UNIVERSITY OF HAWAII
QUARTERLY BULLETIN
VOLUME XIV APRIL—MAY—JUNE 1935 NUMBER 2

CATALOGUE
AND
ANNOUNCEMENT
OF COURSES
1935-1936

Published Quarterly by the UNIVERSITY OF HAWAII Honolulu

(Entered as second-class mail matter at the Post Office at Honolulu, T.H., Nov. 14, 1921, according to Act of Congress of Aug. 24, 1912.)
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## CALENDAR

1935-1936

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<td><strong>June 4</strong></td>
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<tr>
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<td>Christmas Recess begins.</td>
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<tr>
<td></td>
<td><strong>August 1</strong></td>
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<td>Last day for receiving applications for admission.</td>
</tr>
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<td>“Freshman Week.”</td>
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<td>Registration, Twenty-ninth Annual Session.</td>
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</table>
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 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 27 to February 15, the second semester from February 20 to June 20, and the 1935 summer session is from June 24 to August 2.

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 25-26. 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 receives an annual grant from the Federal government.

CHARTER.—The University of Hawaii was established by enactment of the Territorial Legislature. The charter and by-laws of the Board of Regents are published in a pamphlet available upon request.

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 34.
The Board of Regents

George II Brown (1925)*
Board of Agriculture and Forestry, Honolulu

David L. Crawford (1927)
University of Hawaii, Honolulu

Arthur Lyman Dean (1932)
Alexander & Baldwin, Ltd., Honolulu

Carl A. Farden (1933)
P.P.C.A. Experiment Station, Honolulu

Mary Dillingham Fcear (1920)
1434 Punahou Street, Honolulu

Charles R. Hemenway (1910)
Alexander & Baldwin, Ltd., Honolulu

Arthur G. Smith (1918)
Smith, Wild, Beebe, and Cades, Attorneys, Honolulu

Officers of the Board
Chairman: Charles R. Hemenway
Secretary: David L. Crawford

* The figure in parenthesis after the name indicates the year in which service began.
ADMINISTRATIVE OFFICERS

David L. Crawford, LL.D., President of the University
2355 Oahu Ave. Hawaii Hall 104

Arthur R. Keller, M.S., Vice-President
2456 Oahu Ave. Hawaii Hall 110

Gerald R. Kinnear, M.B.A., Treasurer
3041 Oahu Ave. Hawaii Hall 107

Thayne M. Livesay, Ph.D., Director of Admissions
2623 Haleleina St. Hawaii Hall 117

Helen B. MacNeil, M.A., Registrar
2010 Hunnewell St. Hawaii Hall 115

Mary P. Pringle, Librarian
1911 Keaumoku St. Library 3

Leonora Neuffer Bilger, Ph.D., Dean of Women
2328 Seaview Ave. Hawaii Hall 212

Arthur L. Andrews, Ph.D., Dean of the Faculties
2346 Liloa Rise Hawaii Hall 118

Wm. H. George, Ph.D., Dean of the College of Arts and Sciences
Moana Hotel Hawaii Hall 116

Arthur R. Keller, M.S., Dean of the College of Applied Science
2456 Oahu Ave. Hawaii Hall 110

Benjamin O. Wist, M.A., Dean of Teachers College
2128 Oahu Ave. T. C. 121

Thayne M. Livesay, Ph.D., Director of Summer Session
2623 Haleleina St. Hawaii Hall 117

Paul S. Bachman, Ph.D., Director of Graduate Division
2611 Terrace Dr. Library 8

Royal N. Chapman, Ph.D., Dean of the Graduate School of
Tropical Agriculture
2447 Parker Pl. P.P.C.A. Expt. Station

Frederick G. Krauss, D.Sc., Director of Agricultural Extension
Service
2557 Parker Pl. Hawaii Hall 106

J. M. Westgate, M.S., Director of Hawaii Agricultural
Experiment Station
Expt. Station Reservation, Tantalus Rd. Hawaii Hall 8
COMMITTEES OF THE FACULTY
(1934-1935)


Admissions: T. M. Livesay (Chairman), Deans Keller, George and Wist, H. B. MacNeil.


Convocations and Assemblies: N. B. Beck (Chairman), L. N. Bilger, A. G. Clarke, Curtis Heen, Georgina Cooper.
ANTHROPOLOGY:

†HARRY L. SHAPIRO, Ph.D., Research Professor of Physical Anthropology, (1930)*)

FELIX M. KEESING, D.Litt, Assistant Professor of Anthropology, (1934)
B.A., Univ. New Zealand, 1924; M.A., Univ. New Zealand, 1926; Yale Univ., 1928-29; Univ. Chicago, 1929-30; D.Litt., Univ. New Zealand, 1932; London School of Economics and Political Science, 1933-34. 1954 Vancouver Dr.

PETER H. BUCK, D.S.O., M.D., Lecturer in Anthropology and Ethnology.
M.B., Ch.B., Univ. New Zealand, 1904; M.D., University New Zealand, 1910; Fellow of New Zealand Institute; Ethnologist at Bishop Museum.

STELLA M. JONES, A.M., Research Assistant in Anthropology, (1934)
A.M., Univ. Chicago, 1934.

ART:

HUC-MAZELET LUQUIENS, B.F.A., Assistant Professor of Art, (1924)
B.A., Yale Univ., 1902; B.F.A., Yale Univ., 1908. 1646 Bingham St.

HENRY H. REMPEL, B.Ed., Instructor in Art, (1929)
B.Ed., Univ. California at Los Angeles, 1928; Graduate Study, Munich, 1931; Vienna, 1932. 2143 Mohala Way

†EDGAR CRAIG SCHENCK, M.F.A., Instructor in Art, (1934)

BOTANY:

HAROLD ST. JOHN, Ph.D., Professor of Botany, (1929)
2365 Oahu Ave.

* Indicates year of appointment on the University Faculty.
† On a part time basis.
OSCAR NELSON ALLEN, Ph.D., Assistant Professor of Plant Pathology and Bacteriology, (1930)
B.A., Univ. Texas, 1927; M.A., Univ. Texas, 1927; Ph.D., Univ. Wisconsin, 1930.
2211 Mohala Way
Dean Hall 203

ROSS S. BEAN, B.S., Assistant Professor of Botany, (1927)
B.S., Brigham Young Univ., 1921; Graduate Study, Univ. California, 1925-1927, 1933-34.
1716 Hunnewell St.
Dean Hall 207

†DANIEL M. WELLER, Instructor in Botany, (1934)
2630 Doris Pl.
Dean Hall 202

F. RAYMOND FOSBERG, B.A., Assistant in Botany, (1932)
B.A., Pomona College, 1930.
2365 Oahu Ave.
Dean Hall 200 A

ECONOMICS AND BUSINESS:
MERTON K. CAMERON, Ph.D., Professor of Economics, (1928)
A.B., Princeton, 1908; M.A., Harvard Univ., 1914; Ph.D., Harvard Univ., 1921.
1524 Halekula Way
Hawaii Hall 206 B

†MATTHEW M. GRAHAM, C.P.A., Professor of Accounting, (1927)
2646 Oahu Ave.
Hawaii Hall 206 A

HARLEY L. LUTZ, Ph.D., Guest Lecturer in Economics
B.A., Oberlin, 1907; M.A., Harvard, 1908; Ph.D., Harvard, 1914; LL.D., Oberlin, 1932; Professor of Public Finance, Princeton Univ.
2532 Malama Way
Dean Hall 0

†HAROLD T. KAY, LL.B., Lecturer in Business Law
Mamalahoe Rd.

HAROLD J. HOFLICH, Ph.D., Instructor in Economics and Business, (1934)
B.A., Univ. Oregon, 1925; Ph.D., Univ. California, 1933.
2184 Helumoa Rd.
Hawaii Hall 206 B

†J. J. DELPECH, C.P.A., Lecturer in Accounting
2726 Laniloa Rd.

ENGLISH:
ARTHUR L. ANDREWS, Ph.D., Professor of English, (1910)
B.L., Cornell Univ., 1893; M.L., Cornell Univ., 1896; Ph.D., Cornell Univ., 1902; L.H.D., (Honorary), Tufts, 1926.
2346 Liloa Rise
Hawaii Hall 118

CHARLES H. NEIL, M.A., Associate Professor of English, (1921)
B.A., Univ. South Carolina, 1903; M.A., Yale Univ., 1908.
1525 B Wilder Ave.
Hawaii Annex 16 B

GREGG M. SINCLAIR, M.A., Associate Professor of English, (1928)
2979 Kalakaua Ave.
Hawaii Annex 16 A

† On a part time basis.
LAURA V. SCHWARTZ, Ph.D., Assistant Professor of English, (1924)
Courtland Hotel Hawaii Annex 15

ARTHUR E. WYMAN, B.S., Assistant Professor of Dramatic Art, (1930)
B.S., Dartmouth, 1911.
Pacific Club Farrington Hall

N. B. BECK, M.A., Assistant Professor of English, (1928)
17 Dewey Court Hawaii Hall 101

CARL G. STROVEN, M.A., Instructor in English, (1927)
2711 Koaniani Way Hawaii Annex 13

THOMAS BLAKE CLARK, M.A., Instructor in English, (1930)
A.B., Vanderbilt Univ., 1929; M.A., Vanderbilt Univ., 1930; Graduate Study, Univ. London, King's College, 1933-34.
1434 Punahou St. Hawaii Annex 11

WILLARD WILSON, M.A., Instructor in English, (1930)
Absent on leave 1934-35.

GEORGE J. PEAVEY, M.A., Instructor in English, (1930)
A.B., Univ. Denver, 1924; M.A., Univ. Hawaii, 1931.
301-A Saratoga Rd. Hawaii Annex 12

MURIEL J. BERGSTROM, M.A., Instructor in English, (1931)
Moana-Seaside Hotel Hawaii Annex 14

†VIOLET L. CHESTER, M.A., Instructor in English, (1932)
Fort Shafter

‡ELIZABETH M. SHEPHERD, B.A., Assistant in English
B.A., Mills College, 1933.
1808 Punahou St.

GEOGRAPHY:
JOHN WESLEY COULTER, Ph.D., Assistant Professor of Geography, (1928)
B.A., Univ. California, 1919; M.A., Univ. of California, 1921; Ph.D., Univ. Chicago, 1926.
Atherton House Dean Hall 8

GERMAN:
MARIA HöRMANN, B.A., Instructor in German Language, (1927)
1036 Green St. Hawaii Hall 210

LEILANI ROHRIG BROWN, B.A., Instructor in German Language, (1934)
B.A., Vassar, 1930.
2138 Kamehameha Ave. Hawaii Hall 202

† On a part time basis.
HAWAIIAN:
HENRY P. JUDD, B.A., Professor of Hawaiian Language, (1934)
B.A., Yale Univ., 1901; Graduate Study, Auburn Seminary, 1903-1906.
2011 Kakela Dr. Hawaii Hall 206 A

HISTORY AND POLITICAL SCIENCE:
WILLIAM H. GEORGE, Ph.D., Professor of History and Political Science, (1930)
A.B., Harvard Univ., 1902; M.A., Princeton, 1906; Ph.D., Harvard Univ., 1921; Graduate Study under Dr. Duguit, Univ. Bordeaux.
Moana Hotel

PAUL S. BACHMAN, Ph.D., Associate Professor of Political Science, (1927)
2111 Terrace Dr.

RALPH S. KUYKENDALL, M.A., Assistant Professor of History, (1923)
A.B., College of Pacific, 1910; M.A., Univ. California, 1918.
2108 Atherton Rd.

DONALD WINSLOW ROWLAND, Ph.D., Assistant Professor of History, (1930)
A.B., Univ. California, 1925; M.A., Univ. California, 1926; Ph.D., Univ. California, 1930.
2514 Alaula Way

*MASAMICHI ROYAMA, M.L., Lecturer in Japanese History
M.L., Imperial Univ. of Tokyo; Professor of Public Administration, Imperial Univ. of Tokyo.

HOWARD KOHR, B.A., Teaching Fellow in Political Science and History, (1934)
2544 E. Manoa Rd. Hawaii Annex 8

ORIENTAL STUDIES:
TASUKU HARADA, DD, LL.D., Emeritus Professor of Japanese History and Institutions, (1920)
B.D., Yale Univ., 1891; D.D., Amherst, 1910; LL.D., Edinburgh, Scotland, 1910; President Doshisha Univ., Kyoto, Japan, 1907-1919; LL.D., Univ. Hawaii, 1932.
816 Tenth Ave.

SHAO CHANG LEE, M.A., Professor of Chinese Language and History, (1922)
Graduate Canton Christian College, China, 1911; Graduate Taung Hua College, Peiping, China, 1913; A.B., Yale Univ., 1917; M.A., Columbia Univ., 1918.

TADAO KUNITOMO, M.A., Instructor in Japanese Language, (1929)
Graduate Aoyama Gakuin College, Japan, 1918; M.A., Oberlin, 1923. Absent on leave 1934-35.

T. Y. CHAR, M.A., Instructor in Chinese Language, (1930)

YUKUO UYEHARA, B.A., Instructor in Japanese Language, (1933)
B.A., Univ. Hawaii, 1931; Graduate Study, Univ. Hawaii, 1932; Waseda Univ., Tokyo, Japan, 1933. 1822 Nuuanu Avenue

* First Semester.
TSAO HSI CHEN, B.A., Instructor in Chinese Language, (1934)
B.A., Yenching Univ., Peiping, China, 1933.
1050 Beretania St.

†CHAI HSIANG LI, B.A., Assistant in Chinese Language
B.A., Chinese Government Examination, 1895.
1634 Makiki St.

POLICE ADMINISTRATION:
ADNA G. CLARKE, LL.B., Colonel, U.S.A., (Retired), Professor of Police Administration, (1921)
LL.B., Kansas Univ., 1897; B.A., Kansas Univ., 1900; Graduate Artillery School, 1906; Distinguished Graduate, School of the Line, 1913; Graduate Army Staff College, 1914.
2151 Mohala Way, Hawaii Hall 203

†WILLIAM A. GABRIELSON, Lecturer in Police Administration, (1933)
Makiki Hotel

POLITICAL SCIENCE (See History):

PSYCHOLOGY:
THAYNE M. LIVESAY, Ph.D., Professor of Education and Psychology, (1924)
2623 Haleiena St.

MADORAH E. SMITH, Ph.D., Assistant Professor of Education and Psychology, (1931)
A.B., Fargo College, 1907; Lenox College; Univ. Washington; A.M., State Univ. Iowa, 1918; Ph.D., State Univ. Iowa, 1925.
Donna Hotel

ROMANCE LANGUAGES (French, Spanish)
IRVING O. PECKER, A.B., Professor of Romance Languages, (1919)
A.B., Boston Univ., 1912; Alliance Francaise, Sorbonne, Paris; French Consul and Spanish Vice-Consul to the Hawaiian Islands; Officier de l'Instruction Publique; White Cross Spanish Order of Naval Merit; Chevalier de la Legion d'Honneur.
Pacific Club

DENZEL CARR, Ph.M., Instructor in Romance Languages, (1933)
Univ. Oklahoma; Kosciusko Scholar, 1929-1932; Ph.M., Univ. Cracow, 1932; American Council of Learned Societies' Research Fellow, Sinologisch Institut, Univ. Leiden, Holland, 1933-1933; Member of Polish Academy of Sciences, Polish Oriental Society, Romanization Committee of the International Institute of Intellectual Cooperation (League of Nations), Paris.
1527 Makiki St.

†EVA LE CLAIR, B.A., Instructor in Romance Languages, (1934)
B.A., Univ. Hawaii, 1932; Diploma, Sorbonne, 1933.
4615 Kahala Ave.

SOCIOLOGY:
ROMANZO ADAMS, Ph.D., Professor of Sociology, (1920)
A.B., Univ. Michigan, 1897; M.A., Univ. Michigan, 1898; Ph.D., Univ. Chicago, 1904.
2315 Liloa Rise

ANDREW W. LIND, Ph.D., Associate Professor of Sociology, (1927)
2979 Kalakaua Ave.

† On a part time basis.
EVERETT V. STONEQUIST, Ph.D., Lecturer in Sociology, (1934)
A.B., Clark Univ., 1922; Graduate Study, Cornell Univ., 1922-24;
European Travelling Scholarship, Columbia Univ., Summer 1923;
Graduate Study, Univ. Paris, 1924-26; Ph.D., Univ. Chicago, 1930.
1819 Makiki St.

†NELL FINDLEY, M.A., Lecturer in Sociology, (1933)
Graduate San Francisco State Teachers College, 1907; New York
School of Social Work, 1921-22; M.A., Univ. Hawaii, 1933; Executive
Secretary, Social Service Bureau, Honolulu.
1134 Miller St.

†EDITH B. ORROCK, B.A., Lecturer in Sociology
B.A., Western Reserve Univ., 1922.
1134 Miller St.

MARGARET M. LAM, M.A., Assistant in Sociology, (1930)
1439 Keeauumoku St.

ZOOLOGY:
CHARLES H. EDMONDSON, Ph.D., Professor of Zoology, (1920)
Ph.B., Univ. Iowa, 1903; M.S., Univ. Iowa, 1904; Ph.D., Univ. Iowa,
1906.
2019 Vancouver Highway

CHRISTOPHER J. HAMRE, Ph.D., Assistant Professor of Zoology,
(1930)
A.B., St. Olaf College, 1923; M.S., Univ. Wisconsin, 1927; Ph.D., Univ.
Wisconsin, 1930.
2268 Nuuanu Ave.

JENS M. OSTERGAARD, Instructor in Zoology, (1920)
914 Sixteenth Ave.

CARL T. SCHMIDT, Ph.D., Instructor in Zoology, (1934)
B.A., Univ. Minnesota, 1929; Ph.D., Univ. Hawaii, 1934.
P. O. Box 3166

SPENCER TINKER, M.S., Instructor in Zoology, (1932)
Pleasanton Hotel

COLLEGE OF APPLIED SCIENCE
Dean: Arthur R. Keller, M.S.

AGRICULTURE:
LOUIS A. HENKE, M.S., Professor of Agriculture, (1916)
B.S., Univ. Wisconsin, 1912; M.S., Univ. Wisconsin, 1923; Graduate
Study, Univ. Wisconsin, 1928-1929.
2657 Terrace Dr.

HAROLD A. WADSWORTH, B.S., Associate Professor of Agriculture,
(1928)
B.S., Univ. California, 1916; Graduate Study, Stanford Univ., 1927-
1928.
2236 Hyde St.

JULIUS L. COLLINS, Ph.D., Associate Professor of Genetics, (1930)
B.S., Univ. California, 1918; Ph.D., Univ. California, 1923; Geneticist,
P.P.C.A. Experiment Station.
1920 Hunnewell St.

† On a part time basis.
J. M. WESTGATE, M.S., Lecturer in Agronomy and Tropical Agriculture, (1929)
B.S., Univ. California, 1918; Ph.D., Univ. California, 1923; Geneticist, B.S., Kansas Agric. College, 1897; M.S., Kansas Agric. College, 1898; Graduate Study, Univ. Chicago, 1901-1903; Director of Hawaii Agricultural Experiment Station.
Experiment Station Reservation
Tantalus Road
Hawaii Hall 8

CARROLL P. WILSIE, Ph.D., Assistant Professor of Agronomy and Genetics, (1931)
B.S., Univ. Wisconsin, 1926; Graduate Study, Univ. Illinois, 1926-1927; Ph.D., Michigan State College, 1931; Hawaii Expt. Station Agronomist.
2142 Lanihuli Dr.
Hawaii Hall 8

CHARLES M. BICE, B.S., Assistant Professor of Poultry Husbandry, (1927)
B.S., Univ. Wisconsin, 1927.
1616 Kewalo St.
Poultry Farm

GEORGE W. H. GOO, B.S., Assistant in Animal Husbandry, (1931)
B.S., Univ. Hawaii, 1929.
1310 Matlock Ave.
Hawaii Hall 8

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 Univ., 1916; Fellow in Plant Nutrition, Univ. California, 1922-1923.
2512 E. Manoa Rd.
Gartley Hall 214

EARL M. BILGER, Ph.D., Associate Professor of Chemistry, (1925)
B.S., Wesleyan Univ., 1920; M.A., Wesleyan Univ., 1921; Ph.D., Yale Univ., 1925; Graduate Study, Univ. Cincinnati, 1928-1929.
2328 Seaview Ave.
Gartley Hall 201

†W. R. McALLEP, Lecturer in Sugar Technology, (1919)
Sugar Technologist, H.S.P.A. Experiment Station, Honolulu.
2031 Vancouver Dr.

†GEORGE H. BARNHART, M.S., Lecturer in Sugar Technology, (1931)
B.S., Univ. Hawaii, 1914; M.S., Univ. Hawaii, 1923; Sugar Technologist for American Factors, Limited.
2629 Doris Pl.

GIICHI FUJIMOTO, M.S., Instructor in Chemistry, (1921)
B.S., Univ. Hawaii, 1921; M.S., Univ. Hawaii, 1923.
1524 Farrington St.
Gartley Hall 208

JOHN H. PAYNE, Ph.D., Instructor in Chemistry, (1932)
B.S., Butler Univ., 1927; M.A., Univ. Cincinnati, 1928; Ph.D., Univ. Cincinnati, 1930; Research Fellow Univ. Munich, 1930-1931.
2407 Sonoma Dr.
Gartley Hall 209

ENGINEERING:
ARTHUR R. KELLER, M.S., Professor of Engineering, (1909)
C.E., Cornell Univ., 1903; LL.B., National Univ., 1908; S.M.C.E., Harvard Univ., 1916; M.S., Massachusetts Institute of Technology, 1916.
2456 Oahu Ave.
Hawaii Hall 110
Engin. 21

† On a part time basis.
CARL H. ANDREWS, M.S., Professor of Engineering, (1920)
B.S., Rose Polytechnic Institute, 1908; M.S., Rose Polytechnic Institute, 1909; C.E., Rose Polytechnic Institute, 1917; M.S., Massachusetts Institute of Technology, 1928.
2356 Waolani St.

JOHN MASON YOUNG, M.M.E., Professor of Engineering, (1908)
B.S., Univ. Florida, 1898; M.E., Cornell Univ., 1902; M.M.E., Cornell Univ., 1904; President, Pacific Engineering Company, Honolulu.
945 Alewa Dr.

GEORGE PRESTON FRAZER, B.S., Assistant in Engineering, (1934)
2625 Ferdinand Ave.

GEOLOGY:
HAROLD S. PALMER, Ph.D., Professor of Geology, (1920)
B.A., Yale Univ., 1912; Ph.D., Yale Univ., 1923; Graduate Study, Univ. Vienna, 1926-1927.
1450 Kewalo St.

HOME ECONOMICS:
CAREY D. MILLER, M.S., Associate Professor of Foods and Nutrition, (1922)
A.B., Univ. California, 1917; M.S., Columbia Univ., 1922; Graduate Study, Yale Univ., 1928-1929.
2627 Kaaipu St.

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; Vienna School of Design, Paris, France, 1925.
2289 Kamehameha Ave.

KATHERINE BAZORE, M.A., Assistant Professor of Home Economics, (1929)
B.S., Ohio State Univ., 1917; M.A., Teachers College, Columbia Univ., 1926.
Niumalu Hotel

JANA GLENN, B.S., Instructor in Home Economics, (1932)
B.S., Univ. Hawaii, 1932.
2379 Liloa Rise

NORA K. H. WONG, B.S., Assistant in Home Economics, (1934)
B.S., Univ. Hawaii, 1934.
1908 Coyne St.

ELIZABETH COOPER, M.A., Assistant in Home Economics, (1934)
268 Beach Walk

†ADA BEATRICE ERWIN, B.S., Lecturer in Home Economics
2627 Kaaipu St.

†ANY MacOWAN, M.A., R.N., Lecturer in Child Hygiene
A.B., Beloit College; 1914; Diploma, Presbyterian Hospital School for Nurses, Chicago; 1922; M.A., Teachers College, Columbia Univ., 1926; Director, Nursing Department, Palama Settlement, 1933.
2908 Pacific Heights Rd.

† On a part time basis.
Faculty

†FRANK H. GAUDIN, M.D., Lecturer in Child Hygiene
M.D., Univ. Toronto, 1927; Hospital for Sick Children, Toronto, 1928-1930.
2521 Manoa Rd.

MATHEMATICS:

JOHN S. DONAGHHO, M.A., Emeritus Professor of Mathematics and Astronomy, (1908)
B.A., Marietta College, 1889; M.A., Marietta College, 1897.
961 Alewa Dr. Hawaii Annex 6

ERNEST C. WEBSTER, C.E., Professor of Mathematics and Engineering, (1925)
Ph.B., Yale Univ., 1904; C.E., Yale Univ., 1906.
1836 Punahou St. Engin. 15

ELVIN A. HOY, B.S., Assistant Professor of Mathematics and Engineering, (1920)
B.S., Oregon State College, 1925; Graduate Study, Stanford Univ.; Oregon State College, 1925; Univ. California, 1925; Univ. Munich, Germany, 1923-34.
3359 Kilauea St. Engr. 21

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3465 Waialae Ave. Hawaii Annex 6

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B.S., Univ. California, 1914; M.S., Univ. Washington, 1916; Ph.D., Univ. California, 1926.
3169 Oahu Ave. Gartley Hall 102

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B.S., Occidental College, 1914; Ph.D., California Institute of Technology, 1931.
2181 Kalua Rd. Gartley Hall 102

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†AMY MacOWAN, M.A., R.N., Public Health Nursing
A.B., Beloit College, 1914; Diploma, Presbyterian Hospital School for Nurses, Chicago, 1922; M.A., Teachers College, Columbia Univ., 1926; Director, Nursing Department, Palama Settlement, 1933.
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†FRANK H. GAUDIN, M.D., Child Hygiene
M.D., Univ. Toronto, 1927; Hospital for Sick Children, Toronto, 1928-1930.
2521 Manoa Rd.

†MARY WILLIAMS, B.S., R.N., Child Hygiene
Diploma, Massachusetts General Hospital, 1917; Certificate, Public Health Nursing, Simmons College, 1920; B.S., Teachers College, Columbia Univ., 1922; Supervisor and Assistant Director, Bureau of Public Health Nursing, Territorial Board of Health, 1933.
2143 Mohala Way

SUGAR TECHNOLOGY: (See Chemistry)

† On a part time basis.
* Several doctors and nurses are engaged to conduct portions of the lecture courses in this department.
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TEACHERS COLLEGE

Dean: Benjamin O. Wist, M.A.

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2128 Oahu Ave. T. C. 121

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2623 Haleleia St. T. C. 119 A

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2211 Mohala Way T. C. 119 B

LEE EMERSON BASSETT, A.B., Visiting Professor of English, (1934)
Graduate, Cumnock School of Oratory, Los Angeles, 1898; A.B., Stanford Univ., 1901; School of Expression, Boston, 1901; Graduate Study, Oxford Univ., England, 1907-08; Professor of Public Speaking, Stanford Univ.
2229 Kaila Rd. T. C. 102

FRED E. ARMSTRONG, M.S., Associate Professor of Agricultural Education, (1926)
B.S., Clemson College, 1916; M.S., Univ. Minnesota, 1921; Graduate Study, Univ. Minnesota, 1932-1933.
2013 Lanihuli Dr. T. C. 213½

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Diploma, Goderich Model School, 1889; Diploma, Supervision of Instruction, Teachers College, Columbia Univ., 1912.
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Certificate, Lewiston State Normal School; Diploma, San Jose State Teachers College, 1913; Univ. California; Univ. Chicago; B.S., Diploma Supervisor in Normal Schools, Teachers College, Columbia Univ., 1927; M.A., Univ. Hawaii, 1929.
2337 Liloa Rise T. C. Elem. Sch. 204

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1329 Highview Pl. T. C. 114

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A.B., Fargo College, 1907; Lenox College; Univ. Washington; M.A., State Univ. Iowa, 1918; Ph.D., State Univ. Iowa, 1925.
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1939 Ahuula St. Pract. Arts 105

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California School of Fine Arts, 1926; Rudolf Schaefer School of Design, 1928.
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B.S., California, 1918; Ph.D., California, 1923; Asst. Prof. Genetics, California, 1924-1930; Geneticist, Experiment Station, P.P.C.A.
1920 Hunnewell St. P.P.C.A. Sta.
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A.B., William Jewell College, 1908; M.A., Brown, 1911; Graduate Study University of Missouri, 1911-12; Union Theological Seminary, 1926; M.A., Columbia, 1927.
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2357 University Ave.

PATRICK LOGAN, B.D., Professor of Philosophy of Religion
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Heeia, Oahu

J. LESLIE DUNSTAN, Ph.D., Lecturer in Psychology of Religion
B.S., Colby College, 1923; Ph.D., Teachers College, Columbia University, 1933.
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Lenore T. Hoffman, Secretary to the President
2979 Kalakaua Ave.
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1914 University Ave.

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* The financial support of this school is independent of the University.
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OFFICE OF THE DEAN OF WOMEN: Hawaii Hall 212
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REGISTRAR'S OFFICE: Hawaii Hall 113
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CATHERINE DELAMERE, M.A., Head Cataloguer B.A., Univ. California, 1915; M.A., Univ. California, 1920; School of Librarianship, Univ. California, 1928. 2143 Mohala Way
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ALICE K. ALEXANDER, A.B., Head of Circulation Department
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EUPHIE G. M. SHIELDS, B.S., Assistant Cataloguer
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1729 Keeaumoku St.

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846 S. Beretania St.
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NUTRITION INVESTIGATIONS:
*CAREY D. MILLER, M.S., Specialist in Food and Nutrition Investigations
A.B., Univ. California, 1917; M.S., Columbia, 1922; Graduate Study, Yale, 1928-1929.
2627 Kapiolani St. Nutrition Lab.

RUTH C. ROBBINS, M.S., Assistant, Nutrition Investigations
B.S., Univ. Hawaii, 1931; M.S., Univ. Hawaii, 1934.
2326 Metcalf St.

KISAKO HAIDA, Laboratory Assistant
1314 Fifteenth Ave.

POULTRY HUSBANDRY:
**CHARLES M. BICE, B.S., Poultry Husbandman
B.S., Univ. Wisconsin, 1927.
1616 Kewalo St. Poultry Farm

FRANK BOTELHO, Foreman, Poultry Farm
University Farm

**MERRILL K. RILEY, M.S., Collaborator in Animal Parasitology
B.S., Colorado State College, 1927; M.S., South Dakota State College, 1929; Graduate Study, Iowa State College, 1931-1932.
2456 Oahu Ave.

SOIL PHYSICS:
*HAROLD A. WADSWORTH, B.S., Soil Physicist
B.S., Univ. California, 1918; Graduate Study, Stanford, 1927-1928.
2236 Hyde St. Hawaii Hall 2 A

HISTOLOGY:
*CHRISTOPHER J. HAMRE, Ph.D., Collaborator in Histology
A.B., St. Olaf College, 1923; M.S., Univ. Wisconsin, 1927; Ph.D., Univ. Wisconsin, 1930.
2288 Nuuanu Ave.

EXPERIMENT STATION
Pineapple Producers Cooperative Association†

ADMINISTRATION:
ROYAL N. CHAPMAN, Ph. D., Director
2447 Parker Pl. Adm. Bldg.

HARRY L. DENISON, B.S., Business Manager

OLIVE S. CUNNINGHAM, Secretary to the Director
Villa Hotel Adm. Bldg.

CLAIRe B. REICHEL, Secretary to the Business Manager

* Also a member of the instructional staff.
** Also with Agricultural Extension Service.
† The financial support of this station is independent of the University.
EMMA WILSON, Librarian
3807 Maunaloa Ave.

BEATRICE M. HOUGHTAILING, Stenographer
117 Ulunui Ave.

ROBERTA IRVING, B.A., Stenographer
2003 Metcalf St.

HERBERT MARCEL Clerk
2202 Wilder Ave.

AGRICULTURE:
WILL NORMAN KING, B.S., Agriculturist
B.S., Univ. Hawaii, 1921.
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., Univ. Hawaii, 1926.
Wahiawa, Oahu

CHEMISTRY:
OSCAR C. MAGISTAD, Ph.D., Chemist
B.S., Univ. Wisconsin, 1922; M.S., Univ. Wisconsin, 1923; Ph.D., Univ. Wisconsin, 1924.
1809 Keeaumoku St.

FRANCIS A. E. ABEL, M.S., Assistant Chemist
B.S., Univ. Hawaii, 1921; M.S., Univ. Hawaii, 1924.
Lanikai

CARL A. FARDEN, B.S., Assistant Chemist
B.S., Univ. Hawaii, 1925.
2306 Marques St.

LILLIAN S. K. LOUIS, B.S., Analyst
B.S., Univ. Hawaii, 1931.
1060 Koko Head Ave.

RICHARD K. TAM, M.S., Scientific Aide
1037 Seventh Ave.

ANNI HAENISCH, Stenographer
2401 Kalakaua Ave.

ENTOMOLOGY:
WALTER CARTER, Ph.D., Entomologist
B.S., Univ. Montana, 1923; M.S., Univ. Minnesota, 1924; Ph.D., Univ. Minnesota, 1928.
3234 Woodlawn Dr.

KIYOSHI ITO, B.S., Assistant Entomologist
B.S., Univ. Hawaii, 1929.
3320 Kaimuki Ave.

KAY SAKIMURA, Assistant Entomologist
Yamaguchi School, Japan.
Experiment Station
University of Hawaii

AUDREY HOOPER, Stenographer
2121 Atherton Rd.

GENETICS:
JULIUS L. COLLINS, Ph.D., Geneticist
B.S., Univ. California, 1918; Ph.D., Univ. California, 1923.
1920 Hunnewell St.

KENNETH KERNS, M.S., Assistant Geneticist
B.S., Univ. Hawaii, 1926; M.S., Univ. Hawaii, 1931; Graduate Study,
Univ. Berlin, 1931-32.

PATHOLOGY:
MAURICE B. LINFORD, Ph.D., Pathologist
B.S., Utah Agricultural College, 1922; M.A., Utah Agricultural Col­
lege, 1924; Ph.D., Univ. Wisconsin, 1927.
2324 Kaala Ave.

FERDINAND P. MEHLRICHT, Ph.D., Associate Pathologist
A.B., Butler Univ., 1927; Ph.D., Univ. Wisconsin, 1930.
2226 Hyde St.

CARL H. SPIEGELBERG, M.S., Assistant Pathologist
B.S., Washington State College, 1924; M.S., Washington State Col­
lege, 1925; Graduate Study, Univ. Maryland, 1926-1927.
4042 Black Point Rd.

JULIETTE OLIVEIRA, M.S., Assistant Nematologist

MARION C. OKIMOTO, B.S., Scientific Aide
B.S., Univ. Hawaii, 1934.
3480 Waialae Ave.

FRANCIS T. C. YAP, B.S., Scientific Aide
B.S., Univ. Hawaii, 1931.

WARREN CHOW, Stenographer
610' Kunawai Lane

PHYSIOLOGY:
CHRISTOS PLUTARCH SIDERIS, Ph.D., Physiologist
B.C., Samos Lyceum, Greece, 1909; B.S., Univ. California, 1921;
Ph.D., Univ. California, 1924.
2633 Pamoa Rd.

BEATRICE H. KRAUSS, M.S., Assistant Physiologist
B.S., Univ. Hawaii, 1926; M.S., Univ. Hawaii, 1930.
2457 Parker Pl.

HONG YIP YOUNG, M.S., Scientific Aide
B.S., Univ. Hawaii, 1932; M.S., Univ. Hawaii, 1933.
1333 Pensacola St.
THE UNIVERSITY OF HAWAII

The University of Hawaii was established by act of the Territorial Legislature in 1907. It is a land-grant university, and bears the same relation to the Territory that the several state universities bear to their respective states. It draws about one-half of its financial support from Territorial appropriations. Although the University has 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 benefits by the Second Morrill Act of 1890. It is open to all who are qualified, regardless of sex, color, or nationality.

The University of Hawaii is fully accredited by the Association of American Universities. Students may transfer to other American and European universities on the same basis as may students of the foremost American universities. Students may also transfer to the leading Oriental universities.

HISTORY

Since the University began to function as the College of Hawaii in 1908, its growth has been constant in number of students, in the scope of its non-academic service, and in the public esteem. Instruction began with two instructors and five students in a temporary location on the grounds of the present Lincoln School.

After a few years the institution was moved to its present site in Manoa Valley. With the addition of a College of Arts and Sciences in 1920, the name of the institution was changed to the University of Hawaii. In 1931 the Graduate School of Tropical Agriculture was organized, and during the same year the Teachers College was added as a result of the consolidation of the Territorial Normal School with the University School of Education.

The Territorial Normal and Training School was founded in 1896. During the major part of its existence, it was located at the intersection of Emerson, Lunalilo and Quarry streets. In 1930 the school was moved to two new buildings adjoining the campus of the University. The property of the Territorial Normal and Training School was placed under the control of the Board of Regents of the University when the two institutions were affiliated in 1931.

ORGANIZATION

The University comprises a College of Applied Science, a College of Arts and Sciences, a Teachers College, a graduate division which includes the Graduate School of Tropical Agriculture and several non-academic units. The University Extension Division conducts courses carrying University credit in towns of the Territory other than Honolulu and a few non-credit courses on the University campus. The academic year is divided into two semesters of eighteen weeks each, with a Summer Session of six weeks.

RELATED SERVICE

In addition to its instructional program, the University is engaged in several other forms of public service:

The Psychological and Psychopathic Clinic is a territorial institution under the management of the University. It makes examinations of persons at the request of the courts, industrial schools, the Board of Health,
the Department of Public Instruction and other public institutions and organizations, and, under proper regulation, at the request of private institutions and organizations, parents or guardians. In addition the clinic is conducting investigations in the field of psychology.

The Cooperative Extension Service in Agriculture and Home Economics is conducted jointly by the University and the U. S. Department of Agriculture, receiving federal aid on the same basis as the extension services of the several states. It is devoted to the advancement of agriculture in Hawaii and the improvement of rural home life.

The Hawaii Agricultural Experiment Station is the product of the amalgamation of the former Federal Experiment Station with the University station, and is conducted jointly by the University and the U. S. Department of Agriculture. This station coordinates its program of research with that of the Hawaiian Sugar Planters' Association and the Pineapple Producers Cooperative Association.

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

The Pineapple Producers Cooperative Association 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 adjoining the University campus in buildings erected by the Association.

Seismological Observatory. The U. S. Coast and Geodetic Survey is operating the seismological observatory in Garthley Hall under a special agreement with the University whereby the results and observations are made of service to this Territory.

COOPERATING INSTITUTIONS

To add to the research facilities which it offers students and to expand its services to the Territory, the University has made cooperative agreements 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 of Pacific Relations, which affords excellent facilities for the study of international affairs, occupies a portion of the University library.

Honolulu Academy of Arts. This institution, built and endowed by Mrs. C. M. Cooke, has made its fine collections of art objects available to the students and instructors of the University for their educational advancement.
Cooperating Institutions

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 part of their program of study. Several members of the station staff take part in the instructional work of the University.

Rockefeller Foundation. A grant is made each year 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 campus, which occupies an area of almost 300 acres, is located in beautiful Manoa Valley, about three miles from the business center of Honolulu. The principal buildings on the campus are Hawaii Hall, Gartley Hall, Dean Hall, the Library, the Teachers College, Farrington Hall, the Engineering Quadrangle, the Gymnasium, and the Agricultural Building. All except the last four are three-story structures and all except the Gymnasium are built of reinforced concrete.

Hawaii Hall is the administration building. The biological science departments are housed in Dean Hall and the chemistry and physics departments are located in Gartley Hall. Farrington Hall is used as an auditorium and is well equipped for dramatic work. The engineering laboratories and classrooms are located in the five one-story concrete buildings which compose the Engineering Quadrangle.

The Library, which contains approximately 350,000 titles, is a depository for government publications. Extensive collections of Chinese and Japanese works, catalogued in English, and a growing collection of valuable books and periodicals about Hawaii are among its features. Its collections of local and mainland newspapers, and literary, technical, and scientific periodicals are available throughout the day and evening. All persons complying with the library regulations may draw books.

Residence accommodations on or near the campus include the Charles H. Atherton House for men, a dormitory for women students, and a section of the Mid-Pacific Institute dormitories. Meals are served at Atherton House and the University cafeteria.

A swimming tank, tennis courts, locker buildings, and a cinder track are grouped near Cooke Field, which is used for football, track and baseball practice and military drill. The Associated Students of the University own an interest in the Honolulu Stadium, situated one mile from the campus. A baseball diamond, drill field, and a large amphitheater were recently completed.

Other buildings connected with the University include the R. O. T. C. Building, Hawaii Hall Annex, which houses the Psychological Clinic and the offices of the English department, the Nutrition Laboratory, the Entomology Building, the Student Union Building, the Marine Biological Laboratory at famous Waikiki Beach, and the astronomical observatory in Kaimuki. A part of the campus is occupied by an experimental farm, which is devoted to solving many of the problems of Hawaii's dairymen, poultrymen and live stock raisers, and which provides excellent instructional facilities for students of agriculture.

The herbarium of the University, which is in the custody of the Bishop Museum, contains the most nearly complete collection of Hawaiian plants in existence, including many specimens of species now extinct. The por...
tion of the types and cotypes of plants described by Dr. W. Hillebrand, together with the types of new species, form the most valuable part of the herbarium.

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 in part by the scholastic record made in the school or college last attended, partly by a college aptitude examination, and partly by ratings of personality traits, ability, and fitness for university work.

The University admits four distinct types of students who are classified as follows: (1) Regular Students, (2) Unclassified Students, (3) Special Students, and (4) Auditors. All candidates for admission to either of the first three classifications must file an application form with the Director of Admissions. Applications should be filed at least two months before the opening of the semester in which the applicant wishes to enroll and the University does not oblige itself to consider applications filed less than 30 days before the proposed date of registration. Requests for application forms and all questions concerning admission should be addressed to the Director of Admissions.

ADMISSION TO FRESHMAN STANDING.

Every applicant for admission to the University as a freshman must take the college aptitude examination and must submit evidence of proper preparatory training by offering in one of the ways mentioned below, or by 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 three-year senior high school), this work to be selected as described below. These subjects must include 3 units of English and 1 unit of algebra. (This latter requirement may be satisfied by the 9th grade General Mathematics of the Intermediate Schools.) Every applicant must, in addition, satisfy all entrance requirements of the college in which he expects to take his work. (Pages 46, 51, 59)

1. An applicant may present a record from an approved secondary school showing 15 (or 12) units in approved subjects. Applicants whose high school averages are "B" or better are usually admitted unless they fail seriously in the college aptitude examination, in which case they may not be admitted. Applicants whose high school averages are "C" but who make scores above average in the college aptitude examination may be admitted. Special consideration is given to the quality of work in the junior and senior years of preparatory school.

2. An applicant who is above average ability may take entrance examinations offered by the University and thus satisfy all or part of the 15 (or 12) unit requirement.

3. An 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.

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.
Admission

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 science.

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 1½ 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 algebra through quadratics and plane geometry; those desiring to enter the course in Engineering must offer trigonometry in addition to the above, in order to complete the course in four years. Solid geometry is strongly recommended but not required.

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. Candidates transferring with advanced standing are required to do a minimum of one year's work at the University of Hawaii (30 semester hours) in order to receive the Bachelor's degree.

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 SPECIAL STUDENTS

Qualified persons who are unable or who do not care to meet the regular university entrance requirements may be admitted to certain courses as Special Students. Special Students attend classes and take part in the courses for which they are registered but they do not receive university credit for the work done.

* Credit in entrance for languages will not be granted unless at least 2 units in some one language are offered.*
ADMISSION OF AUDITORS

Auditors are persons who are permitted to attend certain courses as listeners, not partaking in the class work and receiving no credit. Persons desiring the privilege of attending classes as Auditors make application to the Registrar at the time of registration. If the application is granted, the Auditor will pay the regular course fee and be issued an Auditor's card.

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 pages 39-42, 63.

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 4 grade points are granted when the grade is A; 3 grade points when the grade is B; 2 grade points when the grade is C; and 1 grade point when the grade is D.

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.

To remain in the University it is necessary (1) to earn in any semester grade points at least equal in number to registered credits; (2) to have earned after two semesters' attendance 1.5 times as many grade points as total registered credits; (3) to have earned after four semesters' attendance 1.8 times as many grade points as total registered credits.

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 will be 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 264 grade points. To receive the degree after failure to graduate because of lack of grade points, a minimum of 30 grade points must be earned in some one semester. Minimum credit requirements vary in the 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, and in the Teachers College 130 credits are required.

INDEPENDENT STUDY AND SPECIAL HONORS

Students who have completed two years of university work and have shown exceptional ability in certain fields of study may be permitted to carry on independent study in such fields, if they secure the approval of the heads of the departments concerned and the Committee on Honors Courses. Students who fulfill these requirements may be excused from the usual attendance requirements in all courses given by the departments with
which they are carrying on such independent work. Students successfully completing independent study programs may expect to receive at graduation the recognition of Special Honors. Before making application for permission to do independent study, students should consult Dean A. L. Andrews, the chairman of the committee.

**MILITARY TRAINING**

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 Freshman and Sophomore years of all physically fit male students who are citizens of the United States, but is optional in the Junior and Senior 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 10 or more credits are required to take physical education.

A medical and physical examination must be taken by all men students upon entrance. This examination is made by an authorized physician under the direction of the Health Department of the University.

**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 degree of Bachelor of Education (Ed. B.) is granted upon the satisfactory completion of the regular course in the Teachers College, with an additional five-year diploma awarded for the completion of the five-year program.

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.

The Bachelor's degree will be granted only to those who have earned a minimum of 30 semester hours in residence, and in addition have either (a) been in full attendance at the University during the year just preceding the granting of the degree (full attendance being understood as a minimum of 14 semester hours per semester) or (b) earned a minimum total of 24 residence credits during any four of five consecutive summer sessions just preceding the granting of the degree, or (c) earned a minimum total of 24 residence credits by carrying not less than 2 semester hours per semester and 6 semester hours per summer session in any three of four consecutive years just preceding the granting of the degree.

Completion of all graduation requirements must be within ten years of the beginning of work in the University of Hawaii, except that students registered in the University prior to 1932 or previously registered in the Territorial Normal School may have the following privilege:

(a) Any such student who by June, 1932, had completed three full years (96 credits) or more, will be allowed five years from September, 1932.

(b) All others will be allowed ten years from the same date.

Not more than 25 per cent of the total credits to be earned at the University of Hawaii for the degree may be Extension Course credits and
University of Hawaii

if the residence requirement and the Extension allowance are in conflict the residence requirement takes precedence.

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 three must be in English, two in some one foreign language, two in mathematics (including algebra through quadratics), and one 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 EQUIVALENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry</td>
<td>Chem. 101 or 102, 150, 151, 152, 153.</td>
</tr>
<tr>
<td>Physics</td>
<td>Physics 102.</td>
</tr>
<tr>
<td>Biology</td>
<td>Botany 101, Zool. 150 and 151.</td>
</tr>
<tr>
<td>English Composition</td>
<td>English 100, or 102.</td>
</tr>
<tr>
<td>Other Non-Science subjects:</td>
<td></td>
</tr>
<tr>
<td>History, Language, Economics</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SUBJECTS STRONGLY URGED</th>
<th>SEMESTER HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>A modern foreign language</td>
<td>6 to 12</td>
</tr>
<tr>
<td>Advanced botany or advanced zoology</td>
<td>3 to 6</td>
</tr>
<tr>
<td>Psychology</td>
<td>3 to 6</td>
</tr>
<tr>
<td>Advanced mathematics, including trigonometry</td>
<td>3 to 6</td>
</tr>
</tbody>
</table>

OTHER SUGGESTIVE 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.

SUMMER SESSION

The Summer Session of the University is attracting widespread interest and increasing numbers of students. Designed primarily for the benefit of local teachers and others who cannot attend the University during the Winter and Spring semesters, it has attracted large numbers of students from outside the Territory because of its unique features and the unusual distinction of its faculty, which is drawn from the leading universities on both sides of the Pacific Ocean.

The School of Pacific and Oriental Affairs is a special feature of the Summer Session and provides opportunities for graduate and undergraduate instruction and research in the economic, political, cultural and social
Degrees 39

relations of the various nations bordering the Pacific, as well as in the history, geography, anthropology, racial psychology, and religions of that region.

The Volcano School, conducted in Hawaii National Park near the world famous Kilauea crater, as a branch of the regular Summer Session, offers several courses for teachers in addition to courses in volcanology, geology, and natural history.

Summer Session students, both graduate and undergraduate, pay a fee of $5.00 per credit hour.

The schedule of classes permits the average student in the summer session to gain 6 credits, taking three 2-credit courses. The instructional work is kept on a par with that of the longer sessions and credits given in 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 that 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 1935 Summer Session, June 24 to August 2, will be sent upon request. The Volcano School will be in session from June 17 to July 26, 1935.

THE UNIVERSITY EXTENSION DIVISION

The University Extension Division offers a varied program of service whereby its educational facilities are available beyond the confines of the campus. These may be classified as follows: (1) special courses of instruction, both credit and non-credit, offered at such times and places as may be most convenient for the people thus served; (2) lecture service; (3) educational film service; (4) play loan service; (5) miscellaneous public service.

Extension courses are offered, both on Oahu and on the other islands, for the benefit of those adult persons who cannot attend the regular courses.

Admission to extension courses giving credits is governed by the same rules as admission to regular courses. Extension courses which give no credit 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, and such credits are not counted as fulfilling the residence requirement.

Special announcements of extension courses and other forms of service are issued from time to time and not included in this catalogue, but may be obtained from the University Extension Division.

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, education and psychology, 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 related institutions.

Graduate study in all fields is conducted in one informally organized functional division of the University, under the direction of a faculty committee, the chairman of which functions as director. Included in this
general division, but administratively distinct, is the Graduate School of Tropical Agriculture, in which several research institutions have joined cooperatively with the University: namely, the experiment stations of the Hawaiian Sugar Planters' Association and the Pineapple Producers Cooperative Association, the Hawaii Experiment Station, and the Bishop Museum. This School, under the direction of a dean and a committee representative of the cooperating institutions, maintains its own faculty and sets its own standards, all in conformity with basic standards of the University as determined by the faculty committee on graduate study.

**ADVANCED DEGREES**

Graduates from accredited institutions may engage in graduate study in certain fields looking toward the degree of Master of Arts, of Master of Science, or of Master of Education, provided the undergraduate work done is essentially the equivalent of that required for the corresponding baccalaureate degree. Admission to graduate study does not imply admission to candidacy for an advanced degree.

The Doctor of Philosophy degree is given in the Graduate School of Tropical Agriculture, a detailed statement of which occurs on page 63. The requirements for this and for the Master's degrees are standard.

The minimum requirement for the Master's degree is one year of advanced work in residence, or its equivalent, which is usually computed as 30 semester hours. 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.

Applications for admission to graduate study must be made in writing to the Chairman of the Committee on Graduate Work not later than October 1 for the first semester, or February 24 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 undergraduate work is deemed insufficient, the applicant, if accepted, may be required to take additional undergraduate courses.

Candidates for an advanced degree must register at the beginning of each semester in which work is done.

The advanced work may be restricted to one field or subject, or to a major and 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. A reading knowledge of a foreign language may be required of a candidate for a Master's degree at the discretion of the Committee in charge of his work.

The graduate student is at first under the direction of an adviser and is later supervised by a special committee appointed by the Director of Graduate Studies. The student who desires to earn a Master's degree will
Degrees

be registered simply as a graduate student until the head of the department in which he desires to take the major portion of his work has an opportunity to determine whether the student's undergraduate preparation is satisfactory and a probable ability to successfully pursue graduate work indicated. The question of admission to candidacy is determined as soon after the first registration of the graduate student as is practicable. Failure to attend the qualifying conference or take a qualifying examination if required by the department head will prevent further registration.

The title of the thesis, together with the written approval of the chair 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 8 1/2 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 candidates must apply in writing to the Chairman of the Committee on Graduate Work not later than April 15, or January 1, for an examination. The request must bear the approval of the chairman of the committee in charge of his candidacy, and must also be accompanied by a short summary (one or two pages) of his thesis. Announcement of the time and place of examination will be made not later than May 1 for the second semester, or January 15 for the first semester.

Suitable forms for the reporting of the thesis title and for requesting the final examination may be had of the Chairman of the Committee on Graduate Work.

CIVIL ENGINEER DEGREE

The degree of Civil Engineer (C.E.) will be granted to Bachelors of Science in Civil Engineering from this institution, who, after graduation, 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, registrations, dates for filing notices, etc., are concerned.

SUGAR TECHNOLOGIST DEGREE

The degree of Sugar Technologist (S.T.) may be granted to Bachelors of Science in Sugar Technology from this institution and to other Bachelors of Science, whose undergraduate work has included the proper basic studies. To become a candidate for this degree, two years of practical experience after graduation are required and the candidate must successfully pass a qualifying examination based on assigned reading in the general field of sugar technology. Later a thesis, or final report, covering some topic of distinct value closely allied to the practical work of the candidate, must be presented and accepted by the candidate's committee. Regulations gov-
erning this degree are essentially those governing candidates for Master's degrees, so far as fees and registration are concerned. The date for the qualifying examination will be arranged on consultation with the chairman of the candidate's committee and the Chairman of the Committee on Graduate Work.

**TUITION AND FEES**

All regular students, both undergraduate and graduate, pay a tuition fee of $100.00 an academic year, or $50.00 a semester. Part-time students, including specials, auditors, Summer session, and extension students, taking a program of less than 10 credit hours, pay a tuition fee of $5.00 a credit hour.

In addition to the tuition fee, a registration fee of $10.00 a semester is charged all regular students carrying 10 or more credit hours.

No refunds will be made after the two weeks interval following the announced registration days. During this period, changes of schedule or withdrawal may be made without penalty or forfeiture. Late registrants will be charged a fee of $1.00.

Laboratory and special course fees are indicated in the description of courses. Students may be billed for excessive breakage of equipment at the discretion of the instructor.

All students are required to pay a diploma fee of $5.00 at the time of graduation. A fee of one dollar is charged for each copy of transcript of record after the first such copy has been issued.

All graduate students pay a fee of $5.00 before the award of the advanced degree, to cover the cost of binding two copies of the thesis. Hoods for the graduation ceremony may be borrowed from or purchased through the University business office.

The use of steel book lockers may be secured from the business office by making a deposit of $1.00, fifty cents of which will be refunded upon return of the key.

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

No student is permitted to register until all outstanding indebtedness to the University has been liquidated unless special permission has been obtained from the Treasurer.

**LIVING EXPENSES**

The rates for board and room in Atherton House range from $40.00 to $55.00 a month. The rate for rooms in the Women's Dormitory together with the evening meal (except Sundays) is $25.00 per month, payable in advance. Breakfasts and lunches are not included in this rate but may be had at the University Cafeteria at a very reasonable rate. Accommodations for 30 women are available in the University wing of the Mid-Pacific Dormitory adjoining the University Campus. The rate here is $22.50 per month including two meals daily. A number of student boarding houses are listed in the office of the Dean of Women.

It is estimated that the total expense to an average student is from $500.00 to $600.00 per year, including board and room, tuition and fees, books, and club organization dues, but not including clothes, laundry, and pocket money.

**STUDENT ACTIVITIES**

The Associated Students of the University of Hawaii is a self-governing organization in which all regular undergraduate students of the university are members. Its policies are determined by an elective student council.
This organization controls numerous activities, among which the most important are football, basketball, track, baseball, swimming, and minor sports, debating, dramatics, a weekly newspaper, and a year book.

The university athletic and debating teams hold intercollegiate contests with teams from Pacific Coast and Oriental universities. The University of Hawaii Theater Guild is a unique organization, numbering among its members persons of a dozen nationalities, which annually presents a Caucasian, Japanese, Chinese and Hawaiian drama, each with the proper racial cast.

In addition, there are a large number of scholastic, honorary, professional, and social organizations, which are designed to promote student welfare.

**STUDENT AID**

The Committee on Student Aid handles all matters pertaining to scholarships, student loan funds, and part-time employment for both men and women. A list of rooms and approved residences for both men and women is kept in the committee headquarters, Room 212, Hawaii Hall.

**SCHOLARSHIPS, LOANS, AND PRIZES**

The University offers financial aid in the forms of scholarships and loans. Some scholarships are available only to persons named by the donors, but most of them are awarded by the committee on Student Aid. Unless otherwise specified, all scholarships are awarded annually. Several loan funds afford financial aid to students on generous terms. Prizes are awarded annually for achievement in special fields.

Applicants for scholarships should be addressed to the President of the University in May each year. Loans may be applied for through the committee on Student Aid at any time during the year.

**SCHOLARSHIPS**

**Associated Women Students**—Two scholarships of $50 each are awarded to regular women students above Freshman standing.

**Chinese Community**—A fund of about $3,000 has been given to the University of Hawaii to endow scholarships for Juniors and Seniors of Chinese ancestry.

**Daughters of American Revolution—Aloha Chapter, D. A. R.,** offers two scholarships of $100 each to women students connected with a D.A.R. Chapter. These scholarships are known as the N.S.D.A.R. Scholarship and the Charlotte D. I. Steere D.A.R. Scholarship.

**Ke Anuenue**—The sum of $50 is awarded to an Hawaiian girl above Freshman standing.

**Leora Parmelee Dean**—The sum of $100 is awarded by the Woman's Campus Club of the University to deserving and needy young women. Application for this scholarship should be addressed to the Chairman of the Scholarship Committee of the Campus Club.

**Mary Dillingham Frear**—A scholarship of $150 is awarded to a meritorious and needy upperclass student.

**Maui Hawaiian Woman's Club**—A scholarship of $100 is awarded to a graduate of a Maui High School.

**Maui Woman's Club**—A scholarship of $100 is awarded by the Maui Woman's Club to a graduate of a Maui High School.
Phi Beta Kappa Recognition Fund—Phi Beta Kappa Association of Hawaii maintains a fund for the recognition of high scholastic standing among students.

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 pay fully their educational expenses.

Ruth C. Scudder—A scholarship is awarded to a deserving woman student from a memorial fund maintained by the Woman’s Society of Central Union Church.

Stephen Spaulding—The income of an endowment of $2,500, given by Florence Tucker Spaulding in memory of her son, Stephen Spaulding, ex-1927, is awarded as a scholarship to a male student.

Wakaba Kai—Two scholarships of $50 each are awarded to Japanese girls above Freshman standing.

Yang Chung Hui—The sum of $50 is awarded to a Chinese girl above Freshman standing.

LOAN FUNDS

The Alumni Student Aid Fund may be used by needy students maintaining good scholastic records.

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

The Representatives Club Fund is available to students selected on the basis of need and scholastic standing.

The George H. Lamy Loan Fund is open to students in engineering.

The Senior Loan Fund is available to seniors of any college.

The Student Loan Fund of Teachers College may be used by students enrolled in Teachers College.

The Helen Strong Carter Loan Fund is open to students needing dental treatment.

The Moir-Ross Health Endowment offers loans to students needing the services of a physician.

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 is available to needy students of Junior or Senior standing.

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.

The American Association of University Women of Honolulu offers loan fund aid to needy women students.

The Chinese Women’s University Club and the Chinese Women’s Club maintain a loan fund for Chinese women students.

The McKinley Scholarship Loan Fund may be used by University students who have attended McKinley High School.
The Maui Woman's Club Loan Fund is open to University students who have graduated from Maui High Schools.

The Chinese Students' Alliance of Honolulu provides $300 annually for loans to Chinese students who are members of the C. S. A.

The P. E. O. Sisterhood offers a loan scholarship of $100 to an upperclass woman student.

The Dollar Fund provides small loans for short periods of time.

The Associated Women Students Loan Fund provides small loans to women students for short periods of time.

The Te Chih Sheh Loan Fund provides loans for members of Te Chih Sheh.

PRIZES

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

Banks Memorial Prize—The Charles Eugene Banks Memorial Prize is awarded yearly to the student who shows the most ability in creative writing.
COLLEGE OF ARTS AND SCIENCES

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

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

Admission. For admission to this college 15 (or 12) acceptable units as defined on pages 34 and 35 should be offered, 3 of which must be in English and one in algebra. (This latter requirement may be satisfied by the 9th grade General Mathematics of the Intermediate Schools.) Students planning to enter Group III, Biological and Physical Sciences, will find it advantageous to offer high school algebra through quadratics and plane geometry.

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

(a) have passed all the prescribed studies (see page 37).
(b) have received credit for a minimum of 128 semester hours, and
(c) have gained a minimum of 264 grade points*.

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

Language Requirements. 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 Oriental Studies 200, 200-B, or 202, Hawaiian 200, or an equivalent by the end of the Junior year. If advanced credit covering any one of the above is presented by a candidate at the time of admission to the University from any source other than another accredited college or university, an additional year’s work over and above that presented is required to be done at the University of Hawaii in fulfillment of the foreign language requirement. 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 45 grade points may register for 18 credit hours, in addition to Military Drill

* For an explanation of grade points see page 36.
and Physical Education; as may Freshmen during their first semester, provided their grades in the subjects offered for entrance average 85% or more.

Although the greater part of the work is elective, the student is expected to select his studies in conformance with a well-defined program. To this end he registers in one of the four groups of allied subjects indicated below, and is given a faculty advisor 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. Economics and Business.

REQUIREMENTS FOR THE BACHELOR OF ARTS DEGREE

<table>
<thead>
<tr>
<th>Prescribed Courses</th>
<th>FIRST YEAR</th>
<th></th>
<th>SECOND YEAR</th>
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<tbody>
<tr>
<td></td>
<td>Semester</td>
<td>Credits</td>
<td></td>
<td>Credits</td>
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<tr>
<td></td>
<td>English 100 or 102</td>
<td>3</td>
<td>English 130</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Science*</td>
<td>3 or 4</td>
<td>Science*</td>
<td>3 or 4</td>
</tr>
<tr>
<td></td>
<td>Pol. Sci. 150, 151</td>
<td>3</td>
<td>Modern Language†</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Modern Language</td>
<td>3</td>
<td>Mil. Sc.</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Mil. Sc.</td>
<td>1</td>
<td>Phys. Ed.</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Elective</td>
<td>1</td>
<td>Elective</td>
<td>6-12</td>
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<tr>
<td></td>
<td></td>
<td>3</td>
<td></td>
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<tr>
<td></td>
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<td>17-18</td>
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<td>16-18</td>
</tr>
</tbody>
</table>

THIRD AND FOURTH YEARS

All electives, 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 advisor. 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 services will select this group. Of the elective courses at least 48 semester hours are to be chosen from the courses in History, Political Science, Sociology, Economics, Geography, Psychology, Police Administration, Oriental Studies, Philosophy and Anthropology listed as follows:

First and Second Years:
- History 100
- Geography 150, 151

* Chem. 101 or 102, or Bot. 101, or Zool. 150, 151, or Survey 100. This requirement may be met either in the Freshman or the Sophomore year.
† Unless met by end of Freshman year.
Political Science 170, 171
Economics 150, 151
Sociology 150, 151
Police Administration 150, 152, 153, 155

Third and Fourth Years:
History 204, 242, 243, 244, 245, 253, 276, 277, 310, 311, 327
Geography 252, 253, 300
Political Science 200, 256, 261, 266, 271, 273, 330
Economics 250, 261, 265, 270, 273, 276, 281, 285, 300
Psychology 252, 280
Oriental Studies 224, 225, 228, 241, 254, 255
Police Administration 251, 254, 255, 257
Anthropology 200, 250, 251, 252, 253
Philosophy 250, 251, 260, 261, 270, 271, 280, 290

Students in group I are required to take History 100, Economics 150, 151; Sociology 150, 151; Political Science 170; Geography 150 or 151; and either Psychology 280 or Sociology 272.

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, Oriental Languages and Literature, and Art; Economics 123; History 100; Political Science 170, 200; Psychology 252; Sociology 150, 151; Oriental Studies 254, 255; and Philosophy 250-251, 260-261.

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 38.

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 38.

First and Second Years:
Chemistry 101, 102, 150, 152, 153, 161
Botany 101, 102, 106, 151, 155, 156, 158, 160, 161, 162
Zoology 150, 151, 160, 161, 170, 172, 173, 174, 175, 180, 181
Mathematics 104, 106, 149, 150, 151, 152, 153
Physics 102, 150, 151, 153, 155, 157

Third and Fourth Years:
Chemistry 211, 212, 213, 215, 216, 217, 230, 240, 260, 261, 262, 263, 318
Botany 200, 210, 253, 254, 256, 258, 260, 263, 265, 267, 268, 269, 300, 301
Zoology 210, 251, 253, 254, 255, 257, 260, 261, 262, 270, 291, 300
Mathematics 250, 252, 253, 254, 255, 270, 271, 272, 273, 274, 275
Physics 202, 250, 253, 255, 257, 261, 361
Geology 252, 253, 255, 261, 300

GROUP IV—ECONOMICS AND BUSINESS

Students desiring a training in economics and business will register in this group. During the Freshman and Sophomore years, courses are offered in English, a foreign language, Sociology, Political Science, Hist-
tory, and Geography. Specialization in Economics and Business begins in the Junior year. The student then selects, with the assistance of the group advisor, one of the five fields or programs of study into which the work of the group is divided. These fields are: (a) Business Management and Finance, (b) Merchandising, (c) International Economics and Trade, (d) Accounting, and (e) General Economics. Each of these fields comprises in addition to a liberal allowance of elective credit hours a group of required courses so selected as to present a general survey of economics and business and a considerable degree of specialization in the field concerned. Students who are undecided as to their future business connections will register in Economics. In addition to the above programs of study, a special program designed to meet the need of women who plan to enter the field of business is offered.

**Programs of Study in Economics and Business**

**First Year**

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>English 100 or 102</td>
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<tr>
<td>Political Science 150, 151</td>
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<tr>
<td>Modern Language (French, German, Spanish, Hawaiian, Japanese or Chinese)</td>
</tr>
<tr>
<td>Geography 150, 151</td>
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</tbody>
</table>

**Second Year**

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>English 130</td>
</tr>
<tr>
<td>Modern Language (Continued)</td>
</tr>
<tr>
<td>Economics 150-151</td>
</tr>
<tr>
<td>Business 150-151 or 152-153 (not required for General Economics Program)</td>
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</tbody>
</table>

**Third and Fourth Years**

**Business Management and Finance**

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>Business 250-251 or 252-253, 255, 260-261, 264, 265, 266, 267, 270-271, 291</td>
</tr>
<tr>
<td>Economics 260, 261, 265, 281</td>
</tr>
<tr>
<td>English 201</td>
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</tbody>
</table>

**Merchandising**

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>Art 274</td>
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<tr>
<td>Business 259, 260-261, 264, 270-271, 273, 276, 280</td>
</tr>
<tr>
<td>Economics 260, 261, 270, 273</td>
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<tr>
<td>English 201</td>
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</table>

**International Economics and Trade**

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>Business 260-261, 264, 270-271, 275</td>
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<tr>
<td>Economics 250, 260, 265, 273, 285</td>
</tr>
<tr>
<td>English 201</td>
</tr>
<tr>
<td>Geography 252, 255</td>
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</table>

**Accounting**

<table>
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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>Economics 260</td>
</tr>
<tr>
<td>English 201</td>
</tr>
</tbody>
</table>
University of Hawaii

GENERAL ECONOMICS
Business 255, 260-261, 291
Economics 250, 260, 261, 265, 270, 276, 281, 285
English 201
Political Science and History (6 credit hours).
Sociology (3 credit hours)

PROGRAM FOR BUSINESS WOMEN
Art 274
Business 259, 260-261, 264, 270-271, 273, 276, 280, 291
Economics 260, 281
Political Science and History (6 credit hours)
Sociology (3 credit hours)
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 of 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.

Admission. Candidates who wish to complete the engineering course in four years must present credentials showing they earned high school credits in algebra through quadratics, plane geometry and trigonometry. In addition, solid geometry is strongly advised but not required. In other courses in which college mathematics is a requirement algebra through quadratics and plane geometry should be presented for entrance.

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 at least two semesters prior to the time of graduation. 136 credits and 264 grade points are required for graduation in all courses except engineering, in which 148 credits 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 37)

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.

The object sought in planning these courses is to teach the general laws governing the relationship of growing crops and living animals to soil, climate, and surroundings. The method is by laboratory investiga-
tions, 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.

The special applications and modifications appertaining to particular crops and problems are studied later.

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>
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<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>Agriculture 256</td>
</tr>
<tr>
<td>Military Science and Physical Education</td>
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<table>
<thead>
<tr>
<th>SECOND YEAR</th>
<th>FOURTH YEAR</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, a student must submit for approval, to the Advisor and Dean, a detailed program of courses for the remaining three years, indicating his major objective. The program may be so arranged that a student may elect a very general agricultural course or he may specialize in (a) sugar culture, (b) pineapple culture, (c) livestock, or (d) he may specially prepare himself for further work in soil or plant science. Students who are interested in teaching agriculture follow the general outline of the course in agriculture and, in addition, during their Junior and Senior years fulfill certain professional requirements in the Teachers College.

The general program of studies is so arranged that the student’s time will be divided about as follows:

<table>
<thead>
<tr>
<th></th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>General College courses</td>
<td>60</td>
</tr>
<tr>
<td>General Agricultural courses</td>
<td>20</td>
</tr>
<tr>
<td>Major Agricultural requirement (Not including general courses)</td>
<td>16</td>
</tr>
<tr>
<td>Free electives—either agricultural courses in other than major branch or general electives</td>
<td>40*</td>
</tr>
<tr>
<td><strong>Total requirement</strong></td>
<td><strong>136</strong></td>
</tr>
</tbody>
</table>

* The number of free electives will decrease as the credits in the three groups above are increased.
courses in education as advised by the Advisor and Dean. Students who wish the Secondary School Teaching Diploma must register in the Teachers College for a fifth (postgraduate) year of work.

A limited number of graduates in agriculture will be accepted by the P. P. C. A. Experiment Station. These graduates are accepted for a year's period of training and serve as assistants in the various departments of the Experiment Station. Application for such positions should be made directly to the Director of the Station.

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 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 developing upon men of technical training, and to become ultimately skillful 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>THIRD YEAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Civil Engineering 101</td>
<td>Civil Engineering 201, 252, 253, 255</td>
</tr>
<tr>
<td>Mechanical Drawing 101</td>
<td>Mechanical Engineering 252</td>
</tr>
<tr>
<td>Mathematics 104</td>
<td>Engineering Laboratory (X.E.)</td>
</tr>
<tr>
<td>Chemistry 101 or 102</td>
<td>253</td>
</tr>
<tr>
<td>English 100 or 102</td>
<td>Physics 250, 253</td>
</tr>
<tr>
<td>Military Science</td>
<td>Economics 150, 151</td>
</tr>
<tr>
<td>Physical Education</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SECOND YEAR</th>
<th>FOURTH YEAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Civil Engineering 125</td>
<td>Civil Engineering 227, 276, 277, 279</td>
</tr>
<tr>
<td>Civil Engineering 151</td>
<td>Mechanical Engineering 282, 283</td>
</tr>
<tr>
<td>Mechanical Drawing 133</td>
<td>Physics 202</td>
</tr>
<tr>
<td>Mechanical Engineering 150</td>
<td>Geology 256</td>
</tr>
<tr>
<td>Mathematics 106</td>
<td></td>
</tr>
<tr>
<td>Physics 150, 151</td>
<td></td>
</tr>
<tr>
<td>English 120 or 130</td>
<td></td>
</tr>
<tr>
<td>Military Science</td>
<td></td>
</tr>
<tr>
<td>Physical Education</td>
<td></td>
</tr>
</tbody>
</table>
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 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 two distinct branches; the growing of cane, and its manufacture into sugar. Inasmuch as it would be extremely difficult to acquire a thorough knowledge in both these branches in four years, the courses in Sugar Technology are offered in two 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.

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

The second semester of the fourth year is devoted almost entirely to practical work. Arrangements are made whereby students in the Sugar Agricultural Division serve as student assistants in the Experiment Station of the Hawaiian Sugar Planters' Association. Careful notes must be kept of this work and a report in duplicate submitted at the end of the semester.

During the second semester of the fourth year, students in the Sugar Chemistry Division may take the same work as those in the agricultural division. Those who prefer to work in a sugar factory may serve as special apprentices in one of the plantation factories. During this apprenticeship, the student actually performs the duties required at the various stations in the mill and in the boiling house. In either case, a report, in duplicate, must be submitted at the end of the semester.
REQUIRED COURSES

AGRICULTURAL DIVISION

<table>
<thead>
<tr>
<th>FIRST YEAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Botany 101</td>
</tr>
<tr>
<td>Chemistry 101 or 102</td>
</tr>
<tr>
<td>Mathematics 150, 151*</td>
</tr>
<tr>
<td>English 100 or 102</td>
</tr>
<tr>
<td>Drawing, M. D. 101</td>
</tr>
<tr>
<td>Military Science</td>
</tr>
<tr>
<td>Physical Education</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SECOND YEAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 120 or 130</td>
</tr>
<tr>
<td>Chemistry 150, 151</td>
</tr>
<tr>
<td>Physics 102</td>
</tr>
<tr>
<td>Civil Engineering 101</td>
</tr>
<tr>
<td>Military Science</td>
</tr>
<tr>
<td>Physical Education</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>THIRD YEAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture 250, 251, 254, 256</td>
</tr>
<tr>
<td>Sugar Technology 201, 253</td>
</tr>
</tbody>
</table>

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

A summer course (Sugar Technology 253) must be taken in the factory 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.

**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. Students in 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 advisor in arranging a program of studies adapted to her needs and capabilities.

Students who are interested in teaching home economics follow the general outline of one of the courses listed and, in addition, during their junior and senior years fulfill certain professional requirements in the Teachers College. Students who desire the Secondary Teaching Diploma must register in the Teachers College for fifth year work.

* 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.

† Suggested electives.
To meet a major requirement, students must offer courses totaling at least 18 credits in the particular major with at least 12 credits in allied or closely related subjects; for a minor, these totals are 12 and 8.

<table>
<thead>
<tr>
<th>REQUIRED COURSES</th>
<th>HOUSEHOLD SCIENCE</th>
<th>HOUSEHOLD ART</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FIRST YEAR</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>English 100 or 102</td>
<td></td>
<td>English 100 or 102</td>
</tr>
<tr>
<td>Chemistry 101 or 102</td>
<td></td>
<td>Chemistry 101 or 102</td>
</tr>
<tr>
<td>Household Science 150</td>
<td></td>
<td>Household Science 150</td>
</tr>
<tr>
<td>Art 150, 151</td>
<td></td>
<td>Art 150, 151</td>
</tr>
<tr>
<td>Household Art 110, 111</td>
<td></td>
<td>Household Art 110, 111</td>
</tr>
<tr>
<td>Household Art 112</td>
<td></td>
<td>Household Art 112</td>
</tr>
<tr>
<td>Household Art 150, 151</td>
<td></td>
<td>Household Art 150, 151</td>
</tr>
<tr>
<td>Physical Education</td>
<td></td>
<td>Physical Education</td>
</tr>
<tr>
<td>†Botany 156</td>
<td></td>
<td>†Botany 156</td>
</tr>
<tr>
<td>†Geography 151</td>
<td></td>
<td>†Geography 151</td>
</tr>
<tr>
<td>English 120 or 130</td>
<td></td>
<td>English 120 or 130</td>
</tr>
<tr>
<td>Household Art 114</td>
<td></td>
<td>Household Art 114</td>
</tr>
<tr>
<td>Household Science 102</td>
<td></td>
<td>Household Science 102</td>
</tr>
<tr>
<td>Art 172, 175</td>
<td></td>
<td>Art 154, 155, 172, 175</td>
</tr>
<tr>
<td>Chemistry 152</td>
<td></td>
<td>Economics 150, 151</td>
</tr>
<tr>
<td>†Chemistry 150, 151</td>
<td></td>
<td>Electives 3 to 5 credits each semester</td>
</tr>
<tr>
<td>Economics 150, 151</td>
<td></td>
<td>Physical Education</td>
</tr>
<tr>
<td>Physical Education</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Household Science 200</td>
<td></td>
<td>Art 250-251</td>
</tr>
<tr>
<td>Home Economics 250</td>
<td></td>
<td>Art 170-171</td>
</tr>
<tr>
<td>Chemistry 260, 262</td>
<td></td>
<td>Household Art 252, 253</td>
</tr>
<tr>
<td>Home Economics 252, 253</td>
<td></td>
<td>Home Economics 250</td>
</tr>
<tr>
<td>Zoology 291</td>
<td></td>
<td>Home Economics 252, 253</td>
</tr>
<tr>
<td>Electives 6 to 9 credits each semester</td>
<td></td>
<td>Household Science 271</td>
</tr>
<tr>
<td>†Sociology 150</td>
<td></td>
<td>Electives 6 to 9 credits each semester</td>
</tr>
<tr>
<td>†Chemistry 263</td>
<td></td>
<td>†Sociology 150</td>
</tr>
<tr>
<td>Household Science 251</td>
<td></td>
<td>Art 276, 277</td>
</tr>
<tr>
<td>Household Science 249</td>
<td></td>
<td>Art 173</td>
</tr>
<tr>
<td>Home Economics 291</td>
<td></td>
<td>Home Economics 291</td>
</tr>
<tr>
<td>Electives 10 to 12 credits each semester</td>
<td></td>
<td>Electives 10 to 12 credits each semester</td>
</tr>
</tbody>
</table>

The total requirement of credits and grade points as stated on page 36 must be met. The student may elect any subject and offer credits so obtained in order to fulfill the free electives.

**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

† Suggested electives.
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 some latitude in the selection of studies, but is required to carry the major part of his elective work in one group of sciences.

In order to graduate in the General Science course the student must have passed the prescribed studies of the first and second years, must have completed fundamental courses, and have satisfactorily completed courses aggregating not less than a total of 136 credits. One of the two groups—Physical Sciences or Biological Sciences—must be selected 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, (see page 75), (4) Physics and Mathematics, (5) Pre-Medical. 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 he must earn at least 30 credit hours in his major subject, except in group (5) which requires at least 20 hours of Chemistry and 12 of Zoology.

Students who plan to specialize in Chemistry, Zoology, or Botany should have a working knowledge of German and French, since such knowledge 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 38). Attention of entering students is particularly called to the prerequisite for Physics 102. Students who enter with Algebra through quadratics, Plane Geometry, and Trigonometry are not required to elect Mathematics 150, 151 in their Freshman year.

Since September, 1933, students have not been admitted to Queens' Hospital School for Nurses unless they have completed at least one year of college work which must include courses in English, Chemistry, Bacteriology, elementary Nutrition and Psychology. Students who plan to meet the entrance requirements for this School for Nurses, should register as regular students in the General Science course and elect the subjects required.

Prescribed courses are few. In the Freshman year the student must take

- English 100 or 102
- Chemistry 101 or 102
- 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 6 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>
</tr>
</thead>
<tbody>
<tr>
<td>Geog. 150, 151</td>
<td>Phys. 102, 150, 151</td>
<td>Chem. 211, 212, 213, 215, 216, 217, 230, 260, 261, 262, 263, 318</td>
</tr>
<tr>
<td>Drawing</td>
<td>Chem. 150, 152, 153, 161</td>
<td>Sugar Tech. 201, 250, 252</td>
</tr>
<tr>
<td>Language</td>
<td>Geol. 252, 253, 256</td>
<td>Phys. 202, 250, 253, 255, 257, 261, 351</td>
</tr>
<tr>
<td>or Political Science 150 and 151</td>
<td>C. E. 101</td>
<td>C. E. 231, 252, 253, 255</td>
</tr>
<tr>
<td>Language</td>
<td>M. D. 133</td>
<td>M. E. 252, 282</td>
</tr>
<tr>
<td>or</td>
<td>Language</td>
<td>Geol. 255</td>
</tr>
<tr>
<td>History 140</td>
<td>or</td>
<td></td>
</tr>
</tbody>
</table>

**GROUP B**

**BIOLOGICAL SCIENCES**

<table>
<thead>
<tr>
<th>1st Year</th>
<th>2nd Year</th>
<th>3rd and 4th Years</th>
</tr>
</thead>
<tbody>
<tr>
<td>Botany 101</td>
<td>Botany 102, 106, 155, 156, 162</td>
<td>Bot. 151, 158, 200, 210, 253, 254, 256, 258, 260, 263, 265, 267, 268, 269, 300, 301</td>
</tr>
<tr>
<td>Zoology 150, 151</td>
<td>Chem. 150, 152, 153, 161</td>
<td>Chem. 216, 217, 230, 260, 261, 262, 263</td>
</tr>
<tr>
<td>Geography 150, 151</td>
<td>Geology 252, 253, 256</td>
<td>Phys. 202, 250, 253, 255, 257, 261, 351, 262, 270, 291, 300, 301</td>
</tr>
<tr>
<td>Drawing</td>
<td>H. S. 102</td>
<td>Agr. 250, 251, 254, 256, 261, 262</td>
</tr>
<tr>
<td>Language</td>
<td>Physics 102</td>
<td>Geol. 255, 261</td>
</tr>
<tr>
<td>or Political Science 150 and 151</td>
<td>Psychology 150</td>
<td>H. S. 200, 249, 251, 271, 350, 351</td>
</tr>
<tr>
<td>Language</td>
<td>Zoology 160, 161, 170, 172, 173, 174, 175, 180, 181</td>
<td>Econ. 150, 151</td>
</tr>
<tr>
<td>or</td>
<td>Language</td>
<td>Physics 255, 257</td>
</tr>
<tr>
<td>History 140</td>
<td>or</td>
<td></td>
</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.
TEACHERS COLLEGE

The Teachers College has a very definite function: to prepare teachers for the public schools of Hawaii. This college is attempting, in every respect, to provide such education for teachers as will help the public schools to render the most practical and cultural service possible to the people of Hawaii. Its program leading to the Ed.B. degree is four years in length. A fifth, post-graduate, year of work is provided for students preparing for either elementary or secondary school teaching. The Five Year Diploma is granted to the fifth year student completing 30 credit hours of work, including probationary teaching and other required courses.

SERVICE TO TEACHERS IN THE FIELD

A program of professional preparation for teachers must include, along with courses for prospective teachers, courses for teachers in service. The Teachers College offers, through the Extension Division of the University, the Evening Session, and the Summer Session, courses designed especially to meet in-service needs.

ADMISSION

In addition to the general University requirements for admission, students entering the Teachers College must meet certain standards of health, personality, and oral English. The number allowed to enter the Freshman year is strictly limited in order that those graduated may be reasonably certain of obtaining teaching positions in the schools of the Territory.

REQUIREMENTS FOR GRADUATION

Candidates are recommended for the degree of Bachelor of Education upon satisfaction of the requirements set forth on page 37 in addition to the following:

(1) A minimum of 130 semester hours of course work,
(2) A minimum of 264 grade points (see page 36), and
(3) Prescribed work in various studies in elementary or in secondary education as follows:

Elementary Education

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Participation and Practice in Teaching</td>
<td>10</td>
</tr>
<tr>
<td>Other Education Courses</td>
<td>25</td>
</tr>
<tr>
<td>English</td>
<td>14</td>
</tr>
<tr>
<td>Social Science</td>
<td>13</td>
</tr>
<tr>
<td>Natural Science</td>
<td>10</td>
</tr>
<tr>
<td>Health and Physical Education</td>
<td>8</td>
</tr>
<tr>
<td>Military Science (men)</td>
<td>6</td>
</tr>
<tr>
<td>Practical Arts</td>
<td>4</td>
</tr>
<tr>
<td>Fine Arts and Music</td>
<td>4</td>
</tr>
</tbody>
</table>

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University of Hawaii

Secondary Education
Participation and Practice in Teaching ......................... 10
Other Education Courses .................................. 32
English .................................................. 12
Social Science ......................................... 10
Natural Science ......................................... 10
Health and Physical Education ............................. 8
Military Science (men) ................................ 6
Teaching Fields
(a) ...................................................... 20
(b) ...................................................... 20

BASIC COURSES*
The courses of the first two years (Freshman and Sophomore) are basic. All students carry the same work, with the exception of a few electives. These courses are the following:

FIRST YEAR

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
<th>Sem. I</th>
<th>Sem. II</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 103</td>
<td></td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Political Science 150</td>
<td></td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Political Science 151</td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Biology 135</td>
<td></td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Education 100</td>
<td></td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Physical Education 100 or 101</td>
<td></td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Military Science (men)</td>
<td></td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Physical Education 135 (women)</td>
<td></td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td>17</td>
<td>17</td>
</tr>
</tbody>
</table>

SECOND YEAR

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
<th>Sem. I</th>
<th>Sem. II</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 135</td>
<td></td>
<td>3</td>
<td>3</td>
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At the end of the second year, a student elects to specialize in one of the following: Kindergarten-Primary, Elementary, or Secondary Education.

* For descriptions of all courses offered in Teachers College see pages 122-130.
# Teachers College

## Kindergarten-Primary Curriculum

### THIRD YEAR

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General Fourth Year Curriculum

The program of work required of all fourth year students in Teachers College consists of two parts: (1) one semester of elective and recommended courses, (2) one semester of professional education courses. One half of part 2 above is devoted exclusively to practice teaching, the other half exclusively to certain basic education courses. While one-half of the class carries the elective academic program, the other half carries the professional education program, one group doing practice teaching while the second carries the required courses.

FOURTH YEAR

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<td>Education 295</td>
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General Fifth Year Curriculum

The program of work required of all fifth-year students in Teachers College consists of two parts: (1) one semester of probationary teaching in a public school, under supervision, (2) one semester of required and elective course work. The class is divided into two groups, one of which carries the academic course program while the other carries the probationary teaching.

FIFTH YEAR

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MASTER OF EDUCATION DEGREE

Candidates for the degree of Ed.M. must have satisfied the essential requirements of the Ed.B. degree. The candidate must satisfactorily complete a graduate program of 30 semester hours and present an acceptable thesis and pass the required examinations. Credits earned in courses prescribed for the Five Year Diploma will, with the exception of Education 354 and 395, be accepted in partial fulfillment of requirements for the Ed.M. degree. The graduate course program should include the following: Three semester hours each in the philosophy of education, educational psychology, history of education and contemporary education. The candidates' special committee may, at its discretion, consider one or more of the above course requirements to have been met if the candidates' undergraduate program has included substantial corresponding courses. In such cases, the special committees will authorize courses. In general requirements for advanced degrees (see page 40) will apply to the Master of Education degree.
GRADUATE SCHOOL OF TROPICAL AGRICULTURE

The Graduate School of Tropical Agriculture of the University of Hawaii was established for the purpose of providing facilities for research and graduate training in the several branches of science pertaining to tropical agriculture. To provide the best possible physical equipment and instructing personnel several scientific institutions in Honolulu have joined with the University of Hawaii in a cooperative union, each providing certain facilities.

ADMISSION

Admission is limited to students who are graduates of some collegiate institution of recognized standing, or whose experience and training are considered to be the equivalent. In general, students will be required to have an adequate knowledge of the sciences fundamental to their major field and those which will qualify them to carry on a major research problem. Only those applicants for admission will be accepted whose previous training seems to enable them to prosecute the work in prospect in the Graduate School. This will imply, as a general rule, that acceptable candidates will be those who hold a Master's degree or who have done professional work beyond the Bachelor's degree in the chosen field.

Students may be admitted either (1) as candidates for an advanced degree, (2) as research fellows, not seeking a degree but desirous of prosecuting some special research, or (3) as special students participating in a course or two. Candidates for an advanced degree may seek that degree in this institution or in another by transfer of credits. If the student wishes to receive the degree from this institution it will be necessary for him to pass a qualifying general examination at least one year prior to the awarding of the degree. The requirements for advanced degrees are standard. It is the intention, for the present, to limit the admission of candidates for advanced degrees to a small number.

The courses of study are, in general, organized on the seminar basis. A limited number of persons may be admitted as auditors in certain of the lecture courses. No credits are given to auditors nor are permanent records kept of their work.

Inasmuch as the accommodations are limited, the Graduate School of Tropical Agriculture may decline the applications of some prospective students even though they are adequately prepared. Consequently, any one not a resident of Honolulu who is interested in applying for admission is urged to submit his application by mail rather than to incur the expense of travel to Hawaii before acceptance by the school.

Students may arrange to transfer credits to other institutions for the purpose of receiving degrees if they desire.

DEGREE REQUIREMENTS

While major emphasis is placed on non-degree work, the Graduate School will accept a limited number of candidates for the Doctor's degree.

For the Master of Science degree the student is required to spend at least one academic year in residence, complete satisfactorily a program of study and research prescribed by the committee in charge of his candidacy, and pass a general examination at the end of his course to show his grasp of the subject under study.
For the Doctor of Philosophy degree the student is required to spend at least three academic years in residence, at least one year of which must be at the University of Hawaii, to complete satisfactorily a program of research and study prescribed by the committee in charge of his candidacy, and to pass the necessary examinations. A qualifying general examination, which includes a test of reading knowledge of both French and German, must be passed at least one academic year (nine months) prior to the awarding of the degree, and a student will not be formally considered a candidate for the Doctor's degree until he has passed this examination. The final examination will be given on completion of the Doctor's dissertation, and will comprise a presentation and defense of the dissertation.

HAWAII SCHOOL OF RELIGION

The Hawaii School of Religion is affiliated with the University, though independently supported by friends of both the Protestant and Catholic faiths. The School is under the direction of its own board of trustees and conducts its courses on privately owned premises adjoining the University.

The University of Hawaii considers the School as an affiliated unit for instructional service and students of the University taking certain courses therein are credited in the same manner as for regular University courses, provided the student in each case has the approval of his dean.
AGRICULTURE

100 Orientation Course
Several lectures on the agriculture of Hawaii. Designed to acquaint the student with the different fields of agriculture in the Territory with a view to enabling him to more intelligently select a major field of study at the end of the Freshman year. First semester. Required of all Freshmen in Agriculture. No credit.

151* Animal Husbandry
A general study of the important breeds of horses, cattle, sheep, and swine, their feeding, care, and management. Lectures, assigned readings and laboratory work. Laboratory fee $1.00. Second semester, 3 credits.

152 Poultry Husbandry
An elementary course dealing with 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. Laboratory fee $1.00. First semester, 3 credits.

162 Horticulture
A general study of the fruits of the Hawaiian Islands: their cultivation, pruning, spraying, fertilizing, and moisture requirements of orchard and garden fruits; also the handling and packing for market of local fruits. Prerequisites: Chemistry 101 or 102 and Botany 101. Two lectures or recitations and one laboratory period per week. First semester, 3 credits.

163 Horticultural Propagation
This follows Agriculture 162 and is a practical course in the propagation of fruit plants. It includes the study of seeds, germination and seedling culture; also vegetative propagation by cuttings and graftage with nursery development. Prerequisites: Chemistry 101 or 102 and Botany 101; desirable, Agriculture 162. Two lectures or recitations and two laboratory periods per week. Second semester, 4 credits.
165 Ornamental Plant Culture
Pope
The common ornamental plants of the Hawaiian Islands, their uses, methods of propagation and care are studied in this course. No prerequisites. Two lectures or recitations and one laboratory period per week. Second semester, 3 credits.

250 Soils
Wadsworth
The origin and physical properties of local soils, including a consideration of texture, structure, and moisture relations. Required of Juniors in Agriculture and Sugar Technology, Agriculture and Chemistry divisions. Prerequisites: Chemistry 101 or 102 and Physics 102. Three lectures or recitations and two laboratory periods each week. Laboratory fee $2.00. First semester, 5 credits.

251* Tropical Crops
Westgate
A study of the history, botany, culture, and utilization of the leading tropical crops of the world as well as consideration of various economic problems arising in connection with the development of agriculture in the tropics. Required of Juniors in Agriculture and Sugar Technology, Agriculture and Chemistry divisions. Two lectures or recitations, one laboratory period each week. Prerequisites: Botany 101 and Chemistry 101 or 102, Agriculture 256 desirable. Laboratory fee $2.00. Second semester, 3 credits.

252* Sugar Cane Production
H.S.P.A. Experiment Staff
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, assigned readings, and laboratory periods. Laboratory fee $2.00. First semester, 4 credits. (Alternates with Agriculture 257; not offered in 1935-36.)

253* Dairying
Henke
A study of dairy cows, the production, handling, and marketing of milk and milk products, milk testing, and separation, etc. Two lectures or recitations, and one laboratory period a week. Laboratory fee $1.00. First semester, 3 credits. (Alternates with Agriculture 257; not offered in 1935-36.)

254 Principles of Genetics
Wilsie
A study of the fundamentals of genetics, including the principles of Mendelian inheritance, the chromosome theory, linkage, the determination of sex, variation, mutations, and an introduction to the use of biometric methods. Two lectures and one laboratory period a week. Prerequisites: Botany 101 and Zoology 150 or their equivalent. Required of Juniors in Agriculture and Sugar Technology Agriculture division. Second semester, 3 credits.

255 Poultry Husbandry
Bice
A course dealing with problems of management on a large commercial poultry farm; an hour report on one phase of the poultry industry; assigned outside reading and discussions based upon important research problems. Prerequisite: Agriculture 152. Not open to Freshmen. Two lectures, one quiz. Laboratory fee $1.00. Second semester, 3 credits. (Not offered in 1935-36.)

256 Principles of Agronomy
Wilsie
A study of the botany of crop plants and the principles underlying the economic production of field and garden crops. Consideration will be given
Courses of Instruction

67

Courses of Instruction

to the gross morphology, systematic relationships and ecology of the more important species. The principles of crop production, crop rotation, and the maintenance of soil fertility will be studied. Two lecture hours and one laboratory period per week. Prerequisites: Botany 101, Chemistry 101; Botany 102 and 106 desired. Required of all Juniors in Agriculture. Laboratory fee $2.00. First semester, 3 credits.

257 Feeds and Feeding
Henke
A detailed study of the feeding of all kinds of farm and plantation animals. Lectures, problems and recitations. First semester, 3 credits. (Alternates with Agriculture 253. Offered in 1935-36.)

258 Pineapple Field Practice
P.P.C.A. Station Staff
Properly qualified students will be recommended for eight 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 but when so used the total credits for graduation are increased as stated on page 51. Advised as prerequisite for Agriculture 260. 6 credits.

259 Poultry Husbandry
Blee
Special problems largely in the field of poultry husbandry research. Individual work; course not conducted as a class exercise. First or second semester. Credit by arrangement.

260 Pineapple Production
King
A general study of pineapple production. Prerequisite: Botany 101 and 106, Zoology 150 or its equivalent, Chemistry 101 or 102, and Agriculture 250. Laboratory fee $2.00. First semester, 4 credits.

262 Advanced Genetics
Collins
A study of the organization of the germinal materials. Methods and results of modification of germinal materials. The course is designed primarily for those who expect to make genetics a major study and for those who expect to be engaged in academic or experiment station work. Two lectures a week, problems, assigned readings, field trips, and demonstrations. Prerequisite: Agriculture 254. Second semester, 3 credits.

264 Seminar in Animal Nutrition
Henke
A study of recent investigations in the field of animal nutrition. A major part of the course will be assigned topics on which the students will thoroughly review the literature on the subject and present reports to the class. Prerequisites: Agriculture 257 and sufficient training in chemistry. The consent of the instructor is required. One class meeting each week. (Offered in alternate years. Offered in 1935-36.) Second semester, 1 credit.

265 Agricultural Thesis
Henke and Agricultural Staff
Advanced individual work in field and laboratory, with accompanying library work. First and second semesters, credit by arrangement.

267 Soil Chemistry
Magistad
The soil as a source of plant food, relations of organic matter and base exchange to soil fertility, and manufacture, composition and use of commercial fertilizers. Prerequisites: Chem. 151, 152; Agr. 250; Bot. 106, 151. One lecture and one three-hour laboratory period each week. Laboratory fee $3.00. Second semester, 2 credits.
269 Agricultural Studies of Tropical Countries
Westgate
Soil, climate, and crop production studies of the principal tropical countries of the world including general studies as to labor and health conditions, marketing problems, etc. Three recitations or lectures per week. Prerequisite: Agriculture 251. Second semester, 3 credits.

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. Laboratory fee $1.00. Second semester, 4 credits. (Not offered in 1935-36.)

300 Research Work
Henke and Agricultural Staff
Situated in a climate where out-of-doors 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.

351 Seminar in Tropical Agriculture
Westgate
Individual assignments as to special agricultural studies of particular crops and countries including problems of insect and plant disease control, marketing, utilization, etc. Two class meetings per week. Prerequisite: Agriculture 251. Second semester, 3 credits.

ANTHROPOLOGY

200 The Emergence of Man
Keesing
An introduction to the study of racial and cultural backgrounds, with special reference to the methods and findings of physical anthropology and prehistoric archaeology. First semester, 3 credits.

201 Man and Culture
Keesing
An introduction to social anthropology and ethnology, including a comparative study of human customs and ideas, with special reference to primitive peoples. Second semester, 3 credits.

250 Old Polynesia
Keesing
The Polynesians and their life prior to the coming of western civilization. (Not offered in 1935-1936.)

251 Changing Polynesia
Keesing
The modern experience of the Polynesians, showing forces making for change and conservatism, and the present day problems of adjustment within the larger world setting. (Not offered in 1935-1936.)

252 Peoples of the Pacific
Keesing
The human backgrounds of the Pacific Ocean area, with special reference to Malaysia, Melanesia, Micronesia and Polynesia. First semester, 2 credits.

253 Pacific Peoples and Western Civilization
Keesing
Racial contacts and cultural changes, especially among the non-autonomous and backward peoples. The possible contributions of anthropology towards solving the problems of modern adjustment will be discussed. Second semester, 2 credits.

300 Advanced Reading and Research
Keesing
Open to qualified students who secure the approval of the instructor. Credit to be arranged.
Courses of Instruction

ART

Art Appreciation and History

150-151 Art Structure Rempel
The study of the elements and principles underlying all art. First semester, exercises in line, mass, and color harmony to stimulate appreciation. Second semester, advanced exercises in composing abstract and naturalistic forms. Two periods. Studio. First and second semesters, 2 credits each. This is a fundamental course, upon which all other courses are based, and is prerequisite to all advanced work. Students who apply for advanced standing or for exemption from any art course must submit examples of previous work.

250-251 History of Art Schenck
A survey of the origin and development of the fine arts, dealing with painting, sculpture and architecture as reflection of the cultural forces at work in each of the great periods of history. The first semester is devoted to Ancient and Medieval Art with special emphasis on the art of Greece and French Gothic. The second semester covers, first, the development of art from the Renaissance to modern times, and second, Oriental art. These courses are open to all students of Junior standing. Lectures, lantern slides and museum trips. First and second semesters, 2 credits each.

Crafts

175 Textile Decorations Rempel
Advanced problems in tie dye, Batik, applique, etc. Prerequisites: Art 150-151. Second semester, 2 credits. (Not offered 1935-1936.)

276-277 Stage Craft and Costume Rempel
Art structure as related to the stage. Expression of mood through form and color. Designing of sets and costumes for plays. Construction, manipulation, and lighting of miniature sets. Second semester, various problems of decoration of materials, making of masks and headdresses, properties. Prerequisites: Art 150-151; 154-155. First and second semesters, 2 credits each. (First semester only, 276, offered 1935-1936.)

Design

170 Imaginative Design Rempel
Originality and power in designing developed through experience with imaginative motifs and fundamental design structure. Prerequisites: Art 150-151. First semester, 2 credits.

171 Industrial Design Rempel
Designs for specific crafts and industries including pottery, leather, metal, etc. Prerequisites: Art 150-151; 154-155; 170. Second semester, 2 credits. (Not offered 1935-1936.)

270 Advanced Composition Rempel
Creative conceptions of naturalistic forms. Prerequisites: Art 150-151, 154-155, 170. Second semester, 2 credits.

Drawing and Painting

154-155 Freehand Drawing and Beginning Painting Luquiens
Principles of perspective and the development of feeling for fine quality in line and mass drawing of still life, buildings, interiors, and furniture. Second semester, charcoal drawing and the study of the technique of water color. No prerequisites. First and second semesters, 2 credits each.
160-161 Oil Painting

Study of naturalistic form and color in oils, emphasizing composition, plane structure, and character of subject presented. First semester, still life. Second semester, the living model, head, and costume. Prerequisites: Art 154-155 or special permission of instructor. Two periods. First and second semesters, 2 credits each. Second semester Studio fee, $3.00.

266-267 Etching

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 the University. Prerequisite: Art 160-161. Two periods. Studio and outdoor work. First and second semesters, 2 credits each.

268 Landscape Painting

Basic study of naturalistic landscape in oils, emphasizing composition, color, and landscape technique. Prerequisites: Art 160-161. Two periods, out of doors and studio. First semester, 2 credits. (Not offered 1935-1936.)

269 Life Class

Drawing from the model, with a view to establishing a foundation for the imaginative use of the human figure. Prerequisites: Art 154-155. Two periods studio. Studio fee, $4.00, to cover model expense. Second semester, 2 credits. (Not offered 1935-1936.)

Illustration and Commercial Art

156 Beginning Lettering

Development of appreciation of the principles of design as they relate to problems of layout. Experimentation with various commercial forms, such as books, business cards, and letter heads, window announcements, magazine layout, and advertisements. Pen and pencil. Prerequisites: Art 150-151. (Prerequisites will be waived for students taking Business 273.) First semester, 2 credits. (Not offered 1935-1936.)

272 Beginning Illustration

Elementary problems in illustration. Prerequisites: Art 150-151, 154-155. First semester, 2 credits. (Not offered 1935-1936.)

273 Book Illustration

Illustrations of fables, legends, and imaginative tales. Prerequisites: Art 150-151, 154-155, 272. Second semester, 2 credits. (Not offered 1935-1936.)

274 Commercial Art

Art principles as they apply to such phases of merchandising as newspaper and magazine advertising, window and show case display, clothing, furniture and its arrangement, choice in textiles, color psychology, etc. Designed primarily for students of economics and business. Lectures and lantern slides. Prerequisites: Junior standing or consent of instructor for students desiring credit. Second semester, 2 credits. (Not offered 1935-1936.)

275 Commercial Illustration

Synthesis of illustration and lettering in business. Advanced problems in layout and designing of posters, magazine and newspaper ads, pamphlets, containers, trademarks, window and counter displays, etc. Prerequisites: Art 150-151, 154-155, 156, 170. Second semester, 2 credits.
Courses of Instruction

172 Interior Decoration
Rempel

A basic study of the arrangement of furniture in relation to wall and floor space, with stress on the color harmony of walls, curtains, floor coverings, and furniture. Shop and museum excursions. Prerequisites: Art 150-151. First semester, 2 credits.

173 Advanced Interior Decoration
Rempel

Original designs for complete rooms, elevations, and perspectives in color. Original designs for furniture. The study of period, peasant, Oriental, and modern furniture; its use in the average home. Prerequisites: Art 150-151, 154-155, 172. Second semester, 2 credits.

252G Art Education
Rempel

A course in the organization and administration of Art Education. Class discussions of various theories, methods, and systems of teaching art. The development of a constructive program of art education, with practical application to the work in the Junior High School. Second semester, 2 credits. (Not offered 1935-1936.)

Note:—Certain of the above courses offered by the Art Department may be repeated for credit by advanced students with the permission of the instructor.

BOTANY

101 General Botany
St. John and Botanical Staff

A study of the seed and spore plants. The structure of the members of the plant body of the seed plants, the relation of form to function, and adjustment to external conditions are given special attention during the first semester. In the second semester, a brief survey of the principal groups from algae to seed 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. One hour lecture or recitation and two periods laboratory a week. Laboratory fee $4.00 each semester. First and second semesters, 3 credits each.

102* Systematic Botany of the Flowering Plants
St. John

An introduction to the flowers that are native, introduced, or cultivated on the Hawaiian Islands. The student learns to identify the plants, learns their geographic distribution, and their useful or harmful properties. The history of taxonomy and the botanical exploration of the islands. Frequent field trips to the native forests of the mountains and the collection of specimens for herbaria. Planned to give a wide acquaintance with plants. A preparation for advanced work and an aid in teaching. Prerequisite: Botany 101. One lecture hour and two laboratory periods a week. Laboratory fee $2.50 each semester. First and second semesters, 3 credits each.

151 General Bacteriology
Allen

An introductory course in bacteriology, emphasizing the morphology, culture, and physiology of microorganisms. The major groups of bacteria are studied with respect to their characteristics, functions, and their applications to household and industrial processes. The laboratory exercises concern the various phases of bacteriological technique. Prerequisite: Botany 101 or Zoology 151. Two lecture hours and two laboratory periods each week. Laboratory fee $5.00. Second semester, 4 credits.

155* Nutrition of Plants
Bean

A course dealing with: nature of seeds; nutrition of the embryo plant during germination of the seed; development of adult from embryonic structures; intake of raw materials; and manufacture of food by the adult
University of Hawaii

plant. No prerequisites. Open to Freshmen. Not open for credit to students who have taken Botany 106. Two hours of lecture with demonstrations. Second semester, 2 credits.

156 Bacteria in Relation to the Individual and the Public Allen
A course stressing the importance of bacterial activities in everyday life. The history of bacteriology, the most important groups of bacteria, and the methods of studying bacteria, are reviewed briefly. Special attention is given to the roles that bacteria play in agriculture, the dairy industry, the supervision of water supplies, sewage disposal, the canning industries, epidemics, types of diseases, and the bacteriological treatment of the most common diseases. Open to Freshmen. Not open for credit to students who have taken Botany 151. Two lectures each week. Each semester, 2 credits.

158 Mycology Allen
A course of study on the structure, classification, and physiology of the major groups of fungi. The student becomes acquainted with the systems of classification, the taxonomic keys, and learns to identify representative forms of the fungal groups. Considerable attention is paid to the textbook treatment and the current mycological literature on these forms. Prerequisite: Botany 101 or two semesters of Zoology. One lecture hour and two laboratory periods each week. Laboratory fee $3.00. First semester, 3 credits. (Alternate years; not offered in 1935-1936.)

160° Flower and Tree Identification Fosberg
A popular course in the identification of the common cultivated plants, weeds, and native plants of the territory. Fee $2.00. No prerequisite. Open to Freshmen. Not open to students who have taken Botany 102. First semester, 2 credits.

161° Plant Geography St. John
A study of the distribution of plants throughout the world. The vegetation of forests, grasslands, deserts, tundra, mountains, and oceans, with special attention to origin, development, ecology, and economic importance. Fee $2.00. No prerequisites. Open to Freshmen. Two hours of illustrated lectures a week. First semester, 2 credits.

162 Structure of Economic Plants Weller
A study of the anatomy of the important field and garden crop plants, representative of Hawaiian agriculture. Prerequisite: Botany 101. One lecture hour and two laboratory periods each week. Laboratory fee $4.00. First semester, 3 credits. (Alternate years; not offered in 1935-1936.)

163 Physical Factors in Plant Nutrition and Growth
A study of those features of the physiology of higher green plants that permit an interpretation from the point of view of elementary physical laws. Consideration will be given to: the general nature of growth; effects of physical factors in the environment upon growth; physical properties of the cell; absorption of gases, water, and mineral salts; loss of water from the plant; ascent of sap; and the physical features of photosynthesis. Prerequisites: Botany 101 and Chemistry 101 or 102. Two lectures and two laboratory periods per week. Laboratory fee $5.00. First semester, 4 credits.

164 Metabolism of Green Plants
In this course the emphasis will be placed on the chemical transformations that occur in the plant during normal development. Photosynthesis; nitrogen metabolism; digestion and translocation of reserve substances; respiration; and growth and movement will be discussed in terms of
Courses of Instruction

elementary principles of chemistry. Prerequisite: Botany 163; Chemistry 152 recommended. Two lectures and two laboratory periods per week. Laboratory fee $5.00. Second semester, 4 credits.

200 Botanical Problems
St. John, Bean, Allen or Weller
The pursuit of any advanced botanical problem. Open to undergraduates. Can be taken repeatedly. Laboratory fee $1.00 per credit hour. Credit hours to be arranged.

210 Botanical Seminar
Botanical Staff
Presentation of seminar reports, reports upon research, or reviews of current botanical literature. Recommended for Juniors, Seniors, and Graduates, and may be taken repeatedly. One recitation hour per week. Each semester, 1 credit each.

253 Plant Ecology
St. John
A study of plants in relation to their environment, including the climatic and geographic factors. Plant sociology, comprising the origin, development, structure, and succession of plant societies. Prerequisite: Botany 102. Laboratory fee $3.00. Two lecture hours and two laboratory periods a week. Second semester, 4 credits. (Alternate years; not offered in 1935-1936.)

254 Advanced Taxonomy
St. John
A synoptical treatment of the lower Dicotyledons, from the Piperaceae to the Leguminosae, with laboratory study of the important families. Plant distribution, and the independent identification of collections. Qualified students may do part of their work in the Herbarium of the Bishop Museum. Prerequisite: Botany 102. Laboratory fee $1.00 per credit hour. One lecture hour and one or more laboratory periods each week. First semester, 2 or more credits. (Not offered in 1935-1936.)

258 Agricultural Bacteriology
Allen
A study of the role of the bacteria in nitrogen, carbon, and sulphur processes in the soil, the formation of humus, the decomposition of cellulose and nitrogenous materials, and the relation of these processes to agriculture. The latter part of the course deals with a study of the more common pathogenic soil bacteria of plants and animals. Recommended for students of agriculture. Prerequisite: Botany 151. Two lecture hours and two laboratory periods each week. Laboratory fee $3.50. First semester, 4 credits. (Alternate years; not offered in 1935-1936.)

260 Medical Bacteriology
Allen
A course designed to acquaint the student with the fundamentals of serology and the physiological reactions of the common pathogenic bacteria. The common diseases will be studied in the laboratory and presented in the lectures from the standpoint of diagnosis, therapeutic and prophylactic methods of treatment. Emphasis will also be placed on the recent theories of bacterial dissociation, life cycles, the bacteriophage phenomena, and their pathogenic relationships. Prerequisite: Botany 151. Two lecture hours and two laboratory periods each week. Laboratory fee $5.00. First semester, 4 credits. (Alternate years; offered in 1935-1936.)

263 Plant Pathology
Allen
A systematic study of plant diseases. The course deals with a discussion of topics on the rise and development of the science of plant pathology; definitions, symptoms, and classifications of plant diseases; relation of diseases to the environment; methods of investigating plant diseases; relations of insects to plant diseases; storage, transportation, and market-
ing problems arising from plant diseases; and control measures, such as the use of fungicides, disease-resistant plants, clean seed, quarantine and inspection. The more common diseases of plants are studied in the laboratory, and the etiological agents isolated and identified. Prerequisites: Botany 101 and Botany 158. One lecture hour and two laboratory periods each week. Laboratory fee $3.50. Second semester, 3 credits. (Alternate years; offered in 1935-1936.)

265 Taxonomy of the Dicotyledons St. John
A synoptical treatment of the Dicotyledons, from the Leguminorae to the Ericaceae, with reference to their gross morphology, economic value, and distribution. Prerequisite: Botany 102. One lecture hour a week. Second semester, 1 credit. (Alternate years; not offered in 1935-1936.)

267 Taxonomy of the Higher Dicotyledons St. John
A synoptical treatment of the higher Dicotyledons from the Ericaceae to the Compositae, with reverence to their gross morphology, economic value, and distribution. Prerequisite: Botany 102. One lecture hour a week. Second semester, 1 credit. (Alternate years; not offered in 1935-1936.)

268 Microtechnique Weller
A course in the principles and methods of preparing plant materials for histological and cytological study. It includes methods of killing, fixing, processing, imbedding, sectioning, staining, mounting, drawing, reconstructing, the use of the microscope, and photomicrography. Prerequisites: Botany 101, Chemistry 101. One lecture hour and two laboratory periods per week. Laboratory fee, $6.00. Second semester, 3 credits. (Alternate years; not offered in 1935-1936.)

269 Plant Anatomy Weller
A study of the structure of vascular plants. The origin and differentiation of tissues and the relation of structure to function are emphasized. Prerequisite: Botany 101; Botany 268 desirable but not required. One hour recitation, two laboratory periods a week. Laboratory fee $6.00. First semester, 3 credits. (Alternate years; offered in 1935-1936.)

270 Physiology of Bacteria Allen
A technical study of the major physiological processes carried on by bacteria and yeasts. Particular attention is given to the influence of various culture media upon the chemical composition, physiological activities and growth processes of microorganismal cells; the influence of microorganisms upon the culture environment; the mechanisms of growth and death as a result of chemical and physical factors; energy relationships (sources of energy, their utilization in synthesis and in fermentation processes), oxidation-reduction potentials and microbial enzymatic reactions. Prerequisites: Botany 106 or Zool. 291, Bot. 151 and 258 or 260, and Chem. 151 or 230. Two two-hour lectures or discussion periods per week. Second semester, 3 credits. (Alternate years; not offered in 1935-1936.)

271 Proseminar in Plant Physiology
A survey of some features of plant nutrition and growth through the medium of selected papers on the subject. The aims of this course will be to present to the student the current interpretations and problems of the subject and to develop in him the ability to evaluate critically its literature. It is not expected that all phases of the subject will be considered though the papers will be selected with a view to diversity of topics. Prerequisites: Botany 164; Botany 162 or 269 recommended. First and second semesters, 1 credit each.
272 Laboratory Practice in Advanced Physiology
Properly qualified students, by arrangement with the instructor, may pursue laboratory work in connection with Botany 256. This may take the form of selected experiments approved by the instructor, participation in research in progress, or a separate problem. Prerequisite: Botany 164. Students electing this work in Physiology should have had or should have in progress Chemistry 151. Laboratory fee $1.00 per credit hour. First and second semesters, 1 or 2 credits each.

300 Botanical Research
St. John, Bean, Allen, or Weller
Open to Graduate students who show sufficient preparation and ability to carry on studies of an investigational nature. Laboratory fee $1.00 per credit hour. Hours and credits to be arranged.

301 Physiological Seminar
Slideris
(Description listed with Graduate School of Tropical Agriculture courses.)

302 Research in the Botanical Phases of Tropical Agriculture
Open to students in the Graduate School of Tropical Agriculture. Planned for original investigations in tropical botany. Hours and credits to be arranged.

303 Plant Pathology Seminar
Linford
(Description listed with Graduate School of Tropical Agriculture courses.)

304 Research in Plant Pathology
Linford
(Description listed with Graduate School of Tropical Agriculture courses.)

CHEMISTRY
Undergraduate students majoring in chemistry are required to take the following courses: 101 or 102, 150, 152, 153, 161, 211, 212, 230; and may elect any other chemistry courses. At least one year of college physics and mathematics is strongly advised.

101 General Chemistry
Payne and Fujimoto
An introductory course in general chemistry for students without previous training in the subject. Students receiving entrance credit in chemistry are required to elect Chemistry 102. Three hours lecture and one period laboratory each week. Laboratory fee $7.00 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. Experimental lectures, recitations, and laboratory work. 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. Laboratory fee $7.00 per semester. First and second semesters, 4 credits each.

150 Qualitative Analysis
Fujimoto
A course in systematic qualitative analysis covering characteristic reactions, detection, and separation of the common basic and acidic ions. The lecture periods are devoted to a fundamental study of the theory of solutions and principles of analysis. Prerequisite: Chemistry 101 or 102. Two lectures and two laboratory periods each week. Laboratory fee $8.00. First semester, 4 credits.
151 Quantitative Analysis  
Fujimoto  
An abridged course of quantitative analysis restricted to Agricultural and Household Science students and those in Sugar Technology Agriculture branch. Prerequisite: Chemistry 101 or 102. One hour classroom and two laboratory periods a week. Laboratory fee, $8.00. Second semester, 3 credits.

152 Elementary Organic Chemistry  
Payne  
An introductory course in the chemistry of the carbon compounds dealing chiefly with fundamental principles and detailed study of the aliphatic series, but including also a brief survey of the proteins and carbohydrates. This course is elected by those students requiring only one semester of organic chemistry and those pursuing a more advanced study of the subject. Prerequisite: Chemistry 101 or 102. Three hours lecture and one laboratory period each week. Laboratory fee $9.00. First semester, 4 credits.

153 Intermediate Organic Chemistry  
Payne  
A continuation of Chemistry 152, devoted chiefly to a study of the chemistry of the aromatic and heterocyclic compounds of carbon. Prerequisite: Chemistry 152. Three hours lecture and one period laboratory per week. Laboratory fee $9.00. Second semester, 4 credits.

161° Colloidal Chemistry  
Bilger  
An introduction to the chemistry of colloids. Assigned readings and written reports are required. Open to students who have completed Chemistry 150. One class period and one laboratory period a week. Laboratory fee $4.00. Second semester, 2 credits.

211 Physical Chemistry  
Bilger  
An introductory course in 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 required that this course be taken concurrently with Chemistry 212. Prerequisites: Chemistry 150 and 230. Three hours classroom a week. First and second semesters, 3 credits each.

212 Physical Chemistry Laboratory  
Bilger  
A series of laboratory exercises in the practice of physical chemical methods. Open to students who have completed or are taking Chemistry 211. Prerequisites: Chemistry 150 and 230. This course must accompany Chemistry 211. One laboratory period a week. Laboratory fee $6.00 per semester. First and second semesters, 1 credit each.

213 Advanced Physical Chemistry Laboratory  
Bilger  
A continuation of Chemistry 212. Open only to students who have completed Chemistry 212. Permission to take Chemistry 213 must be obtained from the instructor before registration. Laboratory fee $6.00 per semester. First and second semesters, 1 credit each.

215 Chemical Literature  
Dillingham, Bilger, and Payne  
A library course in which articles appearing in current chemical periodicals are studied, and topics are assigned for reports. Prerequisites: Chemistry 101 or 102, 150, 152, 153, and 230. May be taken in conjunction with Chemistry 211, 216, and 217. One hour classroom a week. First and second semesters, 1 credit each.
Courses of Instruction

216 Advanced Quantitative Analysis  Dillingham
Primarily a laboratory course covering the analysis of such materials as foodstuffs, fertilizers, soils, sugar-house products, water, urine, etc. Prerequisites: Chemistry 101 or 102, 150, 152, 153, and 230. Usually three laboratory periods per week, but hours and credits may be arranged. Laboratory fee $6.00 per semester.

217 Advanced Organic Chemistry  Payne
A course designed to develop maturity in the literature of the carbon compounds, and manipulative technique in the laboratory. The work is chiefly laboratory with considerable emphasis on original literature surveys in connection with the assigned problems. Conferences and discussions replace formal lectures and quizzes. Prerequisites: Chemistry 153 and 230. Laboratory fee $2.00 per credit hour plus $3.00. First and second semesters, hours to be arranged, with a minimum of two credits per semester.

230 Quantitative Analysis  Fujimoto
The principles of gravimetric and volumetric analysis, calibration of volumetric apparatus, analysis of pure substances, and commercial products, determination of PH of buffer solutions by colorimetric and electrometric methods. Prerequisites: Chemistry 101 and 150 or 102 and 150. Laboratory fee, $8.00 per semester. First and second semesters, 3 credits each.

240 Honors Course in Chemistry  Members of the Staff
A student taking this course may work independently on a problem in some one advanced branch of Chemistry, such as advanced Agricultural, Biological, Organic, Physical, or Quantitative Analysis. 3 credits per semester. Prerequisites: Chemistry 101 or 102, 150, 152, 153, 230, 260. Mathematics 152, 153. Physics 102. Parallel courses: Chemistry 211 and 212. (Chemistry 260 and 261 may be included.) Laboratory fee $6.00. Hours to be arranged.

250 Organic Analysis  Payne
An introduction to the technique of organic analysis, both qualitative and quantitative. Registration is limited to graduate students or seniors intending to take graduate work. Prerequisites: Chemistry 153 and 230. Laboratory fee, $9.00. First semester, 3 credits. Hours to be arranged.

260* Biological Chemistry  Dillingham
A course consisting of lectures, recitations, and supplementary reading dealing with the chemistry of food constituents, plant and animal life, and nutrition. Prerequisites: Chemistry 101 or 102, 151, and 152. Three hours classroom a week. First semester, 3 credits.

262 Biological Chemistry Laboratory  Dillingham
A laboratory course covering experimental studies of proteins, fats, carbohydrates, enzymes, milk, urine. To be taken with Chemistry 260, primarily by Agricultural, Chemistry, Home Economics and Pre-Medical students. One laboratory period per week. Laboratory fee $5.00. First semester, 1 credit. Prerequisites: Chemistry 101 or 102, 151, 152.

261* Agricultural Chemistry  Dillingham
A course consisting of lectures, recitations, supplementary reading, and laboratory periods dealing with the chemistry of soils, fertilizers, and foods. Prerequisites: Chemistry 260 and its prerequisites. Two hours classroom and two laboratory periods a week. Laboratory fee $6.00. Second semester, 4 credits.
Note: Since the laboratory work in Chemistry 261 and Chemistry 263 is identical, students taking both courses can obtain 2 credits only for such laboratory work. Such students should register for 2 credits in Chemistry 261 and for 3 credits in Chemistry 263.

263 Food Analysis

A course dealing with the chemistry of foods; food laws, food preservation, and methods of food analysis. Primarily for Junior and Senior students in Household Science. One lecture or recitation period and two laboratory periods a week. Prerequisites: Chemistry 260 and its prerequisites. Laboratory fee $6.00. Second semester, 3 credits.

318 Chemistry Research

Dillingham, E. M. and L. N. Bilger, Payne

The conducting of a research problem and preparation of a related thesis in pure or applied chemistry. Elective course restricted to Senior and Graduate students. Hours, credits, and fees to be arranged. Laboratory fees and breakage deposits not less than $3.00 each credit per semester. Prerequisites: Chemistry 101 or 102, 150, 152, 153, 161, 230, or their equivalents. Prerequisite or parallel: Chemistry 211, 212, 216, or 217.

CIVIL ENGINEERING

(See Engineering)

ECONOMICS AND BUSINESS

Economics

123 History of Economic Institutions

Cameron

An historical survey of economic institutions from primitive times until the present. Population trends, agricultural changes, labor and manufacturing systems, evolution of capital and business organization, origin and growth of transportation facilities, development of money and banking are some of the topics discussed. Causes and effects of institutional changes and their relation to human welfare are stressed. Library fee, $1.50. First and second semesters, 3 credits each.

150-151 The Principles of Economics

Cameron

The principles that underlie consumption, production, exchange, and distribution. A brief analysis of some recent economic problems such as the control of trusts, the regulation of railways and public utilities, monetary and banking reform, etc. Library fee, 50 cents. Prerequisite: Sophomore standing. First and second semesters, 3 credits each.

250 Economic Problems of the Orient

Taylor

An analysis and evaluation of some of the more important economic problems of the major oriental countries, with special emphasis on Japan and China. Particular attention will be given to economic resources, population pressure, industrialization and trade, transportation and financial problems. Prerequisites: Economics 150-151. First semester, 3 credits. (Not offered 1935-1936.)

260 Money and Banking

Hoflich

Principles governing the functioning of money, laws controlling its value, monetary history, and present monetary system of the United States, followed by an analysis of the principles underlying sound banking and a detailed study of the banking system of the United States. Prerequisite: Economics 150-151. First semester, 3 credits.
Courses of Instruction

261 Public Finance


262-263 Practice Banking

Actual work in the Bank of Hawaii and Bishop First National Bank two afternoons each week from one o’clock until the books are balanced, accompanied by supplementary readings in bank organization and management. Open only to students who have credits in or are registered in Economics 260 and are recommended by the Group Advisor and accepted by the bank interested. First and second semesters, 2 credits each.

265 International Finance

International financial problems and policies. Financing foreign trade, principles of foreign exchange, exchange problems arising from varying monetary standards, international loans, and reparations are some of the more important topics discussed. Prerequisites: Economics 150-151 and 260 or consent of the instructor. Second semester 3 credits. (Not offered 1935-1936.)

270 Public Utilities

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. Library fee $1.50. Second semester, 3 credits.

273 Ocean Transportation

A study of ocean transportation carriers. The evolution, services, and organization of these carriers, their relation to other types of carriers, problems of competition and monopoly, the history and efforts of subsidies and indirect forms of government aid are some of the more important topics discussed. Special attention given to Pacific basin carriers. Prerequisite: Economics 150-151. Second semester, 3 credits. (Not offered 1935-1936.)

276 Trusts and Industrial Combinations

The history of industrial combinations, the economics of concentration and the evils of combination from the standpoint of both 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 1935-1936.)

281 Labor Problems

An analysis of the labor problem from the standpoints of capital, labor, and public. Phases of the subject emphasized are origin and sources of wage-earners, unemployment, wages, unionism, collective bargaining, strikes and boycotts, cooperation, socialism, and labor legislation. Prerequisite: Economics 150-151. First semester, 3 credits. (Not offered 1935-1936.)

285 Theory and Control of Foreign Trade

The theory of international trade historically considered, followed by a detailed study of its control by governments through tariffs, commercial treaties, the consular service, etc. Prerequisite: Economics 150-151. First semester, 3 credits.
291 Agricultural Economics

Lund

A brief survey of some of the more important problems of farm organization, management, marketing, and finance, with particular emphasis on the local aspects of the various problems discussed. Prerequisite: Economics 150-151 or consent of the instructor. First semester, 3 credits. (Not offered 1935-1936.)

300 Seminar in Economics

Cameron, Taylor and Hoflich

Directed reading or research in selected fields. A thesis is required. Open only to Graduates and Seniors who have displayed the ability to carry on independent work. First and second semesters. Credits given depend on the work done but in no case can a student receive more than 3 credits a semester.

Business

150-151 Elementary Accounting

Graham

A study of the fundamental principles of accounting supplemented by practice in the solution of problems. Special attention is given to the accounting problems of single proprietorship, partnership, and corporations. Prerequisite: Sophomore standing in the department of Economics and Business or permission of the instructor. First and second semesters, 3 credits each.

152-153 Elementary Accounting

Delpech

A rapid survey of the same subject matter covered in Business 150-151. Organized primarily for unclassified evening students. Scheduled only in the evening. Credit will not be allowed in both this course and Business 150-151. Prerequisite: unclassified student status or permission of the instructor. First and second semesters, 3 credits each. (Not offered 1935-1936.)

250-251 Intermediate Accounting

Graham

This course is concerned primarily with the balance sheet, its form, content, and related accounting problems such as valuation and depreciation. Attention is also given to mergers and the construction of consolidated statements. Prerequisite: A grade of at least "C" in Business 151 or 153 and Economics 150-151. First and second semesters, 3 credits each. (Not offered 1935-1936.)

252-253 Intermediate Accounting

Delpech

A rapid survey of the same subject matter covered in Business 250-251. Organized primarily for unclassified evening students. Offered only in the evening. Credit will not be allowed in both this course and Business 250-251. Prerequisites: Unclassified student status, a grade of at least "C" in Business 151 or 153 and Economics 150-151 or consent of the instructor. First and second semesters, 3 credits each.

254 Cost Accounting

Graham

An elementary study of cost accounting. Sources of costs, cost units, cost gathering, and the use of cost data are some of the more important topics discussed. Scheduled only in the evening. Prerequisites: Business 251 or 253 and Economics 150-151 or consent of the instructor. First semester, 2 credits.

255 Analysis of Financial Statements

Graham

In this course the balance sheet and profit and loss account are analyzed from the standpoint of the data to be derived from them bearing upon the financial standing of business units as investment and credit
Courses of Instruction

possibilities. Scheduled in the evening only. Prerequisites: Economics 150-151 and Business 150-151 or consent of the instructor. Second semester, 2 credits.

256 Income Tax Procedure
Federal and Territorial Income Tax laws and related accounting problems. Problems will be solved and tax returns prepared. Scheduled only in the evening. Prerequisites: Business 251 or 253 and Economics 150-151 or permission of the instructor. Second semester, 2 credits.

259 Office Procedure
Office organization and management. Particular attention is given to layout, equipment, record keeping, qualifications of manager and personnel, and efficient operation. Prerequisite: Business 151. Second semester, 2 credits. (Not offered 1935-1936.)

260-261 Business Law
This course deals in a general way with the following subjects: Nature and sources of law; judicial procedure; contracts; agency and sales; partnerships and corporations; negotiable instruments; personal and real property; suretyship and guaranty; bankruptcy; insurance. Scheduled in the evening in alternate years. Prerequisite: Junior standing or permission of the instructor. First and second semesters, 2 credits each.

264 Business Organization and Management
General principles underlying the organization and management of business. Some of the topics discussed are selection of goods, location and size, problems of expansion, legal forms of organization, customer and public relations, capital and labor policies. Prerequisite: Economics 150-151. First semester, 3 credits.

265 Corporation Finance
Problems involved in the financial administration of corporations, such as determination of capital requirements, sources of and devices used to secure capital, marketing of securities, control of capital disbursements, credit, and income. Prerequisites: Economics 150-151 and Business 150-151. Second semester, 3 credits.

266 Investments and Investment Banking
A general survey of investments and investment banking stressing the economic theory of investment, tests of investment, personnel of investors, investment credit analysis, mathematics of investment, tools of investment, types of investment institutions and their functioning in the process of investment. Prerequisites: Economics 150-151 and Business 150-151 or consent of the instructor. First semester, 3 credits. (Not offered 1935-1936.)

267 Business Cycles and Business Forecasting
An analysis of the business cycle; proposed remedies; assumptions and method involved and statistical data used in forecasting the course of the business cycle; forecasting services; applicability of forecasts to specific businesses and localities. Scheduled in the evening only. Prerequisite: Economics 150-151 or consent of the instructor. First semester, 2 credits.

268 Current Economic Problems
An attempt to isolate and evaluate the forces bearing upon the economic depression of 1929 and subsequent years and a critical survey of the panaceas for alleviation of the depression. Scheduled in the evening. Prerequisites: Economics 150-151 and Business 267 or consent of the instructor. Second semester, 2 credits.
270-271 Marketing Hoflich
A survey of the marketing structure of modern industrial society. Fundamental functions performed in the marketing process and the channels through which these functions are executed: Problems of the manufacturer, wholesaler, and retailer; market analysis and research; marketing policies. Prerequisites: Economics 150-151 and Business 150-151. First and second semesters, 3 credits each.

273 Economics of Advertising Taylor
Economic aspects of advertising. Particular attention will be given to the history and present importance of advertising, methods and media used, agencies and campaigns, costs and their measurement, social and economic effects. Prerequisites: Economics 150-151 and Business 270-271 or consent of the instructor. Second semester, 3 credits (Not offered 1935-1936.)

275 Technique of Foreign Trade Taylor
A study of the goods entering into foreign trade, accompanied by an analysis of the more important foreign markets, channels of distribution in foreign countries, export organizations, and export selling methods and policies. Pacific basin trade emphasized. Prerequisites: Economics 150-151 and Business 270-271. Second semester, 3 credits: (Not offered, 1935-1936.)

276 Economics of Retail Merchandising Taylor
Retail merchandising from the economic point of view. Topics stressed: origin of retailing, social function of the retail merchant, development and evaluation of the various retail channels, organization and management of retail business units, retail sales promotion. Prerequisites: Economics 150-151 and Business 270-271 or consent of the instructor. First semester, 3 credits. (Not offered 1935-1936.)

280 Direct Merchandising Taylor
A study of sales tactics and methods. Buying motives, prospecting, equipment, sales canvass, securing the interview, approach, demonstration, objections, closing, and types of customers are some of the subjects emphasized. Consideration is also given to the more important problems of particular kinds of personal selling as insurance, real estate, etc. Prerequisite: Economics 150-151 and Business 270-271. First semester, 2 credits. (Not offered 1935-1936.)

291 Statistics Hoflich
Statistical indices of business conditions, average and means of their determination, graphic presentation, elimination of seasonal variation and secular trend, moving averages, dispersion, skewness, correlation, etc. Pre- requisite: Junior standing and permission of the instructor. Second semester, 3 credits.

300 Seminar in Business Cameron, Graham, and Hoflich
Directed reading or research work in selected fields. Open only to Graduates and Seniors who have displayed the ability to carry on independent work. First and second semesters. Credits given depend on the work done but in no case can a student receive more than 3 credits a semester.

ENGINEERING

Civil Engineering

C. E. 101 Surveying C. Andrews
Plane surveying supplemented by lectures and drafting-room exercises. The use of the chain, tape, transit, and level, and practice in the mani-
Courses of Instruction

pulation 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. Prerequisites: M. D. 101, Mathematics 104 or 150 and 151. Required of Freshmen in Civil Engineering; Sophomores in Sugar Technology, Agricultural division. Elective for Sophomores in Agriculture, General Science and Sugar Technology, Chemistry division. Laboratory fee $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
Webster
Lectures, laboratory, and field work. The lecture work covers the construction and maintenance of various types of roads and city pavements, special reference being made to local types. In the laboratory the student becomes familiar with the type machines used in testing road materials and the methods of performing such tests. Prerequisites: C. E. 101 and M. D. 101. Sophomores in Civil Engineering. Laboratory fee $2.00 per semester. First and second semesters, 2 credits each.

C. E. 151 Graphical Statics
C. Andrews
Lectures and drafting. The determination of the stresses in framed structures by the graphical method, using the funicular polygon and the stress diagram, are discussed in lectures. The stresses in roof and bridge trusses under vertical and inclined loads are obtained in the drafting room. Prerequisite: M. D. 101. Sophomores in Civil Engineering. Second semester, 2 credits.

C. E. 201 Surveying and Drawing
C. Andrews
Recitation and field and drafting work. The course covers 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. Prerequisites: Mathematics 106 and C. E. 101. Juniors in Civil Engineering. Laboratory fee, $2.00 per semester. First and second semesters, 3 credits. (Alternates with C. E. 227. Offered 1935-1936.)

C. E. 227 Surveying
C. Andrews
Railroad surveying, construction, and economics. Field work and recitations cover 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. Prerequisites: C. E. 101. Mathematics 106. Seniors in Civil Engineering. Laboratory fee, $2.00 per semester. First and second semesters, 3 credits each. (Alternates with C. E. 201. Not offered 1935-1936.)

C. E. 229* Municipal Engineering
Keller
The subject matter of the course includes the general principles and methods of construction and cost; city water supply; waterworks and fire protection; the methods 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. 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. Prerequisite: Mathematics 106. Juniors in Engineering. First semester, 4 credits.

C. E. 253* Structural Mechanics  C. Andrews

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

C. E. 255 Hydraulics  Keller

The more important principles of hydraulics which govern and treat of fluids at rest and hydrostatic pressure are studied. Manometers and Pitot tubes, Venturi meters, strength of pipes, pressure of water against walls and dams, flow of liquids through pipes and over weirs, loss of head, flow of water in open channels, Kutter's formula, are all included in the study of hydrokinetics. Prerequisite or parallel: C. E. 252 and 253. Juniors in Civil Engineering. Second semester, 3 credits.

C. E. 256-257 Stresses in Simple Structures  Keller

The subject is treated by means of lectures and recitations which cover the principles underlying the analysis of stresses in simple structures, including a review of the laws of statics and the application of these laws to the essential fundamentals of the theory of simple structures. Open to students who have at least junior standing in engineering. Offered in the evening primarily for engineers and practitioners in service. First or second semesters, 2 credits.

C. E. 276 Structural Design  Young

Lectures and drafting exercises, in which the student computes the stresses and designs plate girders and steel building trusses and other structural members. 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. Seniors in Civil Engineering. First semester, 3 credits.
Courses of Instruction

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 computations, the making of complete engineer's drawings, and the specifications. 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, and abutments, including 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. Prerequisites: C. E. 252 and 253. Seniors in Civil Engineering. Second semester, 3 credits.

C. E. 280 or 281 Water Analysis (may be taken either semester)
A laboratory course which covers the standard methods of making physical, chemical, and bacteriological examinations of water and sewage. Prerequisite or parallel: C. E. 229. Elective for Seniors in Civil Engineering. Either semester, credits to be arranged.

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.

C. E. 286 Building Construction
A lecture and discussion course which covers the details of general building construction, including dwellings, factories, and power plants. Part of the course is devoted to a study of the various types of dams and reservoir walls and the typical methods used in constructing them. Included in the work of the course is a series of sheets prepared by the students covering typical details for various types of building construction. Seniors in Engineering. First semester, 3 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.

Mechanical Drawing (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. The cost of materials and instruments required is about $30.00. First and second semesters, 2 credits each.
M. D. 133 Descriptive Geometry

The geometry of engineering drawing, 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. Sophomores in Civil Engineering. First and second semesters, 2 credits each.

Mechanical Engineering (M. E.)

M. E. 150 Office and Shop Methods

Lectures familiarizing the students with the type and use of machinery and tools used in pattern, forge, machine, and boiler shops; also the writing of bills of materials and methods of estimating costs. Sophomores in Civil Engineering. First semester, 2 credits.

M. E. 252 Materials of Engineering

The course is divided between lectures and recitations and covers the properties and requirements for materials used in engineering construction, including wood, iron, steel, and concrete. Methods of manufacture affecting quality of material, standard tests employed to secure the proper grade of material, and standard specifications, are included in this course. Prerequisites: Mathematics 106, M. D. 133. Juniors in Civil Engineering. First semester, 3 credits.

M. E. 282 Steam Machinery

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, Physics 102 or 150, 151. Seniors in Civil Engineering. First semester, 3 credits.

M. E. 283 Contracts and Specifications

The course is a series of lectures on contracts, and touches 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. A detailed study of typical contracts and specifications for engineering work of various kinds is taken up in the latter part of the course. Prerequisite: M. E. 282, or C. E. 229. Seniors in Civil Engineering. Second semester, 2 credits.

M. E. 284 Engineering of Sugar Plants

The course is divided between lectures and drafting-room exercises and includes 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. (Not offered in 1935-1936.)

Engineering Laboratory (X. E.)

X. E. 253 Materials Laboratory

A laboratory course which gives practice in testing the materials of construction, involving complete tests of specimens of wood, iron, steel,
and concrete. Special attention is given to the preparation and testing of specimens of concrete, both plain and reinforced. 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. Laboratory fee $5.00. Second semester, 3 credits.

**ENGLISH**

All regular students and all special students desiring to elect English 100 or 102 are given a placement test in English. All registered in the Colleges of Applied Science and Arts and Sciences who fail to make a satisfactory grade must register in English 50. Courses in English given in Teachers College are professional courses and are open only to students in that college.

**50 Elementary Composition**

An elementary course in composition to be taken by all Freshmen in the Colleges of Applied Science and Arts and Sciences 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.*

**51 Elementary Oral English**

An elementary non-credit course in reading and speaking designed for students whose spoken English is found to be unsatisfactory. Required of students conditioned in Oral English in either English 50, 100, 102, or 103. Two class meetings a week. Second semester.†

**100 Composition**

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 in the Colleges of Applied Science and Arts and Sciences. Collateral reading fee, $1.00, first semester. First and second semesters, 3 credits each.

**100B Composition**

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 first semester of their Sophomore year. Collateral Reading fee, $1.00. Second semester, 3 credits.

**100C**

This course is essentially a repetition of the second semester of English 100, and is arranged for the convenience of those who have completed English 100B. Such students may also register for English 120 or 130. First semester, 3 credits.

**102 Composition**

This course parallels English 100, and is open 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 differs

* A tuition fee of $15.00 is charged part-time students taking this course.
† A tuition fee of $10.00 is charged part-time students taking this course.
from English 100 in that less stress is laid upon the mechanics of composition and more upon reading and writing. Collateral reading fee, $1.00, first semester. First and second semesters, 3 credits each.

103 **General English**  
Coale  
(Description listed with Teachers College courses.)

106 **Principles of Public Discussion**  
Beck  
Practical training in the preparation of speeches on controversial subjects of current public interest, including the analysis of questions, the examination of reference material, bibliography building, elementary brief drawing, the composition of argumentative speeches, and the preparation of materials of refutation. Each student will be given an opportunity to participate in the University intramural forensic contests, such as the interclass debates, the oratorical contest, and the Berndt contest. Admission only by consent of the instructor or the head of the English department. First and second semesters, 2 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**  
Sinclair  
A survey of English literature from Beowulf to Wells, with special attention to the development of the ideas and ideals that have helped shape our present ways of life. In addition to the reading of some standard history of literature and collection of extracts, there will be a detailed study of at least six complete novels and plays. Required of all Sophomores in the College of Arts and Sciences, and may be elected by Sophomores in the College of Applied Science in place of English 120. Prerequisite: English 100 or 102. First and second semesters, 3 credits each.

131 **Literature of the Pacific**  
Stroven  
A survey chiefly of the literature of the South Seas, including narratives by Melville, Stevenson, London, Conrad, Maugham, Nordhoff and Hall, and other writers deserving but less well known. Attention will be directed to the effect of western civilization on native life as reflected in the literature. Open only to Freshmen and Sophomores. First and second semesters, 1 credit each.

135 **General English**  
Kluegel  
(Description listed with Teachers College courses.)

140 **Newspaper Reporting**  
Horlings  
Structure and style of the news story; general and departmental newspaper writing; copy reading, proofreading and headline writing. Laboratory work on Ka Leo during the second semester. First and second semesters, 2 credits each.

145 **Journalism Laboratory**  
Horlings  
A problems course for staff members of Ka Leo. Conferences and reporting and editing on Ka Leo. Prerequisite: English 140. First and second semesters, 1 to 3 credits.
Coursés of Instruction

150-151 Oral Reading
Reading aloud in class of modern poetic and dramatic selections, with special attention to correctness of speech and interpretation of meaning. Not open for credits to Juniors or Seniors. First and second semesters, 2 credits each.

160-161 Play Production
A practical course dealing with make-up, scenery, costume design, lighting, properties, stage management. Designed to prepare for the production of school, club, or community plays in all their phases. First and second semesters, 3 credits each.

162-163 Modern Drama
A critical reading of selected modern plays with special emphasis upon dramatic values. First and second semesters, 3 credits each. (Not offered in 1935-1936.)

166-167 Play Direction
A course designed to give particular attention to speech, stage presence, characterization, and pantomime. Material will be taken from standard modern plays and classics. The course is open only to those who have had at least one year’s experience in dramatics and with the permission of the instructor. First and second semesters, 3 credits each.

201 Business Correspondence and Commercial Journalism
Designed especially for students in Economics and Business. A study of principles and practices observed in business correspondence; practice in the writing of sales, credit, collection, adjustment, and application letters. Principles of publicity, practice in writing advertising folders and pamphlets and promotion articles for newspapers and magazines. Open only to Juniors and Seniors. First and second semesters, 2 credits each.

205 Public Speaking
The technique of public speaking, parliamentary practice, preparation and delivery of type speeches, mock trials, oratory, and simple debate. Extemporaneous speaking is stressed. Prerequisite: English 100 or 102. First and second semesters, 3 credits each.

206 Argumentation and Debate
Advanced work in public discussion, debate strategy, and logic, with emphasis on the perfecting of arguments and persuasive style. Each student will be given an opportunity to engage in public debates or forums arranged by the University. Prerequisites: English 100, 106, 130, and 150 or 205, and elementary courses in Political Science, History, and Economics. Admission by consent of the instructor only. First and second semesters, 2 credits each.

207 The Novel
The novel in England from Defoe to Hardy. Prerequisite: English 130 or equivalent. First and second semesters, 3 credits each. (Not offered in 1935-1936.)

208 English Prose and Poetry, 1830-1890
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. (Not offered in 1935-1936.)
210 Directed Reading Schwartz
Weekly reading, with informal class reports and discussions, of some important books which are not read in connection with other courses. The grade in the course will be determined by the amount and nature of the reading, and the quality of the reports. Open only to a limited number having the consent of the instructor. Second semester, 2 credits. (Not offered in 1935-36.)

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. Prerequisite: English 130 or equivalent. First and second semesters, 3 credits each. No credit for students receiving credit for Religion 254.

214A World Literature Sinclair
An outline course presenting in English translations the major writings of Japan, China, and India. Prerequisite: English 130 or equivalent. Library fee, $1.00. First semester, 3 credits.

214B World Literature Sinclair
This course parallels English 214, and presents in English translations the classics of Persia, Arabia, Greece, and Italy. Prerequisite: English 130 or equivalent. Library fee, $1.00. First semester, 3 credits.

215 Studies in English Biographical Literature Neil
A survey in introductory lectures, of the origin and development of the form, with detailed study of selected biographical writings, memoirs, letters, and journals. Prerequisite: English 130 or equivalent. Second semester, 3 credits.

216 European Masters Sinclair
A study of the writings in translation of sixteen European masters from Dante to Ibsen, including Cervantes, Goethe, Voltaire, Rousseau, Montaigne, Moliere, Hugo, Flaubert, Anatole France, Tolstoi, Dostoevsky, Turgenev, Bjornson, Strindberg. Lectures: reports. Library fee, $1.00. Prerequisite: English 130 or equivalent. First and second semesters, 3 credits each. (Not offered in 1935-1936.)

230 American History in American Fiction Stroven
Reading and discussion of narratives giving imaginative treatment to important aspects of American history. Designed to parallel and supplement History 242-243. Prerequisite: A course in History of the United States or permission of the instructor. First and second semesters, 1 credit each. (Not offered in 1935-1936.)

231 The Frontier in American Literature Stroven
A survey of direct contributions that westward expansion and the frontier have made to American literature. Reading and lectures. Designed to parallel History 245 (History of the West). Prerequisite: A course in history of the United States or permission of instructor. First and second semesters, 1 credit each.

237 The Teaching of English in Secondary Schools Coale
(Description listed with Teachers College courses.)

240 American Literature Andrews
The critical reading of representative poems, essays, and fiction in an endeavor to discover and appreciate the larger movements that have entered into American civilization. Prerequisite: English 130 or equivalent. First and second semesters, 3 credits each.
242 Chief Elizabethan Dramatists (Exclusive of Shakespeare)  
Schwartz  
A study of selected plays by Lyly, Marlowe, Kyd, Greene, Ben Jonson, Dekker, Beaumont and Fletcher, Webster. Alternates with English 252-253. First semester, 3 credits. (Not offered in 1935-1936.)

250 The One-Act Play  
Andrews  
A course in creative writing. The technique of the one-act play, analysis of selected plays, and the writing of original plays. Prerequisite: English 130 or equivalent. English 240 is recommended as a preparatory or parallel course. First semester, 3 credits.

251 The Short Story  
Andrews  
A course in creative writing, following English 250. The technique of the short story, analysis of selected stories, and the writing of short stories. Prerequisite: English 130 or equivalent. English 240 is recommended as a preparatory or parallel course. Second semester, 3 credits.

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.

254 Modern Poetry  
Schwartz  
A consideration of the most significant contemporary British writers of verse with special reference to recent trends of thought and belief. Prerequisite: English 130 or equivalent. Second semester, 3 credits. (Not offered in 1935-1936.)

255 The Modern Novel  
Schwartz  
The novel in England since Hardy. Prerequisite: English 130 or equivalent. Second semester, 3 credits. (Not offered in 1935-1936.)

256 Essay Writing  
Schwartz  
Creative writing in the essay form, with collateral reading of representative modern essayists. Prerequisite: English 102 and 130, or equivalents. Second semester, 3 credits. (Not offered in 1935-1936.)

260 Advanced Journalistic Writing  
Horlings  
The reporting of public affairs; law of the press; feature writing; the fact article for magazine and trade journal; the review and the editorial. Prerequisite: English 100 and 130 or English 140 or consent of instructor. First semester, 2 credits.

261 News Editing  
Horlings  
Covering local news sources; press associations; correspondents; newspaper illustration. Laboratory practice in editing and headline writing. Prerequisite: English 260. Second semester, 2 credits.

262 Eighteenth Century  
Schwartz  
A survey of the principal English writings of the Eighteenth Century (excluding the novels, but including biography, memoirs, and letters) with emphasis upon the literary, social, and political theories of the times and their influence upon modern life. Prerequisite: English 130 or equivalent. Second semester, 3 credits.
263 English Poets of the Age of Romanticism
Neil
A study of the representative work 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.

264 Creative English in the Elementary School
Coale
(Description listed with Teachers College courses.)

265 Treatments of Defects in English Usage
Coale
(Description listed with Teachers College courses.)

270 Literature for the Kindergarten-Primary Years
Kluegel
(Description listed with Teachers College courses.)

271 Literature for the Intermediate and Upper Elementary Years
Kluegel
(Description listed with Teachers College courses.)

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

FRENCH

100* Elementary Course
Carr, Le Clair
Phonetics, dictation, conversation, reading of easy prose and poetry. First and second semesters, 3 credits each.

101* Nineteenth Century French Novel
Carr, Le Clair
Reading of selected masterpieces of Hugo, Daudet, Balzac, Sand, and others. Conversation, lectures, and essays. Prerequisite: one year of French in college or two years in preparatory school. First and second semesters, 3 credits each.

200* Contemporary French Literature
Pecker
Critical study of the most modern movement in French prose, with special attention to post-war literature. Texts for use in class are imported directly from Paris. Essays, lectures, and discussions on contemporary topics. Prerequisite: two years of college French or equivalent. First and second semesters, 3 credits each.

201* Phonetics
Carr
A study of French sounds. Required of those majoring in Romance Languages. Conversation and diction. First and second semesters, 1 credit each.

202* Advanced Conversation and Composition
Pecker
A practical course in every day current French. Reading of French newspapers and magazines with discussions of various aspects of contemporary French life. Compositions on assigned topics. Prerequisite: three years of college French or equivalent. As subject matter is completely changed every year this course may be taken twice for credit. First and second semesters, 2 credits each.
Courses of Instruction

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. 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. Second semester, 2 credits.

252* Modern French Drama Pecker
Selected plays of Brieux, Hervieu, Rostand, Maeterlinck, Becque, Bernstein, etc. Rapid reading with essays, lectures, and discussions. Individual research and reports. First semester, 2 credits. (Not offered 1935-1936.)

253* Advanced French Seminar Pecker
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. Individual research and reports. Prerequisite: three years of college French or equivalent. (Not offered 1935-1936.)

260-261* Modern French Literature Pecker
Individual research in modern French literature. To be taken only with consent of instructor. Hours and credits to be arranged.

GEOGRAPHY

150 Elements of Geography Coulter, Jones
A course dealing with the fundamental relationships of people to their natural environment. Discussions of economic adjustments to climate and relief comprise the larger part of the subject matter of the course. First semester, 3 credits.

151 Economic Geography Coulter, Jones
A study of the relationship of the production of the more important raw materials of industry to natural environment and the distribution of the products in international trade. Second semester, 3 credits.

160 Laboratory Course in Geography Jones
Exercises in reading contour maps and physiographic diagrams. Emphasis is placed on the interpretation of land forms in relation to human activities. Several field trips are taken. Prerequisite: Geography 150. First semester, 2 credits.

200 Field Geography Coulter
This course comprises field and library work in human and economic geography. It includes collection, evaluation and presentation of field data. Registration only on consent of the instructor. Hours and credits to be arranged.

252 Geography of North America Coulter
A survey of the major geographic regions of North America from the standpoint of the relationship between the principal economic activities and the natural environment. Prerequisite: any one of the following, Geography 150, 151, Geography 261 (listed with courses in the Teachers College), Geology 252. First semester, 3 credits.
255 Regional Geography of the Far East
Coulter
A study of the geographic regions of Siberia, Manchuria, Japan, and China. The course deals with the natural and cultural features which in association characterize each region. Similarities and differences in the uses of the land and its resources are discussed in relation to the natural environment. Prerequisite: any one of the following, Geography 150, 151, Geography 261 (listed with courses in Teachers College), Geology 252. Second semesters, 3 credits.

261 Occupational Geography
Jones
This course consists of a series of problems based upon the occupational life of the peoples of the world, from the standpoint of adaptations to the natural environment. Available sources of material for children of the elementary schools will be considered. First or second semester, 3 credits.

262 Geography of Hawaii
Coulter
An interpretation of the economic activities in Hawaii in relation to the natural environment of the islands and the cultural background of the people. Comparisons will be made with other islands in the Pacific. First semester, 2 credits.

263 Geography of Pacific Islands
Coulter
The human and economic geography of Polynesia (except Hawaii), Melanesia, Micronesia and the Philippines. Second semester, 2 credits.

271 Political Geography
Jones
Political patterns in relation to the natural environment. A study of political areas, their boundaries, capitals, and other critical points and zones. The course also includes discussions of the economic relationships between political units. Geography 150 is a desirable prerequisite. Second semester, 2 credits.

300 Geography Seminar
Coulter, Jones
Special work in geography may be arranged for students capable of advanced study. Registration only on consent of instructor. Hours and credits to be arranged.

GEOLOGY

252* Physical Geology
Palmer
A study of the materials composing the earth and of the work of the atmosphere, streams, ground water, lakes and oceans, ice, earthquakes and volcanoes. The nature of the agents and the results they accomplish. Prerequisite: any one of the following, Botany 101, Chemistry 101 or 102, Geography 150 and 151, Physics 102 or 150 and 151, or Zoology 150. Two recitations and one laboratory period a week. Laboratory 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. Prerequisite: Geology 252 or 256. Two recitations and one laboratory period a week. Laboratory fee $1.00. Second semester, 3 credits.

254 Economic Geology
Palmer
A study of the distribution, nature, and origin of the more important metallic and non-metallic minerals used by man. Prerequisite: Geology 252 or 256. Three recitations a week. First semester, 3 credits. (Alternate years, offered in 1935-1936.)
255 Geology of Ground Water
The origin, amount, distribution, circulation, recovery, and quality of ground water. Special reference is made to Hawaiian ground waters. Prerequisite: Geology 252 or 256. Two recitations a week. Laboratory fee, $1.00. Second semester, 2 credits. (Alternate years, offered in 1935-1936.)

256 Geology for Engineers
A study of the materials of the earth, and of the modes of work and results accomplished by the various geologic agents, introduced by a brief discussion of weather and climate. Required of Juniors and Seniors in Civil Engineering. Open to others only on consent of the instructor. Three recitations a week. First semester, 3 credits. (Alternate years; not offered in 1935-1936.)

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

262 Volcanology
Lectures, assigned readings and reports on volcanoes: their classification, types of eruptions, products, structure, distribution, periodicity and underlying forces. Prerequisite: Geology 252 or 256 and prerequisite or parallel course, a year of college physics. Two recitations a week. Second semester, 2 credits. (Alternate years; not offered in 1935-1936.)

300 Geology Seminar
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. Either semester.

GERMAN

100 Elementary German
A course for beginners in the German language. Grammar developed from easy reading material. Exercise in reading and translating German. Singing of German folk songs. First and second semesters, 3 credits each.

101 Intermediate German
Continuation of German grammar according to methods used in first year. A vocabulary is built up by discussing pictures. Reading and practice of sight reading in class. In the second semester students keep a diary in German which is corrected by the instructor. First and second semesters, 3 credits each.

102 Scientific German
In this course the stress is laid entirely on sentence construction and its analysis which is practiced by weekly quizzes. The textbook used for translation is a compilation of excerpts from difficult German scientific readings. First and second semesters, 3 credits each.

200 Advanced German
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." Free compositions. This course is conducted entirely in German. (Alternates with German 201; not offered 1935-1936.) 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.

202 Advanced Scientific German
Hörmann
An advanced course in German scientific reading, with especial stress on sentence construction characteristic of scientific writing. Sight translation of scientific material is practiced in class. This course prepares for the reading requirements of an advanced degree. Students may repeat this course for additional credit for the reading matter is changed each year. Prerequisite: two years of college German or permission of the instructor. First and second semesters, 1 credit each.

HAWAIIAN

100 A First Course in the Hawaiian Language
Judd
Learning the elements of the Hawaiian language. First and second semesters, 3 credits each.

101 Second Course in the Hawaiian Language
Judd
Reviewing Hawaiian grammar. Reading "The Legend of Kawelo." First and second semesters, 3 credits each.

200 Advanced Course
Judd
Reading legends. Composition work in the language. First and second semesters, 3 credits each.

HISTORY

For courses in the History of China and Japan see Oriental Studies.

100 History of Western Civilization
Rowland, Bachman
A study of the development of modern culture, including the classical heritage, medieval contributions, expansion overseas, and present-day tendencies in Europe and America. First and second semesters, 3 credits each. Library fee, $1.00.

204 Diplomatic and Colonial History of Modern Europe
Bachman
Causes of the World War; the peace settlements. Prerequisite: History 100, Political Science 170, or the consent of the instructor. First and second semesters, 2 credits each. (Not offered 1935-1936.)

242-243 History of the United States
Rowland
A detailed consideration of the development of the United States from 1776 to the present. Prerequisite: History 100 or permission of instructor. First and second semesters, 3 credits each. (Not offered 1935-1936.)

244 Diplomatic History of the United States
Rowland
A survey of the foreign policies and diplomatic practices of the United States from 1778 to the present. Prerequisite: History 100 or permission of instructor. First and second semesters, 3 credits each.

245 History of the West
Rowland
A study of the territorial growth of the United States, including the development of frontier institutions and thought and their reaction upon American life. Prerequisite: History 100, or permission of instructor. First and second semesters, 2 credits each.
Courses of Instruction

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
</tr>
</thead>
<tbody>
<tr>
<td>246</td>
<td>History of American Dependencies</td>
<td>Rowland</td>
</tr>
<tr>
<td></td>
<td>A study of the acquisition and development of present territories and insular possessions of the United States. Prerequisite: History 100 or consent of the instructor. First semester, 2 credits.</td>
<td></td>
</tr>
<tr>
<td>253</td>
<td>History of Hispanic America</td>
<td>Rowland</td>
</tr>
<tr>
<td></td>
<td>The political, social, and economic development of the Hispanic American republics, with consideration of such topics as the Monroe Doctrine, intervention, and Pan-Americanism. Prerequisite: History 100, or consent of the instructor. First and second semesters, 2 credits each. (Not offered 1935-1936.)</td>
<td></td>
</tr>
<tr>
<td>276</td>
<td>History of the Hawaiian Islands</td>
<td>Kuykendall</td>
</tr>
<tr>
<td></td>
<td>A general course in some detail, with emphasis on the period of the monarchy. Lectures, assigned reading, and exercises. First semester, 2 credits. (Not offered 1935-1936.)</td>
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</tr>
<tr>
<td>277</td>
<td>The Pacific Region in Modern Times</td>
<td>Kuykendall</td>
</tr>
<tr>
<td></td>
<td>First contact of East and West; discovery and exploration; activities of traders and missionaries; development of European and American interests; origin of current problems. First semester, 3 credits.</td>
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</tr>
<tr>
<td>310</td>
<td>Seminar in Historical Method</td>
<td>Rowland</td>
</tr>
<tr>
<td></td>
<td>Designed to give Graduate students training in the evaluation of sources and the preparation of theses. Open to qualified seniors and unclassified students by consent of instructor. First semester, 2 credits.</td>
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</tr>
<tr>
<td>311</td>
<td>Seminar in American History</td>
<td>Rowland</td>
</tr>
<tr>
<td></td>
<td>Open to Graduates, Seniors, and Unclassified students majoring in history. Second semester, 2 credits.</td>
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</tr>
<tr>
<td>327</td>
<td>Seminar in Hawaiian History</td>
<td>Kuykendall</td>
</tr>
<tr>
<td></td>
<td>A seminar course open only by permission of the instructor to Graduate and Unclassified students. The course must be taken for both semesters. First and second semesters, 2 credits each.</td>
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</tbody>
</table>

HOME ECONOMICS

General Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
</tr>
</thead>
<tbody>
<tr>
<td>H. E. 250</td>
<td>Household Management</td>
<td>Bazore</td>
</tr>
<tr>
<td></td>
<td>A study of the practical arrangement, organization, equipment, and care of the house in relation to costs and their contribution to better family life. Special consideration to individual and family budgets. Open to Juniors and Seniors only. Two lectures, one 2½-hour laboratory period. First semester, 3 credits.</td>
<td></td>
</tr>
<tr>
<td>H. E. 251</td>
<td>Teachers’ Course in Home Economics</td>
<td>Bazore</td>
</tr>
<tr>
<td></td>
<td>A course for Home Economics majors or Home Economics teachers in service. The course will include such topics as the aims in teaching home economics, problems in the various phases of subject matter, methods of presentation, planning a course of study to fit the needs of the girl, aids in teaching, laboratory equipment, and text-books. Second semester, 2 credits.</td>
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</tr>
<tr>
<td>H. E. 252</td>
<td>Child Training</td>
<td>Erwin</td>
</tr>
<tr>
<td></td>
<td>A consideration of the importance of the pre-school years in the development of the individual and a study of a constructive program of training, with special emphasis on the normal child in the home situation.</td>
<td></td>
</tr>
</tbody>
</table>
Designed to give students a better understanding of the nature and needs of childhood. Planned especially for home economics students but open to all Juniors and Seniors. Prerequisite: Psychology 150. Second semester, 2 credits.

H. E. 253 Child Care and Home Nursing  
Gaudin and MacOwan
A course dealing with reproduction, needs of the expectant mother, child birth, care of the infant and pre-school child, normal growth of children, and minor ailments, accidents, and common diseases of children. A portion of the course will be given to the discussion and practice of home nursing. First semester, 2 credits.

H. E. 291 Practice Course in Home Management  
Bazore
Practical application of previous courses in Home Economics. Management and care of the home including planning, preparation of meals, budgeting the income, purchasing of supplies, and keeping accurate account of household expenditures. Groups of four to six students live in the house for four to six weeks under supervision of an instructor. Required for graduation of all Home Economics majors. Prerequisite: Junior or Senior standing. Fee to be arranged each year. Conferences and laboratory period. Second semester, 2 credits.

H. E. 295 Field Practice in Home Economics  
After the Junior or Senior year properly qualified students, upon the recommendation of the home economics advisor and the assistant director of the agricultural extension service, may apply for summer work under the immediate direction of a county home demonstration agent. Hours and credits to be arranged.

Household Art

H. A. 110-111 Clothing Construction  
Dahl, Wong
The fundamental processes of technique are taught by the construction of simple dresses and undergarments. Emphasis is placed upon selection, design, and the manipulation and fitting of commercial patterns. Lectures, discussions, and laboratory. Required of students in Home Economics. Laboratory fee, $3.50 per semester. First and second semesters, 2 credits each.

H. A. 112 Textiles  
Dahl
A course designed to give the consumer a knowledge and an appreciation of textiles. A study of textiles from the standpoint of production, manufacture, design, and economics. Practical household tests. A brief study of the historical development of the textile industry. Laboratory fee, $1.50. First and second semesters, 1 credit each.

H. A. 114 Dressmaking and Designing  
Dahl
The principles underlying the cutting and fitting of costumes by the drafting and modification of foundation patterns. The application of the principles of costume design and textile selection will be taught in connection with the construction of two original costumes. Lectures, discussion and laboratory work. Prerequisite: H.A. 110 and 112; prerequisite or parallel: Art 150, 153. Laboratory fee, $3.50 per semester. First and second semesters, 2 credits each.

H. A. 150-151* Costume Appreciation  
Dahl
By means of discussion and demonstration the course will develop appreciation of costume as a means of art expression. Costume is considered from the standpoint of abstract design, suitability, and expressiveness. Open to all students. Laboratory fee $1.50. First and second semesters, 1 credit each.
Courses of Instruction

H. A. 252  Millinery

The construction and trimming of hats, including the making of wire and willow frames, the copying of models and pictures of hats, and the execution of original designs. Prerequisite: H.A. 114. Laboratory fee, $5.00 per semester. Second semester, 3 credits.

H. A. 253  Advanced Dressmaking

This course includes tailoring and advanced instruction in the choice of materials and practice in the art of design and dressmaking. Prerequisite: H.A. 114. Laboratory fee, $3.50. First semester, 3 credits.

Household Science

H. S. 102  Food Economics

The selection, preparation, and comparison of foods as related to composition, cost, and season. Students are required to give some time to meal planning, serving, and demonstrations. The cost and availability of foods with regard to economic conditions, production, transportation, and marketing will be considered. Prerequisite: Chemistry 101 or 102; H.S. 150 or its equivalent. Laboratory fee $5.00 per semester. One lecture, two 2½-hour laboratory periods. First and second semesters, 3 credits each.

H. S. 150  Elementary Food Preparation

A study of the classes of foodstuffs and fundamental processes of food preparation, with emphasis on meal planning and serving. The production, manufacture, and composition of the common foods are considered in lectures. Required of all students whose placement tests show insufficient preparation to enter H.S. 102. Open to all students, no prerequisites. One lecture, two 2½-hour laboratory periods. Laboratory fee $5.00. First semester, 3 credits.

H. S. 155  Elementary Nutrition for Pre-Nursing Students

The study and application of the principles of nutrition in relation to health and disease. This course is designed for pre-nursing students only. Prerequisite: H.S. 150. One lecture, two 2½-hour laboratory periods. Laboratory fee $5.00. Second semester, 3 credits.

H. S. 200  Nutrition

A study of the nutritive requirements of man; the function of food in the body; the nutritive value of foods and their place in the diet. The course includes a study of the foods and diet of peoples of the Orient and the Pacific Islands as well as the United States. Prerequisites: Chemistry 101 or 102; Chemistry 152. Prerequisite or parallel: Chemistry 260, 262. Two lectures and one 2½-hour laboratory period. Laboratory fee $5.00 per semester. First and second semesters, 3 credits each.

H. S. 249-349  Research

Problems according to preparation of student. Investigation of nutritional problems; animal and human feeding experiments. For Seniors and Graduates. Laboratory fee $5.00 per semester. Hours and credits to be arranged.

H. S. 251  Food Investigation

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. Laboratory fee $5.00. Second semester, 2 or 3 credits.

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

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

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

2. The Queen's Hospital of Honolulu will cooperate with the Household Science Department of the University, so that Seniors or Graduates may obtain field practice as student 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 Training 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. 271 may be offered in place of H.S. 200.

H. S. 255 Cafeteria Practice

A study of problems relating to the organization and management of a school cafeteria. Practical training in menu-planning; preparation and serving of foods in large quantities; food buying; keeping simple accounts. Prerequisites: H.S. 150, H.S. 102. Conference and laboratory periods to be arranged at the University Cafeteria. First or second semester, 3 credits.

H. S. 271 Elementary Nutrition

A study of the principles of nutrition in relation to health and their application in the planning of meals for the family. Required of all Home Economics students not taking H.S. 200. Open to all Juniors and Seniors. Prerequisite: H.S. 150 or its equivalent approved by instructor. Two lectures, two 2½-hour laboratory periods. Laboratory fee $5.00. Second semester, 4 credits.

H. S. 350-351* Seminar in Nutrition

The course includes a review of current literature of interest to students of nutrition. The major part of the work is the preparation of reports and reviews of articles on assigned topics, followed by group discussion. Prerequisite: Qualified preparation in nutrition and physiological chemistry. The permission of the instructor is required for admission to the course. One meeting of 1½ hours each week. First and second semesters, 1 credit each.

See pages 55 and 56 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 elective in the Junior and Senior years if desired.

MATHEMATICS

104* Engineering Mathematics

Plane and solid analytic geometry, spherical trigonometry, and a short course in advanced algebra and differentiation. Required of Freshmen in Engineering. Prerequisites: Two years of high school algebra, one year of plane geometry, trigonometry. Solid geometry is strongly recommended but not required. First and second semesters, 5 credits each.

106* Calculus

Differential and integral calculus. Required of Sophomores in Engineering. Prerequisite: Math. 104 or 152-153. First and second semesters, 3 credits each.
Courses of Instruction

149 Algebra, Plane Trigonometry, and Analytic Geometry  Yap
Second year algebra, plane trigonometry and analytic geometry. Pre-
requisites: One year of high school algebra, and one year of plane ge-
ometry. Six hours a week. First and second semesters, 3 credits each.

150* Algebra and Plane Trigonometry  Hoy
Prerequisites: Two years of high school algebra and one year of plane
geometry. First semester, 3 credits.

151*Analytic Geometry  Hoy
Prerequisites: Two years of high school algebra, one year of plane
geometry, plane trigonometry. Second semester, 3 credits.

152-153* Analysis  Hoy
A brief course in analytic geometry, differentiation, integration, and
applications, intended to meet the needs of students of natural sci-
ence. Prerequisites: Two years of high school algebra, one year of plane ge-
ometry, plane trigonometry. First and second semesters, 3 credits each.

252-253 Advanced Calculus and Differential Equations  Hoy
Theory and applications of ordinary, total, and partial differential
equations, Fourier and other series, hyperbolic functions. Prerequisite: Math. 106. First and second semesters, not more than 3 credits each.
(In alternate years; not offered in 1935-1936.)

260 Teaching of Elementary Mathematics  Yap
A study of the principles of arithmetic, algebra, geometry, and trigo-
ometry with reference to methods of teaching. Prerequisites: High school
algebra and geometry. First semester, 2 credits. (In alternate years; offered in 1935-1936.)

272-273 History of Mathematics  Yap
A general survey of the growth of elementary mathematics by chrono-
logical periods with special attention to racial achievements. Prerequisites: Algebra, plane geometry, trigonometry. First and second semesters, 3
credits each. (In alternate years; not offered in 1935-1936.)

275* Theory of Equations  Yap
Graphing of functions. Solution of higher order equations by the
various methods. Prerequisite: Math. 149 or 150-151. Second semester, 3
credits. (In alternate years; offered in 1935-1936.)

280* Elementary Statistics  Hoy
Organization of tables, construction of bar, broken line, and curvi-
linear graphs, analysis of frequency distributions, cumulative frequency,
normal law, time series, trend and ratio charts, and simple correlation.
Prerequisites: Knowledge of elementary algebra, geometry, and loga-
rithms. First semester, 3 credits. (In alternate years; offered in 1935-1936.)

When there is a sufficient demand the following courses will also be
offered:
156 Navigation
254 Applications of Higher Mathematics in Engineering and Physical
Science
256 Infinite Series
270 Fundamental Concepts of Mathematics
281 Advanced Statistics
282 Theory of Probability
MILITARY SCIENCE AND TACTICS

All physically fit male Freshmen and Sophomores of American citizenship in regular standing in the University are required to enroll in the Basic Course of the Reserve Officers' Training Corps. In exceptional cases for sufficient reason upon the recommendation of the Professor of Military Science and Tactics, a student may be relieved from such requirement.

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 25 cents a day, approximately $145.00; at camp, the ration itself is furnished and they are paid at the rate of 70 cents a day for the six weeks.

The course of instruction for the Infantry Unit, Senior Division Reserve Officers' Training Corps

Basis for calculation of time available for instruction

Basic Advanced
Course Course

1. Minimum hours of instruction per week required by law 3 5
2. Estimated number of weeks per academic year 36 36
3. Estimated total available academic hours 96 160
4. Credits for each semester, 1st year 1 3
   Credits for each semester, 2nd year 2 3
   Credits for Advanced Course Camp 2

SUBJECTS AND SCOPE

First Year Basic Course

Subjects: Hours Allotted
Drill and Command 36
Map Reading 16
Rifle Marksmanship 15
Military History and Customs 13
Military Organization 6
Military Sanitation and First Aid 6
National Defense Act and Citizenship 4

† This requirement also applies to unclassified students, with not more than 64 credits, carrying more than 9 credits.
Courses of Instruction

Second Year Basic Course

Subjects:  
- Drill and Command ........................................... 36
- Combat Principles ............................................. 20
- Automatic Rifle ................................................. 14
- Scouting and Patrolling ..................................... 12
- Musketry ....................................................... 10
- Military History ............................................... 4

First Year Advanced Course

Subjects:  
- Combat Principles ............................................. 60
- Drill and Command ............................................. 36
- Machine Guns ................................................... 28
- 37 MM Gun and 3-in. Trench Mortar ....................... 15
- Aerial Photograph Reading .................................. 12
- Rifle Marksmanship ............................................ 5
- Automatic Pistol ............................................... 4

Second Year Advanced Course

Subjects:  
- Combat Principles ............................................. 54
- Drill and Command ............................................. 36
- Military History ............................................... 30
- Company Administration ..................................... 18
- Military Law and O.R.C. Regulations ..................... 16
- Tanks and Mechanization ..................................... 6

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, 2 for those not members of the R.O.T.C.; 1 for first year members of the R.O.T.C. and 2 for second year members.

ORIENTAL STUDIES

Chinese Language, Literature, and History

100 First Year Chinese  
Study of 250 foundation characters each semester. Reading and construction of characters and sentences, dictation, simple conversation, and translation. First and second semesters, 3 credits each.

100B Beginners' Course for Occidental Students  
Same as O.S. 100.  
(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  
Continues the study of 250 more foundation characters and idioms each semester. Reading, construction of characters and sentences, dictation, conversation, translation, and composition. First and second semesters, 3 credits each.
104  University of Hawaii

101B Intermediate Course for Occidental Students
Same as O.S. 101.

200 Third Year Chinese
Continues the study of foundation characters and idioms. Reading of short stories, poems, and newspaper articles. Letter writing, composition, and translation. First and second semesters, 3 credits each.

200B Advanced Course for Occidental Students
Same as O.S. 200.

221 Chinese Literature
Study of some of the classical and modern masterpieces of prose and poetry. This course is especially prepared for those who have finished O.S. 200 and other qualified students. First and second semesters, 2 credits each. (Not given 1935-36.)

225 History of China
A general survey of Chinese history. Study of the development of the political, social, economic, and religious institutions; China's relations with her neighbors; factors, events and forces that have hindered or hastened the development of Chinese civilization and the making of a new nation. First and second semesters, 3 credits each. (Not given 1935-1936.)

241* History of Oriental Religions
A study of the religious movements in the Orient, both ancient and modern. Lectures on Confucianism, Taoism, Buddhism, Shinto, Folk Cults, and Christian Missions in China and Japan. Library fee, $1.00 per semester. First and second semesters, 2 credits each. Permission of instructor required. (Not given in 1935-1936.)

O. S. 250-251 Chinese Literature in English
Lectures and discussions on the development of Chinese Literature. Reading of the classical and modern masterpieces of Chinese prose and verse. During the first semester a study will be made of the language with which Chinese literature is composed and of the various forms and styles of writing. The poetical works of Li Po, Tu Fu, and Po Chi I will be studied somewhat in detail. The second semester will deal with the representative prose writers of the Sung, Ming, and Tsing periods. A detailed study will be made of two historical novels—"The Romance of the Three Kingdoms" and "All Men Are Brothers" and two plays—"The Pi Pa Ki" and "The Orphan of the Chao Family." Library fee $1.00. First and second semesters, 2 credits each. Permission of instructor required. (Not given in 1935-1936.)

O. S. 254-255 Chinese Philosophy and Art
A general survey of the development of Chinese philosophy and art. The first semester will deal with the philosophy of the various schools of thought with special emphasis upon the philosophy of Naturalism and Neo-Confucianism. During the second semester a study will be made of the development of industrial and fine arts and art symbols with special emphasis upon the pictorial art and its relationship with the philosophy of life. Library fee $1.00 per semester. First and second semesters, 2 credits each. Permission of instructor required. (Given in 1935-1936.)

300 Seminar in Chinese Historical Literature
Open only by permission of the instructor to Graduate and Special students. Hours and credits will be arranged for each individual student. (Not given 1935-1936.)
Courses of Instruction

Japanese Language, Literature, and History

102 First Year Japanese
Yuehara
Reading and translation of Japanese language readers, Katakana, Hiragana, and simple Chinese characters. Dictation and composition. First and second semesters, 3 credits each.

102B First Year Colloquial Japanese for Occidental Students
Yuehara
Pronunciation and conversation, using the Romanized spelling. The use of simple words and idiomatic phrases in every day conversation. Reading and translation of Romanized readers and magazines. First and second semesters, 3 credits each.

103 Second Year Japanese
Yuehara
Reading and translation of Japanese language readers, and the learning of more Chinese characters. Dictation, composition, and letter writing. First and second semesters, 3 credits each.

103B Second Year Colloquial Japanese for Occidental Students
Yuehara
Continuation of the first year. Reading, translation, and writing in Katakana, Hiragana, and simple Chinese characters. Study of Japanese language readers and magazines. First and second semesters, 3 credits each.

202 Third Year Japanese
Yuehara

223 Japanese Literature
Yuehara
Reading of representative works in Japanese literature, with special emphasis on thought trends and beliefs. Essays, lectures, and discussions. The course is conducted in Japanese. First and second semesters, 2 credits each. (Not offered 1935-36.)

224 History of Japan
Oriental Studies Staff
A survey of Japanese history and civilization; the political, social, and intellectual development of the nation. Lectures and readings. First and second semesters, 2 credits each. (Not offered 1935-36.)

228 History of Modern Japan
Oriental Studies Staff
The modern evolution of Japan since 1868; social, economic, and political changes and international relations during the contemporary period. Prerequisite: O.S. 224 or permission of instructor. First and second semesters, 2 credits each. (Not offered 1935-36.)

240 Japanese Literature in English
Oriental Studies Staff

301 Seminar in Japanese Historical Literature
A course for Graduate students to do research work in Japanese history and literature. Hours and credits will be arranged for each individual student. (Not offered 1935-36.)
PHILOSOPHY

250-251 Introduction to Philosophy  Kelly
A survey of some of the great and persistent problems involved in man's existence and of the main solutions proposed. Prerequisite: Upper division standing. First and second semesters, 3 credits each.

260-261 History of Western Philosophy  Kelly
The story of Western Philosophy from the time of the great Greek thinkers through the Medieval period down to modern times. The second semester is devoted entirely to the study of the modern period. First and second semesters, 3 credits each.

270-271 Eastern Philosophies  Kelly
An examination of the basic philosophical movements which have arisen within eastern cultures; the philosophical systems include China, Japan, and Persia. First and second semesters, 2 credits each.

280 Logic  Kelly
A study of the typical and correct methods of logical reasoning, together with a study of some of the common fallacies; the method, difficulties, and validity of modern scientific reasoning. First semester, 3 credits.

290 Ethics  Kelly
An examination and discussion of the various ideals of life and conduct; aims to assist the student in criticizing and revising intelligently his own ideals of conduct. Second semester, 3 credits.

PHYSICAL AND HEALTH EDUCATION

All men and women under 25 years of age, who are registered for 10 or more semester hours of work, are required to take a minimum of 1 credit hour per week of physical education during the freshman and sophomore years. Attendance and the successful completion of this work is required for graduation. For Juniors and Seniors physical education is optional.

A medical and physical examination is given to every new student and others who may require it 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.

Courses of Study

100 Freshman Course (Men)  Klum, Gill, Searle
Required of all first year men. Three hours of supervised exercise a week. First and second semesters, 1 credit each.

101 Freshman Course (Women)  Gay, Waterman
Required of all first year women. Three hours of supervised exercise a week. First and second semesters, 1 credit each.

102 Sophomore Course (Men)  Klum, Gill, Searle
Required of all second year men. Three hours a week of supervised exercise. First and second semesters, 1 credit each.

103 Sophomore Course (Women)  Gay, Waterman
Required of all second year women. Three hours supervised exercise. First and second semesters, 1 credit each.
105 Swimming (Women) Gay
A. Beginners' section.
Freshmen and Sophomore women who are unable to swim, are required to register for this course in place of P.E. 101 or P.E. 103. Three hours a week. First and second semesters, 1 credit each.
B. Advanced section.
Open to all students. Three hours a week. First and second semesters, 1 credit each.

200 Junior Course (Men) Klum, Gill, Searle
Optional to all third year men. Three hours supervised exercise. First and second semesters, 1 credit each.

201 Junior Course (Women) Gay, Waterman
Optional to all third year women. Three hours of supervised exercise. First and second semesters, 1 credit each.

202 Senior Course (Men) Klum, Gill, Searle
Optional to all fourth year men. Three hours of supervised exercise. First and second semesters, 1 credit each.

203 Senior Course (Women) Gay, Waterman
Optional to all fourth year women. Three hours of supervised exercise. First and second semesters, 1 credit each.

220-222 Physical and Health Education Waterman
A study and practice of what constitutes a proper physical education and health program for children in elementary schools. Two hours a week. First and second semesters, 1 credit.

261 Football Klum
A course in theory and practice of the fundamentals of football for prospective coaches. Details of each position, training, managing and the technique of developing offensive and defensive tactics. Registration contingent upon the consent of the instructor. Second semester, 2 credits.

262 Intramural Athletics Gill
A course in organization, administration and the coaching of intramural athletics for boys in intermediate and secondary schools. First semester, 2 credits.

270 Women's Athletics Gay
This course deals with the theory and practice in coaching of team games, including basketball, volleyball, baseball, tennis and swimming. Registration contingent upon the consent of the instructor. First semester, 2 credits.

PHYSICS

Students taking courses including laboratory work in the Department of Physics are charged, uniformly, fees of $4.00 per laboratory credit hour.

102 General Physics Kirkpatrick and Miyake
Prerequisites: Mathematics 149, 151, or the equivalent. Two lecture-recitation periods, one two-hour problem working period and one laboratory period a week throughout the year. This course is regularly taken by pre-medical students. First and second semesters, 4 credits each.
150 **Mechanics and Properties of Matter**  
Parallel course: Mathematics 106. Three lecture-recitation periods and one laboratory period weekly. This is a required course for Sophomore students in Engineering. First semester, 4 credits.

151 **Heat and Light**  
Parallel course: Mathematics 106. Three lecture-recitation periods and one laboratory period weekly. This is a required course for Sophomore students in Engineering. Second semester, 4 credits.

153 **Elementary Radio**  
Prerequisite: High school physics or the equivalent. This course deals with the fundamentals of radio. It is planned to familiarize the student with the elementary theory, design and construction of radio receiving sets and audio amplifiers. Two lecture periods and one laboratory period per week. Offered in the evening. First semester, 3 credits.

155 **Electrical Instruments and Machinery**  
A non-mathematical treatment of the principles of operation and construction of direct and alternating current instruments and machinery, and their use in electrical circuits. Lectures, demonstrations and discussion. Offered in the evening. First semester, 2 credits.

157 **Radio**  
Prerequisite: Physics 153. This course is a continuation of Physics 153. It will deal with more advanced radio theory and practice leading the student into the construction, design and repair of modern A.C. receiving sets and audio amplifiers. One lecture period and one laboratory period per week. Offered in the evening. Second semester, 2 credits.

202 **Electrical Engineering**  
Prerequisite: Physics 250. Two lecture periods and one laboratory period a week throughout the year. This is a required course for Senior students in Engineering. The first semester work consists of the study of direct current circuits and machinery, the second semester being devoted to alternating current circuits and machinery. First and second semesters, 3 credits each.

250 **Electricity and Magnetism**  
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. First semester, 3 credits.

253 **Electrical Measurements**  
Prerequisites: Physics 250 and Mathematics 106. One lecture-recitation period and two laboratory periods weekly. This is a required course for Junior students in Engineering. The work comprises the study and measurement of the fundamental electric and magnetic quantities. Second semester, 3 credits.

255 **Light**  
Prerequisites: Physics 102 or the equivalent. Survey of geometrical and physical optics, and the development of the wave and quantum theories of light. Two lectures and one laboratory period per week. First semester, 3 credits.
Courses of Instruction

257* X-Ray  
Prerequisite: Physics 102, Physics 150, 151, and 250, or the equivalent. Historical development of the knowledge and theory of x-rays; modern x-ray equipment, technique, and applications; fundamentals underlying physiological treatment; modern research problems. Two lecture-discussion periods per week, including demonstrations in the x-ray laboratory. Second semester, 2 credits.

259 Advanced General Physics  
Prerequisite: Physics 102 or the equivalent. This course is open only to students in Police Administration. Topics will be chosen for discussion from the general field of physics which have special significance in police work. Two lecture-discussion periods per week. Second semester, 2 credits

261 Advanced Physics  
Prerequisite: Physics 102 or the equivalent. Students may pursue any desired branch of physics through recommended reading with occasional consultation and written reports, or may elect to carry out some experimental problem under the supervision of the instructor. This is not primarily an honors course. Hours and credits by arrangement.

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

POLICE ADMINISTRATION

150 Organization  
Historical developments of police systems, and the present organization and functioning of the Honolulu police. First semester, 2 credits.

152 Laws of Arrest and Court Procedure  
Methods of making arrests with or without warrant. A study of criminal procedure from indictment to acquittal or conviction in the territorial or federal courts. Second semester, 2 credits.

153 Criminal Investigation  

155 Elementary Law  
Elementary jurisprudence; the substantive law and the adjective law. First semester, 2 credits.

251 Criminal Law  
Definition, nature, classification, and other elements of criminal law of primary importance to police officers. First semester, 2 credits.

254 Evidence  
A study of the kinds of evidence; primary and secondary, documentary, opinions and conclusions, confessions and admission, hearsay, declarations, res gestae, character or reputation, dying declaration, and evidence of former trial or convictions. Second semester, 2 credits.

257 Criminology  
The problem of crime and criminals; extent and cost of crime; the making of the criminal; the history of punishment; modern penal institutions with field trips to same; the machinery of justice. Second semester, 2 credits.
University of Hawaii

POLITICAL SCIENCE

150 American Government and Politics
   George
   A rapid survey of national and territorial political institutions and
   problems. Special emphasis on the duties and privileges of citizenship.
   Library fee, $1.00. First semester, 3 credits.

151 Governments of Europe and the Far East
   George
   A survey of the governmental organization and politics of the states
   of Europe and of the Far East. Library fee, $1.00. Second semester, 3
   credits.

170 International Relations and Organization
   Bachman
   The conflicts of nationality, imperialism, international trade and foreign
   policy; the development of international organization. Library fee $1.00.
   First semester, 3 credits.

171 Problems of Democracy
   George
   A study of the problems of the modern democratic state: Electoral
   problems, the direct primary, political propaganda, etc. First semester,
   2 credits.

200 Problems of the Pacific
   Bachman
   A survey of the most important political problems, both national and
   international, of the nations within the Pacific area. Prerequisites: Political
   Science 150, 151, or 170. Second semester, 3 credits.

250 Constitutional Law of the United States
   Bachman
   The general principles of American constitutional law. Emphasis on
   the question of the constitutionality of the New Deal. First and second
   semesters, 2 credits each. (Not offered 1935-36.)

252 American Political Parties
   Rowland
   A study of the organization and methods of American political parties.
   Prerequisites: Political Science 150 or 171. Second semester, 2 credits.
   (Not offered 1935-36.)

253 Conduct of American Foreign Relations
   Rowland
   A study of the machinery and methods of the State Department and
   the diplomatic and consular service of the United States. Prerequisites:
   Political Science 150-151, or consent of the instructor. Second semester,
   2 credits.

261 International Law
   Bachman
   The rules governing the intercourse of states in peace and war. Pre­
   requisite: Political Science 150, 151, or 171. First and second semesters,
   2 credits each.

266 International Relations of the Far East
   Bachman
   A survey of the foreign relations of the nations of the Far East. First
   and second semesters, 2 credits each.

271 Government of American Territories and Dependencies
   Bachman
   Legal status, federal control, governmental organization and political
   problems of the territories and dependencies of the United States with
   special emphasis on the government of Hawaii. Prerequisites: Political
   Science 150, 151. First and second semesters, 2 credits each. (Not offered
   1935-1936.)
Courses of Instruction

301 Seminar in Far Eastern International Relations  
Bachman  
Prerequisites: Senior or graduate standing and at least 15 hours of Political Science including Political Science 200 or 266. First and second semesters, 2 credits each.

306 Seminar in the Government of Pacific Dependencies  
Bachman  
Prerequisite: Senior or graduate standing and at least 15 hours of Political Science including Political Science 200 or 271. First and second semesters, 2 credits each.

PSYCHOLOGY

150 General Psychology  
Tanner  
An introductory course in psychology, offering a survey of the various aspects of human behavior. 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.

151 Applied Psychology  
Livesay  
The application of psychological principles to practical situations of life. Special attention given to the application in industrial, business, legal, and medical fields. Prerequisite: Psychology 150 or the equivalent. Second semester, 3 credits.

200 Reading or Research  
Staff  
Certain selected undergraduates may register in this course for special work on a research problem or intensive reading in some field of individual interest. Registration only by permission of staff member concerned. Either semester, credit to be arranged.

250 Educational Psychology  
Livesay  
(Described in Teachers College courses.)

252 Racial Psychology  
Porteus  
The nature and importance of racial differences as illustrated by a study of the psychology of a primitive race, and with special reference to racial research in Hawaii. Prerequisite: Psychology 150 or the equivalent. Second semester, 2 credits.

259 Child Psychology  
Smith  
(Described in Teachers College courses.)

267 Psychology and Treatment of Exceptional Children  
Smith  
(Described in Teachers College courses.)

268 Mental Hygiene  
Smith  
(Described in Teachers College courses.)

280 Social Psychology  
Babcock  
The psychology of human relations. A survey of the various psychological factors which operate to determine the behavior of an individual in his many social relationships. Prerequisite: Psychology 150 or the equivalent. First semester, 2 credits.

300 Reading or Research  
Staff  
An opportunity is offered for qualified graduate students to work on research problems or do intensive reading in some field of Psychology. Registration only by permission of the staff member concerned. Either semester, credit to be arranged.
351 Advanced Educational Psychology  
(Liveday) 
(Described in Teachers College courses.)

361 Mental Deficiency and Abnormality  
(Smith) 
(Described in Teachers College courses.)

371 Experimental Child Study  
(Smith) 
(Described in Teachers College courses.)

382 History of Psychology  
A resume of the development of psychology from ancient to modern times. Attention will center around the outstanding personalities in the field. Registration only by permission of instructor. First semester, 2 credits. (Not offered 1935-36.)

395 Modern Viewpoints in Psychology  
A survey of the various viewpoints as represented in the writings of contemporary psychologists. Registration only by permission of instructor. Second semester, 2 credits. (Not offered 1935-36.)

REligion

Certain courses in religion taken in the Hawaii School of Religion* may be credited toward graduation from the University of Hawaii, with the approval of the student's dean. Students desiring credit for work done in the Hawaii School of Religion should register the courses which they intend to take on their University registration cards, which is considered aspects of the general fields in religion.

The following suggestions are made for the help of students considering work in the school: The general orientation courses, 100 and 101, are planned to meet the needs of Freshmen. Students interested in religion as a field of study should, if possible, take the survey courses, 150 and 151, during the Sophomore or Junior year. The other courses are designed to afford the student opportunity for following out his interests in particular a written request for credit for such courses.

100 Fundamental Problems  
(Homan) 
In this course an attempt is made to consider the contribution of religion and morals to human happiness. Open to Freshmen and Sophomores only. First semester, 1 credit.

101 Problems in Religious Thought and Practice  
(Homan) 
A study of the present problems in religious thought and practice, with special attention to the religious interests and problems of the members of the class. Open to Freshmen and Sophomores only. Second semester, 1 credit.

150 Introduction to Religion  
(Homan) 
A study of the meaning and aims of religion; a brief study of the history of religion; a comparative study of some of the living religions such as: Buddhism, Christianity, Confucianism, Hinduism, Judaism and Mohammedanism. First semester, 3 credits.

151 The Nature and Function of Religion  
(Homan) 
A study of the theological nature of religion; types of religious experiences; the ethical, worship, educational and missionary functions of religion; and the general relationships between religion and psychology, philosophy and science. Second semester, 3 credits.

* The Hawaii School of Religion, though affiliated with the University, is independently supported and its affairs are managed by its own board of trustees.
Courses of Instruction

200 Old Testament Survey
Homan
A general survey of the Old Testament from a literary and philosophical viewpoint, with emphasis upon the practical values of the Old Testament for the life of today. First semester, 2 credits.

201 New Testament Survey
Homan
A general survey of the New Testament from a literary and philosophical viewpoint, with emphasis upon the practical values of the New Testament for the life of today. Second semester, 2 credits.

210 Great Religious Personalities
Homan
A careful study of some of the notable men and women in the field of religion; a character analysis of the people studied; a study of the contribution of each person to the life of today. A lecture course supplemented by selected readings. First semester, 2 credits.

211 Great Religious Literature
Homan
A study of some of the great religious literature of various periods. Biography, drama, fiction, essays and poetry are to be considered. Second semester, 2 credits.

250 Principles of Religious Education
Homan
A study of the historical background of present-day religious education; a careful consideration of principles of organization and administration; agencies of religious education; buildings and equipment; leadership training; and principles for the religious education of children, young people and adults. First semester, 2 credits.

251 Materials and Methods of Religious Education
Homan
A study of the materials and methods of religious education for worship, instruction, service and fellowship; an examination of modern educational principles and methods as they may be applied to religious education. Second semester, 2 credits.

252 Life of Jesus
Killam
A study of Roman and Jewish culture at the time of Jesus, an investigation of the gospel records, and a presentation of events in accord with scientific and philosophic standards. First or second semester, 3 credits.

254 Historical Development of the Bible
Killam
A survey course designed to acquaint the student with the facts which historical, archeological and literary research have discovered regarding the origin and development of the Hebrew and Christian Scriptures. No credit for students receiving credit for English 213. First semester, 2 credits.

256 Nature Worship in Hawaii
Handy
Religious experience, mythology, deities and ritual in relation to life and culture in Hawaii and Polynesia. Comparison with other advanced historic nature cults. First semester, 2 credits. (Not offered 1935-36.)

259 Ethics and Religion
Homan
This course is designed to give the student a basic knowledge of the principles of human conduct, an understanding of the salient ethical issues in modern life and a method of forming rational decisions concerning current personal and social problems. The relation of religion to ethics is investigated in the attempt to find the validity of religious ethics for modern life. First semester, 3 credits.
261 Psychology of Religion

This course seeks to analyze religion from the functional point of view. It does not concern itself primarily with any particular religion, but analyzes religious behavior so that the psychological aspects become more clear. It deals with evidences of religious conduct as found in everyday life, as well as with specific actions that always have had a religious name.

Prerequisite: Psychology 150 or its equivalent. First semester, 2 credits.

(Not offered 1935-1936.)

264 Modern Religious Movements

In this course an attempt is made to understand and evaluate the various tendencies in the religions of the world and their relation to the social, economic and cultural forces at work in modern society. Lectures on the recent trends are supplemented by selected readings in current literature. Each student will select one type of religion for special study. Second semester, 2 credits.

265 Modern Religious Thought

A study of the current issues in Christian thought produced by the impact of science, philosophy, industrialism and internationalism. Special attention is given to modern attitudes toward God, Jesus, prayer, conversion, the Bible, the church and immortality. Second semester, 2 credits.

RUSSIAN

100 Elementary Russian

First semester: A practical phonetic introduction followed by direct-method teaching of every-day Russian. Second semester: Reading of Tolstoy's stories in Harper's Russian Reader (University of Chicago Press). Emphasis on both pre- and post-Revolutionary realia. First and second semesters, 3 credits each.

101 Intermediate Russian

Reading of selected shorter works of Pushkin, Gogol, Tolstoy, Dostoevsky, Chekhov, and contemporary writers. Newspaper reading. First and second semesters, 3 credits each.

SOCIOLOGY

150-151 Introduction to the Study of Sociology

An orientation course. First semester: The origin and development of the moral order including custom, friendship, marriage and the family, kinship, magic, and religion. Second semester: the political and competitive orders, including the growth of the state, indigenous society and the world community, world politics, and world religion. Lectures, readings, discussions, and field study. Library fee, $1.00. First and second semesters, 3 credits each.

252 The Community

A background for the study of community problems. The processes affecting the growth of the local community. The role of various institutions, the family, church, school, and other social agencies. Patterns of delinquency and dependency within the community. Field trips in Honolulu and neighboring communities. First semester, 3 credits.

255 Social Pathology

The factors in contemporary society which condition personal and social disorganization. An introduction to the problems of crime, delinquency, dependency, degeneracy, and defectiveness. Special attention will be directed to the sociological aspects of these problems in Hawaii. Second semester, 3 credits.
Courses of Instruction

256 Race Relations in Hawaii
Lind
A summary of research findings relative to race relations in Hawaii. Interracial marriage and the amalgamation of the races. The persistence of old world traits and the assimilation of American patterns. First semester, 3 credits.

267 The Family
Glick

268 Human Migrations
Glick
The factors affecting the movement of peoples in contemporary society. The resultant racial and cultural contacts. The role of migration in civilization building. Migration and the person. The use of quantitative and life history materials in the study of migrations. Prerequisite: Sociology 150-151. First semester, 3 credits.

269 Personality and Culture
Glick
The origin and development of personality through cultural contacts. Personality as the role of the individual in the group. The function of communication, Human nature and the mores. Personal and social disorganization. The study of the person and the group through ethnological, autobiographical, and clinical materials. Prerequisite: Sociology 150-151. Library fee, $1.00. Second semester, 3 credits.

270 Population and Society
Lind
The processes by which population building and decline occur. An elementary analysis of problems and trends of population movements in the modern world. Population and Standards of living. Migration and stabilization of population. International and interracial relations and population. A statistical analysis of Hawaiian and other related population groups. Prerequisite: Sociology 150-151. Second semester, 3 credits.

272 Collective Behavior
Glick

276 Principles of Sociology
Glick
A consideration of the fundamental concepts of the field of sociology with special reference to the processes of competition, conflict, accommodation, and assimilation. The place of sociology among the social sciences. Prerequisite: Consent of instructor. Second semester, 3 credits. (Not offered 1935-36.)

280-281 Individual Research in Sociology
Staff
Open to advanced students of sociology capable of pursuing local research problems under guidance of the staff. First and second semesters. Registration by permission. Credit to be arranged.

282-283 Directed Reading in Sociology
Staff
Designed for advanced students of sociology desirous of acquainting themselves with the literature of the field. First and second semesters. Registration by permission. Credit to be arranged.
285 The Sociology of the Frontier


294-295 A General View of Social Work Findley

The principles underlying social work as revealed by social work practice. The considerations of certain undesirable social conditions and the local organizations that attempt to meet their need. Causes of these social conditions and possible preventive measures. Readings, discussions, analysis of reports, field studies of social conditions and organizations and institutions. Prerequisite: Sociology 150-151. First and second semesters, 3 credits each.

296-297 Methods In Social Case Work Glick

The purpose of the course is to develop a technique in the investigation, diagnosis, and treatment of social work cases. Open only to those who are doing work under the direction of some social agency. Readings for principles of social case work. Discussions of illustrations of the work of the students actually accomplished on the field. First and second semesters, 3 credits. (Not offered in 1935-36.)

350-351 Race and Culture Contacts in Hawaii Adams, Lind

A seminar course including lectures relating to race relations research. Intended for students engaged in the study of race and culture contacts in Hawaii. Open to senior or graduate students with permission of instructor. First and second semesters, 2 credits each.

SPANISH

100* Elementary Course Carr

Conversation and dictation. Both Castilian and Latin-American pronunciation taught. First and second semesters, 3 credits each.

101* Contemporary Spanish Literature Pecker

Works of Galdós, Valera, Pereda, Ibáñez, and others. Conversation and composition based on Waxman's "A Trip to South America." Commercial correspondence. First and second semesters, 3 credits each.

250* Spanish Classics Pecker


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. 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 1935-1936.)
**Courses of Instruction**

253 Modern Spanish Drama

Rapid reading of modern Spanish plays, with continued work in composition, diction, and conversation. This course alternates with Spanish 251. Prerequisite: Spanish 252. Second semester, 2 credits. (Not offered 1935-1936.)

**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

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, the fitting out of a sugar laboratory, and 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, 150 and 151 or 230. Required of Juniors in Sugar Technology. One lecture and two laboratory periods a week. Laboratory fee $7.00 per semester. First and second semesters, 3 credits each.

250 Sugar-House Calculations

A lecture and recitation period in which instruction is given in sugar-house calculations, in working out problems involving the yield and losses ordinarily encountered in actual factory work, and in making out typical laboratory reports such as are required by plantations in the Hawaiian Islands. Prerequisite: S. T. 201 and 253. Seniors in Sugar Technology. First semester, 1 credit.

252 Sugar Manufacture

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, crystallization 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 Juniors and Seniors in Sugar Technology. Prerequisite or parallel: S. T. 201. Three hours a week classroom. First semester, 3 credits. (Not offered 1935-1936.)

253 Summer Practice

During the summer vacation between the Junior and Senior years, students in Sugar Technology will be required to spend at least four 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 un-
der regular factory conditions. Academic credit for this will be granted on the presentation of a satisfactory report in duplicate. Prerequisite: S. T. 201. 6 credits.

255 Field Practice
Dillingham

During the second semester of the Senior year in the Agricultural Division the student does his work in the capacity of a student assistant in the Experiment Station of the Hawaiian Sugar Planters' Association. He may serve a part or all of the time at the Waipio Substation, or he may be sent out as an assistant to the field men in charge of experimental work on the various plantations. A written report in duplicate must be submitted at the end of the semester 16 credits. In order to be admitted to this course previous enrollment for at least one year in the University of Hawaii is necessary.

257 Factory Practice
Dillingham

Seniors in the Chemistry Division may spend the second semester of the 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 year in the University of Hawaii is necessary.

SURVEY COURSES

100 A Survey of the Natural Sciences
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, and (b) the Language, Literature, and Art groups of the College of Arts and Sciences, and (c) Freshmen in Teachers College. Library fee: $1.00 per semester. Three lectures a week. First and second semesters, 3 credits each.

251* History of Science
St. John

A survey of the discoveries in the physical and biological sciences and their development from ancient to modern times. Readings and reports. Prerequisites: Junior standing and two semesters of biological or physical science, one of which must include laboratory work. Library fee $2. Two lectures each week. Second semester, 2 credits. (Not offered in 1935-1936.)

ZOOLOGY

The courses in Zoology are intended to meet the needs of the general student, the prospective teacher, those preparing for the study of medicine, and the Graduate student.

A biological laboratory at Waikiki provides an excellent opportunity for the pursuance of marine biological studies by the undergraduate or Graduate student. Special investigators will be offered every possible facility for research.
Courses of Instruction

150 General Zoology Edmondson, Hamre and Staff
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 two laboratory periods a week. Laboratory fee $5.00. First semester, 4 credits.

151 Comparative Anatomy of Vertebrates Edmondson, Hamre and Staff
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 two laboratory periods a week. Laboratory fee $5.00. Second semester, 4 credits.

160-161 Mammalian Anatomy Ostergaard
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. Laboratory fee $6.00 per semester. First and second semesters, 2 credits each.

170 General Entomology Schmidt
An introductory course in the study of insects, involving studies on structure, habits, biology and classification. Emphasis is placed on those insects characteristic of Hawaii. It is the course for those expecting to take further work in Entomology or planning to teach the natural sciences. Prerequisites: Biology 135 or Zoology 150 or Botany 101. Two lectures and one laboratory period a week. Laboratory fee $2.00. First semester, 3 credits.

173 Agricultural Entomology Schmidt
This course is primarily for students interested in General Agriculture, Sugar Technology and in teaching Agriculture. All the important insects concerned with agricultural crops are studied by lecture, demonstration and reference work. The student is acquainted with sources of current information and those organizations concerned with the investigations of these insects. Prerequisites the same as for Zoology 170. Two lectures and one laboratory period a week. Laboratory fee $2.00. Second semester, 3 credits.

174 Insects Affecting the Health of Man and Domestic Animals Schmidt
A course involving those insects which are directly injurious to or act as vectors of disease of animals. Studies are made of the role of sanitation in the regulation of these insects. Emphasis is placed on their habits, distribution and control measures. Prerequisites the same as for Zoology 170. Two lectures a week. First semester, 2 credits.

180-181 Marine Ecology Edmondson
A course in ecological studies of marine organisms, in which the determination of some of the factors controlling their relations to environment will be attempted. Experimental work will be conducted both in the laboratory and on the reefs. Prerequisites: Zoology 150 and 151. Two laboratory periods a week with library reading and lectures. Laboratory fee $2.00 per semester. First and second semesters, 3 credits each.

210 Zoological Seminar Zoological Staff
Presentation of seminar reports, reports upon research, or reviews of current zoological literature. Recommended for Juniors, Seniors and Grad-
uates; may be taken repeatedly. One recitation hour a week. First and second semesters, 1 credit each.

251 Cellular Biology

Hamre

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, 151 and 260. Open to Junior and Senior students. Second semester, 2 credits.

253 Parasitology

Schmidt

A study of animal and human parasites and their relation to disease. Attention is given to the actual discovery and identification of parasites in hosts as well as a study of prepared material. A course designed to meet the requirements of general students as well as those preparing for medicine. Prerequisites: Zoology, 150 and 151. Open to Juniors and Seniors. One hour recitation and two laboratory periods. Laboratory fee $4.00. Second semester, 3 credits.

254 Insect Morphology

Schmidt

Comparative and gross morphology of insects with special attention to structures emphasized in economic and systematic entomology, and to the development, reproduction, and homologies of the various groups of insects. Prerequisites: Zoology 170. Two laboratory periods a week. Laboratory fee $2.00. First semester, 2 credits.

255 Systematic Entomology

Schmidt

History, nomenclature, classification, and taxonomic practice. Students may select a particular group and make a private collection. Prerequisite: Zoology 254. Two laboratory periods a week. Laboratory fee $2.00. Second semester, 2 credits.

257 Plant Quarantine and Inspection

Fullaway

This course is offered in cooperation with the staff of Entomologists of the Territorial Board of Agriculture and Forestry. Students are placed under the supervision of the Plant Quarantine Service and receive practical experience in plant inspection. They receive instruction in the laws and regulations, in ship and cargo inspection and in practical laboratory work. Prerequisites: Zoology 254 and 255. One lecture and two laboratory periods per week. Second semester, 3 credits.

260 Histology

Hamre

A laboratory and lecture course in the study of tissues, principles of histology and microscopic anatomy of organ systems of a limited number of vertebrate animals. Prerequisites: Zoology 150 and 151. Laboratory fee $5.00. First semester, 3 credits.

261 Vertebrate Embryology

Hamre

A laboratory and lecture course in which the principles of Embryology are illustrated by a detailed study of the development of the chick. Prerequisites: Zoology 150 and 151. Laboratory fee $5.00. Second semester, 3 credits.

262 Microtechnique

Hamre

A laboratory course involving the fixing, staining and mounting of animal tissues. Prerequisite: Zoology 260. Two laboratory periods a week. Laboratory fee $8.00. First semester, 2 credits.
270 Systematic Zoology
Edmondson
A systematic survey of the invertebrate and vertebrate fauna of Hawaii (exclusive of insects) in which structure, phylogenetic relationships and distribution are emphasized. Attention may be concentrated on one or a few groups, if desirable. Prerequisite: Two years of zoological work. Hours and credits to be arranged. Laboratory fee, $1.00 per credit hour. First and second semesters.

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. Second semester, 3 credits.

300 Research
Staff
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. Laboratory fee not less than $5.00 per semester.

301 Principles of Applied Entomology
Schmidt
A survey of problems in economic entomology from the standpoint of history as well as recent advances. This course will be given in collaboration with members of the Graduate School of Tropical Agriculture and others. Prerequisites: Zoology 254-255 or consent of instructor. Three lectures per week. First and second semesters, 3 credits each. Hours to be arranged.
TEACHERS COLLEGE

(Certain required and elective courses are not included among the following descriptions for the reason that they are offered by other colleges and departments. Descriptions of these courses will be found elsewhere in this bulletin.)

Because of the professional nature of the Teachers College courses, registration is restricted to Teachers College students except in cases where the student in another college secures permission of his Dean and the Dean of the Teachers College.

ARITHMETIC

150 The Teacher's Financial Problems
Tanner
A course designed to give the prospective teacher a background of information on such subjects as the handling of a personal checking account, simple accounting and budgeting, the Territorial Employee's Retirement System, etc., along with increased skill in the arithmetic involved. Attention is given to investment of savings. First and second semesters, 2 credits. Laboratory fee $1.00.

BIOLOGY AND NATURE STUDY

135 Biology
Brown
Observation and study of selected Hawaiian plant and animal forms in their natural environment, followed by attention to those biological questions which contribute most directly to the explanation of behavior and thus form a biological basis for the understanding of human behavior on the psychological level. First and second semesters, 2 credits each. Laboratory fee $1.00.

236 Nature Study
Brown
The work will center about the following: (1) plant and animal communities, stressing the interaction of one form of life upon another; (2) availability, cost, and importance of equipment, care of potted plants, glass and dish gardens, aquaria, etc. First or second semester, 2 credits each. Not open to students who have had Nature Study 136, or 160-161.

250 Nature Study
Brown
An advanced course in nature study including a general survey of plants and animals with special reference to island forms as related to their physical environment, followed by an adaptation of the information gained to the theme of home, community, people, food, clothing, shelter, transportation and industry. Prerequisite: One of the following courses—Biol. 136, 160, 161. 236. First semester, 2 credits.

251 Nature Study
Brown
A continuation of Biology 250, with emphasis on the geology, flora and fauna of Hawaii and the origin and phases of the development of the human race. Prerequisite: Biol. 250. Second semester, 2 credits.

EDUCATION

Basic Courses

100 Introduction to Education
Steeves, Tanner
This course is the first of a series of three which form a core of professional work running through the first two years of the student's program. These courses are constructed around practical professional prob-
Courses of Instruction

Problems beginning with those closest to the entering student and remaining so far as possible from the student's point of view practical and significant throughout. The instructor in charge of a particular section is responsible for undertaking to stimulate and help individual students to integrate their various college experiences around their professional interest. This particular course and those of the series following are intended to be unifying professional courses. First and second semesters, 3 credits each.

180 Problems of Human Behavior
   Sayers, Steeves, Tanner
   The emphasis in this course is upon the adjustive and social nature of behavior. The nature of habit is studied. The student is introduced to the problems of mental hygiene and of social psychology. The course is continuous with 100 described above. First semester, 3 credits.

181 Problems of Educational Method
   Sayres, Steeves, Tanner
   The problems dealt with in this course will be centered for the most part around such matters as differing conceptions of the meaning and place of "learning," concern for the "whole" child, thinking as method, care for individual differences, meaning and place of "subject matter." The course is continuous with 100 and 180. Second semester, 3 credits.

Comparative Education and Curriculum

280 The Kindergarten Curriculum
   Lawrence
   The course is given to a study of the principles that determine the selection of subject matter and the organization of the modern kindergarten curriculum. Some attention is given to the evolution of the modern kindergarten-primary curriculum. First semester, 2 credits.

282 The Primary Curriculum
   Smith
   In this course students work upon the problems of curriculum making in the classroom. An examination is made of a wide range of reported activities and an attempt is made to draw up a set of guiding principles for originating and developing activities. The volume entitled "Activity Program for the Primary Years," published by the Department of Public Instruction is critically examined. First semester, 3 credits.

285 The Elementary School Curriculum
   Sayers
   This course deals with the most technical problems with which the teacher has to work—those of curriculum building in the classroom. Criteria are formulated, and criticisms of various present practices are developed. Contrasting daily and weekly schedules are examined. The difficulties and dangers of the "activity" program are studied. Second semester, 3 credits.

293 Comparative Educational Practice
   Wist, Steeves
   An examination of literature descriptive of school practices in the so-called New Schools abroad and in America. Attention will be given to such school procedures in America as the Winnetka, Dalton, Francis W. Parker, Lincoln, and many others including Hanahauoli and Kawanana-koa. Study will be made of the newer schools of Germany, Russia, and Austria. First or second semester, 2 credits.

Educational Psychology

250 Educational Psychology
   Livesay
   This course deals with psychological principles underlying the educative process, and includes such topics as native endowment, transfer of training, individual differences, sex differences, and habit formation. Prerequisite: Psychology 150 or the equivalent. First semester, 3 credits.
259  Child Psychology  Smith
A consideration of the mental, emotional and social development of the child, each topic being traced through childhood and adolescence. Second semester, 3 credits.

267  Psychology and Treatment of Exceptional Children  Smith
The psychological and educational aspects of problems presented by various types of exceptional children are studied. Detailed consideration is given to the adjustments in curricula and methods desirable in work with such children. Prerequisite: Psychology 150 or the equivalent. Second semester, 3 credits. (Not offered 1935-1936.)

268  Mental Hygiene  Smith
A study of the factors that determine personality and the conditions requisite to the preservation of mental health. Special emphasis is laid on the principles underlying child care and education, and on methods of studying and helping the maladjusted child. Applications of mental hygiene to other fields are also considered. Prerequisite: Psychology 150 or the equivalent. First or second semester, 2 credits.

351  Advanced Educational Psychology  Livesay
The application of experimental evidence in the field of psychology to the major educational problems. Attention given to the bearing of recent psychological theories upon education. Registration only by permission of instructor. First or second semester, 2 credits.

361  Mental Deficiency and Abnormality  Smith
A consideration of the causes and principal types of deficiency and abnormality. This course is designed to aid in recognizing subnormal and neurotic children, and in making the proper educational adjustments. Registration only by permission of instructor. First semester, 3 credits.

371  Experimental Child Study  Smith
The course offers to qualified students an opportunity to do experimentation in the field of child psychology. Credit: 2 to 3 hours, according to amount of work done. Second semester. (Not offered 1935-1936.)

Educational Philosophy and Method

251  Principles of Secondary Education  Livesay
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; and values of the various secondary school subjects are some of the major topics considered. Prerequisite: Education 250. Second semester, 3 credits.

340  Philosophy of Education  Sayers
A re-examination of certain basic philosophic questions, the answers to which constitute the viewpoints which guide in the solution of problems of policy in education, followed by an attempt to construct a working theory of education—of administration, curriculum, method—which will serve best in a democracy. Registration by permission of the instructor. First or second semester, 3 credits.

345  Seminar in Philosophy of Education  Sayers
Advanced study of controversial problems in education. Open to a limited number who have earned from 2 to 4 credits in Education 340. First and second semesters, 2 credits each.
Courses of Instruction

395 Seminar for Probationary Teachers  Livesay, Sayers
A course designed for fifth year probationary student teachers dealing with problems of classroom procedure. Organized in sections for elementary and secondary fields. First or second semester, 2 credits.

History of Education

295 History of Education in the United States  Gordon
A study of the evolution of American education; to prepare teachers in training and students of the science of education to use the historical method in interpreting current educational movements. First or second semester, 2 credits.

296 History of Education in Hawaii  Wist
Education in primitive Hawaii, under missionary control, under monarchical control and in modern times; development of private educational institutions and of higher educational facilities. First semester, 2 credits.

350 History of Education  Tanner
A survey of the development of educational thought and practice, from the time of the Greeks down to the present, with special attention to the origins of the influences responsible for the modern school systems. Registration only by permission of instructor. First or second semester, 3 credits.

Measurement and Research

260 Statistical Method  Smith
This course covers in a practical way the statistical and graphic methods of value to the classroom teacher and school administrator. Tabulation, graphical representation, the calculation of measures of central tendency and dispersion, and the calculation and interpretation of zero order correlations. May be elected by students in the other colleges. First semester, 3 credits.

261 Educational Measurements  Smith
A study of the common errors in teachers' marks and ways of improving such marks; the use of standard educational and mental tests in school work with practice in scoring such tests and in interpreting the results; and the criteria by which to judge tests. Open to both elementary and secondary groups. Second semester, 3 credits.

300 Reading or Research  Staff
An opportunity is offered for qualified Graduate students to work on research problems or do intensive reading in some field of education. Registration allowed only after consultation with the staff members concerned. Either semester, 1 to 3 credits, depending upon the nature of the work.

380 Seminar in Research and Thesis Writing  Livesay
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.

Educational Sociology

291 Adult Education  Scott
A study of the movement, its significance for the times, and the problems of administration it raises. Considerable attention is given to the possibility of the development of a territory-wide program of adult edu-
cation in Hawaii, and to agencies, such as the parent-teacher association, available for aiding the organization of the program. Open as an elective to Seniors and Graduate students. Second semester, 2 credits.

294 Educational Sociology

An examination of those factors and situations within the contemporary school and community which play a large part in influencing man's behavior, in order to discover the conditions within which a better education may be developed. First or second semester, 2 credits.

Educational Administration

363 Educational Administration

This course is designed for both teachers and prospective administrators in elementary and secondary education. Organization and administrative control in a state or territorial system; centralization in administration; taxation for school support; the development of curricula; control and development of libraries and classroom reading materials; personnel relations within a system; classification of pupils; records and reports. Registration only by permission of instructor. Second semester, 3 credits.

390 School Organization and Management

A course designed for fifth year students dealing with the many routine problems of school administration and the teachers' relationship to them. First or second semester, 2 credits.

Practice Teaching

135 Participation In Teaching

Students are assigned as assistants to classroom teachers in Kawananakoa Experimental School and other schools for two hours a week. Designed to give the student experience that will aid him in selecting the type of work he will prepare for, and to provide illustrative experience to accompany the courses in Problems of Behavior and Problems of Educational Method. First and second semesters, 1 credit each.

235 Participation in Teaching

A continuation of Education 135. The course is designed for students in the third year of teacher preparation. The participation teaching is done in Kawananakoa Experimental School, each student being assigned to the grades of his selected curriculum. First and second semesters, 1 credit each.

253 Practice Teaching in Home Economics

Practice teaching for qualified students is arranged in Honolulu secondary schools under the direct supervision of Home Economics teachers in the Department of Public Instruction. The course consists of a short observation period followed by the teaching of a Home Economics class 5 days a week with an additional one hour weekly conference period. This course is required of all students expecting to teach Home Economics and is open only to seniors and graduates. Prerequisite or parallel H. E. 251. First or second semester, 8 credits.

254 Practice Teaching

Practice teaching in Teachers College Elementary and Intermediate School done under supervision of staff members. The practice teaching consists of nine weeks of intensive full-time teaching. First or second semester, 8 credits.
Courses of Instruction

275 Practice Teaching in Vocational Agriculture Armstrong
Practice teaching in a department of vocational agriculture. Designed for students who are fairly familiar with Hawaii's major crops. Second semester, 3 credits.

354 Probationary Teaching Livesay, Sayers
This course consists of full-time teaching under supervision in selected public schools. Required of all fifth year students. First or second semester, 14 credits.

VOCATIONAL EDUCATION

270 Agricultural Project Work Armstrong
A study of the project as an educational devise in agriculture; selecting home projects; correlating project work with classroom instruction; making project plans; project records and accounts; project summaries and reports. Each student will be expected to spend considerable time in checking over records of successful projects. Second semester, 3 credits.

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

272 Teaching Agricultural and Related Subjects Armstrong
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-recitations a week. First semester, 3 credits.

274 Methods of Teaching Vocational Agriculture Armstrong
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-recitations per week. First semester, 3 credits.

ENGLISH

103 General English Coale
The first of a two year series of courses covering work in composition and literature as correlated subjects. Attention is given to the development of informational background, critical standards, personal appreciation, and consistent habit. Oral expression and other professional aspects receive emphasis. First and second semesters, 3 credits each.

135 General English Kluegel
A continuation of English 103. First and second semesters, 3 credits each.

237 English in the Secondary School Coale
A course dealing with the teaching of English in the junior high school years. Work in reading and literature is treated during the first semester, and work in language and composition during the second semester. First and second semesters, 2 credits each.
264 Creative English in the Elementary School
Coale
A study of purposeful language activities, with emphasis upon basic conditions, typical forms of expression, and elements of effectiveness. First semester, 2 credits.

265 Remedial English in the Elementary School
Coale
A study of the problem of language and speech shortages in Hawaii, and of means needed for the discovery and treatment of deficiencies in pupils. Second semester, 2 credits.

270 Literature for the Kindergarten-Primary Years
Kluegel
A course designed to acquaint the student with literature suitable for children of the kindergarten and primary years. First semester, 1 credit.

271 Literature for the Upper Elementary Years
Kluegel
A survey of literature suitable for children of the upper years of the elementary school. Second semester, 2 credits.

280 The Sounds of English
A study of phonetic elements of the English language with demonstrations and exercises in the production of vowels and consonants and their combination in words and phrases. The course includes consideration of vowel quantities, syllable values, the melody of conversational utterance, ear training, and correct pronunciation. First semester, 3 credits.

281 Oral Reading for Teachers
A study of the principles of natural expressive speech as applied to the interpretation of the meaning and spirit of prose and poetry. Attention will be given to the use of the voice as an instrument of expression, to phrasing, emphasis, pitch, inflection, melody, and to correct diction, oral and written. Second semester, 3 credits.

282 Teaching Speech in the Schools
The work of this course will include a consideration of speech problems and activities in elementary and secondary schools, methods of classroom procedure, projects, and materials useful to the teachers and adapted to individual and classroom needs. First semester, 2 credits.

GEOPGRAPHY

261 Occupational Geography
Jones
This course consists of a series of problems based upon the occupational life of the peoples of the world, from the standpoint of adaptations to the natural environment. Available sources of material for children of the elementary schools will be considered. First or second semester, 3 credits.

262 Hawaiian Geography
Coulter
This course is designed to interpret the economic activities of the people of Hawaii today, as explained by the natural environment. Consideration will also be given to social factors, and relationships between Hawaii and other Pacific countries. Available source material for both adults and children will be examined. First semester, 2 credits.

MUSIC

152 Fundamentals of Music
Kahananui
Designed as a basic course for professionalized courses which follow. The work will include music reading in unison and parts, melodic and harmonic dictation, and a study of music theory. First and second semester, 1 credit each.
Courses of Instruction

250 Music for the Intermediate and Upper Elementary Years
Kahananui
A study of music education in the elementary school with emphasis on intermediate and upper elementary materials. The development of musical power and skill in reading; the integration of music with other subjects in the curriculum with a view to developing an understanding of music as education. Four meetings a week. First semester, 2 credits.

251 Music for the Kindergarten-Primary Years
Kahananui
A study of music materials for the kindergarten-primary years through which sensitiveness to beauty of tone and rhythm can be developed and which will lead the child to respond intelligently to musical experiences. A study of the child voice and its care. Second semester, 2 credits.

261 Music History to the Classical Period
Kahananui
A study of earlier periods of music in the light of their influence on the development of later music. Through records and assigned readings, the growth of music in relation to environment, and as influenced by changing civilization, will be traced. Second semester, 2 credits.

262 Classicism and Romanticism in Music
Kahananui
A comparison will be made between the development of art, literature and music as influenced by environment. This will involve reading representative pieces of literature, viewing outstanding art contributions (painting, sculpture, architecture) and listening to the music of representative composers. First semester, 2 credits.

263 Twentieth Century Music (Rhythmic-Atonal Age)
Kahananui
A survey of the social and political background which has influenced the development of 20th century art (painting, literature, music). A brief study of the painting and literature of the day will be made to innovations of modern composers. Second semester, 2 credits.

PHYSICAL AND HEALTH EDUCATION

135 Hygiene
Rieckman
A study of the organs of the human body with special emphasis placed upon their functions and care. The aim of the course is to give prospective teachers a physiological basis for a better understanding of their health, the hygienic problems important to the interests and needs of the community, the physical development of children. First and second semesters, 1 credit each.

220 Physical and Health Education in the Kindergarten-Primary Years
Waterman
This course deals with the classroom teacher's responsibilities and opportunities in the health and physical education of young pupils. It will also give practice in the games and dances of young children. Two hours a week. First and second semesters, 1 credit each.

222 Physical and Health Education in the Intermediate and Upper Elementary Years
Waterman
A study of what constitutes a proper health and physical education program for children between the ages of 9 and 14. Practice is given in the games and dances of children of these ages. Two hours a week. Open to women only. First and second semesters, 1 credit each.
223 Physical and Health Education in the Intermediate and Upper Elementary Years

This course is similar to 222 except that it will make more of a study of boys' athletics and give practice in these. Open to men only. First and second semesters, 1 credit each.

PRACTICAL ARTS

250 Crafts in the Primary Years

This course is intended to provide working knowledge of the various common tools and materials and of the processes in which they are employed. Emphasis upon work of the primary years. Two two-hour periods a week. Second semester, 2 credits.

251 Crafts in the Intermediate and Upper Elementary Years

A course similar to the one above, with emphasis upon work of upper elementary years. First semester, 2 credits.

270 School and Home Gardening

A course for elementary teachers. It is designed to develop ability to conduct home and school garden projects. The course includes a brief study of fertilizers, insect control, and plant propagation. Second semester, 1 credit.

SCOUTING

240 Boy Scouting

A course devoted to education for boy scout leadership. Second semester, 2 credits.

283 Girl Scout Training Course

Tenderfoot, second class, and first class badge requirements will be presented. Visits to Girl Scout troops and outdoor trips will be features of the course. Limited to Junior and Senior women. Second semester, 2 credits.

SOCIAL SCIENCE

135 Problems of the American Citizen

This course is intended to bring the student into contact with the current issues of American life and to guide him through an historical treatment of these problems to an increased understanding of the factors that have played a part in their evolution. First and second semesters, 2 credits each.

251 Social Science in the Secondary School

A course designed to give teachers of the social studies an insight into the nature and meaning of these subjects in citizenship training. Objectives to be attained, types and sources of materials, and their organization for use in the secondary school curriculum are major topics considered. Second semester, 2 credits.

271 History Materials for Children

An attempt to develop an acquaintance with types and sources of history materials suitable for use of pupils in the middle and upper elementary years. First semester, 1 credit.
GRADUATE SCHOOL OF TROPICAL AGRICULTURE

Chief emphasis in this Graduate School is placed upon the giving of individual guidance and instruction to a limited number of students who have an adequate knowledge of the sciences fundamental to the field in which they will pursue a major research problem. As a general rule, these are students who have the Master's degree or who have done professional work beyond the Bachelor's degree in the chosen field. Such individuals devote most of their time to personally supervised research work rather than the taking of organized courses of study.

The School does, however, offer a few seminar* courses for the benefit not only of its graduate students but the members of the research staffs of the several cooperating institutions, as well. The following courses are offered for the immediate future, and are open to any graduate student or staff member subject to consent of the instructor.

BOTANY

301-A The Plant and Its Environment
A Seminar in recent advances in Plant Physiology
The aim of the course is to present and discuss with a critical attitude many of the outstanding current publications bearing on various phases of theoretical and applied Plant Physiology. The course of subjects included are: (a) physicochemical properties of plant protoplasm; (b) mineral nutrition, or the absorption, movement and physiological function of the various mineral elements in plant tissues; (c) water relations, and (d) light and temperature relations. First semester each year. Requirements: Plant Physiology 256 and Chemistry 211, or its equivalent. 1 credit. Hours to be arranged.

301-B Physiological Basis of Plant Growth and Differentiation
A Seminar in recent advances in Plant Physiology
Continuation of 301-A. It presents those phases of Plant Physiology which deal with the processes responsible for the synthesis and breaking down of organic substances essential for the growth and differentiation of the various plant tissues. The subjects included are: (a) metabolic processes, that is, the processes involved in the formation of structural and energy producing substances; (b) enzymes; (c) hormones, and (d) processes responsible for the differentiation of plant tissues such as vernalization (yarovization), carbohydrate-nitrogen relations and other such relations between various other elements. Second semester, 1 credit. Hours to be arranged.

303 Plant Pathology Seminar
Linford
The plan of this seminar is to review the present knowledge in selected fields of plant pathology. A topic will be selected which is agreeable to those interested. First semester, 1 credit. Tuesday, 4 P.M.

* The attention of students is called to courses listed in the regular University Catalogue which carry credits, including the following seminars:
Botany 210. Botanical Seminar
Zoology 210. Zoological Seminar
1 credit each semester.
304 Research in Plant Pathology
Linford
Open to qualified students in the Graduate School of Tropical Agriculture with the permission of the instructor. Hours and credits to be arranged.

350 Research in Plant Physiology
Open to qualified students in the Graduate School of Tropical Agriculture with the permission of the instructor. Both semesters. Hours and credits to be arranged.

351 Plant Physiological Literature
Required of students taking course 350. The aim of the course is to encourage exhaustive studies on certain topics of advanced Plant Physiology. Both semesters. Credits will be arranged.

CHEMISTRY

302 Research in Chemistry
L. N. Bilger
Open to qualified students in the Graduate School of Tropical Agriculture with permission of instructor. Hours and credits to be arranged.

310 Seminar: Chemical and Physical Studies in Biological Fields
L. N. Bilger
Recent advances in physico-chemical, organo-chemical, and analytical problems in biological processes. Topics to be included are potentiometric measurements, radiations and chemical change, asymmetric molecular structures, chemical composition of biological substances, and spectro and X-ray methods of analysis. Prerequisite: one year of Physical Chemistry or special arrangement with instructor. 1 credit. Hours to be arranged. (Not offered first semester, 1935-1936.)

ENTOMOLOGY

302 Research in Entomology
Chapman, Carter
Open to qualified students in the Graduate School of Tropical Agriculture with the permission of the instructor. Hours and credits to be arranged.

350 Insect Ecology
Chapman
A review of autecology and synecology with special emphasis upon recent advances. A critical review of the evidence on the effects of physical and biotic factors on insects and insect populations. Discussions and assigned readings. Experimental work to be arranged by the students individually. First semester, 2 credits. Hours to be arranged.

355 Insect Transmitted Diseases of Plants
Carter
A lecture course during the first semester will develop the subject primarily from the viewpoint of the ecologist with particular reference to the interrelationships between insect vector, disease, and host plant. During the second semester the course will be conducted as a current literature seminar, but students desiring laboratory experience will be afforded the opportunity to conduct problems. First semester, 1 credit. Second semester, credits variable. Hours to be arranged.

GENETICS

300 Seminar in Genetics
Collins
The seminar will make a critical review of current, fundamental researches in the field of experimental genetics by means of reports upon assigned readings. Prerequisite: advanced study in genetics. Throughout the year, 2 credits each semester. Hours to be arranged.
Courses of Instruction

302 Research in Genetics

Open to qualified students in the Graduate School of Tropical Agriculture with the permission of the instructor. Hours and credits to be arranged.

SOIL SCIENCE

300 Nutrient Availability in Soils

Magistad

This course will be conducted as a seminar, and will deal with current literature and experiments in progress. Base exchange, nitrogen and potash availability, and methods of determining availability will be considered. First semester, 1 credit. Hours to be arranged. (Offered in 1935-1936.)

302 Research in Soil Bacteriology, Soil Chemistry or Soil Physics

Allen, Magistad, Wadsworth

Open to qualified students in the Graduate School of Tropical Agriculture with the permission of the instructor. Hours and credits to be arranged.

350 The Nitrogen Cycle

Allen

The course will be conducted as a seminar, and will include a detailed, critical, and comprehensive study of the various transformations of nitrogenous material in nature from microbiological and chemical standpoints. Practical aspects of these phases are to be stressed especially. Special attention will be paid to the current literature. First semester, 1 credit. (Offered in 1935-1936.)

351 Soil Physics and the Relation of Soil Moisture to Plant Growth

Wadsworth

The course will be conducted as a seminar, and will consider the physical properties of soils with special emphasis upon soil moisture. The second half of the semester will be spent in a study of plant and soil moisture relations as indicated by current investigations. Second semester, 1 credit. Hours to be arranged. (Not offered in 1935-1936.)

352 Bacterial Decomposition

Allen

A seminar reviewing the literature on bacterial decomposition of nitrogenous and cellulosic matter in the soil. The various groups of bacteria and fungi will be studied with regard to their prevalence in soils and their specific and combined functions in these processes. First semester, 1 credit. (Not offered in 1935-1936.)
HOLDERS OF UNIVERSITY SCHOLARSHIPS
1934-1935

Associated Women Students
Nina Cooper
Sadie Kaheaku

Daughters of the American Revolution
Rachel Howland
Edith Guild

Ke Anuenue
Sui Lan Ho

Leora Parmalee Dean
Betty Muir

Ruth Scudder
Doris Ross

Wakaba Kai
Grace Yokoi
Dorothy Teshima

Yang Chung Hui
Sau Gin Wong

Mary Dillingham Frear
Kenneth Conningham

Chinese Community
Marion Wong
George Zane (First Semester)
Kam Sing Wong (Second Semester)
Bessie Yuen
William Lee
Holders of University Scholarships

Prince Fushimi
   Gladys Arakawa
   Toshiyuki Tanimoto
   Sunao Idehara
   Larry S. Kawamura
   Francis Takemoto
   Toki Nakasone

Prince Fushimi Special and Anonymous
   Keichi Kimura
   Sueko Matsueda

Phi Beta Kappa
   Lucille Louis

Stephen Spaulding
   James Okamura

Women's Society, Central Union Church
   Harriet Monden
   Leatrice Wong
   Margaret Thoene (First Semester)
   Christina Lam (Second Semester)
   Yoriko Kaya (Second Semester)

Japanese University Women, First Semester
   Momoye Yoshida
   Fay Fukuda
   Hazel Mirikitani
   Setsu Okubo

Hawaiian Girls' Club, Y. W. C. A.
   Sara Weia
FELLOWS IN GRADUATE DEPARTMENTS

Roman Cariaga, Research Fellow, Anthropology
College of Arts and Sciences

Rosamond Cariaga, Research Fellow, History
College of Arts and Sciences

Thomas A. Jaggar, Research Fellow, Volcanology
College of Applied Science

E. A. Jones, Research Fellow, Volcanology
College of Applied Science

Kenneth Kono, Research Fellow, Chemistry
College of Applied Science

Kum Pui Lai, Research Fellow, Sociology
College of Arts and Sciences

J. Masuoka, Research Fellow, Sociology
College of Arts and Sciences

Ralph Tanimoto, Research Fellow, Bacteriology
College of Arts and Sciences
DEGREES CONFERRED
June, 1934

HONORARY DEGREES
MASTER OR ARTS
Margaret Bergen—contributed richly to the advancement of Sociology in Hawaii through wise social service and effective teaching.

REGULAR DEGREES
DOCTOR OF PHILOSOPHY
Carl T. Schmidt, B.A., University of Minnesota, 1929

MASTER OF SCIENCE
J. Vernon Harry, B.S., University of Hawaii, 1933

Ralph Henry Marlowe, B.S., Rollins College, 1928
Thesis: The Toxicity of Various Nicotine Derivatives to the Adult Ceratitis capitata Wied.

Raymond Nikaido, B.S., University of Hawaii, 1933

Ruth Colburn Robbins, B.S., University of Hawaii, 1931

*Richard Kwokkwum Tam, B.S., University of Hawaii, 1933

Spencer Tinker, B.S., University of Washington, 1931

Won Yill Whang, B.S., University of Hawaii, 1932

* Granted degree February, 1934.
University of Hawaii

MASTER OF ARTS

William Jennings Geiger, B.A., Bluffton College, 1925
Thesis: A Study of the Status of Men Teachers in the Public Schools of the United States.

Ralph Girard Geiser, B.A., Western State College, 1927
Thesis: An Analysis of the Industrial Arts Activities Carried On In the Homes of Junior High School Boys in Hawaii.

Noboru Hidaka, B.A., University of Hawaii, 1933

*Charles Kazuo Iwai, B.A., University of Hawaii, 1927

Ayako Kono, B.A., University of Hawaii, 1925
Thesis: The Effect of Language Handicap on the Achievement of Japanese Students of Junior High School Age.

†Meda Frances Lucas, B.A., University of Kansas, 1914
Thesis: Willa Sibert Cather as Interpreter of the American Scene.

*Ethel Elizabeth Lackrie-Lund, B.S., University of Minnesota, 1930

August Soren Thomsen Lund, B.S., University of Minnesota, 1928

Mable Lane Moe, B.A., University of Hawaii, 1930

Ruth Andrews Moodie, B.A., University of Hawaii, 1932
Thesis: Reading Material Used in the Public Schools of the Hawaiian Islands, 1820-1934.

Golda Pauline Moore, B.A., Park College, 1922

Shiku Ito Ogura, B.A., University of Hawaii, 1929.

Margaret Black Ross, B.A., University of Hawaii, 1927

†Llewellyn Delos Rowlands, B.S., University of Idaho, 1925

*Walter James Tait, B.A., University of California at Los Angeles, 1931

*Hsien-Ting Wang, B.A., Kwang Hua University, 1928

† Granted degree September, 1934.
* Granted degree February 1934.
Rates Conferred

BACHELOR OF SCIENCE

Agriculture
Harry Frederick Duncan, Jr.
Harold Henry Hall
Bertha Hanaoka
Norman N. Ignacio
Noboru Iwaoka
Lloyd Conkling Kaapana
Harold K. F. Lee
Richard Ka Seong Leong
Yoshimi Maeda
Richard Atsushi Masumoto
Shinji Miwa
Hisao Miyasaki
Yutaka Moriwaki
Ralph Hiroshi Tanimoto
Tadao Yoshioka

Civil Engineering
Kenji Aihara
George Preston Frazer
Lorenzo Cruz Fruto
Wing Chung Hu
Lucius F. Jenkins
Gilbert Daiji Kobatake
Walter Tsuzuku Matsumoto
Kunji Omori
Peter Hiroe Sakai
Francis Takashi Suzuki
Yoshihiko Tsumoto
Walter Chong Wong

General Science
Ray Jerome Baker
Oswald Andrew Bushnell
Edward Tamotsu Fukunaga
† Alfred Yim Kui Hew
† James Chong Suk Hong
Wataru Ishikawa
† Wallace Shinobu Kawaoka
** Harold Tamaki Kimata
Tsuneo Kinoshita
Tadao Kitamura
Kenneth Kenjiro Kono, (Honors in Chemistry)
George Francis Lemon, Jr.
† Hing Yee-Luke
Albert Kualii Lyman
Marion Chiyoko Okimoto
Kameichi Takenaka
Ernest Watanabe

Home Economics
Edna Allen
Juliette Elizabeth Andrade

† Granted degree October, 1934.
** Granted degree January, 1934.
University of Hawaii.

*Helen Kim Hoon Chun
Mary Louise Furmidge
Elsie Yachiyo Hayashi
Nora Wai Ying Leon
Gertrude Marie Spillner
Yuki Sugai
Toyo Takase
Shizuko Teramoto
Roseline Lan Kyau Tyau
Hong Lin Wong
Nora Kui Heong Wong
*Charlotte Barker Worcester

Sugar Technology
Kunwar Krishna Chandra
George Herbert Douse
William Howell
Arnold August Kruse
Ronald Tadashi Toyofuku
†Herbert Cedric Weight

BACHELOR OF ARTS

Olive Heong Dang Ai
Francis Kenneth Aiwohi
Florence Akana
*William Among
Kathleen Leinaala Arnold
Helene Rosemary Baptiste
Beth Louise Bartlett
Elizabeth Buchanan
†Roman R. Cariaga
Dorrance Chandler
†Jack Gett Chang
Wai Jane Char
Wan Sen Cheo
Chan Ching
Daisy Kam Hoong Chock
Nellie Moon Tong Chock
Kim On Chong
Nyi Young Chong
Wilfred Wah Chew Chong
Chee Kwon Chun
*Sun Oi Chun
Hattie Davis
Richard Mitsuo Dodo
Gerald Arthur Dolan
Rhoda Emma Dunn
Daniel Gould Fowle, Jr.
Sarah Elizabeth Foxall
*Margaret Lindsley Frazer
Margaret Mary Frowe
*Hajime Fujimoto
Libana Napela Furtado

* Granted degree February, 1934.
† Granted degree October, 1934.
Degrees Conferred

*Robert Hiroshi Furudera
Wilford Darington Godbold
Edith Goo
Virginia Miller Hammond
Glady Chiyoko Harada
Betty Maureen Henne
Ah Kewn Hew
†Elizabeth Margaret Holzinger
Bernard Ho Hong
Beatrice Mileka Hussey
Lorraine Mellie Husted
Roberta Marie Irving
Tamiye Ishii
†Kinue Kadota
Yoshinobu Kagawa
Richard Toshio Kainuma
Benjamin Lung Fong Kau
Elsie Kikuye Kaya
Edward Francis Kent
Soo Sun Kim
Matsuko Kinoshita
Takashi Kitaoka
Doris Mitsue Kotake
†Henrietta Concklin Krantz
*Florence Standring Kubo
*Masako Kubota
Satoe Kunioki
Hitoshi Wilfred Kurashige
(Honors in Zoology)
Barbara Whiteman Leavitt
†Genevieve Kim Len Lee
Irma Linneman
†Ainsley Kapuahelani Mahikoa
Howard Wesley Martin
Matsuko Masuda
Ayako Mihara
Jack Hifuo Mizuha
(Honors in Economics)
Kimyo Mizusaki
Takashi Morimoto
(Honors in Economics)
James Hisao Murakami
Yutaka Murakami
William Barry Murphy
*Dorothy Meu Kuon Nip
Toru Nishigaya
Satoru Nishijima
Ayame Nishimura
Chidori Ogawa
Winifred Teruko Ogawa
Kango Ohta
†Wilfred Mitsuji Oka
Suyeki Okumura
*Katsumi Onishi
Gwendolyn Lydia Osha
Robert Kazuo Ota

* Granted degree February, 1934.
† Granted degree October, 1934.
Alice Toyoko Ouchi
*Robert Sing Fat Pang
Richard Castle Pond
*Lloyd Pruett
Helen Kam Hoy Quon
Clarence Tetsuo Sakaguchi
Dorothy Takeko Sakamoto
Isamu Sato
(Honors in Political Science)
Wilhelmina Schwallie
Fumiko Segawa
Kimiye Shitamoto
Kiyoharu Shoda
†Dorothy Snodgrass
Thelma Kaululehuaokaiku Sproat
*Pauline Tai
Shuichi Takahashi
Frances Lorainne Thrasher
Hayato Togawa
Kan Lin Tom
Grace Yuen Tong
Thomas Chew Kong Tong
Dorothy Chung Fah Tyau
Lily Akiyau Tyau
*Ethel Joan Wilson
Annie Mew Yan Wong
Harlan Ah Luk Wong
Richard Kyushi Yamada
*Daisy Mitsuko Yamaguchi
†Ralph Tadashi Yamaguchi
Yukino Yamane
Marguerite Yonge
*Margaret Chuck Sum Young

BACHELOR OF EDUCATION

†Ilda Astleford
†Grace Isaacscon Berger
Jessie Naylor Boyrie
Tamara Burmeister
†Joseph Cadinha
†Annie Amana Chang
Esther Tseu Char
Lillie Chun Hsing Char
Rosalie Sue Yen Char
Priscilla Lin Hup Ching
Lucille Kaonohonapua Coke
†Lulu Corbly
Anna Laura Coxhead
*Violet Ngan Dang
†Elsie Ferreira
Violet Meu Inn Fong
Louise Leiau Forsythe
†Melvin Henry Frack
†Henrietta Freitas
Yaeko Fujii

* Granted degree February, 1934.
† Granted degree October, 1934.
*Granted degree February, 1934.
† Granted degree October, 1934.

†Lionel Takeo Fukabori
†Frances Louise Gleshan
* Vivian K. M. Goo
Mildred Mitsu Goto
† Joseph Alvin Gouveia
† Dorothy Tokuko Hagiwara
* Galen Yukio Hamada
† Shimo Hashimoto
Florence Yin Ho
Kim Lan Kaohimaunu Ho
† Verena Ching Ho
Elsie Fumiko Hokada
† Mabel Seu Tsin Liu Ing
* Kwai Lan Jay
Misao Kamada
† Chiyio Dobashi Kato
Lucy Seu Tsin Kau
Maizie Takiko Kawamura
Yoriko Kaya
Ellen Hazel Lehua Kinney
* Irma Tsin Ki Kong
Manuel Kwon
* Lucy Wong Lee
† Rosabelle Choy Kin Lee
Choy Wun Leong
Florence Seu Len Liu
† James Wilbur Lovell
Eleanor Gum Low
* Lauzen Hazel Mackenzie
† Richard Philip Martin
Susumu Matoi
* Lucie Amana Mau
Marion Lau Mau
† Dorothy Capellas Merrill
Trude Michelson-Ash
Erwin L. Miles
Hannah Miwa
Ou Miyahara
Violet Matsue Murakawa
Stella Yoshiko Nomura Nakatsuji
Harold Minobu Narimatsu
Eleanor Sueko Nishiyama
† Momoye Oka
† Charles Juichi Okabe
† Daisy Shizuno Okabe
Setsu Okubo
Martha Keonaona Punohu
† Gertrude Latimer Rowlands
Constance Fusayo Sagara
Hideko Beatrice Sasaki
† Dorothy Haruko Shinoda
Patsy Shizuyo Shintani
† Henrietta Siebert
Manuel Peterson Silva
Harriet Foon Soo
Emiko Suyama
University of Hawaii

Helene Umeyo Taketa
Toshie Tanioka
May Kanani Teshima
*Ethel Chiyoko Tokunaga
Ellen Tom
*Mew Lee Tong
Rose Kaaloehiukai Toomey
Chiyoko Doris Tsugawa
†Nora Yasutake Tsunehiro
Henry Ten Young Tyau
†Frances Mook Kiyau Von
Kimiyo Watanabe
†Myrtle Inches Weidman
†Betsy Nip Wong
David Kamn Cho Wong
†Gilbert Lee Hoon Wong
Tsuruyo Yamamoto
*Edith Yoneda
Achong Young
Eleanor Tsark Young

* Granted degree February, 1934.
† Granted degree October, 1934.
FIFTH YEAR
CERTIFICATES AWARDED

Edna Lin Ung Chang
Myra Mewhan Lee Ching
Edith Sau Kung Chock
Mabel Kaui Chong
Juliette Chung
Nani Kalae Espinda
Arthur Fraser
Evelyn May Jewett
Edith Shigeko Kashiwa
*Bernice Bong Hee Kim
Ah Jook Leong
Eleanor Yuen Len Liu
Kwai Ngan Luke
Mary Lau Sin Lum
Muriel Haunani Mackenzie
Marion Frances Kaleleonalani McGregor
*Patricia McMahon
Shigeo Nakamura
Shizuko Nakano
Henry Susumu Nakata
Eleanor Sueko Nomura
Richard Takiya Oka
Sakiko Okubo
Winifred Marie Piltz
Evangeline Lydia Ralston
Kiyoko Sugiyama
Helen Hatsuyo Tamano
Hazel Hanae Yoshida
Lily Bow Lin Young

* Certificate granted February, 1934.
REGISTER OF STUDENTS
1934-1935

GRADUATE DIVISION

Candidates for Degrees*

Adams, Albert E., 3521 Pahoa Ave.
A.B., Culver-Stockton College, 1925
(Education)

Bailey, Allen A., Kamehameha Boys' School
B.S., University of Oregon, 1928
(Education)

Baker, Ruth C., 2315 Maile Way
B.A., University of Hawaii, 1933
(Physics)

Beauchamp, Bayne, Pleasanton Hotel
B.A., University of California, 1930
(Geography)

Bickerton, Agnes C., 2844 Park Rd.
B.A., University of Hawaii, 1932
(Education)

Black, Mary H., 404 Wailuku Ave., Hilo, Hawaii
Ed.B., University of Hawaii, 1932
(Psychology)

Bowers, Herbert S., 4783 Sierra Dr.
B.A., Bluffton College, 1924
(Education)

Brewer, (Mrs.) Lela Robinson, 811 18th Ave.
B.A., University of Hawaii, 1931
(Education)

Brown, Flora B., 1115 Lunalilo St.
B.A., Stanford University, 1903
(Political Science)

Burgert, Lorenzo J., Box 520, Waipahu, Oahu
B.S., Colorado Agricultural College, 1932
(Education)

Cariaga, Roman R., Sto. Tomas, Batangas, P. I.; 1150 Lunalilo St.
B.A., University of Hawaii, 1934
(Sociology)

Cayaban, Jesus O., Vigan, Ilocos Sur, P. I.; 1340 Gulick Ave.
B.A., University of Hawaii, 1930
(Sociology)

Chang, Annie A., 1836-C Boyd Lane
Ed.B., University of Hawaii, 1934
(Education)

Chong, Mabel T., 1815 Dole St.
B.A., University of Hawaii, 1933
(Zoology)

* Including those who have passed preliminary examination for definite acceptance to candidacy and those who are tentatively accepted to candidacy pending examination.
<table>
<thead>
<tr>
<th>Name</th>
<th>Address</th>
<th>Degree</th>
<th>School</th>
<th>Major</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chong, Vera I ean</td>
<td>1820 Lunalilo St.</td>
<td>B.A.</td>
<td>University of Hawaii, 1931</td>
<td>(Psychology)</td>
</tr>
<tr>
<td>Chun, Dai Ho</td>
<td>1424 10th Ave.</td>
<td>B.A.</td>
<td>University of Hawaii, 1930</td>
<td>(Economics)</td>
</tr>
<tr>
<td>Chun, Eleanor Y. L.</td>
<td>1031 Noble Lane</td>
<td>B.A.</td>
<td>University of Hawaii, 1932</td>
<td>(Education)</td>
</tr>
<tr>
<td>Chung, Lillian L.</td>
<td>1130 8th Ave.</td>
<td>B.A.</td>
<td>University of Hawaii, 1927</td>
<td>(Entomology)</td>
</tr>
<tr>
<td>Coxhead, Anna L.</td>
<td>1932 Awapuhi St.</td>
<td>Ed.B.</td>
<td>University of Hawaii, 1934</td>
<td>(Education)</td>
</tr>
<tr>
<td>Cumming, Lois M.</td>
<td>975 E. San Bernardino Ave.</td>
<td>A.B.</td>
<td>Broadoaks School, 1934</td>
<td>(Education)</td>
</tr>
<tr>
<td>Cummins, Helene</td>
<td>Kuliouou, Oahu; Alexander &amp; Baldwin, Ltd.</td>
<td>B.A.</td>
<td>University of Hawaii, 1930</td>
<td>(Education)</td>
</tr>
<tr>
<td>Davis, D. Rodger</td>
<td>Mid-Pacific Institute</td>
<td>B.A.</td>
<td>Bucknell University, 1932</td>
<td>(History)</td>
</tr>
<tr>
<td>DeRocker, Frank E.</td>
<td>Rock Island, Ill. ; 1646-D Liholiho St.</td>
<td>B.S.</td>
<td>Bradley Polytechnic Inst., 1934</td>
<td>(Education)</td>
</tr>
<tr>
<td>DeRocker, Medard O.</td>
<td>Rock Island, Ill. ; 1082 S. King St.</td>
<td>B.S.</td>
<td>Bradley Polytechnic Institute, 1931</td>
<td>(Education)</td>
</tr>
<tr>
<td>Dowson, George J.</td>
<td>Waialua, Oahu; 1026 Koko Head Ave.</td>
<td>B.A.</td>
<td>University of Hawaii, 1930</td>
<td>(Physics)</td>
</tr>
<tr>
<td>Dranga, Jane B.</td>
<td>Stockton, Calif.; Y. W. C. A.</td>
<td>B.A.</td>
<td>Santa Barbara State Teachers College, 1923</td>
<td>(Sociology)</td>
</tr>
<tr>
<td>Ebey, George W.</td>
<td>Kamehameha Boys' School</td>
<td>Stanford University, 1929</td>
<td>(Education)</td>
<td></td>
</tr>
<tr>
<td>Faulconer, (Mrs.) Grace</td>
<td>1817 Wilhelmina Rise</td>
<td>A.B.</td>
<td>University of Hawaii, 1933</td>
<td>(Political Science)</td>
</tr>
<tr>
<td>Feiteira, Thomas M.</td>
<td>940 15th Ave.</td>
<td>Ed.B.</td>
<td>University of Hawaii, 1934</td>
<td>(Education)</td>
</tr>
<tr>
<td>Fosberg, F. Raymond</td>
<td>Turlock, Calif.; 2365 Oahu Ave.</td>
<td>A.B.</td>
<td>Pomona College, 1930</td>
<td>(Botany)</td>
</tr>
<tr>
<td>Froue, (Mrs.) Margaret S.</td>
<td>1019 13th Ave.</td>
<td>B.A.</td>
<td>University of Hawaii, 1934</td>
<td>(English)</td>
</tr>
</tbody>
</table>
Fukunaga, Edward T., Manoa Japanese School
B.S., University of Hawaii, 1934
(Chemistry)

Gantt, Beth King, Waimanalo, Oahu
A.B., Doane College, 1919
(Education)

Goddard, Marion P., 2925 Laola Rd.
B.S., University of Hawaii, 1926
(Home Economics)

Goller, Zella M., 3887 Nikolo St.
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(Education)

Goodness, Rebecca, Kailua, Oahu; 4171 Sierra Dr.
Ed.B., University of Hawaii, 1932
(Education)

Gordon, (Mrs.) Mildred V., 3405 Kahawalu Dr.
Ph.B., University of Chicago, 1922
(Education)

Goto, Kenji, Capt. Cook, S. Kona, Hawaii; Atherton House
B.A., University of Hawaii, 1934
(Economics)

Hale, Harry M., 2535 Brown Way
B.A., Wichita University, 1924
(Education)

Hamman, (Mrs.) Grace C., Courtland Hotel
B.A., University of Hawaii, 1930
(Education)

Hancey, Carlos, 1971 Makiki St.
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(Education)

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B.A., University of Hawaii, 1928
(Education)

Haughs, Janet, Fernhurst
B.A., University of Hawaii, 1930
(Education)

Heen, Elizabeth L., Waipahu, Oahu
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(Education)

Hill, Jo Elizabeth, Moana Hotel
B.A., Abilene Christian College, 1921
(English)

Hiroshige, Herbert M., Box 571, Hilo, Hawaii; 2113 S. Beretania St.
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(Agronomy)

Hodges, Julia, Moana Seaside Hotel
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Hogan, Grace G., Valley View Farm, Emmitsburg, Md.; 3273 Diamond
Head Rd.
B.A., St. Joseph’s College, 1925
(Education)

Horlings, Albert R., Hull, Iowa; 1914 University Ave.
B.A., University of Minnesota, 1934
(Political Science)

Hormann, Helmuth Winfrid, 1036 Green St.
B.A., University of Hawaii, 1929
(English)
Hosaka, Edward Y., 1433 Kahanu St., c/o B. P. Bishop Museum
B.S., University of Hawaii, 1931
(Botany)

Hu, Henry S. C., 1757 Fort St.
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(Political Science)

Huckestein, Inez L., Box 2684, Honolulu
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(Education)

Humphries, Grace, Ontario, Calif.; 1805 Makiki St.
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(Business)

Ing, Ruth, 1002 8th Ave.
B.S., Columbia University, 1930
(History)

Kahananui, Dorothy M., 1939 Ahuula St.
B.S., New York University, 1931
(Education)

Katsunuma, Woodrow N., 2304 Metcalf St.
A.B., University of Hawaii, 1935
(Political Science)

Kerr, George H., Summerville, S. Car.; 1904 Vancouver Dr.
B.A., Rollins College, 1932
(Oriental Studies)

King, Myrtle, Wai'alua, Oahu; 816 Kinau St.
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Kohr, Howard V., Seattle, Wash.; 2544 East Manoa Rd.
B.A., University of Washington, 1933
(Political Science)

Kono, Kenneth K., Box 581, Lihue, Kauai; 1235 Hall St.
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(Chemistry)

Kubo, Florence S., Hilo, Hawaii
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(Sociology)

Lai, Kum Pui, 32-B Leilehua Lane
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Lam, Ah Chin, 2337 E. Manoa Rd.
B.A., University of Hawaii, 1933
(International Relations)

Leavitt, Barbara W., 1914 Vancouver Dr.
B.A., University of Hawaii, 1934
(English)

Lee, Bung Chong, 72 No. Hotel St.
B.A., University of Hawaii, 1935
(Sociology)

Lee, Genevieve, 2136 So. King St.
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(Education)

Lee, Rosalie L., 1207 16th Ave.
B.A., University of Hawaii, 1932
(History)

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  (Home Economics)

Lingenfelter, Laura M., Tacoma, Wash.; 2613 Halelena St.
  B.A., University of Iowa, 1923
  (English)

Linnemann, Irma, 2425 E. Manoa Rd.
  B.A., University of Hawaii, 1934
  (Chemistry)

Loer, Oliver K., 2511 E. Manoa Rd.
  A.B., Bethany College, 1928
  (International Relations)

Louis, Lillian S.K., 1060 Koko Head Ave.
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  (Chemistry)

Lovell, (Mrs.) Genevieve B., 1526 Hastings St.
  B.A., University of Hawaii, 1930
  (Education)

Luis, John, 833 17th Ave.
  B.A., Colorado State Teachers' College, 1930
  (Education)

Madison, Ray, Roosevelt High School, Honolulu
  B.S., Whitman, 1926
  (Education)

McMahon, Patricia, 1118 19th Ave.
  B.A., University of Hawaii, 1933
  (Sociology)

McPherren, Berenice M., 2129 Kamehameha Ave.
  B.B.A., University of Washington, 1929
  (Psychology)

Mitchel, Donald D., Kamehameha Boys' School
  A.B., Phillips University, 1928
  (Education)

Miyamoto, Shichiro, 33 Nagaosa, Uwamachi, Ehime-Ken, Japan;
  902 Pumehana St.
  Hiroshima University, 1934
  (Education)

Mizuha, Jack H., Waihee, Maui; Charles Atherton House
  B.A., University of Hawaii, 1934
  (Economics)

Moe, Kilmer O., 1420-A Kalihi Rd.
  B.A., University of Hawaii, 1930
  (Education)

Moo, Eleanor Y.N., 1040 6th Ave.
  B.A., University of Hawaii, 1933
  (Sociology)

Moore, W. Harold, 2446-B Tusitala St.
  M.E., Stevens Institute of Technology, 1922
  (Civil Engineering)

Morley, Marielouise A., 2107 Lanihuli Dr.
  B.A., University of Hawaii, 1927
  (Education)

Mounce, Charles R., Hamakaupoko, Maui; Punahou School
  B.S., Iowa State College, 1925
  (Education)

Nakagawa, Shizuko, 713 South St.
  B.A., University of Hawaii, 1932
  (Zoology)
Register of Students

Odom, Julius P., Box 473, Black Mt., N. Car.; 2464 Koa Ave.
B.S., King College, 1929
(Chemistry)

Ohara, Toru, Agou-mura, Shimane, Japan; 410-D N. King St.
Bungakushi, Kokugakuin University, 1933
(English)

Okita, Francis M., 435 Koula St.
B.A., Albany College, 1934
(International Relations)

O’Neal, James W., 2036 McKinley St.; 246-2 Ohua Ave.
B.S., Missouri University, 1927
(Education)

Onishi, Katsumi, Box 96, Aiea, Oahu; Heeia, Oahu
B.A., University of Hawaii, 1934
(Education)

Ployhart, Frederick P., Olivia, Minn.; Pan Pacific Club
B.S., St. Thomas College, 1924
(Chemistry)

Reinecke, John, Honokaa, Hawaii
B.A., Kansas State Teachers’ College, 1925
(Sociology)

Remick, Grace L., 2450 Kuhio Ave.
B.A., University of Hawaii, 1929
(Education)

Rempel, Henry H., 739 E. 78th St., Los Angeles, Calif.; 2143 Mohala Way
Ed.B., University of California at Los Angeles, 1928
(Education)

Restarick, J. Purdy, 55 Dowsett Ave.
B.A., University of Oregon, 1916
(Psychology)

Ross, Ruth Davis, 2538 Alaula Way
Ed.B., University of Hawaii, 1932
(Political Science)

Shepherd, Elizabeth M., 1808 Punahou St.
B.A., Mills College, 1933
(English)

Shon, Rose, 1530 Pele St.
B.S., University of Michigan, 1934
(Education)

Smith, Alice W., 70 Judd St.
B.S., Columbia University, 1916
(Education)

Smith, Clara I., 3753 Sierra Dr.
B.A., University of Hawaii, 1931
(Social Science)

Stewart, Ray D., Salem, Ind.; Mid-Pacific Institute
A.B., Hanover College, 1932
(Psychology)

Tajima, Paul J., 1259 Elizabeth Ave.
B.D., Seabury Divinity School, 1932
(Oriental Studies)

Takahashi, Shuichi, 1471 Christley Lane, Fort St.
B.A., University of Hawaii, 1934
(English)

Takeda, Yetatsu S., c/o Hongwanji Mission, 1727 Fort St.
Bungakushi, Ryukoku University, 1933
(Sociology)
Uyehara, Yukuo, 1822 Nuuanu St.
B.A., University of Hawaii, 1931
(Oriental Studies)
VanBuskirk, (Mrs.) Garnet E., Iolani School
B.S., Kirksville Teachers' College, 1923
(Education)
Vaughn, Inger S., Fernhurst
B.S., William and Mary College, 1921
(Education)
Wakukawa, Ernest K., 5 Cunha Lane, N. Vineyard St.
A.B., Oberlin College, 1931; M.A., Columbia University, 1932
(Political Science)
Warfield, Charles L., Qtrs. 10, Fort Shafter
A.B., University of Hawaii, 1933
(History)
Warner, Bernice, 2182 Kalia Rd.
B.S., University of Chicago, 1920
(Education)
Watanabe, Ernest, 4141 Waialae Rd.
B.S., University of Hawaii, 1934
(Chemistry)
Watanabe, Shichiro, Iwatsuki Mura, Yamagun, Fukushima Ken, Japan;
3410 Campbell Ave.
A.B., University of Hawaii, 1928
(Political Science)
Wiesner, John A., Mid-Pacific Institute
B.S., Linfield College, 1933
(Business)
Wilcox, Eleanor K., Box 2638, Honolulu
B.A., University of Hawaii, 1930
(Political Science)
Wilder, Catherine L., 1522 Hastings St.
B.A., Broad Oaks School, 1933
(English)
Wong, James H., Waianae, Oahu; 2048 S. Beretania St.
Ed.B., University of Hawaii, 1932
(Education)
Wong, Kee Fun, 1202 Pua Lane
B.A., University of Hawaii, 1935
(Education)
Wong, Maria K., 1294-A Akoko Lane
B.A., University of Hawaii, 1930
(Political Science)
Yang, Sarah L., 1229 15th Ave.
A.B., Colorado State Teachers' College, 1931
(Education)
Yee, Alyce Ako, 1641 Nuuanu Ave.
B.A., University of Hawaii, 1933
(Education)
Zieman, Clayton M., Randolph, Wis.; 1666 Liholiho St.
B.A., University of Wisconsin, 1927
(Education)
GRADUATE SCHOOL OF TROPICAL AGRICULTURE

Chinn, Edwin Y.H., 549 N. School St.
B.S., University of Hawaii, 1931
(Soil Science)

Edwards, Dorsey W., 1512 Halekula Way
B.S., Oregon State College, 1930
(Soil Science)

Hartt, Constance, University of Hawaii
A.B., Mt. Holyoke, 1922; S.M., University of Chicago, 1924;
Ph.D., University of Chicago, 1928

Ho, Flora Patt, 2113 Puno·St.
B.A., University of Hawaii, 1933
(Bacteriology)

Ito, Kiyoshi, 3330 Kaimuki Ave.
B.S., University of Hawaii, 1929
(Entomology)

Iwaoaka, Noboru, 2006-A Lusitana St.
B.S., University of Hawaii, 1934
(Botany)

Keck, Chester B., 2251 Round Top Drive
B.S., Kansas State Coll., 1927; M.S., Kansas State Coll., 1928
(Genetics)

Kitamura, Tadao, 1023 Kikeke Ave.
B.S., University of Hawaii, 1934
(Entomology)

Lee, Bernard C., 1098 S. Beretania St.
B.S., University of Hawaii, 1933
(Soil Science)

Marlowe, Ralph H., Box 340, Honolulu
B.S., Rollins College, 1928; M.S., University of Hawaii, 1934
(Entomology)

McBride, Orville C., 2108 Haena Drive
B.S., University of Missouri, 1921; M.A., University of Missouri, 1922
(Entomology)

Okimoto, Marion C., 3480 Waialae Ave.
B.S., University of Hawaii, 1934
(Botany)

Takahashi, Makoto, 1326-A 8th Ave.
B.S., University of Hawaii, 1928
(Genetics)

Tanimoto, Ralph H., Wahiawa, Oahu; 2457 S. King St.
B.S., University of Hawaii, 1934
(Soil Science)

Watt, Alison, 2379 Liloa Rise
B.A., University of Hawaii, 1935
(Bacteriology)

Yoshioka, Clarence K., 3143 Paliuli St.
B.S., University of Hawaii, 1933
(Entomology)

Young, Philip K.L., 1759 Fort St.
B.S., University of Hawaii, 1933
(Agronomy)
GRADUATE STUDENTS NOT CANDIDATES FOR DEGREES

Adachi, Masayuki, Kumamoto, Japan; The Yokohama Specie Bank, Ltd.
B.A., University of Hawaii

Agena, Tsuruko, Mt. View, Hawaii; 2513 Stream Dr.
B.A., University of Hawaii

Alderson, Ray F., 1417 Makiki St.
B.A., Walla Walla College

Bayless, Ethel W., 3936 Bayside Walk, Mission Beach, San Diego, Calif.;
2408-C Tusitala St.
A.B., San Diego State Teachers' College

Bolinger, Walter M., 1485 E. 5th Ave., Pomona, Calif.; 1409 Makiki St.
B.A., Pacific Union College

Bowman, Winifred, Aiea Heights
B.A., University of Hawaii

Brown, Helen, San Pedro, Calif.; St. Andrews Priory
B.B., University of California at Los Angeles

Burmeister, (Mrs.) Tamara, Kamehameha Boys' School
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<thead>
<tr>
<th>Name</th>
<th>Address</th>
<th>Details</th>
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<tbody>
<tr>
<td>O'Meara, Helen F.</td>
<td>Beach Walk Inn</td>
<td>A.B., Oklahoma University</td>
</tr>
<tr>
<td>Riggin, Charles L.</td>
<td>Vine St., Eau Claire, Wis.</td>
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<tr>
<td>Ross, (Mrs.) Caroline S.</td>
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<tr>
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<td>B.A., University of Hawaii</td>
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<tr>
<td>Scott, Izora T.</td>
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</tr>
<tr>
<td>Slade, John S.</td>
<td>Punahou School</td>
<td>B.S., Coe College</td>
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<tr>
<td>Sloan, James L.</td>
<td>Arkadelphia, Ark.</td>
<td>A.B., Ouachita College</td>
</tr>
<tr>
<td>Smith, (Mrs.) Clare S.</td>
<td>Waipahu, Oahu</td>
<td>A.B., Park College</td>
</tr>
<tr>
<td>St. Pierre, Ella</td>
<td>Salem, Ore.; Waialua, Oahu</td>
<td>B.A., Willamette University</td>
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<td>Tam, Richard K.</td>
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<td>Tyau, Luke M.</td>
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<td>Wu Zain Han</td>
<td>Chinese Consulate-General</td>
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<td>Ewa, Oahu</td>
<td>B.S., Drake University</td>
</tr>
</tbody>
</table>
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.

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huli Dr.
<table>
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<tr>
<th>Name</th>
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<tr>
<td>Soares, D. Mae</td>
<td>III</td>
<td>323</td>
<td>IV Econ. &amp; Bus.</td>
<td>3711 Mahina Ave.</td>
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<td>Soon, Mrs. Dorothea</td>
<td>III</td>
<td>82</td>
<td>Soc. Sci.</td>
<td>2525 Rooke Ave.</td>
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<td>Soong, Eleanor</td>
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<td>17</td>
<td>Lang., Lit. &amp; Art</td>
<td>1231 Matlock Ave.</td>
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<td>Stanford, Lorene</td>
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<td>Lang., Lit. &amp; Art</td>
<td>2626 Waolani St.</td>
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<td>Stephenson, William B.</td>
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<td>Pre-Legal</td>
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<td>Stevenson, Campbell</td>
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<td>86</td>
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<td>2910 Makalei St.</td>
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<td>Stoddard, Rebecca D.</td>
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<td>Econ. &amp; Bus.</td>
<td>4523 Aukai Ave., Kahala</td>
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<td>Stone, John J.</td>
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<td>18</td>
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<td>2386 Liloa Rise</td>
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<td>Strieby, Florence</td>
<td>III</td>
<td>39</td>
<td>Lang. &amp; Art</td>
<td>2366 Liloa Rise</td>
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<td>Strike, (Mrs.) Lucille</td>
<td>III</td>
<td>74</td>
<td>Courland Hotel</td>
<td>17 Medical Regiment, Schofield Barracks</td>
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<td>Lang. &amp; Art</td>
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<td>Sueoka, Theodore T.</td>
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<td>Tahara, Tadashi</td>
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<td>Taira, Robert S.</td>
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<td>Nat. &amp; Phys. Sci.</td>
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<td>Tam, Pina S. P.</td>
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<td>Tam, Reuben</td>
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<td>Tamanaka, Nobusichi</td>
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<td>Nat. &amp; Phys. Sci.</td>
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<td>92</td>
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<td>Peninsula, Pearl City, Oahu</td>
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<td>Tan, Edwin B. K.</td>
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<td>Tan, Peace Y. P.</td>
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<td>Tan, Raymond B.</td>
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<td>Tanaka, Taro</td>
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<td>Soc. Sci.</td>
<td>545 Kealakekua, Hawaii; 1239 S. King St.</td>
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<td>Taniguchi, Riyuso</td>
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<td>93</td>
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<td>Tanoue, Roy T.</td>
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<td>Tasaki, Hanama</td>
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<td>Tashima, Isami</td>
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<td>Tavares, Edna R.</td>
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<td>6, Paia, Maui; 597 So. King St.</td>
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<td>Lang. &amp; Art</td>
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<td>Thoene, Margaret E.</td>
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<td>Econ. &amp; Bus.</td>
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<td>Thom, Buck K.</td>
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<td>Soc. Sci.</td>
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<td>Tofukuji, Harue</td>
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<td>Lahaina, Maui; 2255 Hiu St.</td>
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<td>Tokimasa, Yuki M.</td>
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<td>Soc. Sci.</td>
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<td>Tomihama, Edward S.</td>
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Tomita, Hatso, 276, 121 (I) (IV Econ. & Bus.) 475 Dayton Lane
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Nogai, Margaret F., 126, 57 (II) 1661-B Waikahalulu Lane
Nagakura, Edna S., 123, 48 (II) 17 Kilohana St., Hilo, Hawaii; 625 McNeil St.
Nakamura, Katsuko, 277, 116 (IV) 222 Paoakalani St.
Nakamura, Yukiko, 76, 46 (II) 902 Pumehana St.
Nakano, Jane, 49, 17 (I) Wahiawa, Oahu; 846 Thompson St.
Nakasone, Toki, 379, 114 (IV) Box 345, Lahaina, Maui; 3670 Kilauea Ave.
O'Brien, Edwin L., 305, 119 (IV) 1924 9th Ave.
Ogata, Shigeo, 339, 129 (IV) 2346 S. Beretania St.
Okada, Sumiko, 47, 17 (I) Box 285, Waipahu, Oahu
Okamura, Hayako, 170, 82 (III) Laupahoehoe, Hawaii; 925 Ahana Lane
Okamuru, James, 244, 84 (33) (IV) Box 226, Koloa, Kauai; 2734 S. King St.
Okamura, Joyce M., 182, 78 (III) Koloa, Kauai; 1071 Kinu St.
Omitsu, Edna M., 101, 50 (II) 2003 N. King St.
Philips, Rosalind, 32, 17 (I) Box 435. Hana, Maui; Women's Dormitory
Pohlmann, Helen, 190, 82 (III) 206 San Antonio Ave.
Poka, Elizabelh C., 302, 130 (IV) 287 Kaliihi St.
Robinson, George G., 39, 14 (66) (III) 3202 Walnut Ave., Altoona, Pa.; Battery E 64th C.A., Fort Shafter
Ross, Doris E., 312, 84 (III) 910 14th Ave.
Seong, Moms S., 188, 67 (III) Lahaina, Maui; 1319 Emma St.
Siu, Helen G., 302, 116 (IV) Aiea, Oahu; 2108 S. King St.
Shiroyama, Chiyoko, 277, 116 (IV) 110 Mamane St., Hilo, Hawaii; 597 S. King St.
Simons, Kari E., 47, 18 (I) 903 17th Ave.
Sti, Faith, 32, 17 (I) 26 N. King St.
Smith, (Mrs.) Florence M., 394½, 151½ (IV) 3360 Alohena Ave.
Smith, Margaret H., 198, 84 (III) 1660 Pensacola St.
Smithen, Mary B., 259, 137 (IV) 2257 Kanealii Ave.
Soores, Ricardo, 350, 116 (IV) 421 Wyllie St.
Sousa, Belmyra, 271, 119 (IV) Keahua, Maui; 597 S. King St.
Suzuki, Alice U., 103, 40 (II) 1415 So. King St.
Takahara, Yoshiko, 240½, 95½ (III) Box 1193, Hilo, Hawaii; Mid-Pacific Women's Dormitory
Takano, Sakae, 331, 102 (III) Box 141, Wahiawa, Oahu
Takowe, Kimie, 35, 17 (I) Papaaloa, Hawaii; 836 17th Ave.
Tanaka, Myrtle, 368, 118 (IV) 1535-B Kewalo St.
Tashima, Charles W., 263, 126 (IV) Wahiawa, Oahu
Tateishi, Masako, 45, 17 (I) Paia, Mani; 1450-B Keeaumoku St.
Tillman, Ellen Y., 197, 82 (III) Hawi, Hawaii; 1927 Coyne St.
Register of Students

Tenn, Thelma Y. L., 42, 17 (I) Hawi, Hawaii; 1927 Coyne St.
Teshima, Dorothy H., 292 ½, 120 ½ (IV) 6 Davies Lane
Teshima, Lily S., 224, 84 (III) Box 106, Wailuku, Maui; 1114 17th Ave.
Teves, Joseph Jr., 325, 126 (IV) 1550 Miller St.
Thoene, Alma E., 441, 128 (IV) 2548 Rooke Ave.
Thompson, Dorothy M., 141, 65 (6) (II) 2133 McKinley St.
*Ting, Margaret, 359, 135 (IV) Box 162, Wailuku, Maui;

Women's Dormitory
Tyau, Doris D. C., 285, 116 (IV) 942 No. King St.
Tyau, Gertrude S. Y., 244, 120 (IV) 320 Iolani Ave.
Ukijuka, Aileen K., 170, 82 (III) 2534 Rocke Ave.
Vierra, Cecilia, 53, 18 (71 ½) (III) 1562 Pensacola St.
Vierra, Dorothy, 188, 83 (III) Honokaa, Hawaii; 597 S. King St.
Vierra, Matilda, 271, 89 (III) Honokaa, Hawaii; 597 S. King St.
Weatherbee, (Mrs.) Gladys B., 213, 61 ½ (64) (IV) 439 Kuamoo St.
Wela, Sarah K., 176, 82 (III) Box 815, Hilo, Hawaii; 597 S. King St.
Whang, Elizabeth, 104, 48 (II) 1709 S. Beretania St.
Wist, Zoe A., 360 ½, 131 ½ (IV) 2128 Oahu Ave.
Wittrock, Ella, 44, 17 (I) 1219 Center St.
Wong, Elizabeth K. K., 38, 17 (I) Paia, Maui; 1304-B Artesian St.
Wong, Hong Kwan, 178 ½, 54 ½ (II) Box 106, Paia, Maui;

Women's Dormitory
Wong, Marion Y., 289, 88 (III) 2410 Kaala Ave.
Wong, Minnie, 28, 17 (I) Kapaa, Kauai; 1835 Fort St.
Wong, Sau Chin, 39, 17 (I) 717 20th Ave.
Wong, Sau Gin, 181, 86 ½ (III) 717 20th Ave.
Yagi, (Mrs.) Jane S., 262, 112 (IV) Lahaina, Maui; 1744 Waiola St.
Yamada, Glenn T., 388, 131 (IV) Koloa, Kauai; 312-B Hobron Lane
Yamamoto, Yuriko, 162, 52 (II) Hawi, Hawaii; 1429 Makiki St.
Yamamura, Douglas S., 61, 17 (I) Waihee, Maui; 89 S. King St.
Yamanaga, Mitsuko, 308, 117 (IV) 1951 Fort St.
*Yanagi, Tamayo T., 322, 131 (IV) Holualoa, N. Kona, Hawaii;

913 Kahuna Lane
Yang, Ellen K., 270, 115 (IV) Box 178, Waiau, Oahu; 1229 15th Ave.
Yap, Beatrice M. Y., 152, 69 (III) 1600 Kamamalu Ave.
Yasukawa, Thelma C., 287, 122 (IV) 1347 Gulick Ave.
Yee, Mary K., 272, 127 (IV) 2735 S. King St.
Yim, Dorothy L., 165 ½, 51 ½ (II) 804 16th Ave.
Yoshinaga, Toshimi, 134, 49 (II) 1741 Young St.
Young, Vera, 26, 17 (I) 3624 Pahoa Ave.
Zane, Margaret P., 107, 50 (II) 935 Koko Head Ave.

UNCLASSIFIED†

Abrehamsen, (Mrs.) Elizabeth K., 1124 Davenport St.
Adelmeyer, Iwalani, 804 Green St.
Ai, Frances, 4103 Maunaloa Ave.
Akahoshi, (Mrs.) Shirley S., 816 8th Ave.
Akana, Norma, 1307 Farrington St.
Aki, Kan L., 2133 Wilder Ave.
Akina, Grace, 931-C Hala Drive
Akina, (Mrs.) Priscilla C., 1405 Griffiths St.

* Graduated in February and entered 6th year work.
† 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 continuing their studies along the lines of their interests.
Akiona, Alice, 1145 Gulick Ave.
Almeida, Eva, 1120-A 5th Ave.
Among, (Mrs.) Lena K., 2434 Coyne St.
Andrade, (Mrs.) Juaniita, 2112 Coyne St.
Austen, Henriette, Pearl City
Badger, Hilda 1233 9th Ave.
Baker, Rose P., 1037-A Pulaa Lane
Baptiste, Edith M., 1616 Liholiho St.
Barbour, Celestine S., Luke Field P. O.
Barboza, Pauline, 1532 Nobrega St.
Barrere, Rosalind, 2002 Oahu Ave.
Becker, Mabel D., Waipahu, Oahu
Bell, (Mrs.) Ella K. A. S., 803 20th Ave.
Benner, Harlan F., 2214 Liliha St.
Betts, (Mrs.) Charlotte, 1543 Kewalo St.
Billam-Walker, Donald, No. Kohala, Hawaii; Blaisdell Hotel
Borden, Ida, 3479 Harding Ave.
Bowman, LeRoy, Aiea Heights
Bowron, May, 1653 Pensacola St.
Boyd, Daisy, 1455 Kewalo St.
Boyd, Julia, 3280 Winam Ave.
Branco, Mary C. 1478 Thurston Ave.
Brase, (Mrs.) Olive L., 3108 Manoa Rd.
Brown, (Mrs.) Mahie K., 1503 Piikoi St.
Browning, Jeannette, Beach Walk Inn
Brownlowe, (Mrs.) Virginia, 850 Kinaw St.
Bryson, Violet M., 1257 15th Ave.
Buel, Rae, 2629 Kalakaua Ave.
Burton, Phoebe, Papaikou, Hawaii; 1621-D Keauamoku St.
Burum, Garnett M., 3127 Hinano St.
Cabrera, Emily P., 3458 Maluhia St.
Camara, Louis, Paauilo, Hawaii; 249 Kuakini St.
Campbell, (Mrs.) Elizabeth, Box 43, Watertown, Oahu
Carey, Virginia C., 1646 Kamohala St.
Carmichael, Cecil S., 234 Lewers Rd.
Carter, (Mrs.) Beatrice, 3612 Sierra Dr.
Cavanagh, Carol, Santa Margarita, Calif.; McKinley High School
Chat, (Mrs.) Gertrude, 1150 N. King St.
Chan, Kathleen F., 2012 S. Beretania St.
Chang, Beatrice L., 762 19th Ave.
Chang, Chester W., 27 Kauila St.
Chang, Humphrey G., Wahiawa, Oahu
Chang, Kenneth C., 1503-B5 Nuuanu St.
Chang, (Mrs.) Lila L., 931 4th Ave.
Chang, Sing, 736 6th Ave.
Chee, Violet, 1141 First Ave.
Chi, Beatrice, 1150 Kinaw St.
Ching, Annie L., 1317 9th Ave.
Ching, Harry K. C., Mun Lun School
Ching, Helen E. K., 1033 Wolter Lane
Ching, (Mrs.) Lani L., 2620 Liholihi St.
Ching, Lani Y., Kaneohe, Oahu
Ching, Louise L., 1320 Piikoi St.
Ching, William K., 1639-D Liholihi St.
Chinn, Abbie L., 1525 Farrington St.
Chock, Ah Moi Lee, 1554 Liholihi St.
Chock, (Mrs.) Annie W., 1419 16th Ave.
Chock, Esther Lee, 2318 Metcalf Ave.
Chollar, Sam L., Army & Navy Y.M.C.A.
Chong, Gladys, 1420 Lumalilo St.
Chong, Hasal N. Y., 1420 Lumalilo St.
Chong, Kenneth M., 968-F Hikina Lane
Chong, Lydia T., 3711 Waialae Ave.
Chu, Amy L., Waianae, Oahu
Chuck, Aoe T., 942-B 8th Ave.
Chun, Amy W., 3232 Monserrat Ave.
Chun, (Mrs.) Cecilia A., Waianae, Oahu
Chun, Muriel An-Hoy, 32 So. School St.
Chun, Myra H., 1453 Alencaestre St.
Chun, Ruth T., 957 8th Ave.
Chung, Helen A. K., Cluett House
Chung, Shirley E. T., 1221 Elm St.
Chur, Bella, 1058 5th Ave.
Clark, Lauretta P., 2036 McKinley St.
Clissold, Edward L., 2418-A Oahu Ave.
Clowes, Richard M., 3502 Woodlawn Dr.
Cooke, Thomas H., Kuakakakai, Molokai; Makiki Hgts., Box 3316
Cooper, Annie M., 3370 Maunaloa Ave.
Correa, (Mrs.) Alice B., 1413 Dominis St.
Cowman, Charlotte M., 1522-D Hastings St.
Craig, Lawrence, Waialua, Oahu
Cristy, Jessamine B., 2120 Kamehameha Ave.
Culman, Harry, 232 Dewey Ave.
Decker, Julie M., 19th Inf. Schofield Bks.
DeFontes, Emma, 1946 So. Beretania St.
Deinert, Elizabeth, 1151 16th Ave.
DeSilva, Barbara, 2601 No. School St.
Dickson, Robert J., 4717 Elmwood Ave., Hollywood, Calif.; 2416 Parker Place
Doty, (Mrs.) Ruth B., 1527-A Makiki St.
Douglas, Jessie K., Lanakila School
Duncan, Abigail, 801 17th Ave.
Duncan, R. Irene, 1319-E Wilder Ave.
Dung, Lintai S., 760 9th Ave.
Dunlavy, Doris C., Box 2623, Honolulu
Dyson, (Mrs.) Lucy, Aiea, Oahu
Edwards, Edna, 1741 Liliha St.
Enos, Josephine A., 2549 Waolani Ave.
Evans, Monroe V., Lindsay, Montana; 2634 Lowrey Ave.
Ewing, (Mrs.) Mary, Box 113, Ewa, Oahu
Ferreira, Joseph T., 1905 Wilder Ave.
Fieldgrove, Sadie K., 1226 8th Ave.
Fincke, Sarah N., 1632 Makiki St.
Fisher, Minnie M., 1218 Wilder Ave.
Forrest, Martha-Jean, 957 Kealaolu Ave.
Foster, Laura E., Oliver, Michigan; Brookland Hotel
Fowlds, Lorraine, 2057 Lanihuli Dr.
Frueda, Herbert J., Waianae, Oahu; 1326 Konia St.
Frettas, (Mrs.) Nora Y., 2153 Eluwene St.
Frost, Adeline P., 1508 Pensacola St.
Fujisaki, Lily, Hauula, Oahu
Fulmer, Viola L., 2511 E. Manoa Rd.
Fung-Hook, Anna Z., 2131 S. King St.
Fursey, Margaret B., 930 Lumalilo St.
Furuhashi, Hatsuko, 532 Ihe St.
Gault, A. Janet, Pleasanton Hotel
Gibson, Helene, 642 10th Ave.
Gilleland, Clark A., 4709-D Kahala Ave.
Gilpin, (Mrs.) Margaret Ruth, 3738 Pukalani Place
Girod, (Mrs.) Minnie Silva, Box 2962, Honolulu
Glowenle, (Mrs.) Mabel D., 522 Hunakai St.
Godwin, Mary, 1115-B 2nd Ave.
Gomes, Carrie P., 3060 Lakimau St.
Gomes, Katie C., 1460 Luso St.
Gonsalves, Adelaide, 1215-F Alexander St.
Goo, Myrtle M., 2106 N. School St.
Goo, Sarah, 2020-A Wilder Ave.
Goodness, Guy N., Kailua, Oahu; Bureau of Conveyance
Gowellia, (Mrs.) Mary O., 3127 Olu St.
Grottger, Miroslaw Jr., Depot Det., Fort Armstrong
Guerreiro, (Mrs.) Violet M., 1249 10th Ave.
Haenisch, Kate A., 14-2401 Kalakaua Ave.
Hagihara, Paul K., 1402 Emma St.
Hall, Glendon C., 165 Roosevelt St., Providence, R.I.; Box 156, Luke Field
Hamada, Mutsuo, 2133 Citron St.
Hamamotos, Marguerite, Kalaheo, Kauai; 914 21st Ave.
Harrington, Ann G., 2006-A Hunnewell St.
Harriss, (Mrs.) Leonilde, 1220 Matlock Ave.
Hee, (Mrs.) Alice W., 1443 Pele St.
Hee, Rose K. S., 1234-F Emma Lane
Hee, Sarah C., 2312 Coyne St.
Hee, Sheong, 25 Kauila St.; American Drug Co., Ltd.
Hemnings, Frederick M., 1049 Koko Head Ave.
Hermanson, Ella, 1444 Keeamoku St.
Higaki, Hatsuye, 2285 Star Rd.
Higaki, Misao, 2140 Dole St.
Hill, (Mrs.) Anna H., Box 2603, Honolulu
Hillmer, Grace, 1317 Pensacola St.
Hinds, Sidney, Kamehameha Schools
Hiromoto, Kasumi, 160 Paoakalani Rd.
Ho, Annie, 214 Kaia St.
Ho, Elisabeth M., 1431 Kewalo St.
Hobson, (Mrs.) Genevieve H., 3635 Mahina Ave.
Hoe, (Mrs.) Rebecca T., 828 10th Ave.
Hong, Daisy K. A., 26 No. Kuakini St.
Hoyer, Esther, 1653 Piikoi St.
Hodgins, Ah Lung, 848 So. King St.
Imoto, Masaichi, 2755 Waialae Rd.; Mid-Pacific Institute
Ing, George L., 4103 Waialae Ave.
Ing, Grace F. L., 1002 8th Ave.
Ing, Lucille L., 1749 Self Lane
Ing, Martha, 1136 8th Ave.
Iwamoto, Yoshio, 1220 College Walk
Jones, Harold L. R., Marine Detachment, Old Naval Station
Jones, Phyllis C., Fort DeRussy
Judd, (Mrs.) Florence H., Box 100, Honolulu
Kaaha, John K., 1106 Punchbowl St.
Kaawu, Jack L., Hind Clarke Dairy
Kahala, (Mrs.) Louisa M., 2120 Kahala St.
Kam, Esther, Waialua, Oahu
Kam Chee, Irene, 1834 Lanakila Rd.
Kamada, Shizuyo, Hanapepe, Kauai; 1616 Nuanu St.
Kamaka, (Mrs.) May A., 1229 Elizabeth St.
Kanahele, Annie, 123 Bates St.
<table>
<thead>
<tr>
<th>Name</th>
<th>Address</th>
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<tbody>
<tr>
<td>Kanahele, Clinton</td>
<td>Kaneohe, Oahu</td>
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<tr>
<td>Kaneichi, Yoshinaga</td>
<td>Box 162, Waipahu</td>
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<tr>
<td>Karratti, Charlotte H.</td>
<td>817 Mokapua St.</td>
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<tr>
<td>Kau, Esther I.</td>
<td>2430 Rooke Ave.</td>
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<td>Kau, Mary</td>
<td>650 9th Ave.</td>
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<td>Kekahi, Lily N.</td>
<td>1367 7th Ave.</td>
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<td>Kemp, Sophie</td>
<td>Waipahu</td>
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<td>Kendrick, (Mrs.) Hattie M.</td>
<td>821 Spencer St.</td>
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<tr>
<td>Kepner, (Mrs.) Gretel</td>
<td>2246 Waikolu Way</td>
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<tr>
<td>Kiesel, Dorothea</td>
<td>1511 Artesian Way</td>
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<td>Kibborn, (Mrs.) Eva S.</td>
<td>1420 Lima Rd.</td>
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<tr>
<td>Kim, Dora P.</td>
<td>2233 Kameania Ave.</td>
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<td>Kim, Jennie S.</td>
<td>Heeia, Oahu</td>
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<td>Kimo, Agnes</td>
<td>1535 Young St.</td>
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<tr>
<td>Kinney, Miriam</td>
<td>Waialua, Oahu</td>
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<td>Kinolau, (Mrs.) Rebecca L.</td>
<td>1107 Gulick Ave.</td>
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<td>Kinsey, Jane W.</td>
<td>2405 Wilder Ave.</td>
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<td>Kong, (Mrs.) En Kyau Y.</td>
<td>2048 Bingham St.</td>
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<td>Kuan, Katherine M.</td>
<td>1047 9th Ave.</td>
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<td>Kufferath, (Mrs.) Alice A.</td>
<td>1933 2nd Ave.</td>
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<td>Kueka, (Mrs.) Eleanor L.</td>
<td>4263 Sierra Dr.</td>
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<tr>
<td>Kulaikaeo, Mabel</td>
<td>1416 McCandless Lane</td>
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<td>Lao, (Mrs.) Alice</td>
<td>1056 Noble Lane</td>
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<td>Larson, (Mrs.) Elizabeth B.</td>
<td>1522 Hastings St.</td>
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<tr>
<td>Lau, (Mrs.) Elsie C.</td>
<td>1344 Moi Rd.</td>
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<td>Lau, Gilbert K. S.</td>
<td>2042 Dole St.</td>
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<td>Lau, Hung Sun</td>
<td>1420-A Keeauumoku St.</td>
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<td>Lau, Tet Chin</td>
<td>2023 Metcali St.</td>
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<tr>
<td>Leandro, Helen</td>
<td>1236 8th Ave.</td>
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<tr>
<td>Lee, Evelyn W.</td>
<td>1306 Young St.</td>
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<td>Lee, Joseph U.</td>
<td>1037 7th Ave.</td>
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<tr>
<td>Lee, Lillianoe</td>
<td>2041 Holena Dr.</td>
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<td>Lee, (Mrs.) Louise W.</td>
<td>312-C Seaside Ave.</td>
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<td>Lee, Mew Sin</td>
<td>35-D Meli Lane</td>
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<td>Lee, Violet W.</td>
<td>1863-H Makaıe Lane, Kalakaua Ave.</td>
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<tr>
<td>Legros, Adelaide K.</td>
<td>Kaunakakai, Molokai; 2022-B Young St.</td>
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<tr>
<td>Lenardson, Floyd E.</td>
<td>1517 Wilder Ave.; 201 Federal Bldg.</td>
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<tr>
<td>Leonard, Charline C.</td>
<td>20 S. Spring Ave.; La Grange, Ill.; 2108 S. King St.</td>
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<tr>
<td>Lin, Charles T. C.</td>
<td>100 Kamanuwi Lane</td>
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<tr>
<td>Lindsey, Lehua B.</td>
<td>1820 Arapuni St.</td>
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<tr>
<td>Ling, Elizabeth M.</td>
<td>3261 Olu St.</td>
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<tr>
<td>Ling, Elsie</td>
<td>2627 Rooke Ave.</td>
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<tr>
<td>Liu, Bertha K.</td>
<td>1319 Emma St.</td>
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<tr>
<td>Low, Mrs. Mary Chung</td>
<td>2236 Young St.</td>
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<tr>
<td>Luz, (Mrs.) Minnie C.</td>
<td>833 17th Ave.</td>
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<tr>
<td>Lum, Agnes Y. P.</td>
<td>2032 S. Beretania St.</td>
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<tr>
<td>Lum, Esther M.</td>
<td>1447 Kewalo St.</td>
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<tr>
<td>Lum, Mary A.</td>
<td>2037 Makanani Dr.</td>
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<tr>
<td>Lumsden, Elizabeth K.</td>
<td>3038 Hinano St.</td>
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<tr>
<td>Lung, Marion</td>
<td>2127 Coyne St.</td>
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<tr>
<td>Lung, Rose C.</td>
<td>2322 Marques St.</td>
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<tr>
<td>Ma'by, Elizabeth E.</td>
<td>1005 9th Ave.</td>
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<tr>
<td>Macle, Gertie G.</td>
<td>1228 Lunalilo St.</td>
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<tr>
<td>Macle, (Mrs.) Margaret F.</td>
<td>1503 Halekula Way</td>
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<tr>
<td>Marlowe, (Mrs.) Madie B.</td>
<td>Makiki Hotel</td>
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<tr>
<td>Martin, Lucille</td>
<td>3823 Pahoa Ave.</td>
</tr>
<tr>
<td>Mathews, Sarah E.</td>
<td>2812 Kahawai</td>
</tr>
<tr>
<td>Matsuguma, Emma R.</td>
<td>1138 20th Ave.</td>
</tr>
</tbody>
</table>
Mayo, Janet, 755 16th Ave.
McBride, Sara V., 2441 Tusitala St.
McCabe, Katherine, 2160 Pauoa Rd.
McFadden, Elsa G., 264-B Kailulani Ave.
McInerny, Marie, 1055 15th Ave.
McPherson, (Mrs.) Helen M., 3515 Maunaloa Ave.
Mecham, Francis D., La Verne, Okla.; 3490 Kalua Rd.
Mendardi, Iva V., Ewa, Oahu
Mendonca, Lena S., 1519 Piikoi St.
Mengler, Wilhelmina J., 1524 Pensacola St.
Miles, Frances, 943 16th Ave.
Miwa, Edith, Lihue, Kauai; 1215 Alexander St.
Miwa, Ernest T., 4241 Waialae Ave.
Miyahara, Owa, 1445-E Kewalo St.
Miyake, Yoshichi, 2012 Bingham St.
Miyatake, Francis T., Box 215, Waialua, Oahu
Miyamoto, Lucy A., 3243 Herbert St.
Moniz, Anthony S., 644 Magellan Ave.
Moore, Frederick C., 774 Kinau Rd.; Schofield Barracks
Mosser, Lani A., 1640 S. King St.
Mott-Smith, Mary Anne, Box 395, Honolulu
Mukai, Kazuo, Box 177, Waialua, Oahu
Murakoa, Kaoru, 1255 Rycroft St.
Myers, Thelma L., 243-A Liliuokalani Ave.
Nakamura, Edwin, 1026 Kopke St.
Neyman, Betty, 733 Spencer St.
Nishi, Jessie, 564 N. King St.
Noa, (Mrs.) Mae M., 1350 8th Ave.
Nobriga, Francis J., 3427 Pehu St.
Nomura, Isuyo, Heeia, Oahu; 2118 Algaroba St.
Nonaka, Kotaro, Pearl City, Oahu
Nua, John, 632 10th Ave.
Nunes, Mary S., 627 10th Ave.
O'Dowda, (Mrs.) Dorothy, 2601 Pamoa Rd.
Okabe, Kikuyo, 2728 Huapala St.
Oliveira, Virginia P., 160 Liliuokalani Ave.
Oliver, Max G., 2511 Kuhio Ave.
Olund, Claretta, 72 Dowsett Ave.
Ota, Gladys K., 850 11th Ave.
Otto, Lucile, 951 Prospect
Pa, (Mrs.) Kuulei, 1416-D Lunalilo St.
Palmer, Clarence B., Ethlyn, Mo.; 1513 Spreckels St.
Palmer, (Mrs.) Dorothy M., 1450 Kewalo St.
Palmer, C. Winslow, 1450 Kewalo St.
Park, Sam Young, 1515-A Pele St.
Parks, Gladys M., 211 Lewers Rd.
Peck, L. Tenny, 4369 Royal Place; Box 2715, Honolulu
Peralta, (Mrs.) Virginia, 859 20th Ave.
Perkins, (Mrs.) Bessie S., 2632 Puunui Ave.
Petersen, (Mrs.) Bessie, 2378 University Ave.
Phaender, Ann M., 2868 Kahawai St.
Phillipts, Katherine L., 2138 Haena Dr.
Pierce, Robert W., Corpus Christi, Texas; 1117 3rd Ave.
Posil, Mabel, 3841 Pahoa Ave.
Pregill, Mary, 2312 Kalihi St.
Preston, Mary, 1046 Young St.
Price, Angeline L., 302 Liliuokalani Ave.
Puua, (Mrs.) Annie, 2841 Kamanakiki St.
Rath, Robert, 2246 Seaview Ave.
Rawlins, Portia, 2613 Haleleina St.
Reeves, James A., Hq. Det., Fort Armstrong
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Rhoads, Elvis B., 2637 Oahu Ave.
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Romani, Hope F., 316-K Seaside Ave.
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Ruething, Lucy F., 3703 Sierra Dr.
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Summers, Paul E., Army & Navy Y.M.C.A.
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Wade, Anne E., 2138 Haena Dr.
Wahineokai, (Mrs.) Helen, Waihee, Maui; 1056 Noble Lane
Warinner, Rose, 2161 Mahalo St.
Weiss, (Mrs.) Charlotte S., MacDonald Hotel
Weiss, Donald F., 128 East St., Lawrence, Mass.; MacDonald Hotel
Westly, (Mrs.) Ella T., 2710 Manoa Rd.
Whigam, Lucy, Ewa, Oahu
Whittmarsh, Roger, 3111 Duval St.
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Williams, Mary, 821 12th Ave.
Williams, (Mrs.) Nina, 3366 Maunaloa Ave.
Wilson, Frank S., Kodoli, Kolhapur State, India; Atherton House
Wing, Winifred, Kamehameha Girl's School
Wise, Sykes R., 69-A Country Club Road
Witter, Norma, Hollister, Calif.; Makiki Hotel
Wong, Arthur F., 1950 Pauoa Rd.
Wong, (Mrs.) Anna A. C., 1625-E Liliha St.
Wong, (Mrs.) Eleanor A., 1731-A Fort St.
Wong, Ella S., 1226 9th Ave.
Wong, Elsie, 2026 Ulu St.
Wong, (Mrs.) Eva F., 1037 Kinau St.; Box 2092, Honolulu
Wong, Florian, 717 20th Ave.
Wong, (Mrs.) Mabel, Box 1491, Honolulu
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Wongwai, Archie, 1536 Leilani St.
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Wood, Lancelot, Sub-Base, Pearl Harbor
Wood, Nadine E. W., 2421 Ala Wai Blvd.
Wun, En Yin, 2416 Puunui Ave.
Wysard, Adele C., 15 Glenbrook Ave., Yonkers, N. Y.; 2541 Malama Pl.
Yamamoto, Misako, 912-C Akana Lane
Yamamoto, Ruth S., 2565-A Hamohamo Rd.
Yamamoto, Tadao, 402 Keawe St.
Yap, Helen U. B., 2131 Eheu St.
Yee, Ken, 810 Birch St.
Yim, (Mrs.) Emma C., 1625-D Liliha St.
Register of Students

Yim, Sarah, Kohala, Hawaii; 1012 Belser St.
Young, Alice H. T., 1420 9th Ave.
Young, (Mrs.) Ella K., Wailupe, Oahu; Box 3380, Honolulu
Young, Elsie L., 404 Kaliihi St.
Young, Emma, 1901 Fort St.
Young, Ethel C., 1344 Mcl Rd.
Young, Gardner, Los Gatos, Calif.; Army & Navy Y.M.C.A.
Yue, (Mrs.) Anita H., 2128 Bingham St.
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1934-1935

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