior year in the Agricultural Division the student does his work in the capacity of a Student Assistant in the Experiment Station of the Hawaiian Sugar Planters' Association. He may serve a part or all of the time at the Waipio Substation, or he may be sent out as an assistant to the field men in charge of experimental work on the various plantations. A written report in duplicate must be submitted at the end of the semester. 16 credits. In order to be admitted to this course previous enrolment for at least one semester in the University of Hawaii is necessary.

257 Factory Practice**Dillingham**

Seniors in the Sugar-house Engineering division spend the second semester of Senior year as apprentices in the factory of one of the plantations. They are under the regular discipline of the factory and are given different stations in the mill, boiling-house and laboratory so that they may become familiar with the various pieces of equipment and their operation. A written report in duplicate covering the layout of the mill and its operation must be submitted at the close of the work. 16 credits. In order to be admitted to this course previous enrolment for at least one semester in the University of Hawaii is necessary.

N. B.—Seniors in the chemistry division of Sugar Technology may elect either Sugar Technology 255 or Sugar Technology 257, after consultation with their adviser.

ZOOLOGY

The courses in zoology are intended to meet the demands both of elementary and advanced students, and are arranged to take advantage of the wealth of illustrative and research material available in the Island fauna throughout the year.

The establishment of a biological laboratory for research at Walkiki, adjacent to the aquarium, offers an excellent opportunity for the investigation of marine biological problems. An extensive tropical fauna in the waters about the Hawaiian Islands makes possible an unlimited field for research in zoology. Coral reefs are easily accessible, provision will be made for plankton work, and dredging may be done in moderate depths outside the reefs.

In addition to the general laboratory the building provides private research rooms, aquaria tables with running salt and fresh water, gas, electricity, a photographic room, and other conveniences. Advanced students and special investigators will be given every possible accommodation for the pursuance of research.

100 Marine Ecology**Edmondson**

A course in ecological studies of marine organisms in which the determination of some of the factors controlling their relations to environment will be attempted. Experimental work will be conducted both in the laboratory and on the reefs. Prerequisites: Zoology 150 and 151. Two laboratory periods a week with library reading and lectures. Fee \$2.00 per semester. First and second semesters, 3 credits each.

102 Mammalian Anatomy**Edmondson**

A laboratory course primarily for pre-medical students involving the careful dissection of a typical mammal. Prerequisites: Zoology 150 and 151. Two laboratory periods a week. Fee \$3.00 per semester. First and second semesters, 2 credits each.

150 General Zoology**Edmondson and Hannum**

An introductory course covering in a general way the field of animal life. Biological principles are presented and a study of the structure, development, relationship, distribution, and economic importance of animals is made. Required of pre-medical students and Sophomores in Agriculture. Two lectures and one laboratory period a week. Fee \$2.00. First semester, 3 credits.

151 Comparative Anatomy of Chordates**Edmondson and Hannum**

A continuation of Course 150, including a comparative study of the systems of organs of typical vertebrates. Structural relationships of the various groups are emphasized and the progressive development from the lower to higher forms pointed out. Text: Kingsley's "Comparative Anatomy of Vertebrates," and other reference works. Prerequisite: Zoology 150. Required of pre-medical students. Two lectures and one laboratory period a week. Fee \$2.00. Second semester, 3 credits.

152 Histological Technique**Hannum**

A laboratory course involving methods of fixing, staining and mounting animal tissues. Studies will be made of the tissues prepared. Prerequisites: Zoology 150 and 151. Two laboratory periods a week. Fee \$5.00. First semester, 2 credits.

153 Vertebrate Embryology**Hannum**

A laboratory and lecture course in which the principles of Embryology are illustrated by a detailed study of the development of the chick. Text: Patten's "Embryology of the Chick." Prerequisite: Zoology 150 and 151. Fee \$5.00. Second semester, 3 credits.

300 Research**Edmondson and Hannum**

Students with sufficient preparation are encouraged to undertake the investigation of special zoological problems with reference to land, fresh water, or marine animals. Hours and credits to be arranged.

DEGREES CONFERRED

June, 1927

MASTER OF SCIENCE

In Sugar Technology

Reginald Hart King, B. S. University of California, 1922.

Thesis:—Factors Influencing the Filtration of Raw Sugar Solutions

In Plant Pathology

Joseph Polkinghorne Martin, B. S. University of California, 1921

Thesis:—Studies Conducted on the Eye-Spot Fungus, *Helminthosporium Sacchari Butler*

In Zoology

Margaret Elliott VanWinkle, B. S. Knox College, 1919

Thesis:—Fresh Water Testaceous Rhizopods of Hawaii

MASTER OF ARTS

In Clinical Psychology

Marjorie Elizabeth Babcock, A. B. Wells College, 1919

Thesis:—Some Applications of Clinical Psychology in Hawaii

In Education and Psychology

Evelene Flanagan Davis, B. A. College of the Pacific, 1922

Thesis:—Some Recent Tendencies in Art Education in the Public Schools of the United States

Curtis Tate Leaf, B. A. Kalamazoo College, 1915

Thesis:—A study of Representative History and Geography Text-books Used in English-Speaking Countries Bordering on the Pacific.

Somerville Thomson, B. A. University of Hawaii, 1926

Thesis:—The General Functions of the Public School Principals of the Territory of Hawaii, with Special Emphasis on the Distribution of Time

In Psychology and Education

Emily Leona Marshall, B. S. University of Oregon, 1923

Thesis:—A Study of the Achievement of Chinese and Japanese Children in the Public Schools of Honolulu

University of Hawaii

BACHELOR OF SCIENCE

In Agriculture

Kong Lin Kum

In Civil Engineering

Vasili Sergeevich Eremeef (Honors)
 Archibald Spencer Kaaua (Honors)
 Samuel Louis Keala
 Howard Hisayuki Kurio
 Francis Sun Kiang Mau (Honors)
 David Pearce Penhallow

In General Science

Daniel Kanuha Ainoa
 Alfred Dang Aki
 David Takeji Betsui (Honors)
 Hugh Wallace Brodie
 Edward William Carter
 *Ruth Me Lan Chan
 Alexander Herzog Cornelison
 Yoshio Hasegawa
 Murray Valentine Heminger
 Roy Edward Jacobson
 **Mary S. M. Kamm
 George Haruto Kodama
 Edward Chung Hin Leong
 Eichi Masunaga
 Edward Shizuo Matsu
 Shizuto Mizuire
 William Herbert Mountcastle
 Hiroshi Ochiaie
 Kyuro Okazaki
 Margaret Wood Boyd Pratt
 Tadao Sakihara
 Amy Suehiro
 Ernest Albert Sweet, Jr.
 Harry Haruto Takata
 Stewart Toshichiro Tashiro
 George Kan Fong Tyau
 Ernest Fred Wedemeyer
 Takeo Yamashita
 Fred Owen Young

In Home Economics

Doris Baillie Hair

In Sugar Technology

Upendra Kumar Das (Honors) (Agriculture)
 Sumeru Chandra Jain (Engineering)
 Tin Pui Kamm (Engineering)

* Granted degree November, 1927.

** Granted degree March, 1927.

†Orlando Hammond Lyman (Agriculture)
Ichine Naramoto (Engineering)
Harold Raymond Shaw (Agriculture)
Fortunato Garcia Tejo (Agriculture)

BACHELOR OF ARTS

Marielouise Abel (Honors)
Margaret Donald Black
Nyuk Yin Chong
Dora Wailan Chung
Lena Mary Comstock (Honors)
Mary E. Doyle
Edwin Kane Fernandez, Jr.
Edith Ululani Gooding Field
Kenji Goto
Carol Fish Hawkins
Frank Allen Hawkins
Eva Cowan Hendry
Kenneth Shunma Hino
Bernhard Lothar Hörmann (Honors)
Charles Kazuo Iwai
Henry Yoshikazu Iwata
Pansy Knoll Jeneson
Kazuo Kaneda
Clarence Keiso Karimoto (Honors)
Albert Kaili Kekoa
*Eleanor Adaline Kellogg
Mary Rose Kirkpatrick
Charles Jujiro Koto
Lillian Yen Tai Lee
Quon Sein Leong
Evelyn Kendall Livingston
Yin Tai Lum
David Makuaole Makaoli (Honors)
Seisho Matsubayashi
Olive Lillian McKeever
Thelma Katherine Murphy
Matsuji Nishihara
Shinkichi Nishimoto
Harold Yoshiye Oda
Esther Aiko Ogawa (Honors)
Jessie Sebree Peet
Opal Riley Pickering
Sue Gill Rathbone
**Shunzo Sakamaki (Honors)

† Granted degree October, 1927.

* Granted degree November, 1927.

** Granted degree February, 1927.

†Kikuji Sakamoto
 Leonie Mary Schwallie
 Margaret Lavinia Searby
 Harry Shigeru Shiramizu (Honors)
 Elizabeth Louise Smith
 Taro Suzuki
 Wah-Chan Thom
 Kenzo Toi
 Madeleine Dinchere Weissberg
 Hong Chang Wong
 ‡Deborah N. Christman Woodhull

HOLDERS OF UNIVERSITY SCHOLARSHIPS
 1927-1928

University Club Sophomore Scholarship
 AH HO CHUN

Prince Fushimi Fund Scholarship
 KIYOTO TSUBAKI
 JOHN TOSHINAGA OKAMOTO
 SHIGEO YOSHIDA

Honolulu Chamber of Commerce Freshman Scholarship
 RUTH C. ROBBINS

Chinese Community Scholarship
 ELSIE TING
 DAVID T. W. YAP

Daughters of American Revolution Scholarship
 ADA FORBES
 ALICE DENISON

Stephen Spaulding Scholarship
 WILLIAM C. KEA

† Granted degree July, 1927.

‡ Granted degree March, 1927.

REGISTER OF STUDENTS

1927-1928

GRADUATE DIVISION

- Abel, (Mrs.) Marjorie Greig, 2376 Oahu Ave., Honolulu
B. S., University of Hawaii, 1924
(Home Economics)
- Axtelle, George E., 3670 Sierra Ave., Honolulu
B. S., University of Washington, 1923
(Candidate, M. A. in Education)
- Barnhard, Emma C., Punahou School, Honolulu
B. S., Columbia University, 1922
(Candidate, M. A. in Psychology)
- Breed, Eleanor D., 4121 Randolph St., San Diego, Cal.; Punahou
School, Honolulu
B. A., Pomona College, 1923
(Candidate, M. A. in Education)
- Brunk, D. Elmer, 1527 Makiki St., Honolulu
A. B., McPherson College, 1926
(Education and Physics)
- Cameron, Jamie Irene, 1319-E Wilder Ave., Honolulu
B. S., Alaska Agricultural College and School of Mines, 1925
(Education)
- Carden, (Mrs.) Florence C., 2701 Aolani Drive, Honolulu
B. S., University of California, 1911
(Mathematics)
- Caro, Ida Josephine, 1214 So. Freya St., Spokane, Wash.; 313 Saratoga
Road, Honolulu
B. S., Teachers College, Columbia, 1927
(Education)
- Cary, Miles Elwood, 2656 Hillside Ave., Honolulu
B. A., University of Washington, 1917
(Education)
- Chun, James Joy Hing, 427-A No. King St., Honolulu
B. A., University of Hawaii, 1924
(Political Science)
- Chun, Wai Sue, 1050 Beretania St., Honolulu
B. A., University of Hawaii, 1928
(Education)
- Clune, (Mrs.) Eva Cartmill, 2256 Liliha St., Honolulu
B. A., University of Hawaii, 1923
(Candidate, M. A. in Education)
- Corn, (Mrs.) Anna Karrer, Fort De Russy, Honolulu
A. B., University of Washington, 1911
(Education and Language)
- Crawford, Clyde E., Wailuku, Maui; 919 12th Ave., Honolulu
B. Ed., University of California, Southern Branch, 1924
(Education)

- Cutter, Mary Adeline, 6 Black Horse Terrace, Winchester, Massachusetts; St. Andrew's Priory.
A. B., Stanford University, 1911
(Candidate, M. A. in Education and History)
- Dewar, Margaret M., 2065 Lanihuli Drive, Honolulu
A. B., University of California, 1919
(Candidate, M. S. in Physics)
- Dinsmore, Mary, 2447a Parker St., Honolulu
B. L., Mills College, 1916
(Economics)
- Dunlap, (Mrs.) Hilda Frost, 1640-C Liholiho St., Honolulu
B. S., Kansas State Agric. Coll., 1927
(History)
- Faulkner, Robert Mardis, Wailuku, Maui
B. A., University of Hawaii, 1924
(Candidate, M. A. in Education)
- Forbes, Dyfrig McHattie, La Hacienda El Potrero, Vera Cruz, Mexico
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(Candidate, M. S. in Sugar Technology, Agriculture)
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(Candidate, M. A. in Education and History)
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B. S., University of Hawaii, 1926
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B. A., University of Hawaii, 1928
(Education)
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B. A., University of Hawaii, 1927
(Education)
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B. A., University of Hawaii, 1927
(Sociology)
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- Kutsunai, Yakichi, P. O. Box 411, Honolulu
B. S., College of Hawaii, 1915
(Agriculture)
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- MacNeil, Helen B., 2010 Hunnewell St., Honolulu
B. A., Boston University, 1912
(Candidate, M. A. in Education)
- McDill, James Atwell, Central Y. M. C. A., Honolulu
A. B., Oberlin College, 1916
(Sociology)
- Miyake, Iwao, Koloa, Kauai; University of Hawaii, Physics Dept.
B. S., University of Hawaii, 1926
(Candidate, M. S. in Physics)
- Morita, Helene T., 1021 Kama Lane, Honolulu
B. S., University of Hawaii, 1924
(Candidate, M. S. in Zoology)
- Muramaru, Norikazu, 1020 Poha Lane, Honolulu
B. A., University of Hawaii, 1928
(Political Science)
- Myrole, Ruth, 1322 Koko Head Ave., Honolulu
A. B., University of Washington, 1906
(Psychology)
- Oliveira, Juliette Marcallino, 1541 Fort St., Honolulu
B. A., University of Hawaii, 1928
(Zoology and Botany)
- Pahau, Robert, Hilo, Hawaii
B. S., College of Hawaii, 1918
(Agriculture)
- Peet, (Mrs.) Jessie Sebree, 903 11th Ave., Honolulu
B. A., University of Hawaii, 1927
(Political Science)
- Pickering, Opal Riley, 1082-I Beverly Court, Honolulu
B. A., University of Hawaii, 1927
(Education and Botany)
- Sakamaki, Shunzo, Olaa, Hawaii; 610 So. King St., Honolulu
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(History and Education)
- Smith, Alice Whitaker, 1639 Piikoi St., Honolulu
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- Smith, (Mrs.) Enid Severy, 1449-A Kewalo St., Honolulu
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B. S., Occidental College, 1920
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A. B., University of Michigan, 1927
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B. A., University of Hawaii, 1928
(Sociology and Education)
- Wheeler, Herschel D., 3840 Sierra Ave., Honolulu (Withdrawn)
B. A., Pacific Union College, 1922
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B. S., Indiana State Normal School, 1924
(Education)
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- Yanaga, Chitoshi, Kealakekua, Hawaii; 634 Coral St.
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COLLEGE OF APPLIED SCIENCE

NOTE:—The first figure following a student's name indicates grade points earned, the second figure semester hours earned at the University of Hawaii; figures in parentheses indicate advanced standing credits allowed from other institutions. Roman numerals indicate class—I Freshman, II Sophomore, etc.

- Aizawa, Masao, 80, 62, (II General Science), Kihei, Maui; 1239 So. King St.
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- Arita, Kiyo, 22, 16, (I Home Economics), 1133 Fort St.
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 Inouye, Kiyoshi, 145, 90, (III Pre-Medical), 1146 Austin Lane
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 Kalihika
 Ito, Tadao, 28, 19, (I General Science), Kurtistown, Hawaii; 1710
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- Iwanaga, Isamu, 217, 143, (IV Agriculture), 1936 Fort St.
- Iwanaga, Noboru, 27, 19, (I Pre-Medical), 1936 Fort St.
- Janssen, Frederick J., 15, 16, (I Sugar Technology), Waimanalo, Oahu; Men's Dormitory
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- Judd, Clement March, 24, 18, (I Agriculture), Kualoa Ranch; c/o Mrs. F. M. Swanzy, P. O. Box 3020, Honolulu
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- Kai, Herbert A., 219, 95, (III Pre-Medical), 406 Halli St., Hilo, Hawaii; Men's Dormitory
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- Kaneko, Richard, 154, 136, (IV General Science), Puuwaawaa Ranch, Hawaii; 1474 Fort St.
- Kapu, Samuel, 3, 5, (I General Science), 1822-B Harvey Lane, Kalihi
- Kawaguchi, Kenichi, 291, 137, (IV Agriculture), 1234 Nuuanu St.
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- Kawamura, Kenichi, 126, 58, (II Civil Engineering), 1227 Pua Lane
- Kea, William Christian, 15, 9, (I General Science), 1745 Ashford St., Kalihi
- Kennedy, Frederic D., 0, 0, (I Sugar Technology), 246 Kaiulani Ave.
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- Kinoshita, Robert S., 76, 56, (II Pre-Medical), 1281 Fort St.
- Kobayashi, Harry Isami, 7, 7, (I Civil Engineering), 1626 Bingham St.
- Koike, Clarence Sadao, 157, 137, (IV Civil Engineering), Box 21, Holualoa, Hawaii; Mid-Pacific Institute
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- Kubo, Bertram S., 20, 38, (II Pre-Medical), P. O. Box 283, Hilo, Hawaii; 1710 Fort St.
- Kunichika, Yoshio, 5, 12, (I Pre-Dental), Lahaina, Maui; 870 Factory St., Kalihi
- Kuwahara, Toshio, 20, 18, (I Pre-Dental), Market St., Wailuku, Maui; 2305 Cooper Road
- Lai, Lup, 65, 56, (II Agriculture), 1552 Liliha St.
- Lam, Grace Yuk Yee, 20, 17, (I Voc. Educ., H. E.), 377 Pahala Lane
- Lambert, Fred, 16, 17, (I Pre-Medical), 1550-D Karratti Lane, Pensacola St.
- Lau, Seth Su, 34, 42, (II Agriculture), 83 No. King St.
- Leach, James Richard, 96, 51, (II Pre-Dental), 2021 Round Top Drive
- Lee, Kong Hui, 283, 137, (IV Civil Engineering), 1222 So. King St.

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- Leonor, Julio Lata, 26, 47, (39), (III Sugar Tech., Chem.), Mambusao, Capiz, P. I.; 409 Buckle Lane
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- Lindsay, Walter R., 19, 23, (I Agriculture), Haiku, Maui; 3310 Paho Ave.
- Lindsey, George K., 29, 37, (II Voc. Educ., Agric.), Lahaina, Maui; 2877 Oahu Ave.
- Loehr, William Carl, 13, 14, (I Civil Engineering), 2521 Waolani Ave.
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- Luke, Hing Biu, 104, 56, (II Pre-Medical), 1308 Date and Cedar Sts.
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- Maeno, Charles Shigeo, 1, 16, (I Pre-Medical), Lihue, Kauai; Lehua St., Kalihi-uka
- Maida, Tom, 138, 87, (III Pre-Medical), 1270-D Akala Lane
- Maneki, Mitsugi, 187, 105, (III Agriculture), Box 27, Kaumana, Hilo, Hawaii; Y. M. B. A. Dormitory, Fort St.
- Mark, Henry, (I Agriculture), 1731 Colburn St. (Withdrew)
- Masuhara, Robert Toru, 24, 16, (I Pre-Medical), Mid-Pacific Institute
- Matsuki, Nobuyoshi, 28, 46, (II Pre-Medical), 340 No. School St.
- Matsusaka, Yoshito, 106, 59, (II Sugar Tech., Agric.), Box 47, Aiea, Oahu
- Matsuyama, Masayoshi, (I Voc. Educ., Agric.), Makaweli, Camp 2, Kauai; 935 Thomson Lane (Withdrew)
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- Miura, Chiyoko, 31, 19, (I Home Economics), Kapaa, Kauai; 858 6th Ave., Kaimuki
- Moragne, Catherine, 4, 12, (I Home Economics), Lihue, Kauai; 2121 Atherton Road
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- Ng, Abraham K. S., 47, 47, (II Pre-Medical), 56 Cunha Lane
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- Octavio, Arcenio M., 82, 57, (II Agriculture), Box I, Puunene, Maui; Mid-Pacific Institute
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- Ohara, Kenji, (I Voc. Educ., Agric.), 533 Cooke St. (Withdraw)
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Webster, Winifred W., 77, 57, (II Home Economics), 1836 Punahou St.
Westgate, Philip John, 129, 54, (II Agriculture), U. S. Experiment
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Wiebke, Henry, 154, 68, (III Pre-Medical), 3133 Waialae Ave. (With-
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pahu, Oahu
Wightman, Vincent H., 20, 21, (I Sugar Tech., Agric.), Box 1034, Wai-
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Wong, David, 14, 19, (I Civil Engineering), 944 Kapahulu Road. (With-
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Wong, Eva Yun Gin, 26, 19, (I Home Economics), Hawi, Hawaii;
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COLLEGE OF ARTS AND SCIENCES

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- Beers, Pearl M., 1319-H Wilder Ave.
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- Beveridge, Kathryn, Papaikou, Hawaii; 26-G Cleghorn Drive
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 Smith, (Mrs.) Clare S., A. B., 1327 Pensacola St.
 Smith, Elizabeth L., B. A., 1576 Pensacola St.
 Smith, (Mrs.) Florence Maile, 880 So. King St.
 Smith, Margaret R., 1801 Rocky Hill St.
 Soares, Anna, Fernhurst, Honolulu
 Soares, Ricarda A., 421 Wyllie St.
 Soon, Eva Ashin, 1873 Puowaina Drive

- Sorensen, Beatrice M., *B. A.*, Loudior Hotel
Sousa, Esther F., 1377 Lusitana St.
Spencer, (Mrs.) Edith Brodie, 249 Saratoga Road
Stepp, (Mrs.) Ida J., 50 Cleghorn Drive
Stocks, Frederic Stuart, 251 So. Vineyard St.
Sullivan, (Mrs.) Josephine H., 736 Lunailo St.
Takata, Harry H., *B. S.*, Waimea, Kauai; 884 N. King St.
Tanaka, Ruth Yoshiko, 1582-C Philip St.
Thompson, Carrie A., 2133 McKinley St.
Thompson, (Mrs.) Ruth Hildegarde, Punahou School
Thornton, Jane, *A. B.*, Pocahontas, Iowa; 269 Beach Walk
Tierney, Catherine Whalin, 1254 Eddy St., San Francisco, Calif.; 1946
Makiki St.
Travis, Ruth, MacDonald Hotel, Honolulu
Turtle, (Mrs.) Maida Davis, Fort Kamehameha, T. H.
Underhill, Bertha, *B. S.*, 31 Tamalpais Road, Berkeley, Calif.; 239
Kaiulani Ave.
Valentine, Margaret, 1107 Punahou St.
Verbeek, Dorothea, 125 Sherman Ave., New York City; 2353 East
Manoa Road
Von Pulaski, (Mrs.) Bertha, *Ped. B.*, 1248 Gaylord St., Denver, Colo.;
1841 Anapuni St.
Votaw, Roy Clinton, *A. B.*, 2581 Jones St.; Nuuanu Y. M. C. A.
Wallace, Keith, 3408 Hardesty St.
Webb, (Mrs.) Marguerite Elsie, 3049 Kalakaua Ave.
Webb, Marshall H., 3049 Kalakaua Ave.
Webling, Gustav Henry, 1932 Bingham St.
Welsh, (Mrs.) Pearl H., 1611 Makiki St.
Whittle, Mabel, 1435 Fort St.
Whittle, William, 1435 Fort St.
Wilcox, Eleanor K., 1319 Emma St.
Wilson, (Mrs.) Edna Martha, Waimanalo, Oahu
Wilsted, Elsie, Bryn Mawr, Wash.; Fernhurst, Honolulu
Wing, Winifred, Kamehameha School
Winne, (Mrs.) Ayleen, Tantalus Drive
Wong, Ambrose M. C., 3033 Upper Manoa Road
Wong-Ho, (Mrs.) Margaret, 613 Ihe St.
Woods, Ida, 2065 Lanihuli Drive
Yap, (Mrs.) Mollie A., 1646-F Liholiho St.
Yomes, Nora, 2153 Eluwene St.
Young, Amy Louise, Hilo, Hawaii; 1533 So. Beretania St.

SUMMARY OF STUDENTS

Graduate Students.....	55		
College of Applied Science			
Seniors	31		
Juniors	45		
Sophomores	88		
Freshmen	100		
		264	
College of Arts and Sciences			
Seniors	65		
Juniors	54		
Sophomores	95		
Freshmen	145		
		359	
			678
Deduct, counted twice			6
Total Degree Candidates.....			672
Students Carrying Limited Program*.....			268
TOTAL			940
Extension Division Students			390
			1330
Deduct, counted twice			15
GRAND TOTAL			1315
Summer Session, 1927.....	236		

* See note page 124.

GEOGRAPHIC DISTRIBUTION

(Summer Session and Extension Division Students Not Included)

Oahu	663	New Jersey	2
Hawaii	88	New York	2
Kauai	59	Ohio	3
Maui	59	Oregon	1
Molokai	2	Pennsylvania	1
California	11	Texas	1
Colorado	3	Utah	2
Connecticut	1	Vermont	1
Florida	1	Virginia	1
Idaho	1	Washington	2
Illinois	2	Washington, D. C.	2
Indiana	1	Wisconsin	2
Iowa	2	China	3
Kansas	3	Guam	1
Maryland	1	India	1
Massachusetts	3	Japan	4
Missouri	1	Korea	1
Montana	1	Mexico	1
Nebraska	2	Philippine Islands	5
		TOTAL	940

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BOOKS

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- Vol. VI, No. 2 (Supplement)—Bibliographical List of the Publications by Members of the Faculty 1925-1926-1927.
- Vol. VI, No. 2 (Supplement)—Summer Session Announcement 1927.
- Vol. VI, No. 3—Directory of Officers and Students 1927-28.
- Vol. VI, No. 4—Financial Statement of the Treasurer 1926-27.
- Vol. VII, No. 1—Tenth Annual Report of the Agricultural Department July 1, 1926-June 30, 1927.
- Vol. VII, No. 1 (Supplement)—Summer Session Announcement 1928.

RESEARCH PUBLICATIONS

- No. 1—Applications of Clinical Psychology in Hawaii, by Marjorie E. Babcock; June, 1927.
- No. 2—The Economic Geography of Hawaii, by Otis Willard Freeman; June, 1927.
- No. 3—The History of Banking in Hawaii, by Cecil G. Tilton; August, 1927.
- No. 4—The Education of the Boys of Hawaii and their Economic Outlook, by Romanzo Adams and Dan Kane-Zo Kai; January, 1928.

OCCASIONAL PAPERS

- No. 5—Historical Sketch of the University of Hawaii, by Arthur Lyman Dean; June, 1927.
- No. 6—Hawaii's Position in Experiment Station Appropriations, by D. L. Crawford; October, 1927.

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- No. 1—Hawaiian Forest Areas; June, 1927.
- No. 2—Sugar Cane in Hawaii; June, 1927.
- No. 3—Coffee in Hawaii; June, 1927.
- No. 4—Imports and Exports of Agricultural Products in Hawaii, 1926, by L. A. Henke; August, 1927.
- No. 5—Bananas in Hawaii; September, 1927.
- No. 6—Vegetable Growing in Hawaii, by F. G. Krauss; 1927.
- No. 7—A Sugar Cane Farm—Being the Report of The Waiakea Experiment Station at Hilo, Hawaii; April, 1928.
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- Edmondson, C. H.—The Ecology of An Hawaiian Coral Reef. (Bul. 45, Bishop Museum, pp. 1-64, 1928.)
- Harada, Tasuku—The Social Status of the Japanese in Hawaii: Some of the Problems Confronting the Second Generation. (Inst. Pacific Relations Bul., 1927.)
 A Study of Textbooks on History and Geography Used in Secondary Schools of Japan. (loc. cit., 1927.)
 National Characteristics of the Japanese. (loc. cit., 1927.)
- Henke, L. A.—Pineapple Bran, A New Feed in Hawaii. (Mid-Pacific Mag., Jan., 1928.)
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 Simple Apparatus for Seismic Measurements. (Bul. National Research Council, Number 61, July, 1927, pages 91-96.)
- Lum, Kalfred D.—The Government of the City and County of Honolulu, with Robert Littler and K. C. Leebrick co-authors. (Hon. Star-Bulletin, Dec., 1927.)
- Miller, Carey D.—Food Values of Poi, Taro and Limu. (Bul. 37, Bishop Museum, 1927.)
- Neuffer, Leonora—Comparative Study of Toxicities of Certain Groups of Chemical Substances Used in Cancer Treatment. With R. J. Harris as co-author, published by the University of Cincinnati, 1927.
- Ostergaard, J. M.—Fossil Marine Mollusca of the Limestone of Oahu. (Bishop Museum publications.)
- Palmer, Harold S.—The Geology of the Honolulu Artesian System; Supplement to the report of the Honolulu Sewer and Water Commission to the Legislature of the Territory of Hawaii, 14th regular session. (Mercantile Press; Honolulu, 1927. 68 pp., 21 figures and maps.)
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 A Study of the Viscosity of Lava; (Monthly Bulletin of the Hawaiian Volcano Observatory, vol. XV, No. 1, 3 pp., 1 fig., Honolulu, January, 1927.)

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