UNIVERSITY OF HAWAII

QUARTERLY BULLETIN

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CATALOGUE

AND

ANNOUNCEMENT

OF COURSES

1929-1930

MAY, 1929

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Honolulu

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CALENDAR
1929-1930

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June 3  Eighteenth Annual Commencement.  Monday
July 1  Summer Session begins.  Monday
August 9  Summer Session closes.  Friday
August 31  Last day for receiving applications  Saturday
for admission.
September 3-7  "Freshman Week."  Tues.-Sat.
September 9-10  Registration, Twenty-second Annual  Mon.-Tues.
Session.
September 11  Instruction begins.  Wednesday
October 1  Last day for receiving applications  Tuesday
from candidates for advanced  Monday
degrees.
November 11  Armistice Day.  Thurs.-Sat.
November 28-30  Thanksgiving Recess.  Monday
December 23  Christmas Recess begins.

1930

January 6  Work resumed.  Monday
January 28  Registration, Second Semester.  Tuesday
February 22  Washington's Birthday.  Saturday
April 15  Last day for receiving requests for  Tuesday
examinations for advanced de-
grees.
April 18-19  Good Friday Recess.  Fri.-Sat.
May 2  Eighth Annual Contest for Berndt  Friday
Prize.
May 24-31  Final Examinations.  Sat.-Sat.
June 2  Nineteenth Annual Commencement.  Monday
August 30  Last day for receiving applications  Saturday
for admission.
September 2-6  "Freshman Week."  Tues.-Sat.
September 8-9  Registration, Twenty-third Annual  Mon.-Tues.
Session.
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 9 to January 25, the second semester from January 28 to June 2, and the 1929 summer session is from July 1 to August 9.

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 (or 12*) acceptable units of high school work with a good average grade, or the equivalent, are admitted. Application 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 3-7. 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.—The affairs of the University are under the control of a Board of Regents, which 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.

* See page 27.
THE BOARD OF REGENTS

CHARLES R. HEMENWAY, Chairman
DAVID L. CRAWFORD, Secretary
REV. AKAIKO AKANA
GEORGE II 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, William Allison Lloyd, LL. B.
- Treasurer, Gerald R. Kinnear, A. B., M. B. A.
- Registrar, Helen B. MacNeil, A. B.
- Librarian, Mary P. Pringle
- 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
William A. Lloyd
Dora S. Lewis

Elected
Romanzo Adams
Frank T. Dillingham
Charles H. Edmondson
Paul Kirkpatrick
Frederick G. Krauss

Helen B. MacNeil, Secretary

STANDING COMMITTEES

1928-1929

Scholarship—Romanzo Adams (Chairman) A. G. Clarke, E. C. Webster, P. Kirkpatrick, Floralyn Cadwell Conway.
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. Palmer
THE FACULTY
1928-1929

AGRICULTURE:

LOUIS A. HENKE, M. S., Professor of Agriculture, (1916)*
B. S., University of Wisconsin, 1912; M. S., University of Wisconsin, 1925
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; Graduate study in Germany, 1927-1928
2447 Parker Street

H. A. WADSWORTH, B. S., Associate Professor of Agriculture, (1928)
B. S., University of California, 1916; Graduate Study at Stanford University, 1927-1928
2326 Liloa Rise

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., Research Professor of Physical Anthropology, (1927)
2231 Hyde Street

ART:

ADELAIDE MORRIS, A. M., Assistant Professor of Art and Design, (1929)
A. B., University of Colorado, 1903; A. M., University of Colorado, 1917; Graduate Study, Art Institute, Chicago
3710 Harding Avenue

HUC-MAZELET LUQUIENS, B. F. A., Instructor in Art, (1924)
B. A., Yale, 1902; B. F. A., Yale, 1908
1646 Bingham Street

JULIETTE MAY FRASER, B. A., Instructor in Art, (1928)
B. A., Wellesley, 1909
2733 Terrace Drive

* Indicates date of appointment on the Faculty of the University of Hawaii.
** Transferred to the Agricultural Extension Division June 1, 1929.
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 Street

ROSS S. BEAN, B. S., Instructor in Botany, (1927)
B. S., Brigham Young University, Utah, 1921; Graduate work, University of California, 1925-1927
2535-B East Manoa Road

THEODORE C. ZSCHOKKE, M. F., Instructor in Botany, (1928)
B. A., Stanford University, 1895; Master of Forestry, Yale University, 1905
End of Ferdinand Street

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 University, 1916; Fellow in Plant Nutrition, University of California, 1922-1923
2562 Jones Street

RICHARD WRENshall, Ph. D., Professor of Chemistry, (1919)
Ph. B., Yale University, 1911; Ph. D., Yale University, 1915
2180 Atherton Road

EARL M. BILGER, Ph. D., Assistant Professor of Chemistry, (1925)
B. S., Wesleyan University, 1920; M. A., Wesleyan University, 1921; Ph. D., Yale University, 1925
Absent on leave

ARTHUR ROSE, Ph. D., Instructor in Chemistry, (1928)
B. A., University of Cincinnati, 1925; M. A., University of Cincinnati, 1926; Ph. D., University of Cincinnati, 1927
2707 Pacific Heights

W. R. McALLEP, Lecturer on Sugar Manufacture, (1919)
Sugar Technologist, H. S. P. A., Experiment Station, Honolulu
Absent on leave

GIICHI FUJIMOTO, M. S., Instructor in Chemistry, (1921)
B. S., University of Hawaii, 1921; M. S., University of Hawaii, 1923; Assistant Chemist for Territorial Board of Health
1524 Farrington Street

CHINESE:—

SHAO CHANG LEE, M. A., Professor of Chinese Language and History, (1922)
Graduate Canton Christian College, Canton, China, 1911; Graduate Tsing Hua College, Peking, China, 1913; A. B., Yale University, 1917; M. A., Columbia, 1918
1709 So. Beretania Street

ECONOMICS AND COMMERCE:—

MERTON K. CAMERON, Ph. D., Professor of Economics, (1928)
A. B., Princeton, 1908; M. A., Harvard, 1914; Ph. D., Harvard, 1921
2159-B Atherton Road
MATTHEW M. GRAHAM, C. P. A., Professor of Accounting, (1927)
C. A. Institute of Accountants and Actuaries, Glasgow, Scotland, 1906;
C. P. A. Territorial Board of Accountancy; Instructor, University of
Hawaii, 1924-1925; in private practice as C. P. A.
2646 Oahu Avenue

VICTOR W. BENNETT, M. A., Instructor in Commerce, (1928)
B. A., Gettysburg College, 1917; M. A., Gettysburg College, 1918;
M. A., University of Pittsburgh, 1924; Graduate work, University of
Wisconsin, Stanford University
Niumalu Hotel

EDUCATION:

THAYNE M. LIVESAY, M. A., Professor of Education and Psychology, (1924)
A. B., Pacific University, 1917; A. M., University of Washington.
1921; Graduate work Stanford University, 1921-1924
145-A Liliuokalani Avenue

FRED E. ARMSTRONG, M. S., Professor of Agricultural Education, (1926)
B. S., Clemson College, 1916; M. S., University of Minnesota, 1921
2108 Haena Drive

JAMES E. RUSSELL, Ph. D., Lecturer on Education, Second Semester
Dean Emeritus of Teachers College, Columbia University
Niumalu Hotel

WILLIAM A. STECHER, M. S., Lecturer in Physical Education
(1929)
B. S., University of Indiana.; M. S., University of Indiana
Hibiscus Drive

GEORGE J. PEAVEY, A.B., Supervisor of Practice Teaching (1928)
A. B., University of Denver, 1924; Graduate Study at University of
Denver and University of Hawaii
2253 Kalia Road

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 Avenue

JOHN MASON YOUNG, M. M. E., Professor of Engineering, (1908)
B. S., University of Florida, 1898; M. E., Cornell, 1902; M. M. E.,
945 Alewa Drive

CARL B. ANDREWS, C. E., Professor of Engineering, (1920)
B. S., Rose Polytechnic Institute, 1908; M. S., Rose Polytechnic
Institute, 1917; C. E., Rose Polytechnic Institute, 1917; M. S.,
Massachusetts Institute of Technology, 1928
743 Wyllie Street

ERNEST C. WEBSTER, C. E., Professor of Engineering and Mathematics, (1925)
Ph. B., Yale, 1904; C. E., Yale, 1906
1836 Punahou Street
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 Avenue

GREGG M. SINCLAIR, M. A., Assistant Professor of English, (1928)
A. B., University of Minnesota, 1912; M. A., Columbia, 1919
2129 Kamehameha Ave

N. B. BECK, M. A., Instructor in English, (1928)
A. B., University of Washington, 1924; M. A., University of Washing­
ton, 1926; Graduate work, Stanford, 1926, University of Wiscon­
sin, 1928
252 Ohua Avenue

CARL G. STROVEN, M. A., Instructor in English, (1927)
A. B., Stanford, 1926; M. A., Stanford, 1928
2011 Lanihuli Drive

FLORALYN CADWELL CONWAY, M. A., Instructor in English, (1927)
B. L., University of California, 1912; M. A., University of Hawaii,
1926; Graduate work, University of Geneva, 1926
2239 Kamehameha Avenue

HORTENSE HALLOCK, M. A., Instructor in English, (1927)
B. A., Elmira College, 1921; M. A., Cornell, 1923; Graduate work,
Cornell, 1922-1923; University of Missouri, 1923-1924
2009 Kakela Drive

ENTOMOLOGY:—

EDWIN H. BRYAN, JR., M. S., Special Instructor in Entomology, (1925)
B. S., University of Hawaii, 1920; Ph. B., Yale, 1921; M. S., Univer­
sity of Hawaii, 1924. Curator, Bishop Museum, Honolulu
2721 Ferdinand Avenue

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 Street

JOHN WESLEY COULTER, Ph. D., Lecturer on Geography, (1928)
B. A., University of California, 1919; M. A., University of California,
1921; Ph. D., University of Chicago, 1926
Pleasanton Hotel
Faculty

GERMAN:—

MARIA HÖRMANN, A. B., Instructor in German Language, (1927)
Staatsexamen fur Hohere Tochterschulen, Berlin, Germany, 1905;
B. A., University of Hawaii, 1923
1036 Green Street

HAWAIIAN:—

JOHN H. WISE, Professor of Hawaiian Language, (1926)
Oberlin, 1890-1893
1910 Fort Street

HISTORY AND POLITICAL SCIENCE:—

WILLIAM H. GEORGE, Ph. D., Professor of History and Political
Science, (1928)
A. B., Harvard, 1902; M. A., Princeton, 1906; Ph. D., Harvard, 1921;
Graduate study under Dr. Duquit, University of Bourdeaux
Dole Hall, Punahou Campus

CHARLES EMANUEL MARTIN, Ph. D., Acting Professor of His-
tory and Political Science (1929)
B. L., University of California, 1914; A. M., University of California,
1915; Ph. D., Columbia University, 1917; on leave of absence from
University of Washington
Marigold Apts.

KALFRED DIP LUM, Ph. D., Assistant Professor of Political
Science, (1926)
B. A., University of Hawaii, 1922; M. A., Columbia, 1923; New York
University Law School, 1923-1925; Ph. D., New York University,
1926
1947-B North King Street

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
2453 Sonoma Street

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
2002 Hunnewell Street

RALPH S. KUYKENDALL, M. A., Instructor in History, (1923)
A. B., College of the Pacific, 1910; M. A., University of California,
1918; Executive Secretary, Hawaiian Historical Commission, Honolulu
2002-E Hunnewell Street

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; Graduate work at Yale, 1928-1929
Absent on leave

ANNA B. DAHL, Assistant Professor of Textiles and Design, (1917)
Formerly head of Vienna School of Costume Design, San Francisco;
Exposition of the New Applied Art, Paris, France; Viennet School of
Design, Paris, France, 1925
2315 Maile Way
DORA S. LEWIS, M. A., Assistant Professor of Home Economics and Dean of Women, (1927)
B. S., State College of Washington, 1920; M. A., Teachers College, Columbia University, 1926
Women's Dormitory

LILLIAN E. SMITH, Assistant in Textiles
Vienna School of Costume Design, San Francisco, 1912-1916; Fashion Academy, San Francisco, 1924
2315 Maile Way

FRANCES LAWRENCE, Instructor in Child Development, (1928)
Graduate Cook County Normal School; Teachers College, Columbia, 1915-1916. Supt. of Free Kindergarten and Children's Aid Association, Honolulu
541 Kawaihao Street

INTERNATIONAL RELATIONS:—

ROKURO NAKASEKO, Ph. D., Carnegie Professor of International Relations, First Semester 1928-1929
Graduate Doshisha College, Kyoto, Japan, 1889; Ph. D., Johns Hopkins University, 1899; M. S., Yale, 1901; D. Sc., Kyoto Imperial University, Kyoto, Japan, 1927
Pleasanton Hotel

PERCIVAL R. COLE, Ph. D., Carnegie Professor of International Relations, Second semester, 1928-1929
B. A., University of Sydney, Australia, 1903; M. A., University of Sydney, 1905; Ph. D., Columbia University, New York, 1907; Vice-Principal, Teachers College, University of Sydney
Pleasanton Hotel

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, Scotland, 1910; President Doshisha University, Kyoto, Japan, 1907-1919
1728 Rocky Hill Street

MATHEMATICS (See also Engineering):—

JOHN S. DONAGHHO, M. A., Professor of Mathematics and Astronomy, (1908)
A. B., Marietta, 1889; A. M., Marietta, 1897
361 Alewa Drive

RUTH L. T. YAP, M. A., Instructor in Mathematics, (1928)
B. A., University of Hawaii, 1923; M. A., University of Hawaii, 1925; Graduate work, Columbia University, 1926-1928
3465 Waialae Avenue

MILITARY SCIENCE:—

ADNA G. CLARKE, LIEUT. COLONEL, 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 Street
Faculty

NORMAN M. NELSON, CAPTAIN, (D. O. L.), Assistant Professor of Military Science and Tactics, (1925)
Graduate of the Infantry School, 1924
1638 Anapuni Street

CECIL J. GRIDLEY, CAPTAIN, (D. O. L.), Assistant Professor of Military Science and Tactics, (1927)
Graduate of Infantry School, 1922
2036 Lanihuli Drive

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 Street

SAMUEL W. ROBLEY, Instructor in Physical Education, (1927)
Executive, Honolulu Boy Scouts
89 South King Street

PHYSICS:

PAUL KIRKPATRICK, Ph. D., Professor of Physics, (1923)
B. S., Occidental College, 1916; Ph. D., University of California, 1923
2156 Atherton Road

WILLARD H. ELLER, M. S., Instructor in Physics, (1928)
B. S., University of California, 1914; M. S., University of Washington, 1925; Graduate work, University of California, 1925-1928
2839 Oahu Avenue

IWAO MIYAKE, B. S., Assistant in Physics, (1927)
B. S., University of Hawaii, 1926

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 Street

ROMANCE LANGUAGES (French, Spanish):

IRVING O. PECKER, A. B., Professor of Romance Languages, (1919)
A. B., Boston University, 1912; Alliance Francaise, Sorbonne, Paris
Young Hotel

MARGUERITE McGEE, B. A., Instructor in French and Spanish, (1927)
B. A., Stanford, 1916; Graduate work, Stanford, 1919-1920; Centro de Estudios Historicos, Madrid, Spain; Sorbonne, Paris
Pleasanton Hotel
HELENE BOUCHER BIGGS, A. B., Instructor in French, (1928)
A. B., Oberlin College, 1917; Graduate work, University of Chicago;
Study in Paris, 1917-1919 and 1923
234-A Ohualani Avenue

SOCILOGY:

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 Liloa Rise

ANDREW W. LIND, A. M., Research Assistant in Sociology, (1927)
A. B., University of Washington, 1924; A. M., University of Wash-
ington, 1925; Graduate work, University of Chicago, 1925-1927
2186 Kamehameha Avenue

LLOYD R. KILLAM, M. A., Special Instructor in Sociology, (1927)
Instructor, Honolulu School of Religion
4709 Kahala Road

SUGAR TECHNOLOGY (See Chemistry):

ZOOOLOGY:

CHARLES H. EDMONDSON, Ph. D., Professor of Zoology, (1920)
Ph. B., University of Iowa, 1903; M. S., University of Iowa, 1904;
Ph. D., University of Iowa, 1906. Zoologist, Bishop Museum, Honol-
ulu.
2019 Vancouver Highway

PAUL LEININGER RADIR, Ph. D., Instructor in Zoology, (1928)
B. A., University of California, 1924; M. A., University of California,
1925; Ph. D., Stanford, 1927
2328 Seaview Avenue

JENS M. OSTERGAARD, Instructor in Zoology, (1920)
2418 Kuhio Avenue

LIBRARY

MARY P. PRINGLE, Librarian
Pleasanton Hotel

MARIE LAMONT BURROWS, S. B., Associate Librarian and
Cataloguer
S. B., Simmons College, 1915
2458 Koa Avenue

ALICE K. ALEXANDER, A. B., Library Assistant
A. B., Syracuse, 1913; Certificate New York State Library School,
1916
3744 Mauna Loa Avenue

CYNTHIA BUCK GEISER, A. B., Assistant Cataloguer
A. B., Western State College, Colorado, 1928
2418 Ferdinand Avenue

EUPHIE G. M. SHIELDS, B. A., Library Assistant
B. A., University of Hawaii, 1924
Absent on Leave
Faculty

KATHRYN JEANETTE MACFARLANE, Library Assistant
Los Angeles Public Library School, 1923; University of California, 1923-1926
450 Wyllie Street

ESTHER HOE STEWART, Library Assistant
3128 Olu Street

GEORGIA M. JOHNSON, Library Assistant
2868 Kahawai Street

SUMMER SESSION, 1928
(In addition to members of the University faculty, the following instructors conducted courses in the 1928 summer session of the University.)

MILDRED F. CROCKETT, M. A., Instructor in English, Kamehameha Boys' School
B. A., 1914, M. A., 1915, University of Washington

ROY E. FINCH, A. M., Deputy Superintendent of Schools in charge of Junior High Schools, Rochester, N. Y.

HELEN C. HARDISON, Instructor in Dancing and Play Production, Cumnock School, Los Angeles
Graduate of Cumnock School; Acting experience with Pasadena Community Playhouse, Fine Arts Theatre, and New York Productions with Walker Whiteside

LAWRENCE A. KURTZ, B. S., Captain, Artillery Corps, U. S. A.
B. S., University of Texas, 1923

ALBERT R. LANG, Ph. D., Director of Education, Fresno State Teachers' College, California
A. B., Nebraska Wesleyan University, 1909; A. M., University of Nebraska, 1912; Ph. D., Stanford University, 1924

PERCY A. MARTIN, Ph. D., Professor of History, Stanford University
A.B., 1902; A. M., 1903, Stanford University; A. M., 1906, Ph. D., 1912, Harvard University

RICHARD E. MEYER, M. A., Supervising Principal, East Maui, T. H.
B. S., 1917, M. A., 1922, University of Arizona

ROBERT R. SPENCER, A. B.; Principal Washington Jr. High School, Honolulu, T. H.
A. B. University of Hawaii, 1923; graduate work, Stanford, 1925-1926

VIRGINIA VAN NORDEN, B. E., Instructor in Stagecraft and Costume Design, University of California at Los Angeles
B. E., University of California at Los Angeles, 1926

LORLE S. WEEBER, Ph. D., Instructor in Psychology, Normal School Honolulu
A. B., 1912, A. M., 1913, Bryn Mawr; Ph. D., Columbia University, 1916

FREDERICK L. WHITNEY, Ph. D., Director of Educational Research, Colorado State Teachers' College
Ed. B., Ph. B., A. M., University of Chicago; Ph. D., University of Minnesota
UNIVERSITY EXTENSION

ETTA RADKE WASHBURN, A.B., Assistant Director in Charge  
A. B., University of Wisconsin, 1916  
2163-B Atherton Road

DORIS E. SKEDD, A.B., Stenographer  
A. B., Mt. Holyoke College, 1927  
2065 Lanihuli Drive

Instructional Staff

In addition to members of the University faculty, the following instructors conducted extension courses in 1928-1929:

GEORGE AXTELLE, M.A., Instructor in Education  
B. A., University of Washington, 1923; M. A., University of Hawaii, 1928. Principal, Kawananakoa Experimental School  
3670 Sierra Ave.

MARGARET BERGEN, Instructor in Social Case Work  
Formerly Director of Social Service Bureau, Honolulu  
2315 Maile Way

CLEMENT CHOY, M. A., Instructor in Chinese Language  
B. A., University of Nanking, Nanking, China, 1920; M. A., University of Chicago, 1923  
2032 Bingham St.

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

LIEUT. R. W. M. GRAHAM, M. S., Instructor in Radio  
B. S., U. S. Naval Academy, 1919; M. S., Yale University, 1926. Force Communication Officer, U. S. Submarine Base, Pearl Harbor, T. H.

F. E. HOWARD, B. L., Instructor in Education  
B. L., University of California, 1901; graduate work, University of California, 1917, and summer sessions, University of California and elsewhere. Principal, Hilo High School  
Hilo, Hawaii

D. S. JEPPSON, C. P. A. (Calif.), Instructor in Accounting  
B. S. University of Southern California, 1924; M. B. S., University of Southern California, 1925; C. P. A., California, 1927. Private practice, public accounting work, Honolulu  
Box 431, Honolulu

HAROLD KAY, LL. B., Instructor in Business Law  
A. B., University of Utah, 1919; LL. B., George Washington University, 1921. Graduate work, Harvard Law School, 1921-1922. Assistant Attorney-General, Territory of Hawaii  
Kahala

RICHARD E. MEYER, M. A., Instructor in Education  
B. S., University of Arizona, 1917; M. A., University of Arizona, 1922; graduate work, University of Hawaii, Summer 1927. Supervising Principal, East Maui  
Kahului, Maui
MRS. PAUL L. RADIR, M. A., Instructor in Dancing
B. A., Reed College, Portland, Ore., 1919; M. A., Wellesley, 1925; summer work in dancing at University of Wisconsin.
2328 Sea View Ave.

MRS. AWANA H. K. SLAKER, Instructor in Parliamentary Procedure
State Parliamentarian, Nebraska Federation of Women's Clubs; State President, Nebraska Federation, 1917-21; General Federation Director, 1921-28. Author of "The Main Motion," primer of parliamentary procedure
2108 Haena Drive

ROBERT R. SPENCER, B. A., Instructor in Education
B. A., University of Hawaii, 1923; graduate work, Stanford, 1925-1926. Principal, Washington Jr. High School
249 Saratoga Rd.

J. F. VOORHEES, M. S., Instructor in Meteorology
B. S., University of Tennessee, 1909; M. S., University of Tennessee, 1911. Meteorologist, U. S. Weather Bureau
Federal Bldg.

J. F. WOOLLEY B. S., Instructor in Hawaiian
2135 Damon St.

JANE KAY WORTHINGTON, Instructor in Journalism
Work in Journalism, University of Wisconsin and University of Texas. Editorial staff, Holland's Magazine, Dallas, Texas, 1924-1928
Black Point

AGRICULTURAL EXTENSION

Cooperative Extension Service in Agriculture and Home Economics Conducted in Cooperation with the United States Department of Agriculture.

WILLIAM ALLISON LLOYD, LL. B., Director
B. S., National Normal University, Ohio, 1890; L. S., National Normal University, Ohio, 1892; LL. B., University of Texas, 1894
2230 Kamehameha Avenue

GLADYS M. WOOD, Administrative Assistant
2236 Hyde Street

FREDERICK G. KRAUSS, D. Sc., Assistant Director for Agriculture
Professor of Agriculture, College of Hawaii, 1910-1914; Agronomist, Hawaii Experiment Station, 1914-1921; Honorary D. Sc., University of Hawaii, 1923; Graduate study in Germany, 1927-1928
2447 Parker Street

M. ELMINA WHITE, B. S., Assistant Director for Home Economics
B. S., State College of Washington, 1909
2326 Oahu Avenue

MABEL GREENE, County Extension Agent, County of Honolulu
New York State Normal College; State College of Washington
998 Spencer Street
University of Hawaii

HONG CHANG WONG, B. S., Assistant County Extension Agent, County of Honolulu
B. S., University of Hawaii, 1927
1918 Fort Street

MARGARET SIMMS, Stenographer
1617 Clark Street

J. HAZEL ZIMMERMAN, B. S., County Extension Agent, County of Hawaii
B. S., Oklahoma College, 1917
Federal Building, Hilo

ROY ALLEN GOFF, B. S., County Extension Agent, County of Hawaii
B. S., Lombard College, 1913; B. S., University of Illinois, 1915
Federal Building, Hilo

Y. B. GOTO, B. S., Assistant County Extension Agent, County of Hawaii
B. S., University of Hawaii, 1924
Captain Cook, Kona, Hawaii

HARVEY F. WILLEY, Assistant County Extension Agent, County of Maui
Makawao, Maui

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 Street

MARJORIE ELIZABETH BABCOCK, M. A., Assistant Psychologist
B. A., Wells College, 1919; M. A., University of Hawaii, 1927
University of Hawaii

CHAUNCEY LOUTTIT, Ph. D., Research Assistant
B. S., Hobart College, 1924; Ph. D., Yale, 1928
2518 East Manoa Road

ASSISTANTS IN ADMINISTRATION

President's Office:
LENORE HOFFMAN, Secretary to the President
University of Hawaii

Dean's Office:
BERTHA E. DURANT, Stenographer
2389 Prince Edward Street

Business Office:
MYRTLE SWANSON, Secretary to the Treasurer
3037 Oahu Avenue
Pineapple Experiment Station

NORA BUSH POTTER, Clerk 717 18th Avenue
FLORENCE ISEMAN, Clerk 2133 McKinley Street
ROSE BELLER, Clerk Box 501, Honolulu
Registrar's Office:
HELEN MOSES, Secretary 2411 Cleghorn Drive
Bookstore:
CHESTER CHANG, Clerk 27 Kauila Street
Telephone Exchange:
MABEL MAY, Clerk 1235 8th Avenue
Shop:
CLARENCE E. OWEN, Mechanic 1242 Palolo Avenue
ROY CALVERT, Assistant Mechanic 3473 Alohea Avenue

EXPERIMENT STATION *

ASSOCIATION OF HAWAIIAN PINEAPPLE CANNERS

ADMINISTRATION:

ARTHUR L. DEAN, Ph. D., Director
A. B., Harvard, 1900; Ph. D., Yale, 1902 2225 Hyde Street
HARRY L. DENISON, B. S., Assistant to the Director
B. S., University of Hawaii, 1920 Kahala, Oahu
ELSIE G. GREENLAND, Secretary to the Director 1550 Kinau Street
EMMA WILSON, Librarian 2307 Maunaloa Avenue
MINERVA M. TOWNSEND, Stenographer 246 Ohualani Avenue

* 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.
KAUI WILCOX, B. A., Stenographer
B. A., University of Hawaii, 1926
1319 Emma Street

AGRICULTURE:

WALTER A. WENDT, B. S., 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

HENRY O. THOMPSON, B. S., Assistant Agriculturist
B. S., University of Hawaii, 1926
Wahiawa, Oahu

BOTANY:

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 Pameoa Street

GLENN E. PAXTON, M. S., Assistant Pathologist
B. S., Colorado Agricultural College, 1918; M. S., University of Wisconsin, 1921
2721 East Manoa Road

FRANCIS A. I. BOWERS, B. S., Assistant Botanist
B. S., University of Hawaii, 1924
Wahiawa, Oahu

GWENDOLYN COCHRANE WALDRON, B. S., Assistant Pathologist
B. S., University of California, 1922
P. O. Box 2870, Honolulu

BEATRICE H. KRAUSS, B. S., Assistant Physiologist
B. S., University of Hawaii, 1926
2447 Parker Street

MARJORIE WEST LORIMER, M. A., Assistant Pathologist
M. A., University of California, 1923
270-R Beach Walk

R. C. WHITMAN, M. D., Histologist
A. B., University of Michigan, 1894; M. D., University of Michigan, 1899. Special appointment on leave from the University of Colorado.
Pleasanton Hotel

CHEMISTRY:

ARTHUR L. DEAN, Ph. D., Chemist
A. B., Harvard, 1900; Ph. D., Yale, 1902
2225 Hyde Street
FRANK T. DILLINGHAM, M. A., Collaborator
B. S., Worcester Polytechnic Institute, 1901; M. A. Yale, 1916; Fellow in Plant Nutrition, University of California, 1922-1923
2562 Jones Street

FRANCIS A. E. ABEL, M. S., Assistant Chemist
B. S., University of Hawaii, 1921; M. S. University of Hawaii, 1924
2376 Oahu Avenue

CARL A. FARDEN, B. S., Assistant Chemist
B. S., University of Hawaii, 1924
1142 Wilder Avenue

JOHN M. HORNER, A. B., Assistant Chemist
A. B., Stanford, 1922
140 Dowsett Avenue

LYMAN A. DEAN, Assistant in Chemistry
2225 Hyde Street

ENTOMOLOGY:

JAMES F. ILLINGWORTH, Ph. D., Entomologist
B. S., Pomona, 1900; M. A., Stanford, 1901; Ph. D., Cornell, 1912
1103 12th Avenue

GENETICS:

FREDERICK G. KRAUSS, D. Sc., Geneticist
D. Sc., University of Hawaii, 1923
2447 Parker Street

KENNETH KERNS, B. S., Assistant Geneticist
B. S., University of Hawaii, 1926
Waipahu, Oahu

NEMATOLOGY:

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, M. S., Assistant Nematologist
B. S., University of Hawaii, 1924; M. S., University of Hawaii, 1928
1021 Kama Lane

JULIETTE OLIVEIRA, B. A., Assistant Nematologist
B. A., University of Hawaii, 1928
1541 Fort Street
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.
Cooperating Institutions

The Psychological and Psycopathic 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 Canners 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.

COOPERATING INSTITUTIONS

To supplement its own facilities for instruction and research the University has made co-operative 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.

Institute of Pacific Relations. The research library of the Institute is maintained on the University campus, occupying a portion of the University library and affording excellent facilities for research students in the field of international affairs.

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. Beginning on July 1, 1929, the Federal Experiment Station merges with the University to form the Hawaii Agricultural Experiment Station conducted co-operatively with the U.S. Department of Agriculture.

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 nearly 300 acres. A portion of this is the farm, used for experimental crops, pasturage, and livestock. 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 provides 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.

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 dining room 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 46,914 volumes. Extensive collections of important Chinese and Japanese works catalogued in English, are available. In addition there are on the shelves 170,784 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. 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 over two million dollars.

**GIFTS TO THE UNIVERSITY**

The Board of Regents is authorized by the University charter to receive gifts on behalf of the University. While the larger part of the financial support of the University has been and will continue to be derived from funds appropriated by the territorial legislature and by the federal congress, it is expected that from private sources there will be occasional gifts to aid research or advance projects which are of
special interest to the donors or which may have something more than local significance, for it is becoming increasingly evident that this University has unique opportunities for usefulness beyond the limits of the island group in which it is situated.

The Rockefeller Foundation is giving a continuing grant of $20,000 per year to aid research in the racial field, while the Carnegie Endowment for International Peace is supporting a visiting professorship at a cost of about $8,500.00 per year.

Other gifts include the J. P. Cooke Athletic Field, the Marine Biological Laboratory and Aquarium at Waikiki by Charles M. Cooke, and the site of the astronomical observatory in Kaimuki by Mr. and Mrs. Harry F. Lewis. Students of the University have raised funds for several improvements, including a 25-yard swimming tank and adjoining locker buildings, an athletic building for the football team, and a tennis court.

The most notable gift of the past year was made by Governor Wallace R. Farrington by executive order on behalf of the Territory, the gift consisting of an area of land adjoining the present campus and comprising about 190 acres. Most of this is on a sloping plateau which will some day offer a beautiful site for buildings. Meanwhile, it will be used for experimental and forestation purposes. Other gifts of the year are:

- Rockefeller Foundation, for research $20,000.00
- Carnegie Foundation, for visiting professorship 8,500.00
- Yale University Press (books) 160.00
- Representatives Club 75.00

**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 college aptitude examination and partly by testimonials as to character, ability, and fitness for university work.

Unclassified students, who are those 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.

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

Every applicant for admission to the University as a freshman must take a college aptitude examination 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 (12 units from the 3-year senior high school), this work to be selected as described below. These subjects must include 3 units of English and one unit of algebra. Every applicant must, in addition, satisfy all entrance requirements of the college in which he expects to take his work. (Pages 39 and 48.)

1—The applicant may take entrance examinations offered by the University and thus satisfy all or a part of the 15 (or 12) 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 15 (or 12) units in approved subjects with an average grade of 80% or better. Candidates in this group who fail seriously in the college aptitude examination or in the English placement examination may not be admitted.

3b—The applicant may present a high school record showing 15 (or 12) 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 college aptitude 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.

The 15 units (or 12 units) should include at least 10 (or 8) from the following fields: English, languages, mathematics, sciences (physical and biological), and social sciences.

Any other 5 (or 4) subjects or combinations of subjects to total 5 (or 4) units, credited by the school toward its diploma, will be accepted. However, in no case will more than 2 units nor less than \( \frac{1}{2} \) 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 should 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.

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

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 UNCLASSIFIED STUDENTS

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

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 Science 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 is registered as a Sophomore, none with conditions in required Freshman subjects as a Junior, and none with conditions in required Sophomore subjects 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:

<table>
<thead>
<tr>
<th>REQUIRED SUBJECTS</th>
<th>UNIVERSITY OF HAWAII</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chem. 101 or 102, 105 and 106, 124.</td>
<td>Chem. 101 or 102, 105 and 106, 124.</td>
</tr>
<tr>
<td>English 100.</td>
<td>English 100.</td>
</tr>
</tbody>
</table>

Other Non-Science subjects:

History, Language, Economics 12

SUBJECTS STRONGLY URGED

<table>
<thead>
<tr>
<th>SEMESTER HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 to 12</td>
</tr>
<tr>
<td>3 to 6</td>
</tr>
<tr>
<td>3 to 6</td>
</tr>
<tr>
<td>3 to 6</td>
</tr>
</tbody>
</table>

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

All first and second year students under 25 years of age who are carrying ten or more credits are required to take physical education unless excused on account of physical disability or other valid reason.

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.

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 University 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 Extension Service in Agriculture and Home Economics is conducted in cooperation with the U. S. Department of Agriculture. It undertakes to serve the farming interests of the Territory, both the large and smaller industries.

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.

Special announcements of extension courses and other forms of service are issued from time to time and are not included in this catalogue.
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 1929 Summer Session, July 1 to August 9, 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 an advanced degree in certain fields.

One year of advanced work in residence, or its equivalent, is the minimum requirement for the Master's 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 this 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 by graduate students, the passing mark for such courses being "B."

Application for admission as a candidate for an advanced degree must be made in writing to the Director of Graduate Work not later than October 1 for the first semester, or February 10 for the second semester, 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 Director of 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 courses must register at the beginning of each semester, paying the fees attached to these courses.

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 Director of 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 not later than May 1 for the second semester, or January 15 for the first semester.

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, and auditors regardless of the number of hours for which they are registered. Graduate students and Extension students do not pay this fee (see paragraphs 4 and 5 below).

2. An incidental fee of $5.00 per semester is charged all undergraduate students registered for ten or more semester hours, entitling the student to the use of locker facilities and other service in the gymnasium and swimming tank and such other medical and physical welfare service as is available.

3. Non-residents of Hawaii pay a tuition fee of $25.00 per semester or $2.00 per credit hour, in addition to the registration and incidental fees 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.

   (d) Graduate students, summer session students, extension students, and auditors do not pay the non-resident tuition fee.

4. 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.

5. Extension students pay the fees designated for each course.
6. 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.

7. 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.

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 fee is paid at the business office and the receipt presented to the instructor giving the examination.

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 Treasurer.

Refunds of deposits are not made until the end of the university year, unless students are withdrawing from the course. 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 Treasurer. 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 Treasurer.

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.

**Ruth C. Scudder Memorial Scholarship Fund**—This fund was established in memory of Mrs. Ruth C. Scudder by the Women's Society of Central Union Church for deserving women students.

### 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 selected on the basis of need and scholastic standing.
- **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. W. S.—The Associated Women Students is an organization of all the women to promote women's activities and interests on the campus.

Hui Pookela—The Women's Honorary Society recognizes and encourages leadership and unselfish service in student activities, extends campus hospitality, promotes scholarship, and fosters fellowship among women students. Junior and Senior women are eligible if they have maintained high scholarship and have taken part in student activities.

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

Epsilon Sigma Phi, national honorary society of extension workers, is represented here by the Alpha Omega chapter.

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. There are no national Greek letter fraternities on the campus.

The International Relations 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.
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

During the first two years of the course military science and physical education are required of all students. Exemption from these requirements must be secured from the proper faculty committee.

Admission. Candidates who wish to register in the Engineering course must present 3½ units of secondary school mathematics; in other courses in which college mathematics is a requirement at least 2½ units of secondary school mathematics should 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.

Requirements for Graduation. 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 30.)

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**

<table>
<thead>
<tr>
<th>FIRST YEAR</th>
<th>THIRD YEAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Botany 101</td>
<td>Agriculture 250</td>
</tr>
<tr>
<td>Chemistry 101 or 102</td>
<td>Agriculture 251</td>
</tr>
<tr>
<td>English 100 or 102</td>
<td>Agriculture 254</td>
</tr>
<tr>
<td>Mathematics 149 or 150, 151</td>
<td></td>
</tr>
<tr>
<td>Military Science and Physical Education</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>SECOND YEAR</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Physics 102</td>
<td>No required courses, except that major requirements must be satisfied.</td>
</tr>
<tr>
<td>English 120 or 130</td>
<td></td>
</tr>
<tr>
<td>Military Science and Physical Education</td>
<td></td>
</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>General College Courses</th>
<th>60 credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Agricultural Courses</td>
<td>20 &quot;</td>
</tr>
<tr>
<td>Major Agricultural Requirement</td>
<td>(Not including general courses)</td>
</tr>
<tr>
<td>Free electives—either agricultural courses in other than major branch or general electives</td>
<td>40* &quot;</td>
</tr>
</tbody>
</table>

Total requirement | 136 credits (minimum)

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

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

<table>
<thead>
<tr>
<th>FIRST YEAR</th>
<th>SECOND YEAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Civil Engineering 101</td>
<td>Civil Engineering 125</td>
</tr>
<tr>
<td>Mechanical Drawing 101</td>
<td>Mechanical Engineering 129</td>
</tr>
<tr>
<td>Mathematics 104</td>
<td>Mechanical Drawing 133</td>
</tr>
<tr>
<td>Chemistry 101 or 102</td>
<td>Mathematics 106</td>
</tr>
<tr>
<td>English 100 or 102</td>
<td>Physics 150, 151</td>
</tr>
<tr>
<td>Military Science and</td>
<td>English 120 or 130</td>
</tr>
<tr>
<td>Physical Education</td>
<td>Military Science and</td>
</tr>
<tr>
<td></td>
<td>Physical Education</td>
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</tbody>
</table>
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 in duplicate 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 in duplicate 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

<table>
<thead>
<tr>
<th>FIRST YEAR</th>
<th>CHEMISTRY DIVISION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Botany 101</td>
<td>Botany 101</td>
</tr>
<tr>
<td>Chemistry 101 or 102</td>
<td>Chemistry 101 or 102</td>
</tr>
<tr>
<td>Mathematics 150, 151*</td>
<td>Mathematics 150, 151*</td>
</tr>
<tr>
<td>English 100 or 102</td>
<td>English 100 or 102</td>
</tr>
<tr>
<td>Drawing, M. D. 101</td>
<td>Drawing, M. D. 101 or Art 100</td>
</tr>
<tr>
<td>Military Science and Physical Education</td>
<td>Military Science and Physical Education</td>
</tr>
<tr>
<td>English 120 or 130</td>
<td>English 120 or 130</td>
</tr>
<tr>
<td>Chemistry 124</td>
<td>Chemistry 124</td>
</tr>
<tr>
<td>Physics 102</td>
<td>Physics 102</td>
</tr>
<tr>
<td>Civil Engineering 101</td>
<td>Military Science and Physical Education</td>
</tr>
<tr>
<td>Military Science and Physical Education</td>
<td>Military Science and Physical Education</td>
</tr>
</tbody>
</table>

##### SECOND YEAR

<table>
<thead>
<tr>
<th>Agriculture 250, 251, 254</th>
<th>Agriculture 250, 251</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sugar Technology 201, 253</td>
<td>Sugar Technology 201, 253</td>
</tr>
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</table>

##### THIRD YEAR

<table>
<thead>
<tr>
<th>Agriculture 252</th>
<th>Agriculture 252</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sugar Technology 250, 252, 255</td>
<td>Sugar Technology 250, 252</td>
</tr>
<tr>
<td>Economics 150</td>
<td>Sugar Technology 255 or 257</td>
</tr>
<tr>
<td></td>
<td>Economics 150</td>
</tr>
</tbody>
</table>

* Students who offer 3 1/2 units of mathematics for entrance will not be required to take mathematics 150, 151, but will ordinarily be expected to elect mathematics 152, 153.
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 or 102
- Military Science and Physical Education

SECOND YEAR
- Mechanical Engineering 129
- Mathematics 106
- Physics 150, 151
- Chemistry 105, 124
- English 120 or 130
- Military Science and Physical Education

THIRD YEAR
- Civil Engineering 252, 253, 255
- Mechanical Engineering 282
- Engineering Laboratory (X.E.) 253
- Sugar Technology 201, 253
- Chemistry 230
- Physics 250, 251

FOURTH YEAR
- Mechanical Engineering 284
- Physics 200
- Sugar Technology 250, 252, 257
- Economics 150

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.
### REQUIRED COURSES

**HOUSEHOLD ART**
- English 100 or 102
- Chemistry 101 or 102
- Household Science 150, 151
- Household Art 100, 150, 151
- Art 150, 151, 152, 153
- Physical Education

**HOUSEHOLD SCIENCE**
- English 100 or 102
- Chemistry 101 or 102
- Household Science 150
- Household Art 100
- Art 152, 153
- Physical Education

**VOCATIONAL EDUCATION**
- English 100 or 102
- Chemistry 101 or 102
- Household Science 150
- Household Art 100, 150
- Art 152, 153
- Physical Education

#### FIRST YEAR

<table>
<thead>
<tr>
<th>English 130 or 132</th>
<th>English 120, 130 or 132</th>
<th>English 120, 130 or 132</th>
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<tr>
<td>Art 170, 171</td>
<td>Household Science 102</td>
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<td>Household Art 101</td>
<td>Economics 150, 151</td>
<td>Psychology 150</td>
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<td>Household Science 102</td>
<td>Zoology 291</td>
<td>Education 151</td>
</tr>
<tr>
<td>Economics 150, 151</td>
<td>Chemistry 105, 106 *</td>
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#### SECOND YEAR

<table>
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<tr>
<th>Art 172, 173</th>
<th>Household Science 200</th>
<th>Home Economics 250</th>
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<td>Household Art 200</td>
<td>Home Economics 250</td>
<td>Psychology 250</td>
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<td>Home Economics 250</td>
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<td>Physical Education</td>
<td>Botany 151</td>
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<td>Physical Education</td>
<td>Home Economics 253</td>
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#### THIRD YEAR

<table>
<thead>
<tr>
<th>Household Art 250</th>
<th>Household Science 249</th>
<th>Education 252</th>
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<tbody>
<tr>
<td>Art 276, 277</td>
<td>Physical Education</td>
<td>Education 253</td>
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<tr>
<td>Physical Education</td>
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<td>Psychology 251</td>
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<td>Practice House</td>
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#### FOURTH YEAR

<table>
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<tr>
<th>Household Art 250</th>
<th>Household Science 249</th>
<th>Education 252</th>
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<tbody>
<tr>
<td>Art 276, 277</td>
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<tr>
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<td></td>
<td>Psychology 251</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Practice House</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Physical Education</td>
</tr>
</tbody>
</table>

**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.

* First semester only.
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 during 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 30). 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 or 102, Chemistry 101 or 102 and Military Science and Physical Education. In the second year, he must take English 120 or 130, and Military Science and 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**

<table>
<thead>
<tr>
<th>1st Year</th>
<th>*2nd Year</th>
<th>†3rd and 4th Years</th>
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</thead>
<tbody>
<tr>
<td>Geog. 150, 151</td>
<td>Phys. 102, 150, 151</td>
<td>Chem. 211, 212, 213, 214, 215, 216, 230, 260, 261</td>
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<tr>
<td>Drawing</td>
<td>Chem. 105, 106, 124</td>
<td>Sugar Tech. 201, 250, 252</td>
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<tr>
<td>Language</td>
<td>Geol. 252, 253, 256</td>
<td>Phys. 200, 250, 251,</td>
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<tr>
<td>or</td>
<td>C. E. 101</td>
<td>254, 255, 257, 351</td>
</tr>
<tr>
<td>Political Science</td>
<td>M. D. 133</td>
<td>C. E. 252, 253, 255</td>
</tr>
<tr>
<td>150 and 151 or 161</td>
<td>Language</td>
<td>M. E. 252, 282</td>
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<tr>
<td></td>
<td>or</td>
<td>Geol. 254, 255</td>
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<tr>
<td></td>
<td>History 140</td>
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</table>

**Group B**

**Biological Sciences**

<table>
<thead>
<tr>
<th>1st Year</th>
<th>*2nd Year</th>
<th>†3rd and 4th Years</th>
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</thead>
<tbody>
<tr>
<td>Botany 101</td>
<td>Botany 102, 106, 107</td>
<td>Bot. 151, 153, 208, 209, 300</td>
</tr>
<tr>
<td>Zoology 150, 151</td>
<td>Chemistry 105, 106</td>
<td>Chem. 230, 260, 261</td>
</tr>
<tr>
<td>Geography 150, 151</td>
<td>Zoology 100</td>
<td>Zool. 102, 152, 153, 251, 270, 271, 291, 300</td>
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<tr>
<td>H. S. 100</td>
<td>Geology 252, 253, 256</td>
<td>Agr. 250, 251, 254, 256, 259, 261, 262</td>
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<tr>
<td>Drawing</td>
<td>H. S. 102</td>
<td>Geol. 254, 255, 261</td>
</tr>
<tr>
<td>Language</td>
<td>Physics 102</td>
<td>H. S. 200, 251, 300</td>
</tr>
<tr>
<td>or</td>
<td>Psychology 150</td>
<td>Econ. 150, 151</td>
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<tr>
<td>Political Science 150</td>
<td>Language</td>
<td>Physics 255, 257</td>
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<tr>
<td>and 151 or 161</td>
<td>or</td>
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</tr>
<tr>
<td></td>
<td>History 140</td>
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</tr>
</tbody>
</table>

*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.
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.

**Admission.** For admission to this college 15 (or 12) acceptable units as defined on pages 27 and 28 should be offered, three of which must be in English and one in algebra. Students planning to enter Group III, Biological and Physical Sciences, will find it advantageous to offer from high school algebra through quadratics and plane geometry.

**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 49).

(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.

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

**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

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*For an explanation of grade points see page 29.
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
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. Social Sciences.
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

<table>
<thead>
<tr>
<th>FIRST YEAR</th>
<th>SEMESTER</th>
<th>CREDITS</th>
<th>SECOND YEAR</th>
<th>SEMESTER</th>
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<tr>
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<td>3 or 4</td>
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<tr>
<td>Pol. Sc. 150, 151</td>
<td>3</td>
<td>Modern Language†</td>
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<tr>
<td>Modern Language</td>
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<td>Mil. Sc. and Phys. Ed.‡</td>
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<td>Mil. Sc. and Phys. Ed.‡</td>
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<tr>
<td>Elective</td>
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</tr>
</tbody>
</table>

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—SOCIAL SCIENCES

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

* Chem. 101 or 102, or Bot. 101, or Zool. 150, 151, or Geol. 100. This re-
requirement may be met either in the Freshman or the Sophomore year.
† Unless met by end of Freshman year.
‡ Beginning with the class of 1933, for men 1½ credits in military science and
½ credit in physical education required during the Freshman and Sophomore years.
For women, 1 credit in physical education required throughout the four years.
First and Second Years:

- History 100, 110, 120, 124, 125, 140, 172
- Geography 150, 151
- Political Science 161, 171
- Economics 123, 150, 151
- Sociology 150, 151, 153

Third and Fourth Years:

- History 243, 244, 245, 252, 253, 254, 256, 257, 258, 263, 265, 273, 275, 291, 310, 320
- Geography 300
- Political Science 220, 254, 255, 256, 260, 261, 262, 263, 271, 330
- Economics 260, 261, 270, 276, 281
- Commerce 274, 275
- Sociology 262, 267, 291, 294, 295, 350, 351, 360, 361

**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, and Art; Economics 123; History 110, 291; Political Science 171, 256; Psychology 252; Sociology 150, 151, 153.

**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 30.

Of the elective courses, at least 48 semester hours 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 30.

First and Second Years:

- Chemistry 101, 102, 105, 106, 124
- Botany 101, 102, 106, 107, 151, 153
- Zoology 100, 102, 150, 151, 152, 153
- Mathematics 104, 106, 150, 151, 152, 153
- Physics 102, 150, 151

Third and Fourth Years:

- Chemistry 211, 212, 213, 214, 215, 216, 230, 260, 261, 310, 318
- Botany 208, 209, 300
- Zoology 251, 270, 271, 291, 300
- Mathematics 250, 272, 273
- Physics 200, 250, 251, 254, 255, 257, 351, 361
- Geology 252, 253, 254, 255, 256, 261, 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 65) the student will select courses in Education and Psychology aggregating at least 20 semester hours.

Second Year: Education 151.

Third Year: Education 251; Psychology 250.

Fourth Year: Education 252, 253, and 261; Psychology 251, 252 and 255.

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.

OUTLINE OF COURSE IN COMMERCe

FIRST YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>1st Sem.</th>
<th>2nd Sem.</th>
</tr>
</thead>
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<tr>
<td>English Composition</td>
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<tr>
<td>American Institutions and</td>
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<td></td>
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<tr>
<td>European governments</td>
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<tr>
<td>Modern Language (French, German, Spanish,</td>
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<tr>
<td>Hawaiian, Japanese, or Chinese)</td>
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<td></td>
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<tr>
<td>Geography</td>
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<td>Elective</td>
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<tr>
<td>Military Science and</td>
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SECOND YEAR

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<th>2nd Sem.</th>
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<td>English Literature</td>
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<td>A Modern Language (Cont.)</td>
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<tr>
<td>Elements of Economics</td>
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<td>Mil. Sci. and Phys. Ed.</td>
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<tr>
<td>Electives</td>
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<td>17 or 16</td>
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THIRD AND FOURTH YEARS

<table>
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<th>Credits</th>
<th>1st Sem.</th>
<th>2nd Sem.</th>
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</thead>
<tbody>
<tr>
<td>Argumentation or Business</td>
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<td>Correspondence</td>
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<tr>
<td>Money and Banking</td>
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<td>Business Law</td>
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<td>Corporation Finance</td>
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<td>31 or 32</td>
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</table>
**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. 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.)

**AGRICULTURE**

150 **Farm Practice**

Henke and .....................

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**

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. Three lectures or recitations and two laboratory periods each week. Fee $3.00; returnable deposit $2.00. First semester, 5 credits.
251* Crops
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
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. Prerequisites: Agriculture 250 and 254. Lectures, recitations, and laboratory periods. Fee $2.00. First semester, 4 credits.

253* Dairying
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
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.
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
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
Properly qualified students will be recommended for 8 weeks of summer practice work as student assistants at the Experiment Station of the Hawaiian Pineapple Canners’ 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. Fee $1.00. Second semester, 3 credits.

260* Pineapple Production  A. H. P. C. Experiment Station Staff
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
A general study of horticulture with special reference to the fruits and vegetables of the Hawaiian Islands. Fee $1.00. Second semester, 3 credits.

262* Applied Genetics and Breeding
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 Canners' 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 .........
Advanced individual work in field and laboratory, with accompanying library work. Second semester, credit by arrangement.

291 General Irrigation Practice  Wadsworth
Irrigation in its relation to crop production. A general course covering the sources of irrigation water; soil moisture, and its relation to plant growth, distribution and measurement of water and the water requirements of common plants. Open to Juniors and Seniors. No prerequisites. Three recitations, one laboratory. Second semester, 4 credits.

293 Irrigation Practice  Wadsworth
Lectures, discussions, and outside readings covering the field of irrigation practice from the standpoint of the agriculturist. The course is devoted to water supply and measurement, conveyance of water in open and closed conduits and methods of irrigation. Open to Juniors and Seniors. Prerequisite: C. E. 101. Two recitations and one laboratory period. Second semester, 3 credits.
294 Irrigation Practice

Lectures and discussions covering the effect of irrigation upon soil moisture distribution and plant responses, including a critical study of the water requirements of crop plants. Open to Juniors and Seniors. Two recitations and one laboratory period. This course should be preceded by 293. First semester, 3 credits.

300 Research Work

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

150-151 Art Appreciation

The philosophy of esthetics, and analysis of the elements and principles underlying all the space arts. Appreciative study of the beautiful product of all periods and peoples. Lantern lectures, class discussion, and visits to the Art Academy and Bishop Museum. Second semester, a brief résumé of the development of the great movements in art. No prerequisite. First and second semesters, 2 credits each.

152-153 Design

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 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.

154-155 Freehand Drawing

First year of drawing and painting planned to teach the elementary but necessary facts of form; some freehand perspective; charcoal or conté crayon representation of objects, flowers, textiles for form, some pattern and texture. Memory sketching emphasized. Some painting. 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.

160-161 Painting

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 150-151, 154-155. Two periods studio. First and second semesters, 2 credits each.

170-171 Design

First semester, composition; the study of beautiful spacing, mass and color using naturalistic forms; exercises forming a basis for pictorial composition. Second semester, further exercises in art struc-
ture to develop the imagination and good taste. Pattern and form studied in relation to various industrial materials; textiles, wrought iron, pottery, etc. Prerequisite: Course 152-153; prerequisite or parallel: Course 150-151. First and second semesters, 2 credits each.

172-173  Interior Decoration  
Morris

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. Prerequisite: Course 170-171. First and second semesters, 2 credits each.

250-251  Art Appreciation  
Morris

Brief review of the art movements taken up in Course 150-151. An appreciative study of the art of the Orient. Lantern lectures, class discussion and excursions to Museums and stores. Prerequisite: Course 150-151. First and second semesters, 2 credits each. (Not offered 1929-1930.)

260-261  Advanced Drawing and Painting  
Luquiens

Students will work from the draped figure, in charcoal or in paint at the discretion of the teacher. Prerequisite: Course 160-161. Two periods studio. First and second semesters, 2 credits each. (Alternates with Course 266-267. Not offered 1929-1930.)

266-267  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 160-161. 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 260-261.)

268-269  Advanced Painting or Etching  
Luquiens

An opportunity is offered to advanced students who have taken either Course 160-161 or Course 266-267 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.

272-273  Lettering, Poster and Illustration  

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 160-161; 170-171. First and second semesters, 2 credits each.
Courses of Instruction

276-277  Costume Design

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: Course 170-171. 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 $3.00 per semester. Locker deposit $1.00. 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

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

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.

208 Advanced Plant Physiology

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." Prerequisites: 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

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.

309 Botanical Research

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

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 for those who do not intend to take further work in the science. 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: “Introductory College Chemistry” by Holmes. 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: "Laboratory Experiments in Organic Chemistry," by Adams and Johnson. 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. Text: "Qualitative Chemical Analysis," by A. A. Noyes. 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

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

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

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

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

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
Courses of Instruction

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. (Not offered first semester; will be given second semester 1929-1930.)

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. (Not offered in 1929-1930.)

310 Colloidal 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.

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: "Thousand Character 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. (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: "Thousand Character 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.

251  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. Second semester, 2 credits.

CIVIL ENGINEERING
(See Engineering)

COMMERCE

149  Outlines of Accounting  Graham
A brief survey of accounting. Emphasis will be placed on the reading and interpretation of financial statements. Not required but suggested for Sophomores in Commerce who plan to specialize in accounting. First semester, 3 credits.

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 manage-
ment. 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. (Not
offered 1929-1930.)

260-261* Business Law
Lectures and Reading. First and second semesters, 2 credits each.

264 Business Organization and Management
Bennett
An analysis of the types of organization; plant location; forms in
organization management; personnel administration—labor problems,
wage scales; scientific management, etc. Prerequisites: Junior stand-
ing and Economics 150-151. First semester, 3 credits.

265 Corporation Finance
Graham
A study of the corporate form of organization. Corporate instru-
ments; 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
Bennett
A survey of the marketing structure of industrial society. Funda-
mental functions performed in the marketing process and the channels
through which these functions are executed. The problems of the
manufacturer, wholesaler and retailer will be carefully considered.
This will be followed by a study of market analysis and research, mar-
ket policies, methods of advertising and sales management. First
and second semesters, 3 credits each.

272 Sales Management
Bennett
A course devoted to analyzing the essentials of a good sales or-
ganization, 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 illus-
trative problems. First semester, 2 credits. (Not offered 1929-1930.)

273 Advertising
Bennett
Special emphasis is devoted to the nature, purpose, and structure
of advertising copy; psychological problems involved; mediums; prin-
ciples 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
Bennett
A detailed analysis of the theory and technique of foreign trade fol-
ollowed by a study of the commercial policies of the leading commercial nations. Prerequisites: Junior standing and Economics 150-151. First and second semesters, 3 credits each.

276 Retail Merchandising

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, 3 credits.

291 Statistics

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.

ECONOMICS

123 Economic History

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. Fee $1.50. First and second semesters, 3 credits each.

150-151 Elements of Economics

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

252 Introduction to Economics

A course open only to Junior and to Senior students in Agriculture, Civil Engineering and Sugar Technology, except with the consent of the instructor. Students can not receive credit for both this course and course 150-151. Second semester, 3 credits.

260 Money and Banking

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

261 Public Finance Cameron

262-263 Practical Banking Cameron
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 Public Utilities Cameron
The economic nature and history of public utilities including railroads, followed by a critical study of some of the more important problems involved in their control by the state. Prerequisite: Economics 150-151. Fee $1.50. First semester, 3 credits.

276 Trusts and Industrial Combinations Cameron
The evolution of industrial combinations, the economics of concentration and the evils of combination from the standpoint of investor and public. Attempts at regulation by state and federal authority and plans for safeguarding the public interest. Prerequisite: Economics 150-151. First semester, 3 credits. (Not offered 1929-1930.)

281* Labor Cameron
A study of legal and social aspects. Prerequisite: Economics 150-151. Second semester, 3 credits.

EDUCATION

Each prospective teacher will be expected to earn at least twenty units of credit in Education and Psychology, exclusive of Psychology 150, 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.

251 Principles of Secondary Education Livesay
This course deals with the principles fundamental to the organization, administration, curricula, and subject matter of the secondary school. The nature of the adolescent; the objectives of secondary education; junior and senior high school organization and relations; values of the various secondary school subjects; and adapting secondary instruction to individual differences are some of the major topics 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.

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 public secondary 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 thirteen semester hours, exclusive of Education 253. Open only to Seniors or Graduate students. Either 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.
Courses of Instruction

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.

281 Physical and Health Education  
Stecher  
The basic principles underlying physical and health education. Attention will be given to selection of activities, standards to be attained, checking of results, organization of age-groups for young children, pre-adolescents, adolescents, post-adolescents; and administrative plans and forms. The class will prepare a course of physical education activities adapted to age-interests and skills. Open only to teachers in service or to Juniors and Seniors registered in Group IV. Given in 1928-1929. Second semester, 2 credits.

291 Types of Public Education  
Russell  
Interaction of agencies of control,—the family, church, industry, class and caste, the state,—in shaping the organization, administration, content and method of education from elementary schools to university. Illustrations from modern examples of Germany, France, England, Australia, and America. Given in 1928-1929. Second semester, 1 credit.

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.

310 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.

Engineering

Civil Engineering

C. E. 101 Surveying  
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, Sugar-house 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 Drowne’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. Given in 1929-1930.)

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”; 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. Not offered in 1929-1930.)

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: Tur­neaur & 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, 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

C. E. 255 Hydraulics Keller
Lectures and recitations covering the more important principles of hydraulics which govern and treat of fluids at rest, hydrostatic pres-
sure, 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. 276 Structural Design

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

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

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

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

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

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

Elementary drafting, which includes freehand sketching, freehand lettering, use of instruments, conventional sections, isometric, oblique, and cabinet drawing, development of surfaces, drawing from models (using parts of machines from the mechanical laboratory as models), the making of shop drawings, 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

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

Descriptive geometry, with special reference to its application to practical work in the drafting office, embracing lectures and drafting-room practice in which problems of a practical nature are worked out. Prerequisites: M. D. 101 and Mathematics 104. Texts: "Descriptive Geometry," Tracy & North. "Exercises in Descriptive Geometry," Kirby. Sophomores in Engineering and Sugar Technology, Sugarhouse Engineering division. First and second semesters, 2 credits each.
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. (Not offered 1929-1930.)

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: Simpson & Dillavon, "Law for Engineers and Architects." 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 1929-1930.)
Courses of Instruction

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 or 102 are given a placement test in English. All who fail to make a satisfactory grade must register in English 50.

50 Elementary Composition Conway 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, Sinclair, Stroven, Conway, 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. Either this course or English 102 is required of all Freshmen. 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 of their Sophomore year. Second semester, 3 credits.

102 Composition Espenshade

This course parallels English 100, but is open only to a limited
number, chosen on the basis of their school records, and the scores made in the English placement test and the college aptitude examination. It will differ from English 100 in that less stress will be laid upon the mechanics of composition and more upon reading and creative writing. Membership in the second semester will be determined by the grade of work done in the first semester in either this course or in English 100. First and second semesters, 3 credits each.

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 not electing English 132, and may be elected by all other Sophomores in place of English 120. First and second semesters, 3 credits each.

132 Types of Poetry

Schwartz

A study of English poetry, chiefly narrative and lyric, considered in respect to content, form, and the nature of its appeal. May be taken in place of English 130. First and second semesters, 3 credits each.

140 Journalism

Beck

A study of practical journalism, with the first semester devoted to the writing of news stories, feature stories and editorials, and the second semester to copyreading, proofreading and headline writing. Laboratory work on Ka Leo. First and second semesters, 2 credits each.

160-151 Oral Reading

Beck

Reading aloud in class of modern poetic and dramatic selections, with special attention to correct pronunciation, proper use of the voice, and appreciative expression of the author's meaning. First and second semesters, 2 credits each.

160-161 Play Production

Conway

The study, production, and direction of one-act plays. Drill in oral expression. Prerequisite: Consent of instructor. Two periods a week of 2 hours each. First and second semesters, 3 credits each.

162-163 Modern Drama

Conway

A survey of modern drama, European, British, and American, centering attention on the most significant plays of Ibsen, Shaw, Barrie, Galsworthy, and O'Neill, as a reflection and interpretation of life.
Prerequisite or parallel: English 130 or equivalent. First and second semesters, 3 credits each.

201 Business Correspondence and Commercial Journalism  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. A study of the literature of advertising. Practice in writing campaign letters, advertising folders, and promotion articles for newspapers and periodicals. Reading in current magazines, especially "Printers' Ink" and "The Magazine of Business." Open only to Juniors and Seniors. First and second semesters, 2 credits each.

205 Public Speaking  Beck

Practice in the preparation and delivery of public speeches of the types most commonly used: group discussions, formal and informal addresses, sales talks, after dinner speeches and orations. Class sessions are conducted according to parliamentary law and extemporaneous speaking is stressed. Prerequisite: English 100. First and second semesters, 3 credits each.

206 Persuasion, Argumentation, and Debate  Beck

Influencing the opinions and actions of others by logical thinking and persuasive argument. First semester, a study of the logical basis of argument and brief drawing. Second semester, persuasive elements in debate and in editorial writing. Class discussions and debates. Open to Juniors and Seniors. First and second semesters, 2 credits each.

207 The Novel  Neil

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 or equivalent. First and second semesters, 3 credits each.

208 Victorian Prose and Poetry  Neil

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 or equivalent. 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. Open only to a limited number having the consent 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.

214 World Literature
Sinclair
An outline course in world masterpieces in English translation. First semester: the classics of China, Japan, India, Persia, Greece, and Italy; second semester: the major writings of modern European masters. Special attention to national psychology as revealed in national literature. Prerequisite: English 130 or equivalent. First and second semesters, 3 credits each.

220 Modern Poetry
Conway
A consideration of the most significant contemporary British and American writers of verse with special reference to recent trends of thought and belief. Prerequisite: English 130 or equivalent. First and second semesters, 3 credits each.

250 American Literature Since 1870
Andrews
The study of representative poems, essays, and fiction. Prerequisite: English 130 or equivalent. First semester, 3 credits. (Not offered 1929-1930.)

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. Prerequisite: English 250. Second semester, 3 credits. (Not offered 1929-1930.)

252-253 Shakespeare
Schwartz
Rapid reading of the principal plays in chronological sequence. Lectures on the social and theatrical background of the period to aid the student in an intelligent appreciation of the plays. Prerequisite: English 130 or equivalent. First and second semesters, 3 credits each.

255 The Modern Novel
Schwartz
The novel in England and America since Meredith and James. Prerequisite: English 130 or equivalent. Second semester, 3 credits. (Not offered 1929-1930.)

261 History of the English Language
Schwartz
Deals with matters of origin and change in the language which help to explain the problems of present day English grammar and usage. A course especially planned for teachers. Second semester, 3 credits.

262 Eighteenth Century Poetry
Hallock
A study of the chief poetic tendencies of the period, with emphasis on the early Romantic movement. Prerequisite: English 130 or equivalent. First semester, 3 credits.
263 English Poets of the Age of Romanticism

A study of the representative works of Wordsworth, Coleridge, Byron, Keats, and Shelley as typical of the romantic thought and social ideals of the early 19th century. Prerequisite: English 130 or equivalent. Second semester, 3 credits.

300 English Seminar

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.

FRENCH

100* Elementary Course

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

101* Nineteenth Century French Novel

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

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


202* Advanced Conversation and Composition

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. First and second semesters, 2 credits each.
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.

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.

252* Modern French Drama Pecker
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. (Not offered 1929-1930.)

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. (Not offered 1929-1930.)

GEOGRAPHY

150* Physical Geography Coulter
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 Coulter
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 and Coulter
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

100 The World We Live In Palmer
This course is planned to survey a number of phases of science, and to give the student a broad view of the world we live in. Attention will be drawn not only to what is known about the world, but also to the processes by which our knowledge has developed. The subject matter will be drawn from the fields of anthropology, astronomy, botany, chemistry, climatology, engineering, geography, geology, paleontology, physics, and zoology. The course is planned primarily for Freshmen in (a) the Social Sciences, (b) the Language, Literature,
Courses of Instruction

and Art, and (c) the Education groups of the College of Arts and Sciences. First and second semesters, 3 credits each.

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." Prerequisites: 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. Required of Juniors and Seniors in Civil Engineering. Three recitations a week. First semester, 3 credits. (Alternate years; not offered 1929-1930.)

261 Crystallography Palmer

A series of lectures on Crystallography, including the geometrical laws of crystals, the crystal systems, and crystal drawing. One lecture a week. Admission only with permission of the instructor. Second semester, 1 credit.

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. Grammar developed from easy reading material. Exercises in reading and translating German. Writing of original compositions. Singing of German folk songs. Text: Bagster-Collins, "First Book in German," Mueller and Wenckebach, "Glückauf" (a First German Reader). Storm, "Immensee." First and second semesters, 3 credits each.

101 Intermediate German  Hörmann
Continuation of German grammar, according to method used in first year, with especial stress on sentence construction. Writing of original compositions. Conversation. A vocabulary is built up by discussing pictures. Reading: Examples of German short stories from classic period to modern times. First and second semesters, 3 credits each.

102 Intermediate Scientific German  Hörmann
The work of the first semester is similar to German 101, with the exception of reading matter, which is taken from scientific material. In the second semester each student is trained in written translation of scientific material in his chosen field of interest. German scientific journals are used for the purpose. Text: W. Scholz, "German Science Reader." Prerequisite: German 100. 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. This course is conducted entirely in German. (Alternates with German 201; not offered 1929-1930.) First and second semesters, 3 credits each.

201 Advanced German  Hörmann
In this course contemporary German literature is read. Composition is similar to that in German 200. The course is conducted entirely in German. First and second semesters, 3 credits each. (Alternates with German 200; offered 1929-1930.)

HAWAIIAN

100 A First Course in the Hawaiian Language  Wise
Reading the Hawaiian-English New Testament. First and second semesters, 3 credits each.

101 Second Course in the Hawaiian Language  Wise
Reading the Hawaiian-English New Testament. First and second semesters, 3 credits each.
Courses of Instruction

200 Advanced Course Wise
Reading and translation of Meles and Hawaiian songs. 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
(Introductory courses. Open to all students.)

100* General European History
A political and social history of Europe from the time of the Greeks to the present. The emphasis is on the origins and growth of the institutions of Western Europe. Library fee, $1.00. First and second semesters, 3 credits each.

110* English History
A political and social history of England from the earliest times to the present. Emphasis on events and institutions especially significant for the later history of English-speaking peoples. Library fee, $1.00. First and second semesters, 3 credits each.

124* History of Japan Harada
A brief survey of Japanese history. Emphasis on the political, social, and intellectual development of modern Japan. First and second semesters, 2 credits each.

125 History of China Lee
A general survey of Chinese history. First semester, the development and expansion of Chinese culture to the 17th century. Second semester, foreign relations and internal problems from the 17th century to the present. First and second semesters, 2 credits each.

140* History of the Americas Bailey
A general survey of the history of the western hemisphere from the discovery to the present time. The planting of European civilization in the western hemisphere; the growth of the colonies of the different nations; colonial systems; the international contest for the continents; the wars of independence in English and Latin America; the development of the independent American republics; their relations with each other and with the rest of the world. Library fee, $1.00. First and second semesters, 3 credits each.

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.
(Intermediate courses. Open to Sophomores by permission of 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. First and second semesters, 2 credits each.

244* Diplomatic History of the United States Bailey
A survey of the foreign relations of the United States from the establishment of the federal government to the present. Prerequisite: History 140 or permission of instructor. First and second semesters, 3 credits each.

245* 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. Prerequisite: History 140 or permission of instructor. First and second semesters, 2 credits each. (Not offered 1929-1930.)

252* Constitutional History of the United States Bachman
A study of the formation and evolution of the American constitution. An analysis of the factors that have influenced the character of its development. Required of all pre-legal students. First semester, 3 credits. (Not offered 1929-1930.)

253* History of Latin America Bailey
Political and social history of the countries of Latin America. Emphasis on the Monroe Doctrine, Pan-Americanism, and the relations between the United States and Latin America. Prerequisite: History 140. Second semester, 3 credits. (Not offered 1929-1930.)

254* Ancient History
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. First semester, 3 credits.

256* Medieval Europe (400 to 1500 A.D.)
A political and social history of Western Europe from the fifth to the sixteenth centuries. First semester, 3 credits. Prerequisite: History 100 or permission of instructor. (Not offered 1929-1930.)

257* Europe (1500 to 1815)
A political and social history of Western Europe from the sixteenth to the nineteenth centuries. Prerequisite: History 100 or permission of instructor. Second semester, 3 credits. (Not offered 1929-1930.)
Courses of Instruction

258* Europe Since 1815
Political and social history of modern Europe. Emphasis on international rivalries and diplomacy preceding the World War. Prerequisite: History 100 or permission of instructor. First semester, 3 credits.

262* The World War
A brief study of the more important campaigns and a detailed study of the engagements in which the United States took part. Designed especially for students intending to take Advanced R. O. T. C. Prerequisite: History 100. First semester, 1 credit.

263* Diplomatic Background of the Great War
A detailed study of European diplomacy immediately before, during, and since the Great War. Prerequisites: History 100 and 258. Second semester, 3 credits. (Not offered 1929-1930.)

265 British Constitutional History
An explanation of the development, the underlying principles, and the operation of the British constitution. It is also the aim of the course to give a background for American constitutional history. Prerequisite: History 110 except for pre-legal students. Required of all pre-legal students. Second semester, 3 credits.

273* The United States in the Pacific
A detailed consideration of the relations of the United States with native peoples and foreign powers in the course of expansion in the Pacific. Second semester, 2 credits. (Not offered 1929-1930.)

275* Great Britain, France, and Germany in the Pacific
Colonial expansion of the European powers in the Pacific area. Second semester, 2 credits.

291 Chinese Civilization
A general survey of the origin and development of the institutions of China. Illustrated lectures, assigned readings, and discussions. Fee, $1.25. Second semester, 2 credits.

(Seminar Courses)

310 Introductory Seminar in American History
Introduction to historical method, including evaluation of sources, bibliography, note taking, etc. Training in the organization and presentation of historical dissertations. Open only by permission of the instructor to qualified seniors, special students, and graduate students. Required of all candidates for the master's degree in history. The work of the second semester is optional. First and second semesters, 2 credits each.

320 Seminar in European History
Application of the historical method to an assigned problem in European history. Open only by permission of the instructor to qualified seniors, special students, and graduate students. Work of the second semester is optional. First and second semesters, 2 credits each.
327 Seminar in Hawaiian History

Kuykendall

A seminar course open only by permission of the instructor to graduate students and special students. 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. The course must be taken for both semesters. Prerequisite: History 273. First and second semesters, 2 credits each.

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 152, 153. Fee $3.50 per semester. First and second semesters, 3 credits each.

H. A. 150-151* 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.
Courses of Instruction

Open to all students. Fee $1.50. First and second semesters, 1 credit each.

H. A. 200 Millinery
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. (Given in alternate years; offered 1929-1930.)

H. A. 250 Advanced Dressmaking
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; not offered in 1929-1930.)

H. A. 251 Costume Decoration
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; not offered in 1929-1930.)

HOUSEHOLD SCIENCE

H. S. 102 Food Economics
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
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
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
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.

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.

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.

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 Sciences. 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 44, 45 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.

INTERNATIONAL RELATIONS

The Carnegie Endowment for International Peace has established a Visiting Professorship of International Relations at the University of Hawaii. This chair was occupied in the first semester of 1928-1929 by Dr. Rokuro Nakaseko of the Imperial University at Kyoto, Japan, and in the second semester by Dr. Percival R. Cole, Vice-Principal of Teachers' College, University of Sydney, and the following courses were given:
160 International Relations Nakaseko
A series of lectures, one lecture each week, on the relations between Asia and North America; open to all students. First semester, 1 credit.

161 International Contributions to Educational Thought Cole
Varities of educational opinions, the expression of the genius and philosophy of many nations will be analyzed and discussed. The study of ancient thinkers like Plato, Confucius, and Quintilian; mediaeval writers like Roger Bacon, Abelard and Dante; Renaissance personalities such as Castiglione, Erasmus and Vives; reformers such as Luther, Calvin, and Ignatius; scientists like Galileo and Francis Bacon; theorists like Locke and Rousseau; modern thinkers such as Kant, Pestalozzi, Herbart, Froebel, and Herbert Spencer; and more recent personalities such as Tolstoi and Anatole France will provide many opportunities for the widening of the educational outlook. Second semester, 3 credits.

260 Asia's Contribution to the Development of Science Nakaseko
Tracing the history of the development of science throughout the world, with emphasis on the part played by Asiatic peoples; three lectures per week, with collateral readings. First semester, 3 credits.

261 A Comparative Study of Australian, American, and English Education Cole
(a) Social background,—international obligations, physical well-being, prosperity, social intercourse, art, literature, intellectual traditions, moral standards, systems of government. Relation to education.
(b) Educational conditions,—historical influences, educational outlook, organization and administration, elementary schools, the 12 to 15 problem, secondary schools, teacher training, technical education, health, exceptional children, statistical studies, characteristic methods, probable future developments, extent of mutual indebtedness. Second semester, 3 credits.

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


MATHEMATICS

104*  Engineering Mathematics  
Webster

(a) Analytic geometry, plane and solid. (b) Spherical trigonometry. (c) A short course in advanced algebra, including simultaneous quadratic equations, binomial theorem, theory of equations, infinite series, logarithms, compound interest and annuities, probability, determinants. (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.

149  Algebra and Plane Trigonometry  
Yap

A course in algebra including the quadratic equations, arithmetic and geometric series, binomial theorem, and logarithms. Plane trigonometry. Analytic geometry. Prerequisite: One year of high school algebra, and one year of plane geometry. Five hours a week. 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

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

250* Astronomy

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. (Offered 1929-1930.)

252* Differential Equations

Prerequisite: Course 106. First semester, not more than 3 credits.

253* Differential Equations

Continuation of Course 252. Second semester, not more than 3 credits.

270-271 Fundamental Concepts of Mathematics

Teachers who wish to know more of the foundations of elementary mathematics will find this course useful. Some of the results of recent investigation, especially in their bearing on elementary mathematics, will be discussed. Other topics will include the logical foundations of algebra and geometry, the Euclidean constructions with the ruler and compass, leading to the non-Euclidean. Open also to Juniors and Seniors. Prerequisites: Algebra, Plane and Solid Geometry, Trigonometry. First and second semesters, 3 credits each.

272-273 History of Mathematics

This course will include a general survey of the growth of elementary mathematics by chronological periods. Special attention will be given to racial achievements. Prerequisites: Algebra, Plane and Solid Geometry, Trigonometry. First and second semesters, 3 credits each.

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.

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

Basis for calculation of time available for instruction

<table>
<thead>
<tr>
<th>Basic</th>
<th>Advanced</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Minimum hours of instruction per week required by law</td>
<td>3</td>
</tr>
<tr>
<td>2. Estimated number of weeks per academic year</td>
<td>36</td>
</tr>
<tr>
<td>3. Estimated total available academic hours</td>
<td>96</td>
</tr>
<tr>
<td>4. Credits for each semester</td>
<td>2</td>
</tr>
</tbody>
</table>

SUBJECTS AND SCOPE

THE FIRST YEAR BASIC COURSE

(Military Science 100)

<table>
<thead>
<tr>
<th>Subjects</th>
<th>Hours Allocated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drill and command</td>
<td>65</td>
</tr>
<tr>
<td>Military courtesy and discipline</td>
<td>3</td>
</tr>
<tr>
<td>Military hygiene and first aid</td>
<td>5</td>
</tr>
<tr>
<td>Rifle marksmanship</td>
<td>15</td>
</tr>
<tr>
<td>Scouting and patrolling</td>
<td>6</td>
</tr>
</tbody>
</table>

THE SECOND YEAR BASIC COURSE

(Military Science 110)

<table>
<thead>
<tr>
<th>Subjects</th>
<th>Hours Allocated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drill and command</td>
<td>50</td>
</tr>
<tr>
<td>Musketry</td>
<td>10</td>
</tr>
<tr>
<td>Automatic rifle</td>
<td>12</td>
</tr>
<tr>
<td>Scouting and patrolling</td>
<td>12</td>
</tr>
<tr>
<td>Combat principles</td>
<td>12</td>
</tr>
</tbody>
</table>

THE FIRST YEAR ADVANCED COURSE

(Military Science 200)

<table>
<thead>
<tr>
<th>Subjects</th>
<th>Hours Allocated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Map reading and sketching</td>
<td>24</td>
</tr>
<tr>
<td>Drill and command</td>
<td>50</td>
</tr>
<tr>
<td>Machine guns</td>
<td>42</td>
</tr>
<tr>
<td>37 MM gun and 3-inch mortar</td>
<td>20</td>
</tr>
<tr>
<td>Combat principles</td>
<td>24</td>
</tr>
</tbody>
</table>
Courses of Instruction

THE SECOND YEAR ADVANCED COURSE

(Military Science 210)

<table>
<thead>
<tr>
<th>Subjects</th>
<th>Hours Allotted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Military law and O. R. C. regulations</td>
<td>15</td>
</tr>
<tr>
<td>Military history and policy</td>
<td>20</td>
</tr>
<tr>
<td>Administration</td>
<td>8</td>
</tr>
<tr>
<td>Field engineering</td>
<td>10</td>
</tr>
<tr>
<td>Drill and command</td>
<td>53</td>
</tr>
<tr>
<td>Combat principles</td>
<td>54</td>
</tr>
</tbody>
</table>

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. First or 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.

PHYSICAL EDUCATION

Beginning with the class of 1933 all undergraduate men under 25 years of age, who are registered for ten or more semester hours of work, are required to take a minimum of one-half credit hour per week of physical education during the freshman and sophomore years, unless excused by the standing committee on physical education. For the women this minimum requirement is one credit hour per week throughout the four years. Class attendance is required until exemption has been granted by the committee.

Physical Education involves participation in organized games and athletic activities, such as swimming, tennis, volley ball, etc.

A medical and physical examination is given to every student at the beginning of the university year, and those who require it may
be given special corrective work instead of the regular class work in physical education.

When permitted by the professor of physical education, a student may engage in competitive athletics as a member of a team or squad and thus fulfil the requirements during that period for physical education, receiving the same credits as students in the regular required course.

Courses of Instruction

100 Freshman Course
Required of all first year men, unless authorized substitution is made. First and second semesters, \(\frac{3}{4}\) credit each.

101 Freshman Course Gay
Required of all first year women, unless authorized substitution is made. First and second semesters, 1 credit each.

102 Sophomore Course
Required of all second year men, unless authorized substitution is made. First and second semesters, \(\frac{3}{4}\) credit each.

103 Sophomore Course Gay
Required of all second year women, unless authorized substitution is made. 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. Open only to women. First and second semesters, 1 credit each.

200b Clogging and Character Dancing Gay
Two periods a week. Open only to women. 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. Open only to women. First and second semesters, 1 credit each.

275 Theory and Practice of Physical Education Klum
A course intended for men and women who expect to handle physical education activities in secondary schools. The course covers the coaching of secondary school sports. Restricted to Juniors and Seniors and others with proper background, with registration contingent upon the consent of the instructor. Second semester, 2 credits.
Courses of Instruction

PHYSICS

102 General Physics  
Kirkpatrick and Miyake  
Mechanics, heat, light, electricity and magnetism, and modern atomistic 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. Fee $2.00 per semester. First and second semesters, 4 credits each.

150 Mechanics and Properties of Matter  
Eller  
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  
Eller  
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.

200 Advanced Electricity  
Kirkpatrick and Eller  
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. Fee $2.00 first semester, $1.00 second semester. First and second semesters, 3 credits each.

250 Electricity and Magnetism  
Eller  
Prerequisites: Physics 150 and Mathematics 106. Two lecture-recitation periods 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  
Eller  
Prerequisites: Physics 150 and Mathematics 106. Two lecture-recitation periods and one laboratory period weekly. This is a required course for Junior students in Engineering. Fee $1.00. Second semester, 3 credits.

254 Radio Instruments and Measurements  
Eller  
Prerequisite: Physics 102 or Physics 250. The theory and operation of the inductances, condensers, vacuum tubes and other instruments which enter into the make-up of radio circuits. One lecture and one laboratory period weekly. Fee $1.00. First semester, 2 credits.

255 Light  
Kirkpatrick  
Prerequisite: Physics 102 or its equivalent. Lens systems, theory and applications of diffraction, spectrometry, interference, polariza-
tion. Two lectures and one laboratory period weekly. Second semester, 3 credits.

257* X-Ray \textbf{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.

351* Electronic Physics \textbf{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. One semester, 2 credits.

361 Physical Research \textbf{Kirkpatrick}

Students possessing requisite qualifications will be permitted to pursue original investigations, under the supervision of the department. Hours and credits by arrangement.

\begin{center}
\textbf{POLITICAL SCIENCE}
\end{center}

(Introductory courses, open to all students)

150* American Institutions \textbf{Bachman}

A rapid survey of territorial and national political institutions and problems. Special emphasis on the duties and privileges of citizenship. Library fee, $1.00. Required of all Freshmen in Arts and Sciences. First semester, 3 credits.

151* European Governments \textbf{Bachman}

A survey of the governmental organization and politics of the states of Europe. Library fee, $1.00. Required of all Freshmen in Arts and Sciences. Second semester, 3 credits.

161* Political Problems \textbf{Bachman}

Education of the electorate; methods of increasing popular control; problem of increasing administrative efficiency; uses of political propaganda by special interests, etc. Prerequisite: Political Science 150. Second semester, 3 credits.

171* History of Political Theory \textbf{Bachman}

A survey of political theory from the classical period to the present time. The latter part of the course is devoted to a study of socialism, communism, syndicalism, guild socialism and fascism. Prerequisite: Political Science 150. Second semester, 3 credits. (Not offered 1929-1930)

(Advanced courses, open to sophomores by permission of instructors)

220 Directed Reading in International Relations \textbf{Bachman}

Admission only by permission of instructor. First and second semesters, 2 credits each.
Courses of Instruction

254* Municipal Government
Lum
A study of the organization and politics of the American city. First semester, 2 credits.

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 254. Second semester, 2 credits.

256* American Political Parties
Bailey
A study in the origins, development, organization and methods of American political parties. First semester, 3 credits. (Not offered 1929-1930)

260* International Relations and Organization
Bachman
The conflicts of nationality, imperialism, international trade, and foreign policy; the development of international organization. First semester, 3 credits.

261* International Law
Bachman
A survey of the rules governing the intercourse of states in peace and war. Second semester, 3 credits. (Not offered 1929-1930)

262* Governments of the Far East
Lum
A survey of the governments of China, Japan, Korea and India. Lectures, discussions, assigned readings, and special reports. First semester, 3 credits. (Not offered 1929-1930)

263* International Relations of the Far East
Lum
A study of the diplomatic relations of the Far Eastern countries. Lectures, discussions, assigned readings, and special reports. Second semester, 3 credits. (Not offered 1929-1930)

271* Government of the Territories and Dependencies
Bachman

330 Seminar in Political Science
Bachman and Lum
Open only by permission of the instructor to qualified seniors, special students, and graduate students. Required of all candidates for the master's degree in political science. First and second semesters, 2 credits each.

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.

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 formation, the role of instincts in education, etc. Prerequisite: 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. (Not offered 1929-1930.)

255 Introduction to Physiological and Experimental Psychology Porteus and Louttit
This course will deal with the building up of the nervous system in man from its earliest beginning and the consequent growth in complexity of his behavior. The first part will consist of lectures, the second of laboratory demonstrations and experiments. There will be a fee of five dollars which will cover the cost of text-book and experimental material. Prerequisite: Psychology 150. 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.

310 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.
Courses of Instruction

SOCILOGY

150* Introduction to the Study of Sociology  Lind,........................................
   An orientation course. Physical conditions, population, human na­
   ture, social contacts and social processes, social evolution and social
   problems. Not open to freshmen. Repeated in the second semester.
   First semester, 3 credits.

151 Community Organization  Glick
   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, discussions and field study. Prerequisite:
   Sociology 150. Second semester, 3 credits. (Not offered 1929-1930.)

153 Urban Sociology  Glick
   A study of the processes of social interaction within the urban
   environment. The growth, local distribution, mobility and segrega­
   tion of population within the various areas of the city; the develop­
   ment of cultural differences and the resulting changes in institutions,
   e.g., the family, church, school, and in the general patterns of per­
   sonal 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.

260-261 Discussion as Social Process  Killam
   Principles and methods of discussion leadership in organized
   groups; readings, discussions, field work and reports. Admission only
   by the consent of the instructor. First and second semesters, 3 credits
   each.

262 Principles of Sociology  Adams
   Human nature. Society and the group. Social contacts and in­
   teraction. Social forces. Collective behavior. Prerequisites: Sociol­
   ogy 150 and 151 or their equivalent. First semester, 3 credits. (Not
   offered 1929-1930)

267 The Family  Adams
   Primitive types of family organization. Evolution of family sys­
   Family systems and personality traits. Prerequisite: Sociology 262.
   Second semester, 3 credits. (Not offered 1929-1930)

291* Cultural Contacts in Hawaii  Adams
   A study of social contacts among the various racial and cultural
   groups in Hawaii. Social inheritances. Conditions of contact. The
   persistence of old culture elements. The acquisition of American cul­
   ture. Interracial marriage and the amalgamation of the races. Factors
   affecting the rate and character of amalgamation. Recent trends.
294-295  A General View of Social Work  Bergen
The principles underlying social work as revealed by social work practice. Lectures. The analysis of reports of social agencies. Readings. Class discussions. Observation. Prerequisites: Sociology 150 and 151. These prerequisites may be waived in the case of students of sufficient maturity and experience. First and second semesters, 3 credits each.

350-351  Some Aspects of Race Contacts in Hawaii  Adams
A seminar course for students engaged in research. Lectures treating of concepts useful in research and presenting the results of research in Hawaii. Each member of the class presents a research project, secures the data relative to his problem, organizes such data and presents the results to the class for criticism and discussion. Admission to not more than eight seniors and graduates by special permission. Tuesday evening, 7:30-9:30. First and second semesters, 2 credits each. (Not offered 1929-1930)

360-361  Methods in Social Case Work  Bergen
The purpose of the course is to develop a technique in investigation, diagnosis and treatment of social work cases. Case studies will be made. Relevant laws will be examined. Readings. Open only to graduate students, to seniors who have had one year's work in sociology and who are doing work under the direction of some social agency, and to social workers. 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
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

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.

252* Modern Spanish Novel Pecker
Rapid reading course with advanced work in composition and conversation. Review of grammar. This course alternates with Spanish 250. Prerequisite: Two years of college Spanish. First semester, 2 credits. (Not offered 1929-1930)

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. (Not offered 1929-1930).

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 sugar-house 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. (Not offered 1929-1930.)

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. Prerequisites: S. T. 201 and 253. Three hours a week classroom. First semester, 3 credits.

253 Summer Practice

During the summer vacation between the Junior and Senior years, students in Sugar Technology will be required to spend at least 6 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

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 enrollment for at least one semester in the University of Hawaii is necessary.

257 Factory Practice

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 enrollment 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 Waikiki, 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

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

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

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. Two lectures and one laboratory period a week. Fee $2.00. First semester, 3 credits.

151 Comparative Anatomy of Vertebrates

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. 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** Radir

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** Radir

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." Prerequisites: Zoology 150 and 151. Fee $5.00. Second semester, 3 credits.

251 **Cellular Biology** Radir

A seminar course for the study of the cell and its inclusions as a protoplasmic unit. Special reference will be made to the development of the germ cell and the recent methods of experimentation. Prerequisites: Zoology 150 and 151. Open to Junior and Senior students. Hours to be arranged. Second semester, 1 credit.

270 **General Entomology**

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

271 **Economic Entomology**

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 270. One hour classroom and two periods laboratory. Fee $1.00. Second semester, 3 credits.

291 **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. First semester, 3 credits.

300 **Research** Edmondson and Radir

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, 1928

DOCTOR OF SCIENCE
(Honorary)
Frederick E. Muir

MASTER OF SCIENCE
In Zoology
Helene Tsuruyo Morita, B. S. University of Hawaii, 1924
Thesis:—The Effect on Heterodera radiciola of Sunlight, Heat and Drying.

MASTER OF ARTS
In Education
George Edward Axtelle, B.S. University of Washington, 1923
Thesis:—Some Problems of Mental Training and Moral Education
Eleanor Delina Breed, B. A. Pomona College, 1923
Mary Adeline Cutter, A. B. Stanford University, 1911
Thesis:—A Study of the Intelligence and the Educational Achievement of Two Hundred School Pupils

In History and Political Science
*Shunzo Sakamaki, B. A. University of Hawaii, 1927

BACHELOR OF SCIENCE
In Agriculture
Isamu Iwanaga
Kenichi Kawaguchi
Makoto Takahashi (Honors)

In Civil Engineering
Hung Wai Ching
Jorgen Peter Jensen
Kong Hui Lee
John Charles Myatt
Toshinaga Okamoto (Honors)

*Granted degree March, 1928
University of Hawaii

In General Science

Edward Tim Ching
Nathaniel Wah Chung
Tsutou Ebisu
Walter William Haalilio Holt
Iwao Itoh
Richard Hiyozo Kaneko
Clarence Sadao Koike
†Rebecca Lee
William Middleton Moragne
Michiru Nishimura
Albert Matak Lion Okumura
†Edward Toshikazu Shimokawa
Dorothy Claire Waters
Eva Young (Honors)
Quan Hong Yuen

In Home Economics

Sylvia Dean
Alice Ray Denison
Edith Herminie Greig
Charlotte Elizabeth Steere (Honors)

In Sugar Technology

Asao Doi
Richard Hans Rice

BACHELOR OF ARTS

Walter Peter Arioli
Imogene Mary Benton
Blanche Bogert
Nina Bowman
Koon Wai Ching
Quan Lun Ching
*Wai Sue Chun
Christine Lamb Doty
Lillian Kuuleialoha Fennell
Eve Opal Fleener (Honors)
Bertha Pauline Gleason
Fannie Flora Halpern
Hakumasa Hamamoto
Yutaka Hamamoto
Dagmar Camilla Hanson
Koichi Harada
*Akiyoshi Hayashida
Hisao Iwasaki
Dorothy Judd
Ruth Wui Tsin Kau
Kimiko Pearl Kawasaki

* Granted degree March, 1928
† Granted degree September, 1928
Degrees Conferred

Kathryn Margaret Kay
Mitsuyuki Kido (Honors)
Juanita Lemmon (Honors)
Ruth Seu Jin Liu
Marguerite Lehua Louis
Rose Sui Yui Louis (Honors)
Elwell Percy Lydgate
Violet Beatrice Lei MacKenzie
†Daikichi Matsuzawa (Honors)
Walter Yoshito Mihata
*Norikazu Muramaru
Takeo Nakamura
Alla Frances Neely
*Ruby Susan Nobriga
Nina Felicia O'Day
*Juliette Marcallino Oliveira
Gladys Aoe Sarah Pearce
Pyueng Son Pyuen
Noelani Consuela Schwallie
*Po Shih
Emma Shin
*Elsie Yuk See Ting
Leah Cooper Tucker (Honors)
*Violet Yook Ngan Ung
James Katsue Watanabe
Shichiro Watanabe
Jean Frances Widdifield
Grace Miu Ngan Wong
*Margaret Sin Moi Wong
Flora Eileen Woodhull
Arthur James Wriston
*Chitoshi Yanaga
David Tsun Wo Yap
Kazumi Yokoyama
Arthur Kee Yu Zane

* Granted degree, March, 1928
† Granted degree September, 1928
HOLDERS OF UNIVERSITY SCHOLARSHIPS
1928-1929

Prince Fushimi Fund Scholarships
HIDESHI IWAMOTO
THOMAS KURIHARA
JUNTO NAKAMURA
EARL K. NISHIMURA
SHIGERU SHIMOGAWA
TOMA TASAKI

Honolulu Chamber of Commerce Scholarships
SIMEON AKAKA
ORME CHEATHAM

Chinese Community Scholarships
HELEN CHUN
KAM TAI LEE

Daughters of American Revolution Scholarships
ADA FORBES
RUTH ROBBINS

Stephen Spaulding Scholarships
WILLIAM C. KEA
JACK K. WAKAYAMA

Ruth C. Scudder Memorial Scholarships
GERTRUDE SUMI KADOTA
TAMAYO NISHIMOTO
106
REGISTER OF STUDENTS
1928-1929

GRADUATE DIVISION

Abel, (Mrs.) Marjorie Greig, 2376 Oahu Ave., Honolulu
B. S., University of Hawaii, 1925
(Household Science and Education)

Bailey, (Mrs.), Sylvia Dean, 2002-F Hunnewell St., Honolulu
B. S., University of Hawaii, 1928
(Home Economics and Education)

Ballengee, Milton E., Kamehameha Schools, Honolulu
A. B., Colorado State Teachers College, 1927
(Education)

Barnhard, Emma C., Castle Hall, Punahou School, Honolulu
B. S., Columbia University, 1924
(Candidate, M. A. in Education and Psychology)

Behrns, Abbie C., Boise, Idaho; 1112 Kinau St., Honolulu
A. B., Southwest Texas Teachers College, 1922
(Education)

Caldwell, William B., Kamehameha Schools, Honolulu
B. S., Oregon State Agricultural College, 1924
(Education)

Cameron, Jamie L., 1527 Makiki St., Honolulu
B. S., Alaska Agricultural College and School of Mines, 1925
(Education)

Caro, Ida Josephine, 1214 So. Freya St., Spokane, Washington; Territorial Normal School, Honolulu
B. S., Teachers College, Columbia, 1927
(Candidate, M. A. in Education)

Cary, Miles Elwood, 2656 Hillside Ave., Honolulu
B. A., University of Washington, 1917
(Education)

Case, Cleo Anita, Wailuku, Maui; 2734 Haleleina St., Honolulu
B. A., Mills College, 1919
(Education)

Ching, Yan Chin, 838 No. King St., Honolulu
B. S., North Carolina State College, 1926
(Political Science)

Clune, (Mrs.) Eva Cartmill, 1500 Thurston Ave., Honolulu
B. A., University of Hawaii, 1923
(Education and Psychology)

Copp, Della Zoa, Brookland Hotel, Honolulu
A. B., University of Pittsburgh, 1920
(Education and Sociology)

Coxen, (Mrs.) Anna Vance, 2514 Oahu Ave., Honolulu
B. A., Butler College, 1905
(English and French)
Crawford, Clyde E., 919 12th Ave., Honolulu
B. Ed., University of California, Southern Branch, 1924
(Education)

Darrow, (Mrs.) Esther S., 2418 Kuhio Ave., Honolulu
B. A., University of Minnesota, 1918
(English)

Das, Upendra Kumar, Habiganj, Sylhet, India; 2136 Kamehameha Ave.,
Honolulu
B. S., University of Hawaii, 1927
(Sugar Technology)

Dewar, Margaret M., 2327 Liloa Rise, Honolulu
A. B., University of California, 1919
(Physics)

Dinsmore, Mary, 2447-A Parker St., Honolulu
B. L., Mills College, 1916
(Education and Economics)

Dunlap, (Mrs.) Hilda, 1640-C Liholiho St., Honolulu
B. S., Kansas State Agricultural College, 1927
(Education and History)

Faulkner, Robert M., Wailuku, Maui
B. A., University of Hawaii, 1924
(Candidate, M. A. in Education and Psychology)

Fennell, Lillian K., 2333 Liloa Rise, Honolulu
B. A., University of Hawaii, 1928
(Education)

Fockler, Edmund R., Laupahoehoe, Hawaii,
A. B., Juniata College, 1920
(Education and Psychology)

Forbes, Dyfrig McHattie, La Hacienda El Potrero, Vera Cruz, Mexico
B. S., University of Hawaii, 1925
(Candidate, M. S. in Sugar Technology, Agric.)

Geiser, (Mrs.) Cynthia B., 2418 Ferdinand Ave., Honolulu
A. B., Western State College of Colorado, 1926
(Candidate, M. A. in Education and Psychology)

Geiser, Ralph G., 2418 Ferdinand Ave., Honolulu
A. B., Western State College of Colorado, 1927
(Education)

Gill, Dorothy DuM., Kahuku, Oahu; The Granville, Apt. H., Honolulu
B. A., Oxford College, 1915
(Candidate, M. A. in Education and French)

Harris, (Mrs.) Mary R., 2460 Koa Ave., Honolulu
B. A., University of Oklahoma, 1913
(Candidate, M. A. in Education)

Hartman, William A., 2649 Kaapu Ave., Honolulu
B. S., University of Hawaii, 1926
(Civil Engineering—Hydrography)

Hendry, (Mrs.) Eva, 3015 Kalakaua Ave., Honolulu
B. A., University of Hawaii, 1927
(Candidate, M. A. in Education)
Hill, Jo Elizabeth, Wolfforth, Texas; Washington Jr. High School, Honolulu
  B. A., Abilene Christian College, 1921
  (English)

Hörmann, Bernhard L., 1036 Green St., Honolulu
  B. A., University of Hawaii, 1927
  (Sociology)

Hörmann, (Mrs.) Maria, 1036 Green St., Honolulu
  B. A., University of Hawaii, 1923
  (Languages)

Jarrett, Lorna H., 2356 Oahu Ave., Honolulu
  B. S., Teachers College, Columbia, 1927
  (Sociology and Geography)

Kerns, Kenneth R., Box 202, Waipahu, Oahu
  B. S., University of Hawaii, 1926
  (Plant Genetics)

Krauss, Beatrice H., 2447 Parker St., Honolulu
  B. S., University of Hawaii, 1926
  (Candidate, M. S. in Plant Physiology)

Landgraf, (Mrs.) Janet Ross, 1927 So. Beretania St., Honolulu
  B. A., University of Hawaii, 1925
  (Education)

Larrabee, Louise M., The Granville Hotel, Honolulu
  B. S., Penn State College, 1910
  (Candidate, M. A. in Education and Chemistry)

Larsgaard, Herman L., Minneapolis, Minn.; Central Y. M. C. A., Honolulu
  B. A., Luther College, 1925
  (Education)

Lawson, (Mrs.) Edna R, Territorial Normal School, Honolulu
  A. B., University of California, 1924
  (English)

  D. D. S., University of Michigan, 1912
  (Candidate, M. A. in Anthropology)

Lum, Richard K. Y., 503 Libby St., Honolulu
  B. S., University of Hawaii, 1924
  (Candidate, M. S. in Agriculture)

MacNeil, Helen Bosson, 2010 Hunnewell St., Honolulu
  B. A., Boston University, 1912
  (Education)

McKee, Ruth Eleanor, 2715 Koaniani Way, Honolulu
  B. A., University of California at Los Angeles, 1926
  (English)

Miyake, Iwao, Waimea, Kauai; Nuuanu Japanese Church, Honolulu
  B. S., University of Hawaii, 1926
  (Candidate, M. S. in Physics)

Moore, Golda P., Stapleton, Nebraska; 1243 Heulu St., Honolulu
  A. B., Park College, 1922
  (History and Education)
Morris, Mary Elizabeth, 821 Ocean View Drive, Honolulu
A. B., Cornell University, 1918
(Candidate, M. A. in Education and History)

Oda, Harold Y., 2027 Kealoha St., Honolulu
B. A., University of Hawaii, 1927
(Social Sciences)

Oliveira, Juliette M., 1541 Fort St., Honolulu
B. A., University of Hawaii, 1928
(Zoology and Botany)

Peet, (Mrs.) Jessie S., 903 11th Ave., Honolulu
B. A., University of Hawaii, 1927
(Candidate, M. A. in Political Science)

Pickering, (Mrs.) Opal R., Cottage F, Leilehua School, Schofield Barracks
B. A., University of Hawaii, 1927
(Education and Botany)

Rodenhurst, (Mrs.) Miriam Olsson, 3848-A Pahoa Ave., Honolulu
B. A., Pomona College, 1924
(Education and History)

Schleicher, Charles, Central Y. M. C. A., Honolulu
A. B., College of the Pacific, 1928
(History)

Shoshi, Shunichi, Okayama, Okayama Prefecture, Japan; c/o Y. Sasaki;
1316 Young St., Honolulu
Graduate of Tokyo Imperial University, 1928
(Sociology)

Smith, Alice Whitaker, 1660 Pensacola St., Honolulu
B. S., Teachers College, Columbia, 1916
(Education)

Stratford, Jane A., Hamakuapoko, Maui
B. S., University of Kansas, 1926
(Education)

Thomson, (Mrs.) Helen G., McKinley St., Honolulu
B. S., Occidental College, 1920
(Candidate, M. A. in Education)

Traut, Gladys M., 1120 So. King St., Honolulu
A. B., University of Michigan, 1927
(Candidate, M. A. in Education)

Tsuji, Keizo, 1921 Kalia Road, Honolulu
B. S., University of Hawaii, 1925
(Education)

Varney, Ada S., 1095 Spencer St., Honolulu
B. S., Columbia University, 1926
(History and Political Science)

Watanabe, Schichiro, 162 Paoakalani St., Honolulu
B. A., University of Hawaii, 1928
(Political Science and Sociology)

Wilson, Wilbur G., Box 84, Waimanalo, Oahu
B. S., Indiana State Normal School, 1924
(Candidate, M. A. in Education)
Woodhull, (Mrs.) Deborah N. C., 2112 Damon St., Honolulu
B. A., University of Hawaii, 1927
(Candidate, M. A. in Education)
Yanaga, Chitoshi, Kealakekua, Hawaii; 634 Coral St., Honolulu
B. A., University of Hawaii, 1928
(Education and Sociology)

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 Uni­
versity of Hawaii; figures in parentheses indicate advanced standing
credits allowed from other institutions. Roman numerals indicate class—
I Freshman, II Sophomore, etc.

Aizawa, Masao, 133, 98 (III General Science), Box 71, Wailuku, Maui;
Box 1384, Honolulu
Akaka, Simeon, 7, 16 (I Pre-Dental), 155 Paoakalani Rd.
Akinaka, Arthur Y., 196, 98 (III Civil Engineering), 1503 Houghtail­
ing St.
Aloiau, Kenneth W., 140, 128 (IV General Science), 2625 Puunui Ave.
Arita, Kiyo, 78, 53 (II Home Economics), 1133 Fort St.
Ashton, Courtland, 201, 130 (IV Sugar Tech., C1).em.), 1541 Makiki St.
Awaya, Kaichi, 106, 56 (II Civil Engineering), Box 59, Kohala, Hawaii;
c/o New Orleans Cafe, Alakea and Merchant Sts.
(Withdraw.)
Baptist, Paul, 59, 56 (II General Science), 14 Kuakini St. (Withdraw)
Bartels, Henry A., 193, 129 (IV Sugar Tech., Agric.), Haina, Hawaii;
Men's Dormitory
Bechert, Rodolph T. E., 19, 18 (I Civil Engineering), 2876 Park St.,
Nuuanu
Bicknell, Dorothy Lucille, 15, 15 (I General Science), 1727 Makiki St.
Black, Martin J., 157, 128 (IV Sugar Tech., Agric.), Kohala, Hawaii;
Men's Dormitory
Blake, Juliette, 97, 75 (III Voc. Educ., H. E.), Koloa, Kauai; 1533
Kapiolani St.
Browne, Frederick L., 56, 57 (II Civil Engineering), 1635 Clark St.
Burton, L. Selden, 24, 18 (I General Science), 1325 Center St.
Carlson, Sydney A., 80, 78 (III General Science), 192 W. Exchange St.,
Astoria, Oregon; 2020 Makiki St.
Chan, Violet Mebig, 49, 20 (I Pre-Medical), 178 So. School St.
Chang, Bing Tong, 100, 93 (III Civil Engineering), 1031 Nuuanu St.
Chang, Hon Gip, 56, 50 (II General Science), c/o Dr. S. Y. Chang,
Lihue, Kauai; Mid-Pacific Institute
Cheatham, Orme E., 219, 134 (IV Civil Engineering), Makaweli, Kauai;
Men's Dormitory
Ching, Ah Seong, 18, 12 (I Agriculture), 96 Puiwa Lane
Ching, Ah Yune, 118, 88 (III Sugar Tech., Agric.), Box 19, Ewa, Oahu;
1234 Mao Lane
University of Hawaii

Ching, George H. Y., 12, 12 (I Pre-Medical), 19 McGrew Lane
Ching, Quan Yuen, 22, 19 (I Civil Engineering), Box 893, Waipahu, Oahu; 527-A Kellett Lane
Chock, Wa Kan, 98, 56 (II Pre-Medical), Box 254, Hilo, Hawaii; 1485 Liliha St.
Chong, Andrew, 45, 18 (I Pre-Medical), 1460 So. King St.
Christophersen, Clarence D., 88, 65 (II Civil Engineering), Kahuku, Oahu; Men's Dormitory. (Withdrew)
Chuck, Philip, 16, 18 (I Pre-Medical), 928 Cedar St.
Chun, Cho Hen, 16, 19 (I Civil Engineering), 1149 Kamehameha Ave., Hilo, Hawaii; 1948 Dole St.
Chun, David Bung, 27, 16 (I Voc. Educ., Agric.), 60 No. School St.
Chunn, Livingston, 153, 94 (III Pre-Medical), 1346 Hall St.
Cooper, Elizabeth, 72, 57 (II General Science), 2316 Oahu Ave.
Coxhead, Victor C., 10, 13 (I Pre-Dental), 2258 Metcalf St.
Crawford, Harold R., 88, 88 (III Agriculture), Box 14, Waipahu, Oahu
Crosby, Leonard W., 27, 17 (I Civil Engineering), 3808 Paki Ave.
Cruz, Antonio I., 68, 88 (32) (IV Voc. Educ., Agric.), 1569 Sagunto St., Agana, Guam; U. S. Experiment Station
Darrow, Donald F., 43, 34 (II General Science), 2418 Kuhio Ave.
Day, (Mrs.) Gertrude B., 42, 18 (I Home Economics), 2019-C Hunnewell Place
Dean, Lyman A., 44, 48 (II General Science), 2225 Hyde St.
DeArmond, David A., 2, 5 (I Civil Engineering), Schofield Barracks; Men's Dormitory
Dease, Maitland, 155, 86 (III Civil Engineering), 1048 Koko Head Ave.
de Mello, Elliot, 0, 0 (I Sugar Tech., Chem.), 3462 Hardesty St.
Denison, Marion N., 35, 19 (I Voc. Educ., H. E.), 1840 Vancouver Highway
Donaghho, Mrs. Lila V., 289, 128 (IV Home Economics), 961 Alewa Drive
Duncan, Harry F., 3, 14 (I Sugar Tech., Agric.), Ewa, Oahu
Eguchi, George M., 209, 126 (IV Pre-Medical), 460 Kukahi St.
Feng, Wan Hsi, 91, 45 (80) (IV Pre-Medical), Kiuikiang, China; Ewa Plantation
Fiddes, Robert J., 162, 128 (IV Sugar Tech., Agric.), Ewa Plantation
Fong, Francis, 110, 94 (III Agriculture), 918 6th Ave.
Fujiyoshi, Harue, 66, 54 (II Home Economics), Puunene, Maui; Kawaiahao Bldg., Manoa
Fukuda, Isao, 39, 47 (II General Science), 808 Laniwai St.
Fukuda, Yoroku, 6, 13 (I Voc., Educ., Agric.), Box 55, Waialua, Oahu
Fullaway, Frank L., 12, 14 (I Civil Engineering), 2714 Manoa Rd.
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Glenn, Jana, 41, 17 (I Home Economics), 2323 J Street, Eureka, Calif.; 745 Wyllie St.
Glover, James W., 92, 48 (76%) (IV General Science), 602 Wyllie St.
Goo, George W. H., 186, 129 (IV Agriculture), 539 No. School St.
Goo, Tin Yau, 74, 93 (III Agriculture), 539 No. School St.
Good, Lawrence H., 7, 8 (I General Science), 2623 Kaapu Ave.
Greig, Robert G., 10, 14 (I General Science), 2376 Oahu Ave.
Register of Students

Hadama, Hisashi, 0, 15 (I Agriculture), Koloa, Kauai; 1710 Fort St.
Hafford, R. Bertram (I General Science), No. 8 Cottage Grove, King St. (Withdrew)
Hamada, Koichi, 134, 95 (III Civil Engineering), Puunene, Maui; 1429-A Lusitana St.
Hamamoto, Hatsuko, 48, 50 (II Home Economics), No. 2 Cunha Lane, No. 57
Hanaoka, Yoichi, 112, 59 (II Pre-Medical), 1030 Aala St.
Hansen, Alwyn G., 63, 54 (II General Science), 2312 Beckwith St.
Hara, Ernest H., 18, 17 (I General Science), 1326 Nuuanu St.
Hayeselden, James M., 3, 12 (I Civil Engineering), Waiohinu, Kaui, Hawaii; 3235 Lincoln Ave.
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Hiraoka, Kenichi, 0, 5 (I Pre-Medical), Kealakekua, Kona, Hawaii; 471 Cooke St.
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Ho, Tai Loy, 22, 14 (I Sugar Tech., Agric.), 737 Kawalaloa St.
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Hons, Ferdinand C., 3, 9 (I Sugar Tech., Agric.), 2279 Kamehameha Ave.
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* To receive degree upon satisfactory completion of first year at medical school.
University of Hawaii

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Kido, Hisao, 154, 121 (IV General Science), Olaa, Hawaii; 1687 Kamalulu St.

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Kubo, Bertram S., 35, 65 (III Pre-Medical), Box 283, Hilo, Hawaii; 1710 Fort St.

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Lau, Arthur (I General Science), 1272 Hall St. (Withdrew)

Lau, Clement, 13, 16 (I Sugar Technology), 118 Ohelo Lane

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Register of Students

Lee, Richard K. C., 79, 56 (II General Science), 1720 Young St.
Lee, Robert, 47, 19 (I Civil Engineering), 1723 Lanakila St.
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Lindsay, Walter R., 44, 57 (I Agriculture), Haiku, Maui; 1019 8th Ave.
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Louis, Lillian, 71, 52 (II General Science), 1060 Koko Head Ave.
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Low, Frank, 61, 63 (I Voc. Educ., Agric.), 2236 Young St.
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Lum, Ah Chew, 103, 129 (IV Civil Engineering), 1407 Nuuanu St.
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Maneki, Mitsugu, 288, 147 (IV Agriculture), Box 27, Kaumana, Hilo, Hawaii; Y. M. B. A., Fort Shafter; Quarters 13
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Mirikitani, Carl M., 38, 18 (I Pre-Medical), 1788 Ala Moana Road
Mirikitani, Clifford K., 40, 18 (I Pre-Medical), 1788 Ala Moana Road
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*Miyasaki, Selichi, 172, 106 (IV Pre-Medical), Waialua, Oahu; Univ. of No. Dakota Medical School

* To receive degree upon satisfactory completion of first year at medical school.
<table>
<thead>
<tr>
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<td>Mori, Shigeho</td>
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<td>Morris, Donald A. R.</td>
<td>168, 106</td>
<td>168</td>
<td>Pre-Medical</td>
<td>Jefferson Medical School, Phila.</td>
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<td>Mundy, Millard Clay</td>
<td>2133 McKinley St.</td>
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<td>Muroki, Kyosho</td>
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<td>Nagatai, Takashi</td>
<td>14, 38</td>
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<td>Nakagawa, Kinzo</td>
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<td>Nishimoto, Ikumaro</td>
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<td>Nishimura, Matsuhei</td>
<td>8, 15</td>
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<td>Nishimura, Tamotsu</td>
<td>138, 85</td>
<td>138</td>
<td>General Science</td>
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<tr>
<td>Nitta, Kazuto</td>
<td>164, 94</td>
<td>164</td>
<td>Voc. Educ., Agric.</td>
<td>1650 Olona Lane</td>
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<td>Nogawa, James</td>
<td>59, 50</td>
<td>59</td>
<td>Civil Engineering</td>
<td>1530-B Holt Lane</td>
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<td>Ohtani, Masato</td>
<td>73, 54</td>
<td>73</td>
<td>Pre-Medical</td>
<td>847 10th Ave.</td>
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<td>Ohtani, Ralph</td>
<td>26, 18</td>
<td>26</td>
<td>General Science</td>
<td>918 Thompson St.</td>
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<tr>
<td>Okada, Yoshio</td>
<td>123, 57</td>
<td>123</td>
<td>Civil Engineering</td>
<td>2247 Star Road</td>
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<tr>
<td>Okamura, Kikuye</td>
<td>1951 So. Beretania St.</td>
<td>1951</td>
<td>Pre-Medical</td>
<td>2140 Algaroba St.</td>
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<td>Omuro, Yoshio</td>
<td>44, 44</td>
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<td>Agriculture</td>
<td>Spreckelsville, Maui</td>
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<td>Obayashi, Evelyn Y.</td>
<td>22, 17</td>
<td>22</td>
<td>Home Economics</td>
<td>Naalehu, Kau, Hawaii</td>
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<td>Octavio, Arcenio M.</td>
<td>118, 91</td>
<td>118</td>
<td>Agriculture</td>
<td>Puunene, Maui</td>
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<tr>
<td>Ohtani, Masato</td>
<td>73, 54</td>
<td>73</td>
<td>Pre-Medical</td>
<td>847 10th Ave.</td>
</tr>
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<td>Okada, Yoshio</td>
<td>123, 57</td>
<td>123</td>
<td>Civil Engineering</td>
<td>2247 Star Road</td>
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<tr>
<td>Okamura, Kikuye</td>
<td>1951 So. Beretania St.</td>
<td>1951</td>
<td>Pre-Medical</td>
<td>2140 Algaroba St.</td>
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<td>Omuro, Yoshio</td>
<td>44, 44</td>
<td>44</td>
<td>Agriculture</td>
<td>Spreckelsville, Maui</td>
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<tr>
<td>Oto, Tadashi</td>
<td>127, 100</td>
<td>127</td>
<td>Pre-Medical</td>
<td>Olaa, Hawaii</td>
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<tr>
<td>Ouchi, Sugao</td>
<td>41, 18</td>
<td>41</td>
<td>Pre-Dental</td>
<td>St. Louis University</td>
</tr>
<tr>
<td>Ozaki, Paul M.</td>
<td>183, 133</td>
<td>183</td>
<td>Civil Engineering</td>
<td>Schofield Barracks</td>
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<tr>
<td>Pagula, Ramon</td>
<td>32, 19</td>
<td>32</td>
<td>Sugar Tech., Eng.</td>
<td>Schofield Barracks; Mission Lane</td>
</tr>
<tr>
<td>Pang, David Lee</td>
<td>11, 16</td>
<td>11</td>
<td>Pre-Medical</td>
<td>1749 Lewis Ave.</td>
</tr>
<tr>
<td>Pang, Lop Quon</td>
<td>79, 56</td>
<td>79</td>
<td>Pre-Medical</td>
<td>1409 Cunha Lane, No. 4</td>
</tr>
<tr>
<td>Paoa, Fred G. H.</td>
<td>116, 128</td>
<td>116</td>
<td>General Science</td>
<td>1917 Beach Road</td>
</tr>
<tr>
<td>Park, Jacob</td>
<td>40, 41</td>
<td>40</td>
<td>General Science</td>
<td>Box 172, Wahiawa, Oahu</td>
</tr>
<tr>
<td>Park, Mansur</td>
<td>48, 20</td>
<td>48</td>
<td>General Science</td>
<td>2636 Kamehameha IV Road</td>
</tr>
<tr>
<td>Paxton, Orsen E.</td>
<td>(I General Science)</td>
<td>(I General Science)</td>
<td>Schofield Barracks; Dormitory.</td>
<td>(Withdrawn)</td>
</tr>
</tbody>
</table>

*To receive degree upon satisfactory completion of first year at medical school.
Register of Students

Payne, Maurice W., 0, 0 (I Sugar Tech., Agric.), Honokaa, Hawaii; 1151 Davenport St.

Payne, Ronald, 13, 19 (I Civil Engineering), Honokaa, Hawaii; 1151 Davenport St.

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Rourke, Grace, 106, 48 (II Home Economics), 2801 Kahawai St.

Sadayasu, Chiyoko, 224, 133 (IV Home Economics), Oahu Country Club

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Saiki, Leihani, 31, 16 (I Home Economics), Hilo, Hawaii; 1319 Emma St.

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Sakamoto, Shuichi, 108, 57 (II Civil Engineering), Box 74, Holualoa, Kona, Hawaii; 1237 Hall St.

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Seki, Shinichi, 12, 19 (I Civil Engineering), Honokahau, Maui; 1710 Fort St.


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Tanaka, Yoshio, 94, 87 (III Pre-Medical), 1909 So. King St.
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Tonaki, Genbi, 10, 18 (I Agriculture), 1419 Ernest St.
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Tyau, Yuen Fong, 85, 51 (II Civil Engineering), 1772 Lusitana St.
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Uyeno, Raymond K., 57, 50 (II Pre-Medical), 1-A Hoea Lane
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Waddoups, Thomas M., 6, 15 (I Pre-Medical), 1124 Kalihi St.
Wakatake, Yorio, 116, 84 (III Pre-Medical), 1216 Young St.
Weber, Henry L., 161, 130 (IV Sugar Tech., Chem.), Mana, Kekaha,
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Westgate, Philip J., 215, 89 (III Agriculture), U. S. Experiment Station
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Whitman, William McK., 132, 55 (23 1/2) (II Sugar Tech., Agric.),
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Wightman, Vincent H., 45, 51 (II Sugar Tech., Agric.), Box 1034, Wai-
pahu, Oahu
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Wong, Esther L., 11, 7 (I Home Economics), Spreckelsville, Maui; 1536
Alewia Drive
Wong, Eva Y. G., 79, 55 (II Home Economics), Hilo, Hawaii; 1908
Coyne St.
Wong, James S. F., 199, 138 (IV General Science), Hawai, Hawaii; 1908
Coyne St.
Wong, Marjorie Y. L., 15, 17 (I Home Economics), 1457 Auld Lane
Wong, Robert, 23, 16 (I Pre-Medical), Olaa, Hawaii; 817 10th Ave.
Wong, William T. S., 109, 56 (II Voc. Educ., Agric.), 2039 Dole St.
Woo, Timothy L. T., 107, 60 (53 1/2) (IV Pre-Medical), 1041 Koko Head
Ave.
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*To receive degree upon satisfactory completion of first year at med-
ical school.
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*Yamauchi, Shoyei, 162, 108 (IV Pre-Medical), Pauwela, Maui; Univ. of Michigan Med. School, Ann Arbor, Mich.
Yang, Shew Hung, 134, 119 (IV General Science), 1516 Kewalo St.
Yap, Francis T. C., 39, 47 (II Agriculture), 3465 Waialae Ave.
Yap, Peter J., 20, 18 (I Pre-Medical), 1130 8th Ave.
Yasuda, Hiroshi, 102, 88 (III Pre-Medical), Box 320, Kealakekua, Hawaii; 610 So. King St.
Yates, Piliani G., 118, 93 (III Home Economics), Kealakekua, Hawaii; 1319 Emma St.
Yokoyama, Seichi M., 129, 123 (IV General Science), Lawai, Koloa, Kauai; 1239 So. King St.
Yoshinaga, Ernest, 139, 94 (III Voc. Educ., Agric.), Naalehu, Kauai, Hawaii; Imamura Home, Fort St.
Young, Ah Mun, 164, 66 (II Voc. Educ., Agric.), 1709 Kalani St.
Young, Hong Yip, 39, 19 (I General Science), 1333 Pensacola St.
Young, Wah Chock, 23, 17 (I General Science), 1551 Colburn St.
Young, Wai Yun, 185, 91 (III General Science), 1333 Pensacola St.

COLLEGE OF ARTS AND SCIENCES

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.

Abbey, Muriel V., 17, 16 (I Education), 3259 Lincoln Ave.
Abe, Lillian N., 141, 91 (III Education), 1148 Wilder Ave.
Adachi, Masayuki, 87, 84 (III Social Sciences), Makawao, Maui; Mid-Pacific Institute
Agena, Tsuruko, 56, 49 (II Education), 2513 Stream Drive
Aguilar, Earl J., 20, 17 (I Education), Kapaa, Kauai; 1609 So. King St.
Akahoshi, Fred, 9, 14 (I Commerce), 816 8th Ave.
Akaka, Annie K., 57, 50 (II Education), 2005-A Ladd Lane
Akana, Florence, 5, 4 (I Education), 1213 Elizabeth Ave.
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Hatch, Grenville, 114, 42 (79) (IV Education), 626 Prospect St.
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Parker, Alexander K., 115, 59 (II Education), 889 Kanoa St.
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St. Sure, George F., 16, 12 (I Education), Haiku, Maui; 329 Iolani Ave.
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Tanaka, Thomas N., 71, 78 (III Education), Kekaha, Kauai; Keau-
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Tanimoto, Thomas F., 171, 95 (III Education), 1039 Carlos Ave.
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Tasaki, Mitsue, 30, 17 (I Education), 1444 10th Ave.
Tasaki, Toma, 318, 141 (IV Education), 1444 10th Ave.
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Young, Kenneth E., 12, 14 (I Pre-Legal), 2020 Makiki St.
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Zane, Fook Kyau, 216, 115 (IV Education), 1537 Palolo Ave.
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Zen, Shay Y. H., 32, 16 (I Education), Cor. Pilikoi and King Sts.
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Bakken, Joseph L., B.A., Hamakuapoko, Maui
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Bonner, Chester C., 1520 Liholiho St.
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*These are for the most part mature people, many of them teachers in service, who, because of regular duties, are unable to carry a full-time program of University work, but who are continuing their studies along the lines of their interests.
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Clarke, Adna G., Jr., B. S., 2125 Armstrong St.
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Cooper, (Mrs.) Harry B., 2316 Oahu Ave.
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Cruz, Miguel M. De la, 1455 Ulu St.
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Jones, William P., 2812 Park St.
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Lam, Mary Y. W., 377 Pahala Lane
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Lee, Violet W., 1863-H Maka’o Lane
Leicht, Robert G., B. Sc., Winona, Minn.; Hilo, Hawaii
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Leube, Neley, 1504 Wilhelmina Rise
Levin, Samuel, Tripler General Hospital
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Livingston, (Mrs.) Anne R., 2129 Kamehameha Ave.
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Lohr, Zoe, Estelline, So. Dakota; 922 Lunalilo St.
Lowrie, Robert H., B. E., 2421 Kuhio Ave.
Luiz, John C., Kaneohe, Oahu
Lush, John, 219 Lewers Rd.
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Maneki, Tsumika, B. S., Hakalau, Hawaii
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McLane, Anna Kathrine, 2039 Nuuanu Ave.
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Moe, (Mrs.) Mable L., Kamehameha Schools
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Phellis, Marjorie A., Iolani School
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Plutti, Gertrude E., 1630 Clark St.
Powlison, Arthur K., 2324 Metcalf St.
Pratt, (Mrs.) Dora B., B. A., 2040 Nuuanu Ave.
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Reid, Alice C., 1148 9th Ave.
Reis, Palmyra, Spencer St.
Rhea, Theodore R., B. A., Littleton, Colo.; 1840 Anapuni St.
Richell, Edna, 2121 McKinley St.
Richmond, Ethal B., B. A., Hamakuapoko, Maui
Robbins, Bradford H., A. B., 2326 Metcalf St.
Robinson, Floy L., B. A., Box 51, Fresno, Calif.; Box 155, Kahului, Maui
Rockwell, Sevellon C., B. S., B. A., Hilo, Hawaii
Rosenfeld, Jeanette J., 242 So. New Hampshire, Los Angeles; Fernhurst, Honolulu
Ross, (Mrs.) Juanita M., Punahou School
Ross, (Mrs.) Ruth D., 2511 East Manoa Road
Roth, Maybelle, B. S., 2167 Kalakaua Ave.
Rpley, Rebecca W., B. S., No. 4 Dewey Court
Russell, Earle L., Kamehameha Schools
Russell, Josephine, Kamehameha Boys' School
Samson, Walter H., B. S., 600 Wyllie St.
Schausten, (Mrs.) Mildred T., Aiea, Oahu
Scholle, Hanna A., 1415 Kinau St.
Scott, Ethan A., 1204 Lunalilo St.
Scott, Evlyn G., B. S., Children’s Hospital
Seal, (Mrs.) Dorothy C., 1523 Pilikoi St.
Shaw, Ruth C., B. S., 1335 Highview Ave.
Shim, (Mrs.) Esther Fo, 1230 14th Ave.
Siebert, Henrietta, Box 272, Hamakuapoko, Maui
Sideris, (Mrs.) Julia, 2633 Pamao St.
Silva, (Mrs.) Evonn M., 1056 Alapai St.
Sing, Rebecca S., 831 10th Ave.
Sisson, (Mrs.) Maud C., Aiea, Oahu
Smith, Aleta V., B. A., 8 Kanoa St., Hilo, Hawaii
Smith, Clara E., 3753 Sierra Ave.
Smith, (Mrs.) Clara S., A. B., 1819 Makiki St.
Smith, John Clair, 2315 Maile Way
Smith, (Mrs.) Lillian L., 2315 Maile Way
Soares, Anna, 21 Lunaililo Court
Soon, Eva A., 1873 Puowaina Drive
Sorensen, Beatrice M., A. B., Loudor Hotel
Sousa, Esther F., 1377 Lusitana St.
Sperring, Winifred, A. B., Box 294, Schofield Bks.
Stepp, (Mrs.) Ida J., 2426-L Cleghorn Drive
Steeves, (Mrs.) Neata, B. A., 2103 Hunnewell St.
Stewart, Alice A., B. S., Hamakuapoko, Maui
Stroven, (Mrs.) Helen, 2011 Lanihuli Drive
Sutherland, Frank G., B. S., Puunene, Maui; 1090 Spencer St., Honolulu
Takafuji, Hatsuyo, 125 Prospect St.
Takahashi, Makoto, B. S., 1023 Desha Lane
Tavares, Anita G., 2305 Oahu Ave.
Thompson, Arnold L., 2452-A Kuhio Ave.
Thompson, Carrie A., 2133 McKinley St.
Thornton, Jane, B. A., Hamakuapoko, Maui
Tokimasa, Aiko, 1504 Kaumualii St.
Tom, Bernard, 1108 19th Ave.
Travis, Ruth H., 1402 Punahou St.
Turner, Jane, East Sound, Wash.; Punahou School
Van Keuren, Helen E., B. S., Baldwin, Kansas; Wailuku, Maui
Van Sooy, Neal, Nuuanu Y. M. C. A.
Vaughan, (Mrs.) Amy C., Ph. G., 2040 Lanihuli Drive
Vroom, Emma A., 2065 Lanihuli Drive
Wade, Herbert A., Halku, Maui
Wagoner, Eileen, A. B., Hamakuapoko, Maui
Walker, (Mrs.) Myrtle A, 1235 10th Ave.
Wallace, Keith, 3408 Hardey St.
Warriner, (Mrs.) Rose C., 815 So. Hotel St.
Webling, (Mrs.) Marie, 1932 Bingham St.
Weissberg, (Mrs.) Madeleine D., B. A., Dole Hall, Punahou School
Weissberg, Michael, Dole Hall, Punahou School
Welsh (Mrs.) Pearl H., 1611 Makiki St.
Westendorf, Eleanor, 25 Ocean View Court
Wittle, William, 1435 Fort St.
Wicke, (Mrs.) Thelma, 243-A Liliuokalani Ave.
Wilcox, Eleanor K., Box 2638
Williamson, Genevieve T., 3806 Kalihi-uka
Wilson, (Mrs.) Edna M., Waimanalo, Oahu
Wing, Winifred, Kamehameha Girls' School
Withington, Frederic B., A. B., Cottage "D," Kamehameha Schools
Wong, Ambrose M. C., 3033 Manoa Road
Wong, Gilbert L. H., Box 92, Wailuku, Maui; 374 N. Kukui St., Honolulu
Woo, Ethel, 1041 Koko Head Ave.
Woo, Victoria, 1041 Koko Head Ave.
Woods, Ida, 4006-W 22 Place, Los Angeles; 2323 Oahu Ave.
Wright, Allyn H., Marine Barracks, Pearl Harbor
Wylder, Erma G., Punahou School
Wylie, (Mrs.) Marie C., A. B., Donna Hotel
Yap, Eugene T. C., 3465 Waialae Ave.
Yap, Rachel L. K., 3465 Waialae Ave.
Yee, Arthur T., 1225 10th Ave.
Young, Amy L., 1645 Young St.
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Yuen, Constance, Waikiki Tavern
Zetterberg, Ebbe, Gray's Hotel
SUMMARY OF STUDENTS

Graduates ................................................. 64
College of Applied Science:
  Seniors ........................................ 47
  Juniors ........................................ 47
  Sophomores ....................................... 71
  Freshmen .......................................... 116
  ............................................... 281
College of Arts and Sciences:
  Seniors ........................................ 64
  Juniors .......................................... 88
  Sophomores ...................................... 129
  Freshmen ......................................... 176
  ..................................... 457
Total Degree Candidates. .................................. 802
Students Carrying Limited Program* .......................... 313
  Total ............................................... 1115
Extension Division Students .................................. 581
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Deduct, Counted Twice ...................................... 21
  ........................................ 1675
Grand Total ............................................... 1675
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UNIVERSITY PUBLICATIONS

HAWAII TEXTBOOK SERIES

The Story of Cane Sugar. 127 pp., 32 figures, diagrams and charts; October, 1928.

QUARTERLY BULLETIN

Vol. VIII, No. 2 (Supplement)—Summer Session Announcement 1929.

AGRICULTURAL STUDIES

No. 9—Free Range for Poultry, by Charles M. Bice; May, 1928.
No. 10—Baby Chick Disease Control, by Charles M. Bice; May 1928.
No. 11—Poultry Diseases in Hawaii, by Charles M. Bice; August, 1928.
No. 12—Poultry in Hawaii, by H. C. Wong; September, 1928.

MISCELLANEOUS

An analysis of Sugar, Cane Growing as Conducted on Sugar Plantations in Hawaii. A paper by K. L. Kum submitted as a thesis in partial fulfillment of the requirements for the degree of Bachelor of Science in Agriculture. Revised and edited by F. E. Armstrong. 19 pp., August, 1928.

OTHER PUBLICATIONS BY FACULTY MEMBERS

Bailey, Thomas A.—The March of the Mormon Battalion, with F. A. Golder and J. L. Smith, co-editors. (288 pp., 8 maps and illustrations. The Century Co.)


The Significance of Soil Analyses. (Proc. Pineapple Conference, pp. 84-89. Honolulu, 1928.)


Lloyd, W. A.—Development of County Agent Work in the Thirty-three Northern and Western States 1912-1929, with Special Reference to the Eleven Western States 1922-1929. (Paper read at the Silver Centennial of Extension Work at Houston, Texas, Feb., 1929.)

Luquiens, H. M.—Copper Plate Printing. (Honolulu-Academy of Arts Publication, No. 1. 31 pp., 13 illustrations. Honolulu, 1928.)


The Tasmanian Skull. (Journal of Anatomy. London, Jan., 1929.)

Some Landmarks in the Phylogeny of the Primates. (Human Biology. Jan., 1929.)

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Supplement to Catalogue and Announcement of Courses for 1929-1930.

UNIVERSITY FEES

Amending the Catalogue statement of university fees (p. 34-35), the following schedule is announced for the academic year 1929-30:

1. Registration fee of $10.00 per semester as announced in the Catalogue, page 34.

2. Tuition fee of $15.00 per semester, or $1.00 per semester hour for part-time students and auditors. Graduate students and Extension students do not pay this fee.

3. Non-residents of Hawaii continue to pay the tuition fee of $25.00 per semester or $2.00 per semester hour, in addition to the regular tuition fee, making a total tuition fee of $40.00 per semester ($3.00 per semester hour) payable by non-residents, as defined and with the exceptions noted in the Catalogue, page 34.

4. Incidental fee of $5.00 announced in the Catalogue is withdrawn.

5. Other fees are as announced in 1929-1930 Catalogue, pages 34-35.

CHANGES IN COURSES

Agriculture
150 Farm Practice—Professor O. W. Barrett is associated in conducting this course.
151 Animal Husbandry—To be conducted by Acting Professor Rupel.
160 Gardening Practice—A popular course in the science underlying the practices of fruit, vegetable and flower gardening. First semester, 1 credit. Professor Barrett.
250 Soils—This course is changed to 3 credits, and will be conducted this year by Professor Wadsworth.
251 Crops—This course is changed to 3 credits, and is to be conducted by Professor Barrett during the first semester.
252 Sugar Cane Production—To be conducted by members of the H. S. P. A. Experiment Station staff.
253 Dairying—To be conducted by Acting Professor Rupel.
254 Genetics—To be given in the second semester.
257 Feeds and Feeding—To be conducted by Acting Professor Rupel.
261 Horticulture—This course comprises four major divisions: Pomology, olericulture, floriculture, and landscape gardening; emphasis is placed on fruit and vegetable production in the Hawaiian Islands. The course will be conducted by Professor Barrett.
262 Applied Genetics and Breeding—Not given in 1929-1930.
264 Coffee Culture—A new course in the cultivation and production of coffee, with reference to Hawaiian conditions. First semester 3 credits. Professor Barrett.

265 Thesis—May be under the direction of Professor Barrett, Wadsworth, Rupel or Mr. Bice.

Art

154-155 Freehand Drawing—Conducted by Mr. Rempel.

170-171 Design—Conducted by Mr. Rempel.

252 History and Philosophy of Oriental Art—This course seeks to interpret the art of the Orient. The excellent collections at the Honolulu Academy of Art are available for illustration. First semester, 2 credits. Mrs. Cox.

272-273 Lettering, Poster and Illustration—Conducted by Mr. Rempel.

276-277 Costume Design—Conducted by Mr. Rempel.

Botany

101 General Botany—Conducted by Professor St. John, Asst. Professor Bean and Miss Priest.

102 Elementary Systematic Botany—Conducted by Professor St. John.

106 Plant Physiology—Conducted by Asst. Professor Bean.

107 Histological Technique—Not given in 1929-1930.

203 Plant Ecology—A study of plants in relation to their environment, including the climatic and geographic factors. Prerequisite: Botany 101. First semester, 3 credits. Professor St. John.

208 Advanced Plant Physiology—Conducted by Asst. Professor Bean.

209 Plant Anatomy—Not given 1929-1930.

Commerce

260 Business Law—Conducted by Judge Steadman.

264 Business Organization—Conducted by Professor Cameron.

Economics

270 Public Utilities—This course will be given in the second semester, not the first as announced.

281 Labor—Conducted by Mr. Bennett in the first semester, not the second as announced.

Education

272 Teaching Agricultural Related Subjects—Methods of correlating academic subjects of the junior high school and of the upper grades in grammar schools with vocational agriculture as taught in Hawaii. Special attention will be given to working out courses in English, arithmetic, geography, and other subjects. Three lecture-recitation periods per week. First semester, 3 credits. Professor Armstrong.

273 Visual Education—The use of visual aids in teaching. Practice in making charts and lantern slides and in mounting specimens. The use of charts, lantern slides, motion pictures and other visual aids in teaching. Study of stereopticons and motion picture projectors. Two lecture-recitation periods and one laboratory period per week. Second semester, 3 credits. Professor Armstrong.

274 Methods of Teaching Vocational Agriculture—Designed for those preparing to teach vocational agriculture in Hawaii. The course covers such topics as long time programs, annual plan of work, special methods of teaching vocational agriculture, agricultural projects, records, reports. Open only to seniors or graduate students. Three lecture-recitation periods per week. First semester, 3 credits. Professor Armstrong.
275 Practice in Teaching Vocational Agriculture—Practice teaching in a department of vocational agriculture. Designed for students who are fairly familiar with Hawaii's major crops. Second semester, 3 credits. Professor Armstrong.

220 Seminar in Research and Thesis Writing—This course is designed to assist graduate students in thesis preparation and will deal principally with research technique and thesis development. Registration only by permission of instructor. First semester, 2 credits. Professor Livesay.

Engineering

C. E. 284-285 Hydraulic Laboratory—A laboratory course in which emphasis is placed on the calibration of weirs and orifices. Various types of hydraulic tests, the calibration of nozzles, short tubes, and the study of loss of head in different kinds of pipes may be included. The type of testing varies and is governed by the opportunity afforded. Prerequisite or parallel: Hydraulics (C. E. 255). Elective for seniors in civil engineering. Either semester, credits to be arranged. Professor Keller.

Geography


151 Economic Geography—This course deals mainly with the distribution of the production of the more important raw materials of industry and the natural environment of the lands of their production. Prerequisite: Geography 150. Second semester, 3 credits. Dr. Coulter.


153 Geography of the Pacific Basin—This course is a survey of the major geographic regions of the Pacific Basin from the standpoint of the relationship between the principal economic activities and the natural environmental complex. Special attention is given to Japan and China. Prerequisite: Geography 151. Second semester, 3 credits. Dr. Coulter.

Geology

100 The World We Live In—This course is a general survey of the natural and physical sciences, and should not be considered a course in geology.

History

100 General European History—Conducted by Asst. Professor Chase.
110 English History—Conducted by Asst. Professor Chase.
241 Oriental Religions—To be given only in the second semester.
254 Ancient History—Not given 1929-1930.
258 Europe Since 1815—Conducted by Asst. Professor Chase.
265 British Constitutional History—Conducted by Asst. Professor Chase.

320 Seminar in European History—Conducted by Asst. Professor Chase.

Home Economics
H.E. 250 Household Management—Conducted by Miss Bazore.
H.E. 252 Child Development—Conducted by Miss Lawrence.
H.S. 102 Food Economics—Conducted by Asst. Professor Miller and Miss Bazore.
H.S. 150 Elementary Food Preparation—Conducted by Miss Bazore.
H.S. 151 Elementary Nutrition—Conducted by Miss Bazore.
H.S. 350-351 Seminar in Nutrition—The course includes a review of current literature of interest to students of nutrition. Part of the work of the course will include the preparation of reports, reviews of articles on assigned topics, and discussions. Prerequisite: Qualified preparation in nutrition and physiological chemistry. The permission of the instructor is required for admission to the course. First and second semesters, 1 credit each. Asst. Professor Miller.

International Relations
No courses under this heading will be offered in 1929-1930.

Japanese
100 First Year Japanese—Not given 1929-1930.
The courses in this department will be conducted by Mr. Kunitomo during the temporary absence of Professor Harada.

Physical Education
100 Freshman Course—Conducted by Professor Klum, Miss Gay, Mr. Searle, Mr. Robley, and Mr. Harris. Men taking this course may elect the activities in which they engage—football, basketball, running, swimming, tennis, gymnastics and others.

Physics
102 General Physics—Conducted by Mr. Ransom and Mr. Miyake.
200 Advanced Electricity—Conducted by Dr. Eller.
250 Electricity and Magnetism—Conducted by Mr. Ransom.
251 Light and Sound—Conducted by Mr. Ransom.

Psychology
150 General Psychology—Conducted by Dr. Louttit.

Sociology
350-351 Some Aspects of Race Contacts in Hawaii—To be given in 1929-1930.

Zoology
260 General Nematology—This course will deal with the structure and classification of the free living and plant parasitic nematodes and the special technique required for their study. Animal and human parasites will not be considered except in a general way. Registration only on consent of the instructor. Hours to be arranged. First semester, 2 credits. Dr. Godfrey.

261 Economic Nematology—Students will be guided in literature research on nematodes in relation to agriculture with special emphasis on relationship to environment and on control measures. Registration only on consent of the instructor. Hours to be arranged. Second semester, 2 credits. Dr. Godfrey.

270 General Entomology—Conducted by Mr. Riley.
271 Economic Entomology—Conducted by Mr. Riley.