ANNOUNCEMENT OF COURSES

FOR SEMESTERS BEGINNING SEPTEMBER 17, 1945 AND FEBRUARY 4, 1946
UNIVERSITY OF HAWAII BULLETIN

VOLUME XXIV    NUMBER 4    SEPTEMBER 1945

ANNOUNCEMENT OF COURSES

FOR SEMESTERS BEGINNING
September 17, 1945 and February 4, 1946
<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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</thead>
<tbody>
<tr>
<td>Sept. 11, Tuesday</td>
<td>Freshman Orientation Period</td>
</tr>
<tr>
<td>Sept. 12, Wednesday</td>
<td>Registration of Sophomores, Juniors, and Seniors</td>
</tr>
<tr>
<td>Sept. 13, Thursday</td>
<td>Registration of Freshmen</td>
</tr>
<tr>
<td>Sept. 15, Saturday</td>
<td>Registration of all other students</td>
</tr>
<tr>
<td>Sept. 17, Monday</td>
<td>Instruction begins</td>
</tr>
<tr>
<td>Nov. 12, Monday*</td>
<td>Armistice Day</td>
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<tr>
<td>Nov. 22, Thursday through</td>
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<tr>
<td>Nov. 24, Saturday</td>
<td>Thanksgiving recess</td>
</tr>
<tr>
<td>Dec. 19, Wednesday</td>
<td>Last day of instruction before Christmas recess</td>
</tr>
<tr>
<td>Jan. 3, Thursday</td>
<td>Instruction resumes</td>
</tr>
<tr>
<td>Jan. 17, Thursday</td>
<td>Last day of instruction in First Semester</td>
</tr>
<tr>
<td>Jan. 21, Monday</td>
<td>Final examinations begin</td>
</tr>
<tr>
<td>Jan. 26, Saturday</td>
<td>First Semester ends</td>
</tr>
<tr>
<td>Feb. 1, Friday</td>
<td>Registration for the Second Semester</td>
</tr>
<tr>
<td>Feb. 2, Saturday</td>
<td>Registration for the Second Semester</td>
</tr>
<tr>
<td>Feb. 4, Monday</td>
<td>Instruction begins</td>
</tr>
<tr>
<td>Feb. 12, Tuesday*</td>
<td>Lincoln's Birthday</td>
</tr>
<tr>
<td>Feb. 22, Friday*</td>
<td>Washington's Birthday</td>
</tr>
<tr>
<td>April 19, Friday</td>
<td>Easter recess</td>
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<tr>
<td>April 20, Saturday</td>
<td>Easter recess</td>
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<tr>
<td>May 23, Thursday</td>
<td>Last day of instruction in Second Semester</td>
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<tr>
<td>May 27, Monday</td>
<td>Final examinations begin</td>
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<tr>
<td>May 30, Thursday*</td>
<td>Memorial Day</td>
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<tr>
<td>June 4, Tuesday</td>
<td>Second Semester ends</td>
</tr>
<tr>
<td>June 11, Tuesday</td>
<td>Commencement</td>
</tr>
<tr>
<td>June 17, Monday</td>
<td>Registration for Summer Session</td>
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* Territorial holiday if so designated by the Governor.
This September issue of the University of Hawaii Bulletin completes publication for the college year 1945-46 of the information usually contained in the June issue. This year’s June issue contained general information on the University, and this September issue lists the faculty and staff, announces courses for the First and Second Semesters, 1945-46, and summarizes enrollment in the 1944-45 sessions. The bibliographical material contained in the September issues in 1943 and 1944 will not be published this year.
# BOARD OF REGENTS

<table>
<thead>
<tr>
<th>Name</th>
<th>Term</th>
<th>EXPIRES</th>
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<tbody>
<tr>
<td>William P. Alexander</td>
<td></td>
<td>1947</td>
</tr>
<tr>
<td>Manager, Grove Farm Company</td>
<td></td>
<td></td>
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<tr>
<td>Lihue, Kauai</td>
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<tr>
<td>Willowdean C. Handy</td>
<td></td>
<td>1949</td>
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<tr>
<td>Ethnologist</td>
<td></td>
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<tr>
<td>Honolulu</td>
<td></td>
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<tr>
<td>Fred K. Lam</td>
<td></td>
<td>1947</td>
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<tr>
<td>Physician and Surgeon</td>
<td></td>
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<tr>
<td>Honolulu</td>
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<tr>
<td>Oren E. Long, ex officio</td>
<td></td>
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<tr>
<td>Superintendent, Department of Public Instruction</td>
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<td>Honolulu</td>
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<tr>
<td>E. P. Lydgate</td>
<td></td>
<td>1949</td>
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<tr>
<td>Cashier, Maui Pineapple Company</td>
<td></td>
<td>Paia, Maui</td>
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<tr>
<td>J. Frank McLaughlin</td>
<td></td>
<td>1947</td>
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<tr>
<td>Judge, United States District Court</td>
<td></td>
<td>Honolulu</td>
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<tr>
<td>J. Scott B. Pratt</td>
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<td>1947</td>
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<tr>
<td>Manager, Kohala Sugar Company</td>
<td></td>
<td>Hawi, Hawaii</td>
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<tr>
<td>Gregg M. Sinclair, ex officio</td>
<td></td>
<td></td>
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<tr>
<td>President of the University</td>
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<td>Honolulu</td>
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<tr>
<td>Philip E. Spalding</td>
<td></td>
<td>1949</td>
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<tr>
<td>President, C. Brewer and Company</td>
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<td>Honolulu</td>
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## OFFICERS OF THE BOARD

<table>
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<tr>
<th>Position</th>
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<tbody>
<tr>
<td>Chairman</td>
<td>Philip E. Spalding</td>
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<tr>
<td>Vice-Chairman</td>
<td>J. Frank McLaughlin</td>
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<tr>
<td>Secretary</td>
<td>Paul S. Bachman</td>
</tr>
</tbody>
</table>
FACULTY AND STAFF
AS OF JULY 1, 1945

ADMINISTRATION

GREGG M. SINCLAIR, M.A. . . . . . . . President of the University
ARTHUR R. KELLER, Sc.D. . . . . . . . Vice-President and Dean of the College of Applied Science
PAUL S. BACHMAN, Ph.D. . . . . . . . Dean of the Faculties
THAYNE M. LIVESAY, Ph.D. . . . . . Dean of the College of Arts and Sciences
BENJAMIN O. WIST, Ph.D. . . . . . . . Dean of Teachers College
BRUCE WHITE, Ph.D. . . . . . . . . . . Dean of Student Personnel
STANLEY D. PORTEUS, Sc.D. . . . . . Director, Psychological and Psychopathic Clinic
JOHN H. BEAUMONT, Ph.D. . . . . . . . Director, Hawaii Agricultural Experiment Station
ROY A. GOFF, B.S. . . . . . . . . . . Acting Director, Cooperative Extension Service in Agriculture and Home Economics
ALBERT J. MCKINNEY, M.A. . . . . . Acting Director, Adult Education Service
JOSEPH M. SKORPEN, B.A. . . . . . . . Acting Treasurer
HELEN B. MACNEIL, M.A. . . . . . . . Registrar
CARL G. STROVEN, Ph.D. . . . . . . . Librarian
DOROTHY P. ISOM, M.A. . . . . . . . . Counselor for Women
STANLEY ORNE, M.A. . . . . . . . . . University Publications Editor

INSTRUCTION

ISABELLA A. ABBOTT, M.S., Assistant in Botany—B.A., Univ. of Hawaii, 1941; M.S., Univ. of Michigan, 1942.


CARL B. ANDREWS, M.S., Professor Emeritus of Engineering—B.S., Rose Polytechnic Institute, 1908, M.S., 1909, C.E., 1917; M.S., Massachusetts Institute of Technology, 1928.

FRED E. ARMSTRONG, Ph.D., Professor of Agricultural Education—B.S., Clemson College, 1916; M.S., Univ. of Minnesota, 1921; Ph.D., Pennsylvania State College, 1940.

GENEVIEVE ARNOLD, M.A., Instructor in English—B.A., Univ. of Minnesota, 1934, M.A., 1936.

PAUL S. BACHMAN, Ph.D., Professor of History and Government—B.S., Ohio State Univ., 1922; M.A., Univ. of Washington, 1925, Ph.D., 1927.
<table>
<thead>
<tr>
<th>Name</th>
<th>Title/Institution</th>
<th>Details</th>
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<tbody>
<tr>
<td>HELEN M. BAUKIN</td>
<td>Lecturer in Dental Hygiene—R.D.H., Eastman School of Dental Hygiene</td>
<td>1920.</td>
</tr>
<tr>
<td>ALLADINE BELL, M.A.</td>
<td>Instructor in English—B.S., Northwestern Univ., 1935; M.A., Stanford Univ., 1941.</td>
<td>(On leave 1945-46.)</td>
</tr>
<tr>
<td>J. GARDNER BENNETT, C.E.</td>
<td>Professor of Civil Engineering—B.S., Cornell College, 1912; C.E., Univ. of Wisconsin</td>
<td>1925.</td>
</tr>
<tr>
<td>LAVENNE M. BENNETT, M.A.</td>
<td>Instructor in Health and Physical Education—B.A., Fresno State College, 1934; M.A., Univ. of California</td>
<td>1936.</td>
</tr>
<tr>
<td>AGNES C. BICKERTON, M.A.</td>
<td>Instructor in Dental Hygiene—Diploma, Honolulu Dental Infirmary School of Dental Hygiene, 1921; B.A., Univ. of Hawaii, 1932, M.A., 1935.</td>
<td></td>
</tr>
<tr>
<td>HELENE B. BIGGS, B.A.</td>
<td>Lecturer in French—B.A., Oberlin College, 1917.</td>
<td></td>
</tr>
<tr>
<td>EARL M. BILGER, Ph.D.</td>
<td>Professor of Chemistry—B.S., Wesleyan Univ., 1920; M.A., 1921; Ph.D., Yale Univ., 1925.</td>
<td></td>
</tr>
<tr>
<td>LEONORA N. BILGER, Ph.D.</td>
<td>Professor of Chemistry and Chairman, Department of Chemistry—B.A., Univ. of Cincinnati, 1913, M.A., 1914, Ph.D., 1916.</td>
<td></td>
</tr>
<tr>
<td>ROBERT C. BRASTED, Ph.D.</td>
<td>Assistant Professor of Chemistry—B.S., George Washington Univ., 1938, M.A., 1939; Ph.D., Univ. of Illinois, 1942.</td>
<td></td>
</tr>
<tr>
<td>THELIS M. BUCKLIN, M.S.</td>
<td>Instructor in Health and Physical Education—B.S., Battle Creek College, 1935; M.S., Indiana Univ., 1936.</td>
<td></td>
</tr>
<tr>
<td>VIRGINIA L. CARDIFF, B.A.</td>
<td>Instructor in English—B.A., Univ. of Redlands, 1940.</td>
<td></td>
</tr>
<tr>
<td>IDA J. CARO, M.A.</td>
<td>Assistant Professor of Education and Principal of Teachers College Elementary and Intermediate School—B.S., Teachers College, Columbia Univ., 1927; M.A., Univ. of Hawaii, 1929.</td>
<td></td>
</tr>
<tr>
<td>ELIZABETH B. CARR, M.A.</td>
<td>Instructor in English—B.A., Univ. of Oklahoma, 1924, M.A., 1940.</td>
<td></td>
</tr>
<tr>
<td>ADNA G. CLARKE, LL.B.</td>
<td>Professor Emeritus of Police Administration—LL.B., Kansas Univ., 1897, B.A., 1900.</td>
<td></td>
</tr>
<tr>
<td>HARRY F. CLEMENTS, Ph.D.</td>
<td>Professor of Botany—B.S., Univ. of Wisconsin, 1924, M.S., 1925; Ph.D., Univ. of Chicago, 1929.</td>
<td></td>
</tr>
<tr>
<td>ROBERT W. CLOPTON, M.Ed.</td>
<td>Assistant Professor of Education—B.A., Maryville College, 1926; M.Ed., Univ. of Hawaii, 1941.</td>
<td></td>
</tr>
<tr>
<td>WILLIS B. COALE, Ph.D.</td>
<td>Associate Professor of English—B.A., Oberlin College, 1912; M.A., Columbia Univ., 1927, Ph.D., 1929.</td>
<td></td>
</tr>
<tr>
<td>HARRY COLLINS, M.A.</td>
<td>Associate Professor of English—B.A., Univ. of Minnesota, 1912; M.A., Columbia Univ., 1917.</td>
<td></td>
</tr>
<tr>
<td>MERVYN I. CONNER, D.D.S.</td>
<td>Lecturer in Dental Hygiene—D.D.S., Univ. of California, 1926.</td>
<td></td>
</tr>
<tr>
<td>JAMES V. CUNNINGHAM, Ph.D.</td>
<td>Assistant Professor of English—B.S., Stanford Univ., 1934, Ph.D., 1943.</td>
<td></td>
</tr>
<tr>
<td>JOHN DAWE, L.D.S.</td>
<td>Lecturer in Dental Hygiene—D.D.S., Washington Univ., 1915; L.D.S., Univ. of Saskatchewan, 1918.</td>
<td></td>
</tr>
<tr>
<td>ROBERT B. DEAN, Ph.D.</td>
<td>Assistant Professor of Chemistry—B.A., Univ. of California, 1935; Ph.D., Univ. of Cambridge, 1939.</td>
<td></td>
</tr>
</tbody>
</table>
FRANK T. DILLINGHAM, M.A., Professor Emeritus of Chemistry—B.S., Worcester Polytechnic Institute, 1901; M.A., Yale Univ., 1916.


RUTH DOUGLASS, M.S., Assistant Professor of Home Economics—B.A., Pomona College, 1925; M.S., Oregon State College, 1932.

CHARLES H. EDMONDSON, Ph.D., Professor Emeritus of Zoology—Ph.B., Univ. of Iowa, 1903, M.S., 1904, Ph.D., 1906.

WILLARD H. ELLER, Ph.D., Professor of Physics and Chairman, Department of Physics—B.S., Univ. of California, 1914; M.S., Univ. of Washington, 1925; Ph.D., Univ. of California, 1928.

CHARLES J. ENGARD, Ph.D., Associate Professor of Botany—B.S., Washington State College, 1935, M.S., 1937; Ph.D., Univ. of Chicago, 1938.

ERIC A. FENNEL, M.D., Director of the Medical Technology Program—M.D., Univ. of Cincinnati; certification by the American Board of Pathology.

HARVEY I. FISHER, Ph.D., Instructor in Zoology—B.S., Kansas State College, 1937; Ph.D., Univ. of California, 1942.


THEODORE W. FORBES, Ph.D., Associate Professor of Psychology—B.A., Oberlin College, 1924; Ph.D., Ohio State Univ., 1931.

WILLIAM A. FRAZIER, Ph.D., Professor of Agriculture—B.S., Agricultural and Mechanical College of Texas, 1930; M.S., Univ. of Maryland, 1931, Ph.D., 1933.


GLADYS M. GARDNER, M.S., Assistant Professor of Education and Assistant Principal of Preschool Unit—B.S., Univ. of California, 1941, M.S., 1943.

MAY K. GAY, M.A., Assistant Professor of Health and Physical Education and Chairman, Department of Health and Physical Education—B.A., Univ. of Hawaii, 1923; M.A., Columbia Univ., 1925.


LOIS E. GILES, M.A., Instructor in Education—B.S., Univ. of Nebraska, 1939; M.A., Univ. of Michigan, 1942.

LEE GLOVER, M.A., Associate Professor of Economics and Business—B.S., Univ. of Alabama, 1925; M.A., Univ. of Chicago, 1928.


CHRISTOPHER GREGORY, Ph.D., Instructor in Mathematics and Engineering—B.S., California Institute of Technology, 1938, M.S., 1939, Ph.D., 1941.

KATHERINE B. GRUELLE, M.A., Assistant Professor of Home Economics—B.S., Ohio State Univ., 1917; M.A., Teachers College, Columbia Univ., 1925.

CHRISTOPHER J. HAMRE, Ph.D., Professor of Zoology and Chairman, Department of Zoology and Entomology—B.A., St. Olaf College, 1923; M.S., Univ. of Wisconsin, 1927, Ph.D., 1930.

FLOYD W. HARTMANN, Sc.D., Assistant Professor of Bacteriology and Acting Chairman, Department of Bacteriology—B.S., Univ. of Michigan, 1935, M.S., 1938, Sc.D., 1942.
FACULTY AND STAFF


LOUIS A. HENKE, M.S., Professor of Agriculture—B.S., Univ. of Wisconsin, 1912, M.S., 1923.

ROBERT W. HIATT, Ph.D., Assistant Professor of Zoology—B.A., San Jose State College, 1936; Ph.D., Univ. of California, 1941.

RALPH C. HOEBER, J.D., Associate Professor of Economics and Business—B.A., Univ. of Oregon, 1921, M.A., 1923; J.D., Stanford Univ., 1927. (On leave 1945-46.)

FREDERICK G. HOLDAWAY, Ph.D., Professor of Zoology—B.S., Univ. of Queensland, Australia, 1923, M.S., 1925; Ph.D., Univ. of Minnesota, 1928.

BERNHARD L. HÖRMANN, M.A., Assistant Professor of Sociology—B.A., Univ. of Hawaii, 1927, M.A., 1931.

MARIA HÖRMANN, B.A., Assistant Professor of German—B.A., Univ. of Hawaii, 1923.

MARTHA W. HOSCH, M.S.S., Associate Professor of Social Work—B.A., Sweet Briar College, 1928; M.S.S., Smith College, 1935.

CHARLES H. HUNTER, Ph.D., Associate Professor of History and Chairman, Department of History and Government—B.A., Stanford Univ., 1927, M.A., 1928, Ph.D., 1935.


JOHN J. JOHNSON, M.S., Lecturer in Mathematics—B.S., Cooper Institute, 1907; C.E., Brooklyn Polytechnic Institute, 1910, M.S. in C.E., 1912; M.S., Massachusetts Institute of Technology, 1927.

VIRGINIA A. JONES, B.S., Associate Professor of Public Health Nursing—R.N., Reid Memorial Hospital School of Nursing, 1920; B.S., Indiana Univ., 1933.


EDWARD KAHALE, Lecturer in Hawaiian.


EDNA K. KANEHIGHE, B.S., Assistant Director of Food Service—B.S., Univ. of Hawaii, 1944.


ALFONS L. KORN, M.A., Instructor in English—B.A., Univ. of Oregon, 1927; B.A., Oxford Univ., 1930; M.A., Univ. of California, 1937.

E. O. KRAEMER, Ph.D., Assistant Professor of Economics and Business—Ph.D., Univ. of Hamburg, 1929.

HENRIETTA C. KRANTZ, M.A., Instructor in English—B.A., Milwaukee Teachers College, 1922; M.A., Univ. of Hawaii, 1945.


RALPH S. KUYKENNALL, M.A., Associate Professor of History—B.A., College of the Pacific, 1910; M.A., Univ. of California, 1918.

RICHARD K. C. LEE, Dr.P.H., Lecturer in Public Health Nursing—M.D., Tulane Medical School, 1933; Dr.P.H., Yale Univ., 1938.

AMOS P. LEIB, B.S., Instructor in English—B.S., Haverford College, 1938.

GILBERT G. LENTZ, Ph.D., Professor of Public Administration—B.Ed., Southern Illinois State Teachers College, 1931; M.A., Univ. of Illinois, 1932, Ph.D., 1938.


ANDREW W. LIND, Ph.D., Professor of Sociology and Chairman, Department of Anthropology and Sociology—B.A., Univ. of Washington, 1924, M.A., 1925; Ph.D., Univ. of Chicago, 1931.
<table>
<thead>
<tr>
<th>Name</th>
<th>Degree(s)</th>
<th>Position</th>
<th>Institution of Interest</th>
<th>Year(s) of Attendance</th>
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<tbody>
<tr>
<td>THAYNE M. LIVESAY</td>
<td>Ph.D., Professor of Psychology and Chairman</td>
<td>Department of Psychology—B.A., Pacific Univ., 1917; M.A., Univ. of Washington, 1921, Ph.D., 1931.</td>
<td></td>
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<tr>
<td>FAY E. McCall</td>
<td>B.S., Assistant Professor of Mathematics—B.S., Kansas State College, 1913.</td>
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<tr>
<td>ARTHUR J. MARDER</td>
<td>Ph.D., Associate Professor of History—B.A., Harvard Univ., 1931, M.A., 1932, Ph.D., 1936. (On leave 1945-46.)</td>
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<tr>
<td>JACK M. MARNIE</td>
<td>D.M.D., Lecturer in Dental Hygiene—D.M.D., North Pacific College of Dentistry, 1938.</td>
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<tr>
<td>CHARLOTTE E. MEES</td>
<td>M.S., Instructor in Home Economics—B.S., Univ. of Wisconsin, 1938, M.S., 1944.</td>
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<tr>
<td>CAREY D. MILLER</td>
<td>M.S., Professor of Foods and Nutrition and Chairman, Department of Home Economics—B.A., Univ. of California, 1917; M.S., Columbia Univ., 1922.</td>
<td></td>
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<tr>
<td>CAROL MITCHELSON</td>
<td>M.S., Instructor in Home Economics—B.S., Kansas State College, 1938, M.S., 1940.</td>
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<tr>
<td>IWAO MIYAKE</td>
<td>M.S., Assistant Professor of Physics—B.S., Univ. of Hawaii, 1926, M.S., 1929.</td>
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<tr>
<td>CHARLES A. MOORE</td>
<td>Ph.D., Associate Professor of Philosophy and Chairman, Department of Philosophy—B.A., Yale Univ., 1926, Ph.D., 1932.</td>
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<tr>
<td>BERTHA MUELLER</td>
<td>Ph.D., Associate Professor of German—B.A., Northwestern Univ., 1926; M.A., Univ. of Wisconsin, 1929, Ph.D., 1935.</td>
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<tr>
<td>BEN NORRIS</td>
<td>B.A., Assistant Professor of Art—B.A., Pomona College, 1931.</td>
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<tr>
<td>DREW B. PALLETTE</td>
<td>M.A., Instructor in English—B.A., Univ. of California at Los Angeles, 1933; M.A., Univ. of Southern California, 1934; M.A., Harvard Univ., 1937. (On leave 1945-46.)</td>
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<tr>
<td>HAROLD S. PALMER</td>
<td>Ph.D., Professor of Geology—B.A., Yale Univ., 1912, Ph.D., 1923.</td>
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<tr>
<td>IRVING O. PECKER</td>
<td>B.A., Professor of Romance Languages and Chairman, Department of European Languages—B.A., Boston Univ., 1912.</td>
<td></td>
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</tr>
<tr>
<td>EDNA L. PEGRAM</td>
<td>M.A., Instructor in Education—B.A., Meredith College, 1936; M.A., Univ. of Iowa, 1940.</td>
<td></td>
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<tr>
<td>MARY R. PORTER</td>
<td>Ph.D., Associate Professor of Education—B.S., Ohio State Univ., 1930, M.A., 1934, Ph.D., 1938.</td>
<td></td>
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<tr>
<td>ANTON POSTI</td>
<td>M.S., Instructor in Chemistry—B.S., Univ. of Hawaii, 1940, M.S., 1942. (On leave 1945-46.)</td>
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<tr>
<td>JOHN H. QUISENBERRY</td>
<td>Ph.D., Associate Professor of Poultry Husbandry—B.S., Agricultural and Mechanical College of Texas, 1931; M.S., Univ. of Illinois, 1933, Ph.D., 1937.</td>
<td></td>
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<tr>
<td>JOHN A. RADEMAKER</td>
<td>Ph.D., Assistant Professor of Sociology—B.A., College of Puget Sound, 1930; M.A., Univ. of Washington, 1935, Ph.D., 1939.</td>
<td></td>
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<tr>
<td>ROSETTA V. RAMSEY</td>
<td>M.A., Instructor in English—B.A., Western Michigan College, 1937; M.A., Univ. of Michigan, 1941.</td>
<td></td>
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<tr>
<td>MAYBELLE F. ROTH</td>
<td>M.Ed., Instructor in Spanish—B.S., Oregon State College, 1921; B.A., Univ. of California, 1933; M.Ed., Univ. of Hawaii, 1936.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HAROLD ST. JOHN</td>
<td>Ph.D., Professor of Botany and Chairman, Department of Botany—B.A., Harvard Univ., 1914, M.A., 1915, Ph.D., 1917.</td>
<td></td>
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</tbody>
</table>
FACULTY AND STAFF


SHUNZO SAKAMAKI, Ph.D., Associate Professor of History—B.A., Univ. of Hawaii, 1927, M.A., 1928; Ph.D., Columbia Univ., 1939.

SOICHI SAKAMOTO, Instructor in Physical Education.

E. VERN SAYERS, Ph.D., Professor of Education and Chairman, Department of Education—B.A., Indiana Univ., 1914, M.A., 1921; Ph.D., Columbia Univ., 1924.

WILLIAM M. SHANAHAN, M.D., Lecturer in Public Health Nursing—B.S., Univ. of Wisconsin, 1934, M.D., 1936.

RICHARD H. P. SIA, M.D., University Physician and Lecturer in Health Education—B.S., Boone Univ., China, 1914; M.D., Western Reserve Univ., 1918.

JANET SMITH, Ph.D., Associate Professor of Education and Principal of Teachers College Preschool Unit—B.A., Ohio Wesleyan Univ., 1928; M.A., State Univ. of Iowa, 1940, Ph.D., 1942.


WILLIAM B. STOREY, Ph.D., Associate Professor of Agriculture—B.S., Univ. of Hawaii, 1935, M.S., 1937; Ph.D., Cornell Univ., 1940.


JOAN SWIFT, M.A., Instructor in Education—B.A., Univ. of Iowa, 1941, M.A., 1942.

CHEUK-WOON TAAM, Ph.D., Assistant Professor of Chinese—B.A., Lingnan Univ., China, 1922; B.S., Columbia Univ., 1931; Ph.D., Univ. of Chicago, 1933.

ROBERT W. TAYLOR, Lecturer in Business.

ALBERT Q. Y. TOM, B.S., Instructor in Engineering and Mathematics—B.S., Univ. of Hawaii, 1944.


GLADYS M. TRAUT, M.A., Instructor in Education—B.A., Univ. of Michigan, 1927; M.A., Univ. of Hawaii, 1929.

ELIZABETH L. TURNER, M.A., Instructor in Education—B.A., Wheaton College, 1942; M.A., Univ. of Michigan, 1944.

YUKUO UYEHARA, M.A., Assistant Professor of Japanese and Acting Chairman, Department of Asiatic and Pacific Languages—B.A., Univ. of Hawaii, 1931, M.A., 1936.

DONALD L. VAN HORN, Ph.D., Assistant Professor of Agriculture—B.S., Univ. of Nebraska, 1939; M.S., Cornell Univ., 1940, Ph.D., 1943.

HAROLD A. WADSWORTH, B.S., Professor of Agriculture and Chairman, Department of Agriculture—B.S., Univ. of California, 1916.


KENICHI WATANABE, Ph.D., Assistant Professor of Mathematics—B.S., California Institute of Technology, 1936, Ph.D., 1940.


ERNEST C. WEBSTER, C.E., Professor of Mathematics and Engineering and Chairman, Department of Mathematics and Engineering—Ph.B., Yale Univ., 1904, C.E., 1906.

BRUCE WHITE, Ph.D., Associate Professor of Education—B.A., Willamette Univ., 1923; M.A., Univ. of Washington, 1932, Ph.D., 1935.

ELWIN L. WILLETT, Ph.D., Associate Professor of Agriculture—B.S., Michigan State College, 1937; M.S., Univ. of Nebraska, 1938; Ph.D., Cornell Univ., 1941.

WILLARD WILSON, Ph.D., Associate Professor of English—B.A., Occidental College, 1929; M.A., Columbia Univ., 1930; Ph.D., Univ. of Southern California, 1939.

JANET B. WIMBERLY, B.A., Instructor in English—B.A., Univ. of Washington, 1939.


ELON W. WIST, Ph.D., Professor of Education—B.A., Spokane College, 1910; M.A., Univ. of Hawaii, 1924; Ph.D., Yale Univ., 1937.


HARLEY H. ZEIGLER, Ph.D., Professor of Religion and Chairman, Department of Religion—M.A., Boston Univ., 1932, S.T.B., 1933, Ph.D., 1940.

PSYCHOLOGICAL AND PSYCHOPATHIC CLINIC

LEONA CHIDESTER, Ph.D., Associate Psychologist (for outer islands)—B.A., Univ. of Kansas, 1930; M.A., Ohio State Univ., 1931; Ph.D., Univ. of Kansas, 1937.

LUCILLE ERWIN, B.A., Junior Psychologist—B.A., Univ. of California, 1927.

COLIN J. HERRICK, Ph.D., Associate Psychologist—B.A., Haverford College, 1924; M.A., Univ. of Pennsylvania, 1934, Ph.D., 1939.

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STANLEY D. PORTEUS, Sc.D., Director—Sc.D., Univ. of Hawaii, 1933.

HAWAII AGRICULTURAL EXPERIMENT STATION


JOHN H. BEAUMONT, Ph.D., Director and Horticulturist—B.S., West Virginia Univ., 1917; Ph.D., Univ. of Minnesota, 1925.

HARRY F. CLEMENTS, Ph.D., Plant Physiologist—B.S., Univ. of Wisconsin, 1924, M.S., 1925; Ph.D., Univ. of Chicago, 1929.

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CHARLES K. FUJIMOTO, B.S., Assistant in Chemistry—B.S., Univ. of Hawaii, 1943.

GIICHI FUJIMOTO, M.S., Assistant Chemist—B.S., Univ. of Hawaii, 1921, M.S., 1923.

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J. WALTER HENDRICK, M.F., Assistant Plant Pathologist—B.S., North Carolina State College, 1937; M.F., Yale Univ., 1940.

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FACULTY AND STAFF

EDWARD Y. HOSAKA, M.S., Assistant Agronomist—B.S., Univ. of Hawaii, 1931, M.S., 1935.

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HARUYUKI KAMEMOTO, B.S., Assistant in Horticulture—B.S., Univ. of Hawaii, 1944.

YOSHINORI KANEHIRO, B.S., Assistant in Chemistry—B.S., Univ. of Hawaii, 1942.

KAZUO KIKUTA, B.S., Junior Plant Pathologist—B.S., Univ. of Hawaii, 1936.

H. WILLIAM KIRCH, Junior Horticulturist.


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JOHN S. McFARLANE, Ph.D., Assistant Horticulturist—B.S., Montana State College, 1938; Ph.D., Univ. of Wisconsin, 1942.


HIROMU MATSUMOTO, B.S., Assistant in Chemistry—B.S., Univ. of Hawaii, 1944.

MINORU Matsuura, B.S., Assistant in Plant Pathology—B.S., Univ. of Hawaii, 1938.

CAREY D. MILLER, M.S., Nutritionist—B.A., Univ. of California, 1917; M.S., Columbia Univ., 1922.

TOSHIYUKI NISHIDA, B.S., Assistant in Entomology—B.S., Univ. of Hawaii, 1941.

ROBERT K. PAHAU, B.S., Superintendent of University Farm, Kona, Hawaii—B.S., Univ. of Hawaii, 1918.

JOHN H. QUISENBERY, Ph.D., Associate Poultry Husbandman—B.S., Agricultural and Mechanical College of Texas, 1931; M.S., Univ. of Illinois, 1933, Ph.D., 1937.

JOHN C. RIPPERTON, M.S., Agronomist—B.S., Fairmont College (now Municipal College of Wichita), 1913; M.S., Kansas State College, 1916.

WINIFRED C. ROSS, M.S., Junior Nutritionist—B.S., Univ. of Arizona, 1936, M.S., 1941.

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MAKOTO TAKAHASHI, M.S., Junior Agronomist—B.S., Univ. of Hawaii, 1928, M.S., 1937.

FUTOSHI F. TAKAZAWA, Ph.D., Junior Chemist—B.S., Univ. of Hawaii, 1940; M.S., State Univ. of Iowa, 1942, Ph.D., 1944.

YOSHINORI TANADA, M.S., Junior Entomologist—B.S., Univ. of Hawaii, 1940, M.S., 1945.

DONALD L. VAN HORN, Ph.D., Assistant Agronomist—B.S., Univ. of Nebraska, 1939; M.S., Cornell Univ., 1940, Ph.D., 1943.

ELWIN L. WILLETT, Ph.D., Associate Animal Husbandman—B.S., Michigan State College, 1937; M.S., Univ. of Nebraska, 1938; Ph.D., Cornell Univ., 1941.
## Cooperative Extension Service in Agriculture and Home Economics

<table>
<thead>
<tr>
<th>Name</th>
<th>Title and Details</th>
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<tbody>
<tr>
<td>HIDEKO ASAHINO</td>
<td>B.S., Assistant County Home Demonstration Agent, Maui—B.S., Univ. of Hawaii, 1944.</td>
</tr>
<tr>
<td>DOUGLAS E. BALDWIN</td>
<td>County Agricultural Agent, Kauai.</td>
</tr>
<tr>
<td>SYLVIA N. BARNES</td>
<td>B.S., County Home Demonstration Agent, East Oahu—B.S., Iowa State College, 1924.</td>
</tr>
<tr>
<td>JOSEPH H. BOYD</td>
<td>B.S., Associate Specialist in Horticulture—B.S., West Virginia Univ., 1918.</td>
</tr>
<tr>
<td>BURNS M. BYRAM</td>
<td>B.S., Acting Associate Specialist in Club Work—B.S., Iowa State College, 1921.</td>
</tr>
<tr>
<td>HENRY N. CHIKASUE</td>
<td>B.S., Assistant County Agricultural Agent, West Oahu—B.S., Univ. of Hawaii, 1941.</td>
</tr>
<tr>
<td>EDWIN Y. CHUN</td>
<td>B.S., County Agricultural Agent, South Oahu—B.S., Univ. of Hawaii, 1933.</td>
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<tr>
<td>M. JAMES DOI</td>
<td>B.S., Acting Assistant County Agricultural Agent, Maui—B.S., Univ. of Hawaii, 1942.</td>
</tr>
<tr>
<td>INEZ M. ECKBLAD</td>
<td>M.A., Assistant Specialist in Foods and Nutrition—B.S., Univ. of Minnesota, 1930; M.A., Univ. of Missouri, 1936.</td>
</tr>
<tr>
<td>RALPH C. ELLIOTT</td>
<td>B.S., Associate Specialist in Agricultural Economics—B.S., Univ. of Minnesota, 1922.</td>
</tr>
<tr>
<td>RUTH A. EYRES</td>
<td>B.S., County Home Demonstration Agent, East Hawaii—B.S., Iowa State Teachers College, 1926.</td>
</tr>
<tr>
<td>GENEVIEVE M. FEAGIN</td>
<td>B.S., County Home Demonstration Agent, West Hawaii—B.S., Mary Hardin Baylor College, 1935.</td>
</tr>
<tr>
<td>PAUL A. GANTT</td>
<td>M.S., Associate Specialist in Animal Husbandry—B.S., Iowa State College, 1922, M.S., 1926. (On leave 1945-46.)</td>
</tr>
<tr>
<td>ROY A. GOFF</td>
<td>B.S., Acting Director of Agricultural Extension—B.S., Lombard College, 1913; B.S., Univ. of Illinois, 1915.</td>
</tr>
<tr>
<td>Y. BARON GOTO</td>
<td>B.S., Associate Specialist in University Extension and 4-H Club Work—B.S., Univ. of Hawaii, 1924. (On leave 1945-46.)</td>
</tr>
<tr>
<td>JANE S. HAMAMURA</td>
<td>B.S., Assistant Emergency Conservation Agent, West Oahu—B.S., Univ. of Hawaii, 1944.</td>
</tr>
<tr>
<td>ALICE B. HANCOCK</td>
<td>B.S., County Home Demonstration Agent, North Hawaii—B.S., Iowa State College, 1927.</td>
</tr>
<tr>
<td>HARUO H. HONMA</td>
<td>B.S., Acting Assistant Specialist in Agricultural Economics—B.S., Univ. of Hawaii, 1940.</td>
</tr>
<tr>
<td>RUTH A. HUBBARD</td>
<td>B.S., County Home Demonstration Agent, Molokai—B.S., Univ. of Illinois, 1938.</td>
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<tr>
<td>JOHN IWANE</td>
<td>B.S., Assistant County Agricultural Agent, West Hawaii—B.S., Univ. of Hawaii, 1940.</td>
</tr>
<tr>
<td>FRANCES M. JONES</td>
<td>B.S., County Home Demonstration Agent, South Oahu—B.S., Oklahoma Agricultural and Mechanical College, 1940.</td>
</tr>
<tr>
<td>SUEKO KAGEYAMA</td>
<td>B.S., Assistant County Home Demonstration Agent, East Hawaii—B.S., Univ. of Hawaii, 1944.</td>
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<tr>
<td>Y. EDWARD KANEMOTO</td>
<td>B.S., Junior Specialist in Agricultural Economics—B.S., Iowa State College, 1943.</td>
</tr>
<tr>
<td>BUNKI KUMABE</td>
<td>B.S., Acting Assistant County Agricultural Agent, Maui—B.S., Univ. of Hawaii, 1942.</td>
</tr>
<tr>
<td>CLARENCE LYMAN</td>
<td>M.S., Acting County Agricultural Agent, East Hawaii—B.S., Univ. of Hawaii, 1938, M.S., 1941.</td>
</tr>
<tr>
<td>RICHARD LYMAN, JR.</td>
<td>B.S., Assistant Specialist in Extension Farm Forestry and County Agricultural Agent, Molokai—B.S., Univ. of Hawaii, 1925. (On leave 1945-46.)</td>
</tr>
<tr>
<td>DOLORES MCCARTY</td>
<td>B.A., County Home Demonstration Agent, Kauai—B.A., Bluffton College, 1933.</td>
</tr>
<tr>
<td>MILDRED McINTOSH</td>
<td>B.S., Assistant to Supervisor of Emergency War Food Project—B.S., Columbia Univ., 1919.</td>
</tr>
<tr>
<td>GEORGE E. MARVIN</td>
<td>M.S., County Agricultural Agent, North Hawaii—B.S., Univ. of Wisconsin, 1923, M.S., 1926.</td>
</tr>
<tr>
<td>KEICHI MIHATA</td>
<td>B.A., Acting Assistant County Agricultural Agent, North Hawaii—B.A., Univ. of Hawaii, 1935.</td>
</tr>
</tbody>
</table>
FACULTY AND STAFF

FRANK T. MURPHY, B.S., County Agricultural Agent, Maui—B.S., Oregon State College, 1917.

YUKIO NAKAGAWA, B.S., Assistant County Agricultural Agent, South Oahu—B.S., Univ. of Hawaii, 1940.

RALPH H. OKUMOTO, B.S., Assistant County Agricultural Agent, West Oahu—B.S., Univ. of Hawaii, 1939.

FUYUKI OKUMURA, B.A., County Agricultural Agent, West Oahu—B.A., Yale Univ., 1923.

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MERRILL K. RILEY, M.S., County Agricultural Agent, East Oahu—B.S., Colorado College, 1927; M.S., South Dakota State College, 1929.

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FRANCIS M. TAKISHITA, Assistant County Agricultural Agent, Maui.

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HARVEY F. WILLEY, Assistant County Agricultural Agent, Maui.

ROKURO YAMAGUCHI, B.S., Acting Assistant County Agricultural Agent, South Oahu—B.S., Univ. of Hawaii, 1942.
ANNOUNCEMENT OF COURSES
FOR 1945-46

Courses are listed alphabetically by subject. Courses numbered 100 to 199 are lower division courses, intended primarily for Freshmen and Sophomores. Those numbered 200 to 299 are upper division courses, primarily for Juniors and Seniors but open to graduate students. Courses numbered 300 and higher are primarily for graduate students, but, unless otherwise stated, are open to Seniors by consent of the instructor.

A schedule stating the time and place of meeting of all courses is issued by the Registrar in September for the First Semester, in January for the Second Semester, and in April for the Summer Session.

Persons wishing to audit courses should see the statement on "Admission of Auditors," on page 12 of Information on Organization, Facilities, Admission, and Curriculums for the 1945-46 Sessions, University of Hawaii Bulletin for June, 1945.

Summer session and evening courses are announced in separate publications.

AGRICULTURE

100 ORIENTATION COURSE. Lectures to acquaint the student with the fields of agriculture in Hawaii and to help him select a major field of study. First semester; no credit. Mr. Wadsworth.

151 ANIMAL HUSBANDRY. A general study of the important breeds of horses, cattle, sheep, and swine; and of their care and management. Lectures, assigned readings, and laboratory work. Laboratory fee $1.00. Second semester; 3 credits. Mr. Henke.

152 POULTRY HUSBANDRY. Elementary anatomy of digestive and reproductive systems, genetics of egg production, and principles of poultry husbandry. Two lectures and one laboratory period a week. Laboratory fee $1.00. First semester; 3 credits. Mr. Quisenberry.

162 TROPICAL POMOLOGY. Origin, description, and cultural requirements of the principal fruit and nut crops of Hawaii. Two lectures and one laboratory period a week. Prerequisites: Chemistry 103; Botany 100; Zoology 100. Laboratory fee $1.00. First semester; 3 credits. (Alternate years; not offered 1945-46.) Mr. Storey.

164 TRUCK CROP PRODUCTION. Origin, description, and cultural requirements of the more important vegetable crops in Hawaii. Two lectures and one laboratory period a week. Prerequisites: Chemistry 103; Botany 100; Zoology 100. First semester; 3 credits. Mr. Frazier.

250 SOILS. Origin and physical properties of local soils. Texture, structure, and moisture relations. Three lectures and one laboratory period a week. Prerequisites: Chemistry 103; Physics 102. Laboratory fee $2.00. First semester; 4 credits. Mr. Wadsworth.
253 DAIRYING. The breeding, feeding, and management of dairy animals; care and sale of dairy products, with emphasis upon the handling of milk to insure good quality. Two lectures and one laboratory period a week. Laboratory fee $1.00. Second semester; 3 credits. (Alternate years; not offered 1945-46.) Mr. Willett.

254 PRINCIPLES OF GENETICS. Fundamentals of genetics, including principles of Mendelian and Neo-Mendelian inheritance, physical basis of heredity, variation, and an introduction to biometric methods. Two lectures and one laboratory period a week. Prerequisites: Botany 100; Zoology 100. First semester; 3 credits. (Not offered 1945-46.) Mr. Storey.

256 PRINCIPLES OF AGRONOMY. Field crops; their distribution, character, culture, utilization, and improvement. Two lectures and one laboratory period a week. Prerequisites: Chemistry 103; Botany 100; Zoology 100. Laboratory fee $1.00. Second semester; 3 credits. (Not offered 1945-46.) Mr. Van Horn.

257 FEEDS AND FEEDING. Principles of feeding and their application to feeding farm and plantation animals. First semester; 3 credits. (Not offered 1945-46.) Mr. Henke.

259 POULTRY HUSBANDRY. Special problems in poultry husbandry research; individual work. May be continued in second semester by consent of instructor. First semester; credit by arrangement. (Not offered 1945-46.) Mr. Quisenberry.

261 BEEF AND SWINE PRODUCTION. The breeds, care, management, and feeding of beef cattle and swine, with particular reference to Hawaiian conditions. Two lectures and one laboratory or study period a week. Laboratory fee $1.00. Second semester; 3 credits. (Not offered 1945-46.) Mr. Willett.

271 SCHOOL AND HOME GARDENING. Designed to develop ability to conduct home and school gardens; study of fertilizers, insect control, and plant propagation. For prospective elementary school teachers. First semester; 2 credits; repeated second semester. Mr. Armstrong.

291 IRRIGATION PRACTICE. Irrigation in its relation to crop production; development, distribution, and measurement of water; soil moisture and its effect on plant growth. Three lectures and one laboratory period a week. Prerequisite: junior standing. Laboratory fee $1.00. Second semester; 4 credits. Mr. Wadsworth.

295 COMPARATIVE AGRICULTURE. The crops, cultural practices, and agricultural institutions of the principal agricultural countries of the world. Second semester; 2 credits. Mr. Wadsworth.

298 SEMINAR IN ANIMAL NUTRITION. Recent investigations in animal nutrition; oral reports by students on special topics after a review of literature. Prerequisites: Agriculture 257; sufficient training in chemistry; consent of instructor. Second semester; 1 credit. Mr. Henke.

299 AGRICULTURE THESIS. Advanced individual work in field, laboratory, and library. Credit by arrangement. Staff.

300 DIRECTED RESEARCH. Directed research in (a) genetics—Mr. Storey; (b) soil physics—Mr. Wadsworth; (c) tropical horticulture—Mr. Beaumont. First semester; credit by arrangement; repeated second semester.
ANTHROPOLOGY

150 INTRODUCTION TO THE STUDY OF MAN. The development of man; race; survey of cultures and peoples of the world; and development of cultures. First semester; 3 credits. Mr. Hörmann.

252 PEOPLES OF THE PACIFIC. The distribution, migrations, relationships, and modes of living of indigenous peoples within the Pacific area. First semester; 3 credits. Mr. Rademaker.

254 PEOPLES OF ASIA. Cultures and civilizations, especially of China, Japan, Siberia, Central and Southeast Asia, and India; hunters, herdsmen, agriculturists; languages, religions, social organization, village life, and material culture. Second semester; 3 credits. Mr. Rademaker.

ART

Certain courses may be repeated for credit with the consent of the instructor.

The University reserves the right to retain any student work which may be needed for exhibition or for the Art Department files.

150-151 BEGINNING DESIGN. Elements of design and composition; line, mass, color, etc.; exercises in various design styles to stimulate appreciation and to provide background for advanced work. This course, or the equivalent in experience, is prerequisite to all advanced study. Year course; 2 credits each semester. Mr. Luquiens, Mr. Norris.

154-155 FREEHAND DRAWING AND BEGINNING PAINTING. First semester: free-hand perspective. Second semester: three-dimensional form in charcoal and water color. Year course; 2 credits each semester. Mr. Luquiens.

171 ART IN THE HOME. Primarily an appreciation course; the application of design to the everyday arrangements and furnishings of the household. Lectures and some drawing. Prerequisite: Art 150-151. First semester; 2 credits. Miss Doerr, Miss Mees.

172 INTERIOR DECORATION. Design, arrangement, and color of furniture, hangings, etc., in relation to wall and floor space. Shop and museum excursions. Prerequisite: Art 150-151. Second semester; 2 credits. Miss Doerr, Miss Mees.

175 TEXTILE DECORATION. Advanced problems in tie dye, batik, block printing, etc. Prerequisite: Art 150-151. Second semester; 2 credits. (Alternate years; not offered 1945-46.)

180-181 OIL PAINTING. Study of form, color, and design in oils. Prerequisites: Art 150-151 and 154-155; or consent of instructor. Studio fee $3.00 second semester. Year course; 2 credits each semester. Mr. Luquiens.

250-251 HISTORY OF ART. Origins and development of architecture, sculpture, and painting from prehistoric times to the present. Lectures with lantern slides. Visits to Honolulu Academy of Arts. Prerequisite: junior standing or consent of instructor. Year course; 2 credits each semester. Mr. Norris.
261 CREATIVE ART FOR THE PRESCHOOL AND PRIMARY YEARS. Designed to provide a working knowledge of tools, materials, and processes in the work of the primary years. Limited to 30 students. Laboratory fee $1.00. First semester; 2 credits. Mrs. Fisher.

262 CREATIVE ART FOR THE UPPER ELEMENTARY YEARS. Designed to provide a working knowledge of tools, materials, and processes in the work of the upper elementary years. Limited to 30 students. Laboratory fee $1.00. Second semester; 2 credits. Mrs. Fisher.

263 CREATIVE ART FOR THE SECONDARY SCHOOL YEARS. Similar to Art 262 but with emphasis upon the work of the secondary school years. Limited to 30 students. Laboratory fee $1.00. First semester; 2 credits; repeated second semester. Mrs. Fisher.

265 WATER COLOR PAINTING. The technique of water color. Studio and outdoor painting. Prerequisites: Art 150-151 and 154-155. Second semester; 2 credits. Mr. Norris.

269 LIFE CLASS. Drawing from the model, with a view to establishing a foundation for the imaginative use of the human figure. Prerequisite: Art 154-155. Studio fee $4.00, to cover model expense. First semester; 2 credits. Mr. Norris.

270 IMAGINATIVE DESIGN. Development of design and color as flexible means of expression. Imaginative handling of motifs, and fundamentals of design structure. Prerequisite: Art 150-151. First semester; 2 credits. Mr. Norris.

271 ADVANCED COMPOSITION. Continuation of Art 270, allowing maximum freedom for individual expression in fields chosen by the student. Prerequisite: Art 270. Second semester; 2 credits. Mr. Norris.

278 ART IN THE MODERN WORLD. An appreciation course. Lectures, slides, demonstrations, museum trips, outside reading. First semester; 2 credits; repeated second semester. Mr. Norris.

280-281 ADVANCED OIL PAINTING. Continuation of Art 180-181. Studio fee $3.00 second semester. Year course; 2 credits each semester. Mr. Luquiens.

286-287 MODERN PAINTING AND DESIGN. Criticism and guidance in work of the advanced student's own choosing, subject to the instructor's advice. Prerequisite: consent of instructor. Credit by arrangement. Staff.

BACTERIOLOGY

151 GENERAL BACTERIOLOGY. The physiology, culture, and differentiation of bacteria. Emphasis upon medical aspects. Recommended for students who are preparing for nursing, medicine, and technical laboratory work. Two lectures and two laboratory periods a week. Prerequisite: Botany 100 or Zoology 100. Laboratory fee $5.00. First semester; 4 credits; repeated second semester. Mr. Hartmann.

156 PUBLIC HEALTH BACTERIOLOGY. Basic principles of bacteriology in relation to dairying, water sanitation, sewage disposal, disinfection, communicable diseases, and immunity. First semester; 2 credits; repeated second semester. Mr. Hartmann.

260 MEDICAL BACTERIOLOGY. The role of microorganisms in the communicable diseases of man and animals with emphasis upon modes of transmission, prophylactic, therapeutic, and epidemiological aspects. Recommended for students who are prepar-
262 LABORATORY IN MEDICAL BACTERIOLOGY. A detailed study of the important bacteriological techniques concerned in the diagnosis of communicable diseases. Recommended for students who are preparing for technical laboratory positions. Two laboratory periods a week. Prerequisite: Bacteriology 260. Laboratory fee $5.00. First semester; 2 credits.

264 IMMUNOLOGY. Natural, active, and passive types of immunity; sera, vaccines, and antitoxins. Technique of major diagnostic serological reactions. Two lectures and two laboratory periods a week. Prerequisite: Bacteriology 260. Laboratory fee $5.00. Second semester; 3 credits.

299 BACTERIOLOGICAL PROBLEMS. Pursuit of any advanced bacteriological problem; reading and laboratory work. May be taken repeatedly. Prerequisites: junior or senior standing; consent of instructor. Laboratory fee $1.00. First semester; credit by arrangement; repeated second semester. Mr. Hartmann.
ANNOUNCEMENT OF COURSES

202 TAXONOMY AND EXPLORATION. Taxonomy of Hawaiian vascular plants, their occurrence and use; account of botanical exploration of Hawaii; literature of Pacific floras. One lecture and two laboratory periods a week. Prerequisite: Botany 102. Laboratory fee $2.00. Second semester; 3 credits. (Alternate years; not offered 1945-46.) Mr. St. John.

254 ADVANCED TAXONOMY. Synopsis of lower dicotyledons from Piperaceae to Rosaceae, with laboratory study of important families; plant distribution and independent identification of collections. Qualified students may do part of their work in the Bishop Museum herbarium. One lecture and one or more laboratory periods a week. Prerequisites: Botany 102 and 202. Laboratory fee $1.00. First semester; 4 credits. Mr. St. John.

269 PLANT ANATOMY. Structure of vascular plants; origin and differentiation of tissues; relation of structure to function. One lecture and two laboratory periods a week. Prerequisites: Botany 100; Zoology 100. Desirable preparation: Zoology 262. Laboratory fee $4.00. First semester; 3 credits. Mr. Engard.

299 BOTANICAL PROBLEMS. Pursuit of any advanced botanical problem; reading and laboratory work. May be taken repeatedly. Prerequisite: consent of instructor. Laboratory fee $1.00. First semester; credit by arrangement; repeated second semester. Staff.

300 BOTANICAL RESEARCH. Prerequisites: graduate standing; consent of instructor. Laboratory fee $1.00 each semester. Credit by arrangement. Staff.

365 TAXONOMY OF THE DICOTYLEDONS. A synoptical treatment of the dicotyledons, from the Leguminosae to the Ericaceae, with reference to their gross morphology, economic value, and distribution. Prerequisite: Botany 102. Second semester; 1 credit. Mr. St. John.

BUSINESS

150-151 ELEMENTARY ACCOUNTING. Fundamental principles, including the accounting problems of single proprietorships, partnerships, and corporations. Three lectures and one laboratory period a week. Prerequisite: sophomore standing in the Department or permission of instructor. Year course; 4 credits each semester. Mr. Glover, Mr. Leong.

160-161 ELEMENTARY BUSINESS LAW. First semester: law as an agency of social control; nature, sources, and growth of the law; fundamental legal conceptions; law of contracts. Second semester: law of private property, sales, negotiable instruments, security devices, fair trade, and labor. Prerequisite: sophomore standing. Year course; 3 credits each semester.

250-251 INTERMEDIATE ACCOUNTING. The balance sheet: form, content, and such related problems as depreciation and valuation of assets; mergers and the construction of consolidated statements. Prerequisites: C or better in Business 150-151 and one of the following: (a) Economics 150-151, (b) consent of the instructor or Department chairman. Year course; 3 credits each semester. Mr. Glover.

254 COST ACCOUNTING. Elementary discussion of such aspects of cost accounting as sources of costs, cost units, cost gathering, and use of cost data. Prerequisites: credit or concurrent registration in Business 250-251 and one of the following: (a) Economics 150-151, (b) consent of the instructor or Department chairman. First semester; 3 credits. Mr. Glover.
255 ANALYSIS OF FINANCIAL STATEMENTS. Analysis of the balance sheet and profit and loss account from the standpoint of the data to be derived from them bearing on the financial standing of business units as investment and credit possibilities. Prerequisites: *(a)* credit or concurrent registration in Business 150-151; *(b)* Economics 150-151 or consent of instructor. Second semester; 3 credits. Mr. Glover.

256 INCOME TAX PROBLEMS. Elementary study of the federal and territorial income tax laws and related accounting problems; individual, fiduciary, partnership, and corporation returns are prepared. Prerequisites: Business 150-151; Economics 150-151. Second semester; 3 credits. (Alternate years; not offered 1945-46.) Mr. Glover.

263 PERSONNEL MANAGEMENT. Policies and practices available for effecting harmonious relations between labor and management; characteristics of an efficient supervisory organization; job analysis and wage incentive practices; practical approaches to problems arising out of poor management. Prerequisite: Economics 150-151 or consent of instructor. First semester; 3 credits. Mr. Taylor.

264 PRINCIPLES OF BUSINESS. Choosing goods to handle, time to enter business, location, size, and legal form of organization; selecting, handling, and promoting executives; choosing selling policies; promoting good public relations. Prerequisite: Economics 150-151 or consent of instructor. First semester; 3 credits. (Alternate years; not offered 1945-46.) Mr. Cameron.

265 CORPORATION FINANCE. Determination of capital requirements; sources and devices used to procure capital; marketing securities; control of capital disbursements; credit and income. Prerequisites: Economics 150-151 and Business 150-151; or consent of instructor. Second semester; 3 credits.

266 INVESTMENTS AND INVESTMENT BANKING. Economic theory and tests of investment; personnel of investors; investment credit-analysis; mathematics of investment; tools of investment; types of investment institutions and their functioning. Prerequisites: Economics 150-151 and Business 150-151; or consent of instructor. First semester; 3 credits.

270-271 PRINCIPLES OF MARKETING. A study of consumption followed by a general survey of the marketing structure, emphasizing marketing functions and channels, market analysis and research, and marketing policies. Prerequisites: Economics 150-151 and Business 150-151; or consent of instructor. Year course; 3 credits each semester. (Alternate years; not offered 1945-46.)

273 ECONOMICS OF ADVERTISING. History and present importance; methods and media; agencies and campaigns; costs and their measurement; evaluation from the social and economic points of view. Prerequisite: Economics 150-151 or consent of instructor. Second semester; 3 credits. (Alternate years; not offered 1945-46.)

276 ECONOMICS OF RETAIL MERCHANDISING. Buying habits of retail customers; history of retailing; store organization and management; sales promotion. Prerequisite: Economic 150-151 or consent of instructor. First semester; 3 credits. (Alternate years; not offered 1945-46.)

280 ELEMENTS OF SELLING. Types of salesmanship; buying motives; personal sales methods; sales management—product, market, marketing methods, sales force, sales promotion, and adjustment of product to market. Prerequisites: Economics 150-151 and credit or concurrent registration in Business 270-271; or consent of instructor. First semester; 3 credits. Mr. Kraemer.
ANNOUNCEMENT OF COURSES

282 BUSINESS STATISTICS. The study of statistical techniques and their applications to business forecasting, budgeting, marketing analysis, and other business problems. Prerequisite: Economics 150-151 or consent of instructor. First semester; 3 credits. Mr. Kraemer.

299 DIRECTED READING. Prerequisite: consent of instructor. Credit by arrangement. Staff.

CHEMISTRY

103 GENERAL CHEMISTRY. A comprehensive survey of chemistry with emphasis upon fundamental laws, principles, and methods. Three lectures and one laboratory period a week. Laboratory fee $7.00 each semester. Year course; 4 credits each semester. Mrs. Bilger, Mr. Brasted, Mr. Dean.

149 ORGANIC CHEMISTRY. A survey of the chemistry of carbon compounds, their classification, and structure; training in techniques of organic laboratory methods. Three lectures and one laboratory period a week. Prerequisite: Chemistry 103. Laboratory fee $9.00 each semester. Year course; 4 credits each semester. Mr. Bilger.

150 QUALITATIVE ANALYSIS. Systematic analysis covering the detection of common basic and acid ions by macro and semi-micro methods; theory of analytical procedures. Two lectures and two laboratory periods per week. Prerequisite: Chemistry 103. Laboratory fee $8.00. First semester; 4 credits. Mr. Brasted.

171 COLLOIDAL CHEMISTRY. A study of the colloidal state of matter with applications to industry, agriculture, medicine, and foods. Two lectures and two laboratory periods a week. Prerequisite: Chemistry 150. Laboratory fee $8.00. Second semester; 4 credits. Mr. Dean.

203 CHEMICAL CALCULATIONS. An intensive course in the solution of problems based upon the fundamental laws and definitions of chemistry; computations and errors. Two class periods a week. Prerequisites: Chemistry 103 and 150; credit or concurrent registration in Mathematics 152. Second semester; 2 credits.

220 BIOCHEMISTRY. A study of the chemistry of biological systems, animal and plant, with emphasis upon the chemistry of foods, their digestion and metabolism; laboratory techniques of handling and analysing biological materials. Designed for students majoring in Chemistry, Biology, Home Economics, or Agriculture. Three lectures and one laboratory period a week. Prerequisite: one semester of Chemistry 149. Laboratory fee $6.00. First semester; 4 credits. Mr. Dean.

230 QUANTITATIVE ANALYSIS. Principles of gravimetric and volumetric analysis, colorimetric and electrometric pH determinations. Two lectures and two laboratory periods a week. Prerequisite: Chemistry 150. Laboratory fee $8.00 each semester. Year course; 4 credits each semester. (First semester only may be taken to meet pre-medical requirements.) Mr. Brasted.

236 AGRICULTURAL CHEMISTRY. A quantitative analytical course in the chemistry of the products and materials of Hawaiian agriculture including sugar cane, pineapples, soils, fertilizers, stock feeds, insecticides; poultry; and dairy products. Special emphasis upon modern instrumental methods. Three lectures and two laboratory periods a week. Prerequisites: Chemistry 149; one semester of Chemistry 230. Laboratory fee $8.00. Second semester; 5 credits.
249 ADVANCED ORGANIC CHEMISTRY. A study of organic type reactions and syntheses illustrated by laboratory preparations requiring special techniques. Three lectures and two laboratory periods a week. Prerequisites: Chemistry 149 and 230. Laboratory fee $9.00. First semester; 5 credits. Mrs. Bilger.

250 ORGANIC ANALYSIS. Qualitative and quantitative organic analysis by macro, semi-micro, and micro methods. Combustions and sealed-tube procedures. Two lectures and two laboratory periods a week. Prerequisites: Chemistry 149 and 230. Laboratory fee $9.00. Second semester; 4 credits.

255 PHYSICAL CHEMISTRY. An advanced course in theories and principles of chemistry; physico-chemical laboratory procedures; modern instrumental methods. Three lectures and one laboratory period a week. Prerequisites: Chemistry 149 and 230; Physics 102; Mathematics 152. Laboratory fee $6.00 each semester. Year course; 4 credits each semester. Mr. Bilger.

266 CLINICAL CHEMISTRY. Theory and techniques of the chemical examination of clinical specimens. Two lectures and two laboratory periods a week. Prerequisites: Chemistry 149; one semester of Chemistry 230. Laboratory fee $6.00. Second semester; 4 credits. Mr. Dean.

281 HISTORY OF CHEMISTRY. Historical foundations of the facts and theories of chemistry, from the earliest times through alchemy to the present; emphasis upon achievements leading to new basic ideas; the personalities of the great chemists. Three lectures a week. Prerequisites: Chemistry 149; credit or concurrent registration in Chemistry 230. First semester; 3 credits.

290 INDEPENDENT STUDY. Reading and laboratory work on a specific problem in chemistry. Prerequisites: Chemistry 149, 171, and 230; credit or concurrent registration in Chemistry 255; approval of the chairman of the Department. Laboratory fee $6.00 each semester. Semester or year course; 2 or 3 credits each semester. Mr. Bilger, Mrs. Bilger.

295 CHEMICAL LITERATURE. Systematic use of the journals, texts, handbooks, dictionaries, tables, abstracts, and government literature of chemistry; special problems. One lecture and one library period a week. Prerequisite: credit or concurrent registration in Chemistry 230. Either semester; 2 credits. Mr. Bilger.

300 DIRECTED RESEARCH. Research in pure and applied chemistry. Prerequisites: completion of an undergraduate major in Chemistry; approval of the chairman of the Department. Laboratory fee $5.00 per credit hour; maximum $20. Credit by arrangement. Mrs. Bilger, Mr. Bilger.

303 ADVANCED INORGANIC CHEMISTRY. An advanced study of elements and compounds including the quantum and spectral aspects of the periodic classification, structural, chemical kinetic, and nuclear properties; non-aqueous solvents; coordination compounds. Two lectures a week. Prerequisite: credit or concurrent registration in Chemistry 255. First semester; 2 credits. Mr. Brasted.

355 THEORETICAL ORGANIC CHEMISTRY. Electronic and quantum theories of the character of the chemical link; resonance; the Pauling system; new physical methods of investigation of structure. Prerequisites: Chemistry 249; credit or concurrent registration in Chemistry 255. Two lectures a week. Second semester; 2 credits. Mrs. Bilger.

360 SEMINAR. Papers and discussions on recent advances in chemistry. One two-hour period a week. Prerequisites: senior or graduate standing; credit or concurrent registration in Chemistry 255. Year course; 1 credit each semester. May be taken more than once. Mrs. Bilger.
ANNOUNCEMENT OF COURSES

CHINESE

100 ELEMENTARY CHINESE. Study of some 500 basic Chinese characters; reading and writing the characters; grammar and sentence construction. Year course; 3 credits each semester. Mrs. Chong.

101 INTERMEDIATE CHINESE. Study of additional basic Chinese characters; sentence construction, conversation, and translation. Year course; 3 credits each semester. Mrs. Chong.

200 THIRD-YEAR CHINESE. Reading of short stories, novels, and modern plays; letter writing, composition, and translation. Year course; 3 credits each semester. Mrs. Chong.

293-294 METHODS AND BIBLIOGRAPHY IN CHINESE STUDIES. Study of the main fields of Chinese research, the special methods evolved, and the principal sources of bibliographical information. Prerequisite: junior standing. Year course; 3 credits each semester. Mr. Taam.

DENTAL HYGIENE

200 TOOTH MORPHOLOGY. Designed to provide the student with an opportunity to carve a full complement of models of anterior and posterior teeth showing general form, cusps, planes, and angles. First semester; 1 credit. Mrs. Bickerton.

201 DENTAL HYGIENE EDUCATION. Methods, materials, reference reading, and talks to suit the various grade levels. Second semester; 1 credit. Mrs. Bickerton.

235 DENTAL OPERATIVE TECHNIQUE. Instruction and practice work on manikin heads in the technique of instrumentation and polishing. Training in the proper manipulation of instruments for the removal of accretions, deposits, and stains, and the use of all instruments in the field of dental hygiene. Year course; 2 credits each semester. Mrs. Bickerton.

251 DENTAL ANATOMY. A study of the anatomical and chemical structure of the teeth, anatomy of bones forming the oral cavity, soft palate, throat, muscles of mastication, lips, tongue, floor, and other boundaries of the oral cavity. First semester; 3 credits. Mr. Dawe.

252 DENTAL PROPHYLAXIS. A study of the prophylactic treatment of the mouth with special attention to those measures which can be employed to prevent or arrest dental caries and adjacent-tissue degeneration. The tooth brush, its selection, sterilization, and use are also considered. Second semester; 1 credit. Mr. Conner.

254 CLINICAL PRACTICE. Clinical prophylactic practice under supervision. Year course; 5 credits each semester. Mrs. Bickerton.

256 DENTAL CARIES. A consideration of the causation, progress, and sequelae of caries. Preventive measures. Composition, location, differentiation, and causes of accretions, deposits, and stains found upon the teeth; their harmful results and preventive measures. First semester; 2 credits. Mr. Conner.
258 Dental Histology. A course embracing the sequential steps in the formation of the primary tissues. Special consideration will be given to the study of the origin and classification of dental tissues, enamel, dentine, cementum, pulp, and all the soft tissues of the oral cavity. Second semester; 1 credit. Mr. Dawe.


262 Materia Medica. A study of the derivation and effects of the drugs most commonly used in dentistry. A general discussion of the relative values of germicides, antiseptics, and disinfectants; analysis of the formulae of dentifrices and mouth washes. First semester; 2 credits.

264 Malocclusion and Radiography. Etiology, individual malposed teeth, and Angle's classification are features of this course. The student is also made familiar with X-ray machines, tubes, and radiographs. Lantern slides, models, etc., are used for illustration. Second semester; 2 credits.

297 Field Problems in Dental Hygiene. Consideration of the varied types of problems met in field practice: adjustment to schools, principals, and teachers; community relations; travel, living accommodations, and professional ethics. Second semester; 1 credit. Miss Baukin.

ECONOMICS

Economics 150-151 is prerequisite to all other courses in Economics except Economics 223.

150-151 Principles of Economics. Principles underlying consumption, production, exchange, and distribution of wealth; analysis of important current economic problems. Prerequisite: sophomore standing or consent of instructor. Year course; 3 credits each semester. Mr. Cameron.

223 History of Economic Institutions. Growth of man in numbers; evolution of city life; agricultural changes; labor and manufacturing systems; transportation, trade, money, banking, and credit developments; emphasis on causes and effects of changes. Prerequisite: junior standing or consent of instructor. Year course; 3 credits each semester. Mr. Cameron.

251 Economic Problems of Europe. An analysis of some of the more important economic problems of Europe during the two decades subsequent to World War I, and efforts to solve them through Communism, Nazism, and Fascism. First semester; 2 credits. Mr. Kraemer.

256 Money, Credit, and Prices. Nature, history, and kinds of money; characteristics of credit; monetary system of the United States; monetary standards; value of money; relation of money and credit to prices. Required of all majors in Economics and Business. First semester; 3 credits. Mr. Cameron.
257 BANKING. Nature and history of banking; the banking system of the United States, including commercial banks, trust companies, savings banks, and related savings institutions. Required of all majors in Economics and Business. Prerequisite: Economics 256 or consent of instructor. Second semester; 3 credits. Mr. Cameron.

261 PUBLIC FINANCE. Public expenditures: extent, purposes, determinants, effects; public revenues: public domains and industries, fees, assessments, charges, taxation, public credit; fiscal administration. Second semester; 3 credits. Mr. Kraemer.

266 WAR AND POSTWAR ECONOMIC PROBLEMS. Economic causes of war; economic organization during war; demobilization; postwar problems of population, resources, production, consumption, taxes, and public debt. First semester; 3 credits. (Not offered 1945-46.)

267 BUSINESS CYCLES AND BUSINESS FORECASTING. Analysis of the business cycle and proposed remedies; assumptions, methods involved, and statistical data used in business forecasting; forecasting services; applicability of forecasts. Second semester; 3 credits. (Alternate years; not offered 1945-46.)

270 PUBLIC UTILITIES. The economic nature and history of public utilities, excluding railroads, followed by a critical discussion of their control by the state. Second semester; 3 credits. Mr. Cameron.

273 OCEAN TRANSPORTATION. Economic characteristics, history, and vehicles of ocean transportation; services, organization, and rate-making theories and practices of ocean carriers; subsidies and government control. Second semester; 3 credits. (Alternate years; not offered 1945-46.) Mr. Cameron.

276 TRUSTS AND INDUSTRIAL COMBINATIONS. The movement toward industrial combination; devices used to effect combination; advantages and disadvantages of concentration; and regulation by state and federal authorities. First semester; 3 credits. Mr. Cameron.

281 LABOR PROBLEMS AND LEGISLATION. Unemployment, industrial accidents and diseases, wages, hours, unionism, personnel management, unemployment exchanges, social security, wages and hours legislation, National Labor Relations Act. First semester; 3 credits. (Alternate years; not offered 1945-46.)

285 THEORY AND CONTROL OF FOREIGN TRADE. Major changes in world trade during the twentieth century followed by a detailed study from the historical point of view of both the theory of foreign trade and its control through tariffs, commercial treaties, the consular service, etc. Second semester; 3 credits. Mr. Kraemer.

299 DIRECTED READING. Prerequisite: consent of instructor. Year course; 3 credits each semester. Staff.

300 DIRECTED READING OR RESEARCH. Prerequisites: graduate standing; consent of instructor. Year course; 3 credits each semester. Staff.

EDUCATION

Enrollment in Education courses is restricted to students in Teachers College except by special permission of the Chairman of the Department.

235 PARTICIPATION TEACHING. Students assigned as assistants to teachers in public schools; practical experience, observation, and illustrative material for Education 250-251 and 285-286. Year course; 1 credit each semester. Mr. Clopton, Miss Porter.
236 PRESCHOOL-PRIMARY PARTICIPATION TEACHING. A laboratory course accompanying Education 283-284. Year course; 2 credits each semester. Miss Smith.

237 MUSIC, DANCE, AND DRAMATIC PLAY IN THE PRESCHOOL-PRIMARY CURRICULUM. The materials and procedures of these activities appropriate to children two to seven years of age. First semester; 2 credits. Miss Snow, Miss Pegram.

238 ART AND CONSTRUCTION ACTIVITIES IN THE PRESCHOOL-PRIMARY CURRICULUM. The materials and procedures of these activities appropriate to children two to seven years of age. Second semester; 2 credits. Miss Gardner, Miss Turner.

239 NATURAL AND SOCIAL SCIENCES IN THE PRESCHOOL-PRIMARY CURRICULUM. The materials and procedures of these activities appropriate to children two to seven years of age. First semester; 2 credits; repeated second semester. Miss Giles, Miss Swift.

240 SOCIAL STUDIES IN THE ELEMENTARY SCHOOL CURRICULUM. The scope and organization of the social studies in the elementary school curriculum. The development of social knowledge and understanding in childhood experience. First semester; 2 credits. Miss Porter.

241 MATHEMATICS AND SCIENCE IN THE ELEMENTARY SCHOOL CURRICULUM. The scope and organization of mathematics and science in the elementary school curriculum. The development of the subject matter of these fields in childhood experience. Second semester; 2 credits. Miss Porter.

245 SCIENCE IN THE SECONDARY SCHOOL CURRICULUM. Purposes and procedures. The development of scientific attitude. Review of the major generalizations of the biological and physical sciences. Second semester; 2 credits.

246 MATHEMATICS IN THE SECONDARY SCHOOL CURRICULUM. Purposes and procedures. The development of basic mathematical concepts. First semester; 2 credits. Mr. Clopton.

247 SOCIAL STUDIES IN THE SECONDARY SCHOOL CURRICULUM. The scope and organization of social studies in the secondary school. The development of social knowledge and understanding. Second semester; 2 credits. Mr. Rademaker.

248 SHOPWORK IN THE ELEMENTARY SCHOOL CURRICULUM. A course designed to acquaint elementary teachers with materials, tools, and processes appropriate to childhood experience. First semester; 2 credits; repeated second semester.

250-251 SECONDARY EDUCATION. Basic course dealing with major problems of secondary education. Year course; 3 credits each semester. Mr. Clopton.

253 PRACTICE TEACHING IN HOME ECONOMICS. Observation, supervised teaching, and conferences. Prerequisites: senior standing; credit or concurrent registration in Home Economics 251. First semester; 6 credits; repeated second semester. Miss Douglass.

254 PRACTICE TEACHING. Teaching duty supervised by staff members of the Teachers College Elementary and Intermediate School and the Preschool. First semester; 10 credits; repeated second semester. Miss Caro, Miss Smith, and Staff.

255 SEMINAR FOR PRACTICE TEACHERS. Study of problems arising from immediate experience as classroom teachers. First semester; 3 credits; repeated second semester. Mr. Sayers, Miss Smith, and Staff.

256 SEMINAR FOR PRACTICE TEACHERS IN HOME ECONOMICS. Study of problems arising from immediate experience as classroom teachers. First semester; 2 credits; repeated second semester. Miss Douglass and Staff.
ANNOUNCEMENT OF COURSES

257 PRINCIPLES OF COUNSELING. Counseling as the teacher's work in individual guidance. Need; objectives; available guidance services. Psychological bases of counseling; procedures. First semester; 3 credits; repeated second semester.

258 CURRICULUM MATERIALS AND VISUAL-AUDITORY AIDS. Study and organization of resource materials and aids for use in teaching. First semester; 3 credits; repeated second semester. Miss Caro, Miss Smith, and Staff.

261 EVALUATION IN EDUCATION. Theory and techniques of evaluation in education; practice in the use of testing devices. First semester; 3 credits; repeated second semester. Mr. McKinney.

276 VOCATIONAL GUIDANCE. Intended for those who have, or may have, guidance responsibilities in Hawaii's schools. Basic considerations and current practices in this field. First semester; 2 credits; repeated second semester. Mr. Armstrong.

283-284 PRESCHOOL-PRIMARY EDUCATION. Basic course dealing with major problems in the education of children of ages two to seven. Year course; 3 credits each semester. Miss Smith.

285-286 ELEMENTARY EDUCATION. Basic course dealing with major problems in the education of children of ages six to twelve. Year course; 3 credits each semester. Miss Porter.

298 PARENT EDUCATION. Preparation for the directing of parent education in connection with preschool and elementary teaching. First semester; 2 credits; repeated second semester. Miss Gardner.


300 DIRECTED READING OR RESEARCH. Individual reading or research regarding (a) Preschool Education, (b) Elementary Education, (c) Secondary Education, (d) History of Education. General and United States, (e) History of Education, Hawaiian, (f) Philosophy of Education, (g) Administration and Supervision, (h) Adult Education, (i) Agricultural Education, (j) Home Economics Education. Prerequisites: graduate standing; consent of chairman of the Department and of instructor concerned. Credit by arrangement. Staff.

340 PHILOSOPHY OF EDUCATION. Philosophy and science in education; social, psychological, and ethical considerations essential to the development of a philosophy of education; implications of philosophical viewpoints for policy in education. First semester; 3 credits; repeated second semester. Mr. Sayers.

345 SEMINAR IN PHILOSOPHY OF EDUCATION. Social and psychological theory involved in controversial educational issues. Prerequisites: Education 340 or equivalent; consent of instructor. May be repeated for credit by permission of instructor. First semester; 2 credits; repeated second semester. Mr. Sayers.

350 HISTORY OF EDUCATION. Survey of the history of educational thought and practice as a basis for the study of modern school problems. First semester; 3 credits; repeated second semester. Mr. Clopton.
354 INTERNSHIP. Full-time teaching under special supervision in selected public schools. Restricted to fifth-year students. First semester; 14 credits; repeated second semester. Mr. Sayers, Miss Smith, Miss Douglass, and Staff.

363 SEMINAR IN EDUCATIONAL ADMINISTRATION. Organization for public education; taxation; equalization; internal problems of school administration; personnel; pupil classification; records and reports. Restricted to administrators and prospective administrators. Prerequisite: consent of instructor. First semester; 2 credits. Mr. Wist.

365 THE SUPERVISION OF INSTRUCTION. The supervisory work of the principal; the place of supervision, and organization for supervisory service; techniques. Restricted to administrators and prospective administrators. Prerequisite: consent of instructor. Second semester; 2 credits. Mr. Wist.

376 SEMINAR IN VOCATIONAL EDUCATION. Individual study of special problems in vocational education. First semester; 2 credits; repeated second semester. Mr. Armstrong.

380 RESEARCH AND THESIS WRITING. Research techniques and thesis development; designed to assist students in thesis preparation. Open only to qualified graduate students. First semester; 2 credits; repeated second semester. Mr. White.

390 PUBLIC SCHOOL ADMINISTRATION. State and territorial organization for administrative control of public education; federal relations; Hawaiian school law and Department of Public Instruction regulations. First semester; 2 credits; repeated second semester. Mr. Wist.

395 SEMINAR FOR INTERNE TEACHERS. Problems arising from the classroom experiences of interne teachers. Restricted to fifth-year students. First semester; 2 credits; repeated second semester. Mr. Sayers, Miss Smith, Miss Douglass, and Staff.

396 SEMINAR IN CURRICULUM IMPROVEMENT. Social and psychological bases of the curriculum; selection, development, and evaluation of the school experiences of children and youth; organization and administration of curriculum construction. First semester; 2 credits; repeated second semester. Mr. Sayers and Staff.

ENGINEERING

CE 101 PLANE SURVEYING. Use of chain, tape, level, and transit; map platting and computations; Hawaiian land descriptions. One lecture and two field or drafting periods weekly. Prerequisites: credit or concurrent registration in Mechanical Drawing 101; Mathematics 151. Laboratory fee $2.00 each semester. Year course; 3 credits each semester. Mr. Webster.

CE 151 GRAPHICAL STATICS. Determination of stresses in framed structures by the graphical method; stresses in roof and bridge trusses under vertical and inclined loads. Prerequisite: Mechanical Drawing 101. Second semester; 2 credits. Mr. Tom.

CE 153 ROADS AND PAVEMENTS. Construction and maintenance of various types of city streets and rural highways. Prerequisites: Civil Engineering 101; Mechanical Drawing 101. Second semester; 2 credits. Mr. Webster.
ANNOUNCEMENT OF COURSES

CE 227 ROUTE SURVEYING. Reconnaissance; preliminary survey; paper location; curve computations; field location; platting profiles; determining grade lines; earthwork computations for location of railroad or highway. One seven-hour continuous period a week. Prerequisites: Civil Engineering 101 and 153; Mathematics 155. Year course; 3 credits each semester. Mr. Webster.

CE 229 MUNICIPAL ENGINEERING. City water supply; water works; fire protection; methods of treating water used for a public supply; sewage and garbage disposal; sewage treatment; disposal of storm water. Year course; 3 credits each semester. Mr. Bennett.

CE 231 SOIL MECHANICS. Physical factors in earth pressure phenomena; soil phenomena in earthwork operations and foundation work. Year course; 3 credits each semester. Mr. Bennett.

CE 252 ANALYTICAL AND APPLIED MECHANICS. Effect of forces on bodies, both at rest and in motion. Prerequisite: Mathematics 155. First semester; 4 credits. Mr. Watanabe.

CE 253 STRUCTURAL MECHANICS. Action and effect of internal stresses in bodies and members of structures. Prerequisite: Civil Engineering 252. Second semester; 4 credits. Mr. Keller.

CE 255 HYDRAULICS. Water pressure, strength of pipe, stability of gravity dams; water flow through orifices, nozzles, and weirs; manometers, Pitot tubes and Venturi meters; steady flow in pipes and open channels. Prerequisites: credit or concurrent registration in Civil Engineering 252 and 253. Year course; 3 credits each semester. Mr. Keller.

CE 276 STRUCTURAL DESIGN. Stress computation and design of plate girders and steel building trusses and other structural members; complete detail drawings and specifications carefully supervised and checked. Prerequisite: Civil Engineering 253. First semester; 3 credits. Mr. Bennett.

CE 277 BRIDGE DESIGN. Design of a single track through bridge for a given conventional loading, including all computations, drawings, and specifications. Prerequisite: Civil Engineering 276. Second semester; 3 credits. Mr. Bennett.

CE 279 CONCRETE AND MASONRY STRUCTURES. Elementary theory of reinforced concrete, beams, columns, footings, retaining walls; in the second semester: design of floor systems for buildings, bins, reservoirs, combined footings, highway bridges, miscellaneous structures. Prerequisites: Civil Engineering 252 and 253. Year course; 3 credits each semester. Mr. Bennett.

MD 101 MECHANICAL DRAWING. Elements of drafting, sketching, lettering; isometric, oblique, and cabinet drawing; working drawings, conventions, standards, tracing, and blueprinting. Two three-hour, or three two-hour laboratory periods a week. Cost of instruments and materials about $30. Year course; 2 credits each semester. Mr. McCall, Mr. Tom.

MD 152 DESCRIPTIVE GEOMETRY. Geometry of engineering drawing; intersections and development of surfaces. Prerequisite: Mechanical Drawing 101. First semester; 2 credits. Mr. Tom.

ME 202 MATERIALS OF ENGINEERING AND LABORATORY. Properties of cements, limes, plasters, and plain and reinforced concrete; methods of manufacture and standard tests for quality; testing cements, concretes, reinforced concrete, and aggregates used in
ENGLISH

making concrete; operation and calibration of testing machines. Prerequisites: Mathematics 155; Mechanical Drawing 152. Laboratory fee $2.50. First semester; 3 credits.

ME 203 MATERIALS OF ENGINEERING AND LABORATORY. A continuation of ME 202; properties and requirements of wood, iron, steel, and other metals; various tests of timber and metals. Prerequisite: Mechanical Engineering 202. Laboratory fee $2.50. Second semester; 3 credits.

ME 282 STEAM MACHINERY. Fundamental laws governing transformation of heat into work; properties of gases, laws of expansion, heat measurement, mechanical equivalent of heat, properties of steam, steam tables. Prerequisites: Mathematics 155; Physics 102. First semester; 3 credits.

ENGLISH

100 COMPOSITION. A five-hour course required of all Freshmen failing to attain a standard in the entrance examination qualifying them for admission to English 101. Identical in content with English 101 except for the additional time given to remedial work. Year course; 3 credits each semester. Staff.

101 COMPOSITION. Principles and practice of composition. Restricted to students qualifying in entrance examinations. Year course; 3 credits each semester. Staff.

125 PHONETICS. Required of all College of Arts and Sciences and College of Applied Science students adjudged deficient in English speech abilities and of students minoring in Speech. First semester; 1 credit; repeated second semester. Mrs. Wimberly, Miss Bell.

126 PHONETICS. A basic course in the sounds of English. Presentation of the elements of language; foundation for speech; background for later work in teaching methods. Required of Teachers College Freshmen. Year course; 1 credit each semester. Mrs. Carr, Mrs. Krantz.

127 FUNDAMENTALS OF EFFECTIVE SPEECH. A course designed to develop rhythm, fluency, correct sounds, and the patterns of speech in the language usage of prospective teachers. Required of Teachers College Sophomores. Year course; 1 credit each semester. Mrs. Krantz.

128 FUNDAMENTALS OF EFFECTIVE SPEECH. Intensive training in speech fluency, tone, rhythm, articulation, and enunciation; oral interpretation of poetry and prose; practice in the delivery of simple speeches. Prerequisite to all advanced courses in Speech. First semester; 3 credits; repeated second semester. Miss Arnold.

130 PUBLIC SPEAKING. The preparation and delivery of short speeches. An elementary course including some theory but emphasizing practice. Not primarily designed for those with problems of voice, diction, or inflection. Prerequisite: English 128. First semester; 3 credits; repeated second semester. Mr. Abel.

143 INTERPRETATIVE READING. A course in the oral interpretation of prose and poetry. Theory and practice of the coordination of voice and thought; the development of depth, strength, and sustained tones in reading; and the uses of rhythm, timing, and pitch. Prerequisite: consent of instructor. Second semester; 3 credits. (Alternate years; not offered 1945-46.) Miss Bell.
150 INTRODUCTION TO ENGLISH LITERATURE. A survey of English literature from
the beginnings to the Twentieth Century. Prerequisite to all advanced courses in
American, English, and comparative literature. Year course; 3 credits each semester.
Staff.

152 INTRODUCTION TO LITERATURE. A study of selected types of literature;
emphasis on historical background, fields for reading, critical standards, and personal
interpretation. Open only to students in Teachers College. Year course; 3 credits each semester. Mr. Coale.

202 ADVANCED COMPOSITION. First semester: expository forms, including the
ey essay. Second semester: descriptive and narrative forms, including the short story. A
study throughout the year of current literary forms, and encouragement and criticism
of student experiments in creative writing. Those wishing to register for the second
semester only must have the consent of the instructor. Prerequisite: an average of C
in English 100 or 101. Year course; 3 credits each semester. Mr. Collins.

204 ADVANCED ENGLISH GRAMMAR. A general view of formal elements of lan­
guage as combined in the sentence unit. Emphasis on the scientific view of grammar,
the usefulness of different forms in the refined expression of ideas, and current
problems in grammatical usage. First semester; 2 credits. Mr. Coale.

227 TYPES OF ORAL EXPRESSION. A course designed to develop fluency and
expressiveness in varied speech situations; continued emphasis upon speech elements
developed in preceding courses. Required of Teachers College Juniors. Year course;
1 credit each semester. Mrs. Carr, Miss Cardiff.

230 ADVANCED PUBLIC SPEAKING. Practice in the composition and delivery of
speeches for special occasions, in parliamentary procedure, and in special problems of
interest and persuasion; some study of public opinion; conferences. Prerequisite: English 130. First semester; 3 credits. (Alternate years; not offered 1945-46.)

232 ARGUMENTATION AND DEBATE. Practice in debate on public questions; study
and application of the principles of argument; conferences. Registration by consent of
instructor. Second semester; 3 credits. (Alternate years; not offered 1945-46.)

233 VOICE AND SPEECH. Voice mechanism, principles of phonetics, phonetic
analysis. An approach to speech pathology and speech correction. Prerequisites:
English 125 and 128, or 128 and concurrent registration in 125. Second semester;
2 credits. Miss Arnold.

240 LABORATORY TECHNIQUES IN SPEECH IMPROVEMENT. Study of speech­
correction techniques, observation of speech problems, and participation in corrective
work. Required of Teachers College Seniors. First semester; 1 credit; repeated second
semester. Mrs. Carr.

242-243 DRAMATIC INTERPRETATION. Analysis and interpretative reading of
dramatic prose and poetry; related principles of stage presentation; reports, individual
exercises, and group rehearsal. Materials fee $1.00 per semester. Year course; 3 credits
each semester. Mr. Trapido.

246 PLAY PRODUCTION. An introductory course in play production treated
through related principles of stage direction and production. Registration by consent
of instructor. First semester; 3 credits. (Alternate years; not offered 1945-46.) Mr.
Trapido.
253 Language Arts in the Elementary School. Fundamentals in the teaching of reading and expression; special attention to problems of speech, usage, and vocabulary in the schools of Hawaii. Open only to students in Teachers College. Year course; 2 credits each semester. Mr. Coale.

254 Language Arts in the Secondary School. Fundamentals in the teaching of reading, literature, and language at the junior high school level; special attention to problems of speech, usage, and vocabulary in local schools. Open only to students in Teachers College. Year course; 2 credits each semester. Mr. Coale.

255 Literature in the Elementary School. Literature suitable for children’s reading at the elementary level; materials for the primary years emphasized in the first semester, and for the upper elementary years in the second semester. Open only to students in Teachers College. First semester; 2 credits; repeated second semester. Mrs. Geiser.

256 Literature for Young Children. Literature suitable for presentation to children in the preschool and early primary years. Open only to students in Teachers College. First semester; 2 credits; repeated second semester. Mrs. Geiser.

260-261 American Literature. A chronological survey of American literature from Colonial times to the Twentieth Century; special attention to the main currents of American thought and culture. First semester: from the beginnings to the Civil War; second semester: from the Civil War to the early Twentieth Century. Year course; 3 credits each semester. Mr. Stroven, Mr. Day.

270 Chaucer. A study of the life, times, and major works of Chaucer, with emphasis on "The Canterbury Tales." Second semester; 3 credits. Mr. Cunningham.

272 History of the English Language. The growth and development of the English language, its sources, forms, and standards of usage. First semester; 3 credits. (Alternate years; not offered 1945-46.)

274 The English Drama to 1642 (exclusive of Shakespeare). Origins of the English drama; the medieval drama and theater; the rise of professional drama; the contemporaries and successors of Shakespeare; the closing of the theaters. First semester; 3 credits. Mr. Day.

275 Non-dramatic Elizabethan and Seventeenth-Century English Literature (1557-1660). Principal nondramatic authors and works from the accession of Elizabeth to the Restoration. First semester; 3 credits. (Alternate years; not offered 1945-46.)

276-277 Shakespeare. First semester: Shakespeare's histories and comedies; second semester: Shakespeare's tragedies. Year course; 3 credits each semester. (Alternate years; not offered 1945-46.)

280 Restoration and Eighteenth-Century Literature. A study of the ideas of the principal English writers of the period 1660-1780. First semester; 3 credits. (Alternate years; not offered 1945-46.)


284 Victorian Literature (exclusive of the novel). A study of the principal English authors and works of the period 1832-1900. First semester; 3 credits. Mr. Cunningham.
ANNOUNCEMENT OF COURSES


287 DRAMATIC LITERATURE. First semester: European drama to Ibsen; second semester: contemporary European and American drama. Year course; 3 credits each semester. Mr. Wilson.

288 CONTEMPORARY EUROPEAN AND AMERICAN LITERATURE. Representative works of the leading European and American novelists and poets since 1890. Year course; 3 credits each semester. Miss Schwartz, Mr. Day.

299 DIRECTED READING. Open only to English majors. Prerequisite: consent of instructor. Year course; credit by arrangement. Mr. Korn.

300 DIRECTED RESEARCH. Graduate study in (a) American literature, (b) English literature, (c) speech. May be repeated until an aggregate of six credits has been earned. Prerequisites: an undergraduate major, or its equivalent, in one of the three fields listed above; permission of the chairman of the Department. Year course; credit by arrangement. Miss Schwartz, Mr. Day.

FRENCH

100 ELEMENTARY FRENCH. Grammar, phonetics, diction, and reading of easy prose and poetry. Year course; 3 credits each semester. Mrs. Biggs.

101 INTERMEDIATE FRENCH. Review of grammar, composition, and reading from selected modern authors. Prerequisite: one year of French in college or two years in preparatory school. Year course; 3 credits each semester. Mrs. Biggs.

200 MODERN FRENCH LITERATURE. Novel, biography, drama; composition and diction. Prerequisite: two years of college French or equivalent. Year course; 3 credits each semester. Mr. Pecker.

299 DIRECTED READING. Reading of the latest French publications. Prerequisite: consent of instructor. Year course; credit by arrangement. Mr. Pecker.

GEOGRAPHY

150 ELEMENTS OF GEOGRAPHY. Relationship of people to their natural environment. First semester; 3 credits.

151 ECONOMIC GEOGRAPHY. Relationship of production and distribution of industrial raw materials to natural environment. Second semester; 3 credits.

160 FIELD GEOGRAPHY. Field studies, with related laboratory work, emphasizing methods of observing, mapping, and interpreting cultural and natural features in and near Honolulu. Class study of geographical techniques suitable for advanced field work in geography and other sciences. Prerequisite: Geography 150. Second semester; 3 credits.

180 METEOROLOGY. The structure, composition, and movements of the atmosphere; evaporation, condensation, humidity, precipitation, and storms. First semester; 3 credits.
261 OCCUPATIONAL GEOGRAPHY. Problems based upon occupational life of people of the world, from the standpoint of adaptation to environment; consideration of available sources of materials for elementary grades. First semester; 3 credits; repeated second semester.

271 POLITICAL GEOGRAPHY. 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. Second semester; 3 credits.

GEOLGY

150 PHYSICAL GEOLOGY. Materials composing the earth; operation and effects of geologic agents. Prerequisite: sophomore standing. First semester; 3 credits. Mr. Palmer.

151 HISTORICAL GEOLOGY. History of the earth, of its continents and ocean basins, and of its inhabitants. Prerequisite: Geology 150. Second semester; 3 credits. Mr. Palmer.

152-153 LABORATORY GEOLOGY. Identification of minerals and rocks, reading of topographic and geologic maps, and study of important fossil forms. One laboratory period a week. Prerequisite: credit or concurrent registration in Geology 150 or 151. Laboratory fee $1.00 each semester. Year course; 1 credit each semester. Mr. Palmer.

254 ECONOMIC GEOLOGY. Distribution, nature, and origin of deposits of metallic and nonmetallic minerals. Three lectures a week. Prerequisite: Geology 150. First semester; 3 credits. Mr. Palmer.

255 GEOLOGY OF GROUND WATER. Origin, amount, circulation, recovery, and quality of ground water. Two lectures, with demonstrations, a week. Prerequisite: Geology 150. Course fee $1.00. Second semester; 2 credits. Mr. Palmer.

GERMAN

100 ELEMENTARY GERMAN. Grammar developed from easy reading material; exercises in reading and translating. Year course; 3 credits each semester. Mrs. Hörmann, Miss Mueller.

101 INTERMEDIATE GERMAN. Continuation of grammar; vocabulary building; reading and practice of sight reading; free composition. Year course; 3 credits each semester. Mrs. Hörmann, Miss Mueller.

102 SCIENTIFIC GERMAN. Sentence construction and analysis; translation from difficult German scientific readings. Year course; 3 credits each semester. Mrs. Hörmann.

201 CONTEMPORARY LITERATURE. Reading supplemented by exercises in composition. Year course; 3 credits each semester. Mrs. Hörmann, Miss Mueller.

202 ADVANCED SCIENTIFIC GERMAN. Reading and translation of scientific material and practice in sight translation. Prerequisites: two years of college German; consent of instructor. May be repeated once. Year course; 1 or 2 credits each semester. Mrs. Hörmann.

299 DIRECTED READING. Prerequisite: German 200 or 201. Year course; 1 or 2 credits each semester. Mrs. Hörmann, Miss Mueller.
GOVERNMENT

150 American Government. The organization and functions of the national government; American citizenship; protection of civil rights; the party system; contemporary political issues. Second semester; 3 credits. Mr. Hunter.

254 Municipal Government. The city as a political subdivision; forms of city government; consolidation of city and county; municipal politics. First semester; 3 credits. Mr. Lentz.

260 International Relations. Basic forces in international relations; war aims and policies of the Axis and United Nations; problems of postwar reconstruction. First semester; 2 credits. Mr. Bachman.

262 Governments and Politics of the Far East. An analysis of the governmental structure of Japan, China, and dependent areas; a survey of the political problems facing the nations of the Far East in the postwar period. Second semester; 2 credits. Mr. Bachman.

270 Government of Hawaii. Territorial, county, and municipal government with consideration of the question of statehood for Hawaii. Second semester; 3 credits. Mr. Lentz.

300 Directed Reading and Research. Individual problems in comparative government. Year course; credit by arrangement.

HAWAIIAN

100 Elementary Hawaiian. Elements of the language. Year course; 3 credits each semester. Mr. Kahale.


200 Third-Year Hawaiian. Reading of old Hawaiian documents and legends. Year course; 3 credits each semester. (Alternate years; not offered 1945-46.)

252-253 Old and New Hawaii. A course in Hawaiian; origin, migration, population, industries, tabu system, etc. Year course; 2 credits each semester.

HEALTH AND PHYSICAL EDUCATION

The course offerings in Health and Physical Education are necessarily curtailed during the war emergency. The program emphasizes three needs: first, physical fitness as a wartime necessity; second, preparation for special wartime services, through such courses as first aid; and third, a minimum of professional-type courses for prospective teachers. Intramural programs for men and women are also sponsored.

Freshman and Sophomore men and women under twenty-five years of age who are registered for ten or more semester hours of academic work must take at least one credit hour of Health and Physical Education each semester.
A special corrective-work course (Health and Physical Education 104) is provided for students whose physical examinations indicate, in the opinion of the head of the Department, that more active exercise is inadvisable.

All Freshman men are required to take Health and Physical Education 100. Freshman women take 102. Sophomore men and women must take Health and Physical Education 105, either the First or the Second Semester. During the offsetting semester men are required to take 135 and women 136. The lower division Health and Physical Education courses (Health and Physical Education 100 to 199) may not be taken by Juniors and Seniors except where needed to fulfill graduation requirements, or by special permission of the dean of the college concerned.

A student engaged in a varsity sport may be excused from Health and Physical Education class attendance during the season of that sport.

100 INDIVIDUAL AND TEAM SPORTS (MEN). A basic course required of all freshman men, with participation in six activities: football, basketball, baseball, volleyball, tennis, and swimming. The order of these activities varies among the sections of the course. Two class periods a week. Year course; 1 credit each semester. Mr. Chan Wa, Mr. Sakamoto.

102 INDIVIDUAL AND TEAM SPORTS (WOMEN). Required of all freshman women. Activities engaged in are: basketball, softball, soccer, swimming, volleyball, and dancing (folk and social). Two class periods a week. Year course; 1 credit each semester. Mrs. Bennett, Miss Bucklin.

104 RESTRICTED ACTIVITIES. For persons who need modification of the regular activity. Admittance only upon University doctor's recommendation. First semester; 1 credit; repeated second semester. Miss Bucklin.

105 PERSONAL HYGIENE (MEN AND WOMEN). Emphasis upon scientific health information as a basis for hygienic living; personal health problems. One lecture and one personal conference period a week. First semester; 1 credit; repeated second semester. Mr. Sia, Miss Bucklin.

135 PHYSICAL ACTIVITIES FOR MEN. A required course for all sophomore men. Emphasis is placed on physical activities conducive to physical fitness. During the war emergency this course takes the place of the special activities courses previously offered (Health and Physical Education 110-133). First semester; 1 credit; repeated second semester. Mr. Chan Wa, Mr. Sakamoto.

136 PHYSICAL ACTIVITIES FOR WOMEN. Activities engaged in are: archery, badminton, swimming, tennis, and recreational games such as table tennis, horseshoes, etc. First semester; 1 credit; repeated second semester. Miss Gay, Mrs. Bennett.

200 FIRST AID. Prevention and care of accidental injury, with special reference to school and playground; practical work in the use of bandage and splints. Red Cross certificate may be earned. First semester; 2 credits. Mrs. Bennett.

202 LIFESAVING AND WATER SAFETY. This course leads to the certificate given by the American Red Cross for senior lifesaving and also for instructor in lifesaving and water safety. Practical and coaching methods included. Prerequisite: ability to swim 220 yards with any stroke or combination of strokes. First semester; 2 credits. Mrs. Bennett.

220 PHYSICAL EDUCATION IN THE PRIMARY GRADES. Methods, materials, and activities for the primary grades of the elementary school. Three class periods a week. First semester; 2 credits. Miss Gay.
ANNOUNCEMENT OF COURSES

221 PHYSICAL EDUCATION IN THE UPPER ELEMENTARY GRADES. Similar to Health and Physical Education 220, with emphasis upon work in the upper elementary grades. Three class periods a week. Second semester; 2 credits. Miss Gay.

223 SCHOOL HEALTH PROBLEMS. Health needs of school-age child; principles governing organization and administration of school health program; principles, methods, and materials of health education. Second semester; 2 credits.

224 COACHING OF BASKETBALL (MEN). Theory and practice in fundamentals for prospective coaches. Particular emphasis on training schedules, team management, and techniques of offensive and defensive basketball. One lecture and two laboratory periods a week. First semester; 2 credits. Mr. Chan Wa.

225 THEORY OF MINOR AND INDIVIDUAL SPORTS (MEN). Theory and practice in fundamentals of the following: soccer, tennis, volleyball, and other sports if time permits. One lecture and two laboratory hours a week. Second semester; 2 credits. Mr. Chan Wa.

227 PHYSICAL EDUCATION IN THE SECONDARY SCHOOL. Organization and administration of a sports program and methods in teaching of group and individual sports. First semester; 3 credits. Miss Gay.

229 SURVEY OF RHYTHMICS (WOMEN). Fundamentals of movement and rhythm basic to all types of the dance; basic methods and materials in modern folk and tap dancing. One lecture and two laboratory periods a week. First semester; 2 credits. Miss Gay.

252 NATURE AND FUNCTION OF PLAY. Study of the place of play in modern life and its application at the various age levels. First semester; 2 credits. Mr. Brown.

253 GAMES AND GAME LEADERSHIP. Varieties of games for various age levels and procedures for conducting them. Second semester; 2 credits. Mr. Brown.

262 PLAYGROUND MANAGEMENT. The selection and conduct of activities on the playground. First semester; 2 credits. Mr. Brown.

263 SOCIAL RECREATION. Materials and practice in social recreational techniques applicable to parties and special events. Second semester; 2 credits. Mr. Brown.

HISTORY

100 WORLD CIVILIZATION. A survey of the more significant political, social, economic, and intellectual factors in the development of civilization from the Ancient Orient and classical Greece and Rome to the present day, with emphasis on the Western civilizations. Year course; 3 credits each semester. Mr. Bachman.

110 INTRODUCTION TO AMERICAN HISTORY. The religious, cultural, and social backgrounds of the American people. First semester; 3 credits. Mr. Hunter.

201 HISTORY OF THE FAR EAST. Survey of the political, social, and economic history of the Far East as a unit. Year course; 3 credits each semester. Mr. Sakamaki.

208 EXPANSION OF EUROPEAN CIVILIZATION. Survey of cultural changes and developments in Europe, the Western Hemisphere, and Asia resulting from European expansion. First semester; 3 credits. (Alternate years; not offered 1945-46.) Mr. Sakamaki.
HOME ECONOMICS

225 HISTORY OF CHINA. General survey of Chinese history; development of institutions; impact of Western culture upon Chinese civilization. Year course; 3 credits each semester. Mr. Taam.

226 HISTORY OF JAPAN. Historical survey of Japanese culture, government, economics, institutions. Year course; 3 credits each semester. Mr. Sakamaki.

242-243 HISTORY OF THE UNITED STATES. A detailed, political, economic, and social survey of the history of the American people, 1789-1946. Year course; 3 credits each semester. Mr. Hunter.

245 DIPLOMATIC HISTORY OF THE UNITED STATES. History of American foreign policy since the Civil War with emphasis on the recent developments. First semester; 3 credits. Mr. Hunter.

246 AMERICAN THOUGHT AND CULTURE. An advanced course on American social customs and institutions. Second semester; 3 credits. Mr. Hunter.

250 HISTORY OF EARLY CIVILIZATION IN THE FAR EAST. Study of the origins of the peoples and cultures in Eastern Asia. First semester; 3 credits. Mr. Sakamaki.

251 HISTORY OF THOUGHT IN JAPAN. Major schools of thought and important thinkers, social reformers, economists, statesmen, and educators of Japan. Second semester; 3 credits. Mr. Sakamaki.

252 CONSTITUTIONAL HISTORY OF THE UNITED STATES. The genesis, drafting, ratification, and development of the federal constitution. Second semester; 3 credits. Mr. Hunter.

277 THE PACIFIC REGION IN MODERN TIMES. First contact of East and West; discovery and exploration; activities of traders and missionaries; development of European and American interests; origin of current problems. Year course; 2 credits each semester. Mr. Kuykendall.

300 DIRECTED RESEARCH. Individual research in (a) American History—Mr. Hunter; (b) Pacific and Hawaiian History—Mr. Kuykendall; (c) Japanese History—Mr. Sakamaki. Year course; credit by arrangement.

310 SEMINAR IN HISTORICAL METHOD. Training in the evaluation of sources and the preparation of theses. Open to Seniors and graduate students. First semester; 3 credits. Mr. Hunter.

313 SEMINAR IN HISTORIOGRAPHY. The history of history and historians. Open to Seniors and graduate students. Second semester; 3 credits. Mr. Hunter.

315 SEMINAR IN JAPANESE HISTORY. Problems in Japanese history. Guidance in use of Japanese historical material and discussion of special aspects of Japan’s historical development. Prerequisite: consent of instructor. Second semester; 3 credits. Mr. Sakamaki.

HOME ECONOMICS

GENERAL COURSES (HE)

HE 100 ORIENTATION IN HOME ECONOMICS. Application of social ethics to daily life; personal problems of the freshman student; choice of a vocation; vocational opportunities in home economics. First semester; 1 credit. Mrs. Gruelle.

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ANNOUNCEMENT OF COURSES

HE 101 HYGIENE AND HOME NURSING. A practical study of personal and community health; the acquisition of skill in basic home nursing procedures. Two lectures and one laboratory period a week. Second semester; 3 credits. Miss Jones.

HE 201 CONSUMER BUYING. Problems of the consumer in purchasing foods, clothing, cosmetics, drugs, furniture, and equipment; brief survey of market structure, advertising agencies, testing bureaus, and consumer buying habits. Prerequisite: junior standing. Second semester; 2 credits. Mrs. Gruelle.

HE 250 HOUSEHOLD MANAGEMENT. Contribution of homemaker and family members to better home living; management of time and money; arrangement and care of equipment. Two lectures and one laboratory period a week. Prerequisite: junior standing. Year course; 3 credits first semester; 2 credits second semester. Mrs. Gruelle.

HE 251 HOME ECONOMICS EDUCATION. Curriculum content, teaching procedures, and current educational philosophies and practices as they apply to home economics education. Prerequisites: Psychology 150; junior standing. Second semester; 3 credits. Miss Douglass.

HE 252 CHILD TRAINING. Importance of the preschool years in the development of the individual; a constructive program for training the normal child in the home. Planned especially for Home Economics students. Two lectures and one laboratory period a week. Prerequisites: Psychology 150; Home Economics 253. Second semester; 3 credits. Preschool Staff.

HE 253 CHILD CARE. Reproduction, prenatal care, childbirth, infant and preschool care, growth, minor ailments, and common diseases. First semester; 2 credits. Mr. Wishik.

HE 262 EDUCATION FOR FAMILY LIFE. Relationship problems within the family; special emphasis upon the factors contributing toward satisfying parent-child, child-child, and husband-wife relationships. First semester; 3 credits. Miss Douglass.

HE 291 HOME-MANAGEMENT HOUSE. Living with a group of four to six students in a supervised house for eight weeks; practical application of training in home economics; meal preparation, time and money management, human relationships. Students share subsistence cost. First semester; 4 credits; repeated second semester. Miss Douglass.

HE 295 METHODS IN EXTENSION AND HOME DEMONSTRATION WORK. Philosophy and objectives of home demonstration work. Organization of the University Agricultural Extension Service in Hawaii. Work with 4-H clubs or adult groups under the direction of the home demonstration staff. Students to be selected and arrangements for field practice to be made at the end of the junior year. Prerequisites: completion of requirements for Vocational Home Economics program; senior standing. First semester; 2 or 3 credits; repeated second semester.

HE 360 SPECIAL PROBLEMS IN HOME ECONOMICS. Class and individual problems selected according to the needs of fifth-year students preparing to teach vocational homemaking. First semester; 2 credits; repeated second semester. Miss Douglass.

HOUSEHOLD ART (HA)

HA 110 CLOTHING AND TEXTILES. Use of commercial patterns; fundamentals of cutting, fitting, and constructing simple garments; an introductory study of the fundamentals of textiles. Three laboratory periods a week. Laboratory fee $2.00. First semester; 3 credits. Miss Doerr, Miss Mees.
HA 111 CLOTHING AND TEXTILES. Children's clothing; problems in care and renovation of clothing; continued study of textiles; practical application of textile information. Two laboratory periods a week. Prerequisite: Household Art 110. Laboratory fee $2.00. Second semester; 2 credits. Miss Doerr, Miss Mees.

HA 114 CLOTHING DESIGN AND CONSTRUCTION. Design and construction of costumes suitable to the individual student; use of foundation pattern in flat pattern designing. Two laboratory periods a week. Prerequisites: Household Art 110 and 111; credit or concurrent registration in Household Art 150; Art 150-151. Laboratory fee $3.00 each semester. Year course; 2 credits each semester. Miss Doerr, Miss Mees.

HA 150 CLOTHING SELECTION. Inventory of student's wardrobe; clothing plan and budget; color, line, design, suitability in relation to the individual. Laboratory fee $1.00 each semester. Year course; 1 credit each semester. Miss Doerr.

HA 152 HISTORIC COSTUME. A historic survey of costume, showing how fashion has reflected the life of the people. Historic costume as inspiration for modern dress. Second semester; 2 credits. Miss Mees.

HA 253 ADVANCED CLOTHING AND DESIGN. Tailoring of a suit, coat, or slack outfit in the further development of skill in the mastery of difficult techniques. Experience is also gained in the use of a variety of textures. A brief study of clothing economics. Prerequisite: Household Art 114. Laboratory fee $2.00. First semester; 3 credits. Miss Doerr.

HOUSEHOLD SCIENCE (HS)

HS 102 FOOD ECONOMICS. Economics of food selection; experimental food preparation; meal planning and serving. One lecture and two laboratory periods a week. Prerequisites: Chemistry 103; Household Science 150. Laboratory fee $5.00 each semester. Year course; 3 credits each semester.

HS 150 ELEMENTARY FOOD PREPARATION. Fundamental processes of food preparation; practical applications; good food habits. One lecture and two laboratory periods a week. Laboratory fee $5.00. (First semester for Prenursing students only; second semester for Home Economics students only.) First semester; 3 credits; repeated second semester. Mrs. Bartow.

HS 155 ELEMENTARY NUTRITION FOR NURSING STUDENTS. Principles of nutrition in relation to health; emphasis on nutritive value and use of foods grown or used in Hawaii. One lecture and two laboratory periods a week. Prerequisites: Household Science 150; one semester of Chemistry 103. Laboratory fee $5.00. Second semester; 3 credits.

HS 200 NUTRITION. Nutritive requirements of man; function of food in the body; nutritive value of foods and their place in the diet. Two lectures and one laboratory period a week. Prerequisites: Chemistry 103 and 149; credit or concurrent registration in Chemistry 220. Laboratory fee $5.00 each semester. Year course; 3 credits each semester. Miss Miller.

HS 250 DIET AND DISEASE. Diet therapy under abnormal conditions; reading, conferences, and laboratory. Two lectures and one laboratory period a week. Prerequisites: Household Science 102 and 200. Laboratory fee $2.00. First semester; 3 credits. (Alternate years; not offered 1945-46.)
ANNOUNCEMENT OF COURSES

HS 260 QUANTITY COOKERY. Food problems of institutions; preparation and serving of food in large quantities, menu planning, and food costs. Two two-and-one-half-hour laboratory periods a week. Prerequisite: Household Science 102. First semester; 3 credits. Miss Marshall, Miss Kaneshige.

HS 261 INSTITUTIONAL MANAGEMENT. Organization and administration of food departments of institutions such as college cafeterias, college residence halls, and hospitals. Prerequisite: Household Science 260. Second semester; 2 credits. Miss Mitchelson.

HS 263 INSTITUTIONAL BUYING. Selection and purchase of foods and equipment for an institution. Prerequisite: Household Science 260. Second semester; 2 credits. Miss Mitchelson.

HS 264 PROBLEMS IN HOSPITAL DIETETICS OR INSTITUTIONAL MANAGEMENT. Field practice for senior and graduate student dietitians in an approved institution. Prerequisites: Household Science 200, 260, 261, 263, and 265. First semester; 4 credits; repeated second semester. Miss Mitchelson.

HS 265 INSTITUTIONAL ACCOUNTS. Principles of accounting applied to management of school cafeterias, tearooms, residence halls, and other food service units. One lecture and two laboratory periods a week. Prerequisite: Household Science 260. Second semester; 3 credits. Miss Mitchelson.

HS 266 PROBLEMS IN RESIDENCE HALL MANAGEMENT. Planning and directing preparation of meals in a university women’s residence hall; directing of housekeeping in residence hall. Prerequisites: Household Science 200, 260, 261, 263, and 265. First semester; credit by arrangement; repeated second semester. Miss Marshall.

HS 272 ELEMENTARY NUTRITION. Nutrition in relation to health of the individual and the family; planning of adequate diets utilizing foods available in Hawaii. Two lectures and two laboratory periods a week. Prerequisite: Household Science 102 or consent of instructor. Laboratory fee $5.00. First semester; 4 credits.

HS 273 RACIAL FOOD HABITS IN HAWAII. The planning and preparation of meals for various racial groups at different income levels; emphasis on adequate diets at minimum cost. Two lectures and two laboratory periods a week. Prerequisite: Household Science 200 or 272. Laboratory fee $5.00. Second semester; 4 credits. Mrs. Gruelle.

HS 275 PREPARATION OF FOOD FOR CHILDREN. Planning meals for children; problems involved in planning, selecting, preparing, and serving the noon lunch. Second semester; 3 credits. Miss Miller, Mrs. Bartow.

HS 300 DIRECTED RESEARCH IN NUTRITION. Problems according to preparation of each student; nutritional investigations; animal and human feeding experiments. Prerequisites: Household Science 200; consent of instructor. Laboratory fee $5.00 each semester. Credit by arrangement. Miss Miller, Miss Hartzler.

HS 350-351 SEMINAR IN NUTRITION. Review of current literature; preparation of reports; reviews of articles on assigned topics. One one-and-one-half-hour meeting a week. Prerequisite: consent of instructor. Year course; 1 credit each semester. Miss Miller, Miss Hartzler.
JAPANESE

100 ELEMENTARY JAPANESE. Intended especially for occidental beginners and military personnel. Basic grammar; simple conversation and reading. Year course; 3 credits each semester. Mr. Watanabe.

101 INTERMEDIATE JAPANESE. Intended especially for occidentals and military personnel. Conversation and reading. Year course; 3 credits each semester. Mr. Uyehara, Mr. Watanabe.

102 ELEMENTARY JAPANESE. Reading and translation of language readers. Study of Katakana, Hiragana, and simple Chinese characters; composition and oral exercises. Year course; 3 credits each semester. Mr. Uyehara.

103 INTERMEDIATE JAPANESE. Reading and translation of language readers. Study of more Chinese characters; composition; advanced oral exercises. Year course; 3 credits each semester. Mr. Uyehara.

203 JAPANESE TRANSLATION AND INTERPRETATION. Lectures and exercises in Japanese-English translation and interpretation; English-Japanese translation and interpretation. Year course; 3 credits each semester. Mr. Uyehara.

260 JAPANESE LITERATURE IN ENGLISH. Historical analysis of Japanese thought through literature. Study of classics and contemporary works; drama; poetry; etc. Year course; 2 credits each semester. Mr. Uyehara.

299 DIRECTED READING OR RESEARCH. Credit by arrangement. Mr. Uyehara.

MATHEMATICS

149 SECOND-YEAR ALGEBRA. Six hours a week. Prerequisites: one year of high school algebra; one year of plane geometry. First semester; 3 credits; repeated second semester. Mr. Webster, Mr. McCall.

150 PLANE TRIGONOMETRY. Prerequisites: Mathematics 149; or two years of high school algebra and one year of plane geometry. First semester; 3 credits; repeated second semester. Mr. Gregory, Mr. Tom, Mr. Johnson.

151 COLLEGE ALGEBRA. Prerequisites: Mathematics 150; or two years of high school algebra, one year of plane geometry, and one semester of trigonometry. First semester; 3 credits; repeated second semester. Mr. Tom, Mr. Gregory.

152 PLANE ANALYTICAL GEOMETRY. Prerequisite: credit or concurrent registration in Mathematics 151. First semester; 3 credits; repeated second semester. Mr. Watanabe.

153 DIFFERENTIAL CALCULUS. Prerequisite: Mathematics 152. First semester; 3 credits; repeated second semester. (Not offered 1945-46.)

154 INTEGRAL CALCULUS. Prerequisite: Mathematics 153. First semester; 3 credits; repeated second semester. Mr. Watanabe.

155 CALCULUS APPLICATIONS. Prerequisite: Mathematics 154. Second semester; 3 credits. Mr. Watanabe.

156 SPHERICAL TRIGONOMETRY. Prerequisite: Mathematics 150 or equivalent. Second semester; 2 credits. Mr. Webster.
ANNOUNCEMENT OF COURSES

252-253 ADVANCED CALCULUS AND DIFFERENTIAL EQUATIONS. Theory and application of ordinary, total, and partial differential equations. Fourier and other series; hyperbolic functions. Prerequisite: Mathematics 155 or equivalent. Year course; 3 credits each semester. (Not offered 1945-46.)

299 DIRECTED READING. Prerequisite: consent of instructor. Credit by arrangement. Mr. Watanabe.

MEDICAL TECHNOLOGY

266 MEDICAL TECHNOLOGY. A practical course designed to present the clinical technique of accepted laboratory procedures in accordance with hospital and public health standards. Two lectures and two laboratory periods a week. Prerequisite: Bacteriology 264. Laboratory fee $5.00. Second semester; 4 credits.

MUSIC

152 ELEMENTS OF MUSICIANSHP. Music reading, with attention to diction and phrasing. Elementary theory and conducting, with practice in the latter, using patriotic and simple assembly music. Second semester; 3 credits. Mrs. Kahananui.

251 MUSIC IN THE ELEMENTARY CURRICULUM. Organization and direction of music in childhood experience. A survey of materials and procedures. Prerequisite: Music 152 or consent of instructor. First semester; 2 credits. Mrs. Kahananui.

262 MUSIC HISTORY AND APPRECIATION. Nineteenth century romantic and nationalistic emphases in music as influenced by social trends. Listening to music of representative composers is an important phase of the course. Not open to lower division students except by consent of instructor. First semester; 2 credits. Mrs. Kahananui.


291 SURVEY OF RECORDED MUSIC FOR THE ELEMENTARY SCHOOL. An examination of recorded music appropriate for use at the different age levels of elementary school children. Procedures for the guidance of listening. First semester; 2 credits. Mrs. Kahananui.

NURSING

261 METHODS OF TEACHING IN SCHOOLS OF NURSING. The application of principles of learning and methods of teaching to teaching situations in schools of nursing. First semester; 3 credits.

262 STUDENT GUIDANCE AND HEALTH PROGRAMS. Principles of guidance applied to nursing students with emphasis on vocational guidance in the field of nursing. Second semester; 2 credits.
PHILOSOPHY

270 NUTRITION. Nutrition and diet as related to the needs of individuals and family groups; emphasis on nutritive value of local foods and racial diets. Two lectures and one laboratory period a week. First semester; 3 credits.

271 MATERNAL AND CHILD HEALTH. The physiology and hygiene of pregnancy, labor, and the puerperium; development, growth, and physical and mental hygiene of childhood from fetus through school age; standards and procedures of maternity, infant, school, and adolescent health work. First semester; 3 credits. Mr. Wishik.

272 MENTAL HYGIENE FOR PUBLIC HEALTH NURSES. The mental hygiene movement; the mental hygiene program of the Territory of Hawaii; mental hygiene of the individual; child guidance; practical aspects of clinical psychiatry; facilities in Hawaii for dealing with mental disease and how to use them. First semester; 2 credits. Mr. Shanahan.

280 PRINCIPLES OF PUBLIC HEALTH NURSING. The development, methods, and technique of public health nursing; emphasis on the social, preventive, and teaching aspects of service to the family and the community. First semester; 3 credits. Miss Jones.

281 TEACHING PUBLIC HEALTH NURSING. Basic principles underlying teaching and learning; selection and organization of materials used in health teaching; methods used with groups and individuals. First semester; 2 credits. Miss Jones.

282 PREVENTIVE MEDICINE. The public health aspects of certain preventable conditions. First semester; 2 credits. Mr. Lee.

283 PUBLIC HEALTH ORGANIZATION AND ADMINISTRATION. Principles of public health and their application in protecting and promoting the health and welfare of citizens through organized community effort. First semester; 2 credits. Mr. Wilbar.

290 FIELD PROGRAM. Instruction and guided experience in home visiting for bedside and instructive care, in school health work, in maternal and child health conferences, and in chest and other clinics. Approximately thirty-two hours a week. Second semester; 10 credits. Miss Jones and Field Staff.

291 SOCIAL WORK CONCEPTS AND RELATIONSHIPS. Methods of applying mental hygiene concepts to the work of public health nurses through the use of actual case material. Orientation to the field of social work by the study of agency relationships involving referral and conference procedures. Second semester; 3 credits.

PHILOSOPHY

150 HISTORY OF PHILOSOPHY. Western philosophy from era of great Greek thinkers to modern times; basic course in philosophy. Prerequisite: sophomore standing. First semester; 3 credits; repeated second semester. Mr. Moore.

151 MODERN PHILOSOPHY. Western philosophy from the Renaissance to the present day. Desirable preparation: Philosophy 150. Second semester; 3 credits. Mr. Moore.

200 ETHICS—PHILOSOPHIES OF LIFE. Western philosophies and typical theories of the nature of the good life and of the basic values of human living; frequent comparative consideration of Eastern philosophies of life. No previous course in Philosophy is required. First semester; 3 credits. Mr. Moore.

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ANNOUNCEMENT OF COURSES

201 ETHICS—PROBLEMS OF CONDUCT. Practical problems of individual and social life; social and economic justice, crime and punishment, happiness, marriage and the family, etc. Philosophy 200 is desirable preparation, but is not required. Second semester; 3 credits. Mr. Moore.

205 PHILOSOPHY, EAST AND WEST. An introductory survey of the basic systems and methods of Eastern and Western philosophy, calling special attention to similarities and contrasts. Prerequisite: junior standing. Second semester; 3 credits. Mr. Moore.

275-276 PHILOSOPHY OF RELIGION. Analysis of religious experience to show its basic element; emphasis upon the significance of religious experience for a constructive philosophical position. Year course; 2 credits each semester. Mr. Zeigler.

280 LOGIC AND SCIENTIFIC METHOD. Valid forms of reasoning; common fallacies; methods, validity, and difficulties of scientific reasoning. First semester; 3 credits. Mr. Moore.

299 DIRECTED READING. Reading, consultations, and written or oral reports; intended for advanced students and those with special interests. Prerequisite: consent of instructor. Credit by arrangement. Mr. Moore.

PHYSICS

102 COLLEGE PHYSICS. Three lectures and one laboratory period a week. Prerequisite: Mathematics 150 or equivalent. Laboratory fee $4.00 each semester. Year course; 4 credits each semester. Mr. Eller.

202 ELECTRICAL ENGINEERING. Theory, construction, and operation of direct and alternating current electrical machinery and equipment. Two lectures and one laboratory period a week. Prerequisite: Physics 102 or equivalent. Laboratory fee $4.00 each semester. Year course; 3 credits each semester. Mr. Eller.

255 LIGHT. Principles of geometrical and physical optics. Prerequisite: Physics 102 or equivalent. First semester; 3 credits. (Alternate years; not offered 1945-46.)

256 OPTICS LABORATORY. Experiments in geometrical and physical optics. One laboratory period a week. Prerequisite: credit or concurrent registration in Physics 255. Laboratory fee $4.00. First semester; 1 credit. (Alternate years; not offered 1945-46.)

275 ELECTRICITY AND MAGNETISM. Fundamental theory of electric and magnetic phenomena. Prerequisites: Physics 102 or equivalent; Mathematics 154 or equivalent. Second semester; 3 credits. Mr. Eller.

280 MODERN PHYSICS. Selected topics such as radioactivity, cosmic rays, nuclear physics, the photoelectric effect, and relativity. Prerequisite: Physics 102 or equivalent. First semester; 3 credits. Mr. Eller.

299 READING OR LABORATORY WORK IN ADVANCED PHYSICS. Reading, consultations, and written reports; or supervised experimental work. Prerequisites: Physics 102 or equivalent; Mathematics 154 or equivalent. Credit by arrangement. Mr. Eller.

300 DIRECTED READING OR RESEARCH. Reading, consultation, and written reports; or supervised experimental work. Prerequisite: graduate standing or consent of instructor. Credit by arrangement. Mr. Eller.
PSYCHOLOGY

Psychology 150 (or equivalent) is prerequisite to all other courses in Psychology.

150 GENERAL PSYCHOLOGY. Introductory course surveying human behavior. Lectures and demonstrations. Prerequisite: sophomore standing. First semester; 3 credits; repeated second semester. Mr. Livesay.

151 LABORATORY. Required of all students who intend to major or minor in Psychology. Others may register with consent of instructor. Prerequisite: credit or concurrent registration in Psychology 150. Laboratory fee $1.00. First semester; 1 credit; repeated second semester. Mr. Livesay.

185 DEVELOPMENTAL PSYCHOLOGY. Emotional, mental, physical, and social development of the child from infancy through adolescence; interests and abilities at the different age levels. Second semester; 3 credits. Mr. Forbes, Miss Smith.

250 APPLIED PSYCHOLOGY. Application of psychological principles to practical life situations; special attention to industrial, business, legal, and medical fields. First semester; 3 credits. Mr. Forbes.

260 STATISTICAL TECHNIQUES IN PSYCHOLOGY. Use of statistical techniques in psychological problems: measures of central tendency and variability; graphic methods; reliability of measures and scores; methods of correlation. First semester; 3 credits. (Alternate years; not offered 1945-46.)

275 SYSTEMATIC PSYCHOLOGY. The various systems of psychology: existentialism, functionalism, behaviorism, purposivism, and Gestalt. Second semester; 3 credits. (Alternate years; not offered 1945-46.)

280 SOCIAL PSYCHOLOGY. The psychology of human relations; psychological factors that determine the behavior of an individual in his social relationships. Second semester; 3 credits. Mr. Forbes.

292 MENTAL HYGIENE. Conditions requisite to mental health and satisfactory social adjustment; causes and means of preventing maladjustments and neuroses. First semester; 3 credits; repeated second semester. Mr. Forbes.

295 ABNORMAL PSYCHOLOGY. The nature and causes of psychoneuroses and insanity; incipient abnormal traits manifested in everyday life; psychotherapy. First semester; 3 credits. Mr. Forbes.

299 DIRECTED READING. Prerequisite: consent of instructor. Credit by arrangement. Mr. Livesay.

351 ADVANCED EDUCATIONAL PSYCHOLOGY. Application of experimental evidence in psychology to major educational problems; the bearing of recent psychological theories upon education. First semester; 2 credits; repeated second semester. Mr. White.

RELIGION

150 INTRODUCTION TO THE STUDY OF RELIGION. The nature of religion and its relationship to other areas of life and thought. First semester; 3 credits. Mr. Zeigler.

151 PROBLEMS IN RELIGIOUS THOUGHT. The ways in which religious faith has been undergirded by rational thought; emphasis upon modern developments. Second semester; 3 credits. Mr. Zeigler.
ANNOUNCEMENT OF COURSES

200 OLD TESTAMENT SURVEY. The Old Testament from the literary and philosophical points of view; emphasis on practical values of the book for life today. First semester; 2 credits. (Alternate years; not offered 1945-46.) Mr. Zeigler.

201 NEW TESTAMENT SURVEY. The New Testament from the literary and philosophical points of view; emphasis on practical values of the book for life today. Second semester; 2 credits. (Alternate years; not offered 1945-46.) Mr. Zeigler.

208 THE LIFE OF JESUS. A study of the known life of Jesus; emphasis on the great central issues. First semester; 2 credits. Mr. Zeigler.

209 THE TEACHINGS OF JESUS. A study of the known teachings of Jesus; their philosophical and practical implications. Second semester; 2 credits. Mr. Zeigler.

210 LIVES AND TEACHINGS OF THE OLD TESTAMENT PROPHETS. The thought of the five great prophets studied from the angle of their own historical situation, and with consideration of the permanence of their message. First semester; 2 credits. (Alternate years; not offered 1945-46.)

215 HISTORICAL DEVELOPMENT OF THE BIBLE. Survey of the present knowledge of the origin and development of the English Bible in the light of historical, archaeological, and literary research. Second semester; 2 credits. (Alternate years; not offered 1945-46.)

240-241 CHristian Church in History. Survey of the history of the Church as an institution; its relationship to other lines of human development. Year course; 3 credits each semester.

250-251 A COMPARATIVE STUDY OF RELIGIONS. Origin, development, literature, practices, and major ideas of the great religions. Reading in the sacred literature of the great religions. Year course; 3 credits each semester. Mr. Zeigler.

260 RELIGION AND PSYCHOLOGY. Analysis of religious behavior from the psychological point of view, dealing with its appearance in its most significant forms. First semester; 2 credits. (Alternate years; not offered 1945-46.)

271 RELIGION AND LITERATURE. Interpretations of religion that have appeared in the literature of the English-speaking world. Second semester; 2 credits. (Alternate years; not offered 1945-46.)

SOCIAL WORK

Consent of the instructor is required for registration in Social Work courses numbered 300 or higher.

200-201 INTRODUCTION TO SOCIAL WORK. The origins, philosophy, scope, aims, and methods of contemporary social work; typical problems and agencies in case work, group work, and community organization. Field trips to local social agencies. Prerequisite: junior standing. Year course; 3 credits each semester.

305 SOCIAL CASE WORK. Principles of social case work and their application; an approach to the individual and his social situation. First semester; 3 credits. Mrs. Hosch.

310 DYNAMICS OF HUMAN BEHAVIOR. The composition, development, and function of personality. First semester; 2 credits.

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315 **COMMUNITY ORGANIZATION.** Analysis of the larger social welfare program, including the functioning of public and private agencies and their relationship to other phases of the community organization. Second semester; 2 credits.

325 **CHILD WELFARE.** Social aspects of child welfare problems and programs; methods and agencies for the prevention and treatment of maladjustments. Second semester; 3 credits.

330 **HEALTH AND DISEASE.** Diseases and disease groups; their medical and hospitalization aspects and their social implications. First semester; 2 credits.

340 **ADVANCED CASE WORK.** Case discussions emphasizing the psychiatric approach to social case work; evaluation of case studies in terms of cause and effect relationships. Second semester; 3 credits. Mrs. Hosch.

350 **INTRODUCTION TO PUBLIC WELFARE.** The history, functions, and organization of local, state, and federal governments as related to individuals needing special care. First semester; 3 credits.

353 **LEGAL ASPECTS OF SOCIAL WORK.** The elements of law and of legal procedures with reference to the legal-social field. Second semester; 2 credits.

360-361 **SUPERVISED FIELD WORK.** Training in the application of case work principles in local welfare agencies. Year course; 5 credits each semester. Mrs. Hosch.

370 **JUVENILE DELINQUENCY.** A study of the background of delinquent behavior and community responsibility for its control. First semester; 2 credits.

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**SOCILOGY**

151 **INTRODUCTION TO THE STUDY OF SOCIETY.** An orientation course. The basic social relationships and the corresponding social structures. Second semester; 3 credits. Mr. Lind.

250-251 **COMMUNITY FORCES.** The basic factors and forces operating in contemporary society, with special attention to Hawaii. Required of Teachers College students; others may register by consent of instructor. Year course; 2 credits each semester. Mr. Lind, Mr. Hörmann.

253 **RURAL SOCIOLOGY.** Organization of life in the rural environment. A comparative study of rural community types, with special reference to Hawaii. Field trips if the war situation permits. Prerequisites: Anthropology 150; Sociology 151. Second semester; 3 credits. Mr. Hörmann.

255 **SOCIAL DISORGANIZATION.** The factors in contemporary society that condition personal and social disorganization; an introduction to problems of conflict, delinquency, dependency, and degeneracy. Field trips. Second semester; 3 credits. Mr. Hörmann.

258 **RACE RELATIONS.** The sociological significance of race and race relations; typical situations and processes; race relations cycle; conflict and accommodation; caste; race prejudice; the marginal man; miscegenation. First semester; 3 credits. Mr. Rademaker.

267 **THE FAMILY.** The family as a universal institution; human nature and the family; changing structure and functions in the Orient and the Occident; courtship and marriage in the immigrant family. Prerequisite: Sociology 151. Second semester; 3 credits.

269 PERSONALITY AND CULTURE. The origin and development of personality as the subjective aspect of culture; the function of communication; human nature and the mores; personal life organization and disorganization. Prerequisites: Anthropology 150; Sociology 151. First semester; 3 credits. (Alternate years; not offered 1945-46.)

270 POPULATION AND SOCIETY. Society analyzed in terms of the quantitative and qualitative aspects of population. Sociological aspects of birth and death rates, natural increase, and mobility. Prerequisite: Sociology 151. Second semester; 3 credits. (Alternate years; not offered 1945-46.)

271 HUMAN ECOLOGY. Basic concepts, principles, and techniques of human ecology. Factors affecting distribution and movement of population, utilities, and social institutions. Prerequisites: Anthropology 150; Sociology 151. First semester; 3 credits. Mr. Rademaker.

272 COLLECTIVE BEHAVIOR. Elementary and spontaneous forms of group behavior; social unrest; social contagion; the crowd and the public; mass and social movements; fashion, reform, and revolution. Prerequisites: Anthropology 150; Sociology 151. First semester; 3 credits. (Alternate years; not offered 1945-46.)

274 SOCIAL CHANGE. The nature of and the major factors affecting social change; war as illustrating social change; the role of invention and science; social forecasting. Second semester; 3 credits. (Alternate years; not offered 1945-46.)

275 AMERICAN SOCIETY IN TRANSITION. The major trends in American society, particularly as reflected in the present war. First semester; 3 credits. Mr. Rademaker.

290-291 SENIOR PRO-SEMINAR. This course is required of sociology majors. Designed to give experience in field work and in research. Year course; 2 credits each semester. Mr. Lind.

299 DIRECTED READING. Prerequisite: consent of instructor. Credit by arrangement. Staff.

300 DIRECTED READING OR RESEARCH. Prerequisites: graduate standing; consent of instructor. Credit by arrangement. Staff.

350 SOCIOLOGY SEMINAR. Research on the effect of the war on civilian morale and race relations in Hawaii. Facilities of the War Research Laboratory available to qualified students. Open to Seniors and graduate students with consent of instructor. Year course; 2 credits each semester. Mr. Lind.

SPANISH

100 ELEMENTARY SPANISH. Conversation, essentials of grammar, Spanish and Latin-American readings; emphasis upon the oral aspect of the language. Year course; 3 credits each semester. Mr. Pecker, Mrs. Roth.

101 MODERN SPANISH LITERATURE. Works of Galdós, Valera, Pereda, Ibañez, and others; conversation and composition; review of grammar; commercial correspondence. Prerequisite: a year of Spanish in college or two years in preparatory school. Year course; 3 credits each semester. Mr. Pecker, Mrs. Roth.
252 MODERN SPANISH NOVEL. Rapid reading; advanced work in composition and conversation; review of grammar. Prerequisite: two years of college Spanish or the equivalent. First semester; 2 credits. (Alternate years; not offered 1945-46.) Mr. Pecker.

253 MODERN SPANISH DRAMA. Rapid reading of modern Spanish plays; continued work in composition, diction, and conversation. Prerequisite: Spanish 252. Second semester; 2 credits. (Alternate years; not offered 1945-46.) Mr. Pecker.

254-255 LATIN-AMERICAN LITERATURE. Emphasis on Mexico. Advanced composition; outside reading on assigned topics. Prerequisite: two years of college Spanish or equivalent. Year course; 2 credits each semester. Mr. Pecker.

SURVEY COURSES

100 A SURVEY OF THE NATURAL SCIENCES. Items from various fields of natural science selected to illustrate what is known and how it has been learned. Students may register for the second semester by consent of instructor. Year course; 3 credits each semester. Mr. Palmer.

250 HISTORY OF SCIENCE. Progress and discoveries in physical and biological science from ancient to modern times. Readings and reports. Prerequisites: junior standing; two semesters of biological or physical science, one of which must include laboratory work. First semester; 2 credits; repeated second semester. Mr. St. John.

ZOOLOGY AND ENTOMOLOGY

100 GENERAL ZOOLOGY. Zoological principles; studies of structure, development, relationship, and distribution of animals. This course and Botany 100 comprise an introduction to the biological sciences. Two lectures and two laboratory periods a week. Laboratory fee $3.00. First semester; 4 credits; repeated second semester. Mr. Hamre, Mr. Hiatt, Staff.

151 COMPARATIVE ANATOMY OF THE VERTEBRATES. Study of the structure and relationship of the vertebrate groups and discussion of typical vertebrates. Two lectures and two laboratory periods a week. Prerequisite: Zoology 100. Laboratory fee $5.00. Second semester; 4 credits. Mr. Fisher.

160 MAMMALIAN ANATOMY. A laboratory course primarily for premedical and predental students; careful dissection of a typical mammal. Three laboratory periods a week. Prerequisite: Zoology 151. Laboratory fee $6.00. First semester; 3 credits. Mr. Fisher.

170 GENERAL ENTOMOLOGY. Structure, habits, biology, and classification of insects. Emphasis on insects characteristic of Hawaii. Two lectures and one laboratory period a week. Prerequisite: Zoology 100 or Botany 100; both are recommended. Laboratory fee $3.00. First semester; 3 credits. Mr. Holdaway.

180 INVERTEBRATE ZOOLOGY. Morphology, physiology, development, and distribution of invertebrate animals. Two lectures and two laboratory periods a week. Prerequisite: Zoology 100. Laboratory fee $3.00. First semester; 3 credits. Mr. Hiatt.

191 PHYSIOLOGY. Functions of the systems of organs of the human body. Three lectures a week. Prerequisite: Zoology 100. Second semester; 3 credits. Mr. Hiatt.
253 Parasitology. Parasites affecting man and domesticated animals; emphasis on classification, morphology, life history, and control. Two lectures and two laboratory periods a week. Prerequisite: Zoology 100. Laboratory fee $3.00. First semester; 3 credits. (Alternate years; not offered 1945-46.)

257 Plant Quarantine and Inspection. Given in cooperation with the Territorial Board of Agriculture and Forestry and under the supervision of the Plant Inspection Service. Quarantine laws and regulations, and ship and cargo inspection. Practical experience in plant inspection. Prerequisite: Zoology 170 or its equivalent. Desirable preparation, Zoology 273. Second semester; 3 credits. Mr. Fullaway.

260 Histology. Studies of tissues, principles of histology, and microscopic anatomy of a limited number of vertebrate animals. Two lectures and two laboratory periods a week. Prerequisite: one of the following—Zoology 151, 170, 280. Laboratory fee $3.00. First semester; 3 credits. Mr. Hamre.

261 Vertebrate Embryology. Principles of embryology illustrated by a detailed study of the development of the frog and chick. Two lectures and two laboratory periods a week. Prerequisite: one of the following—Zoology 151, 170, 280. Laboratory fee $3.00. Second semester; 3 credits. Mr. Hamre.

262 Microtechnique. The fixing, staining, and mounting of tissues and entire animals and organs. Two laboratory periods a week. Prerequisite: Zoology 260. Laboratory fee $8.00. Second semester; 2 credits.

265 General Anatomy. A general survey of the gross anatomy and physiology of the human body. Prerequisite: upper division standing. Not open to students who have had Zoology 160 or 191. Second semester; 3 credits. Mr. Fisher.

266 Hematology. Study of hemoglobin and cellular elements of blood, blood cell formation, and histology of the blood-forming organs. Two laboratory periods a week. Prerequisite: Zoology 260. Laboratory fee $5.00. First semester; 2 credits. Mr. Hamre.

273 Agricultural Entomology. The important insects of Hawaiian crops; chemical, cultural, and biological control. Two lectures and one laboratory period a week; field trips and studies of living insects. Prerequisite: Zoology 170. Laboratory fee $3.00. Second semester; 3 credits. Mr. Holdaway.

280 Comparative Morphology of Invertebrates. Comparative anatomy, physiology, development, and phylogeny of the invertebrate animals. Two lectures and two laboratory periods a week. Prerequisite: Zoology 100. Laboratory fee $3.00. First semester; 3 credits. Mr. Hiatt.

281 Taxonomy and Ecology of the Invertebrates. Natural history, behavior, classification, and the relation of the invertebrate animals to their environment, with special emphasis on marine communities. Two lectures and two laboratory periods a week. Prerequisite: Zoology 100. Recommended preparation: Zoology 280. Laboratory fee $3.00. Second semester; 3 credits. Mr. Hiatt.

285 Organic Evolution. The doctrine of organic evolution, its historical development, supporting evidence, and material basis. Two lectures a week. Prerequisites: Zoology 100; upper division standing. Recommended preparation: Zoology 151, 261, and Agriculture 254. Second semester; 2 credits. Mr. Hiatt.

299 Directed Reading or Research. Prerequisite: consent of instructor. Credit by arrangement. Staff.

300 Directed Research. Directed research in the fields of marine zoology, anatomy, histology, entomology. Prerequisites: graduate standing; consent of instructor. Credit by arrangement. Staff.
### SUMMARY OF ENROLLMENT FOR 1944-45

(A) In Regular University Day and Evening Credit Courses

<table>
<thead>
<tr>
<th>Candidates for Degrees, Diplomas, and Certificates</th>
<th>1st Semester</th>
<th>2nd Semester</th>
<th>Year*</th>
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<tbody>
<tr>
<td><strong>Graduate Division</strong></td>
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<tr>
<td>Advanced degrees</td>
<td>59</td>
<td>51</td>
<td>49</td>
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<tr>
<td>Five-year diplomas</td>
<td>25</td>
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<tr>
<td>Professional teaching certificates</td>
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<td>26</td>
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<tr>
<td>Social work certificates</td>
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<td><strong>College of Arts and Sciences</strong></td>
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<tr>
<td>Seniors</td>
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<tr>
<td>Juniors</td>
<td>112</td>
<td>92</td>
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<tr>
<td>Sophomores</td>
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<tr>
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<td><strong>College of Applied Science</strong></td>
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<td>Public health nursing certificates</td>
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<td><strong>Teachers College</strong></td>
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<td>Juniors</td>
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<td>Sophomores</td>
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<td>Freshmen</td>
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<td><strong>Total certificate and diploma candidates</strong></td>
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<td><strong>Unclassified Day Students</strong></td>
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<td>Graduates</td>
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<td>Undergraduates</td>
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<td>Auditors</td>
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<td>159</td>
<td>372</td>
</tr>
<tr>
<td>Auditors</td>
<td>75</td>
<td>119</td>
<td>236</td>
</tr>
<tr>
<td><strong>Total day and evening students</strong></td>
<td>2,641</td>
<td>2,473</td>
<td>3,601</td>
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<tr>
<td><strong>Students registered in both day and evening sessions</strong></td>
<td></td>
<td></td>
<td>-48</td>
</tr>
<tr>
<td><strong>Net Total</strong></td>
<td></td>
<td></td>
<td>3,553</td>
</tr>
</tbody>
</table>
SUMMARY OF ENROLLMENT FOR 1944-45—(Continued)
(B) In Adult Education Courses

<table>
<thead>
<tr>
<th></th>
<th>Civilian Students</th>
<th>Service Personnel</th>
<th>Total Enrollment</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Non-credit</strong></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>On the campus</td>
<td>1,358</td>
<td>2,571</td>
<td>3,929</td>
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<tr>
<td>Off the campus</td>
<td>32</td>
<td></td>
<td>32</td>
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<tr>
<td><strong>Credit, correspondence</strong></td>
<td></td>
<td></td>
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<tr>
<td>College</td>
<td></td>
<td>819</td>
<td>888</td>
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<tr>
<td>High school</td>
<td>59</td>
<td>46</td>
<td>105</td>
</tr>
<tr>
<td><strong>Adult Americanization and English speech program</strong></td>
<td>961</td>
<td></td>
<td>961</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>2,479</td>
<td>3,436</td>
<td>5,915</td>
</tr>
</tbody>
</table>

* Although the majority of students register for both semesters, some drop out at the end of the first semester and others enter at the beginning of the second semester. Therefore, the figures used in this column represent the total number of individuals registered for the year rather than the sum of the first and second semester registrations.

† Undergraduates first semester, graduates second semester.
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