UNIVERSITY OF HAWAII
BULLETIN

VOLUME XXV
NUMBER 4
SEPTEMBER 1946

ANNOUNCEMENT OF COURSES

FOR SEMESTERS BEGINNING SEPTEMBER 18, 1946, AND FEBRUARY 3, 1947
ANNOUNCEMENT OF COURSES

FOR SEMESTERS BEGINNING
September 18, 1946, and February 3, 1947
<table>
<thead>
<tr>
<th>Date</th>
<th>Event Description</th>
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<tbody>
<tr>
<td>Sept. 12, Thursday</td>
<td>Freshman Orientation Period</td>
</tr>
<tr>
<td>Sept. 13, Friday</td>
<td>Registration of unclassified and graduate students</td>
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<tr>
<td>Sept. 14, Saturday</td>
<td>Registration of Freshmen</td>
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<tr>
<td>Sept. 16, Monday</td>
<td>Registration of Sophomores, Juniors, and Seniors</td>
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<tr>
<td>Sept. 18, Wednesday</td>
<td>Instruction begins</td>
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<tr>
<td>Sept. 21, Saturday</td>
<td>Regatta Day (holiday)</td>
</tr>
<tr>
<td>Nov. 5, Tuesday</td>
<td>Election Day (holiday)</td>
</tr>
<tr>
<td>Nov. 11, Monday</td>
<td>Armistice Day (holiday)</td>
</tr>
<tr>
<td>Nov. 28, Thursday</td>
<td>Thanksgiving recess</td>
</tr>
<tr>
<td>Nov. 30, Saturday</td>
<td>Last day of instruction before Christmas recess</td>
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<tr>
<td>Dec. 21, Saturday</td>
<td></td>
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<tr>
<td>Jan. 6, Monday</td>
<td>Instruction resumes</td>
</tr>
<tr>
<td>Jan. 18, Saturday</td>
<td>Last day of instruction in First Semester</td>
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<tr>
<td>Jan. 21, Tuesday</td>
<td>Final examinations begin</td>
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<tr>
<td>Jan. 25, Saturday</td>
<td>First semester ends</td>
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<tr>
<td>Jan. 30, Thursday</td>
<td>Franklin Roosevelt's Birthday (holiday)</td>
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<tr>
<td>Jan. 31, Friday</td>
<td>Registration for the Second Semester</td>
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<td>Feb. 1, Saturday</td>
<td></td>
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<tr>
<td>Feb. 3, Monday</td>
<td>Instruction begins</td>
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<tr>
<td>Feb. 12, Wednesday</td>
<td>Lincoln's Birthday (holiday)</td>
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<tr>
<td>Feb. 22, Saturday</td>
<td>Washington's Birthday (holiday)</td>
</tr>
<tr>
<td>Apr. 4, Friday</td>
<td>Easter recess</td>
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<tr>
<td>Apr. 5, Saturday</td>
<td></td>
</tr>
<tr>
<td>May 22, Thursday</td>
<td>Last day of instruction in Second Semester</td>
</tr>
<tr>
<td>May 26, Monday</td>
<td>Final examinations begin</td>
</tr>
<tr>
<td>May 30, Friday</td>
<td>Memorial Day (holiday)</td>
</tr>
<tr>
<td>June 3, Tuesday</td>
<td>Second Semester ends</td>
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<tr>
<td>June 10, Tuesday</td>
<td>Commencement</td>
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The University of Hawaii Bulletin is published quarterly by the University of Hawaii, Honolulu, Hawaii, U.S.A. Entered as second-class matter at the Post Office at Honolulu, Hawaii, November 14, 1921, under Act of Congress of August 24, 1912.
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THIS SEPTEMBER ISSUE of the University of Hawaii Bulletin completes publication for the college year 1946-47 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, 1946-47, and summarizes enrollment in the 1945-46 sessions. The bibliographical material contained in the September issues in 1943 and 1944 will not be published this year.
BOARD OF REGENTS

WILLIAM P. ALEXANDER
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Lihue, Kauai

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Ethnologist
Honolulu

FRED K. LAM
Physician and Surgeon
Honolulu

W. HAROLD LOPER, EX OFFICIO
Superintendent, Department of Public Instruction
Honolulu

E. P. LYDGATE
Cashier, Maui Pineapple Company
Paia, Maui

J. FRANK McLAUGHLIN
Judge, United States District Court
Honolulu

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Manager, Kohala Sugar Company
Hawi, Hawaii

GREGG M. SINCLAIR, EX OFFICIO
President of the University
Honolulu

PHILIP E. SPALDING
President, C. Brewer and Company
Honolulu

TERM EXPIRES

1947

1949

1947

1949

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Secretary Paul S. Bachman
FACULTY AND STAFF
AS OF AUGUST 1, 1946

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COLIN J. HERRICK, Ph.D. Acting Director, 1946-47, of the Psychological and Psychopathic Clinic
JOHN H. BEAUMONT, Ph.D. Director of the Hawaii Agricultural Experiment Station
HOWRY H. WARNER, B.S. Director of the Cooperative Extension Service in Agriculture and Home Economics
ALBERT J. MCKINNEY, M.A. Acting Director of the University Extension Division

JOSEPH M. SKORPEN, B.A. Treasurer
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CARL G. STROVEN, Ph.D. Librarian
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PHILIP B. LOTTICH, M.A. Counselor for Men

INSTRUCTION

FRANCIS K. AIWOHI, Major, Assistant Professor of Military Science and Tactics.


BOWER ALY, Ph.D., Professor of English—B.S., Missouri State Teachers College, 1925; M.A., Univ. of Missouri, 1926; Ph.D., Columbia Univ., 1941.
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.

STANLEY J. AZEVEDO, Sergeant, Instructor in Military Science and Tactics.

PAUL S. BACHMAN, Ph.D., Professor of Government—B.S., Ohio State Univ., 1922; M.A., Univ. of Washington, 1925, Ph.D., 1927.

ALBERT H. BANNER, Ph.D., Assistant Professor of Zoology—B.S., Univ. of Washington, 1935; M.S., Univ. of Hawaii, 1940; Ph.D., Univ. of Washington, 1943.


GERTRUDE L. BATES, M.S.W., Assistant Professor of Social Work—B.A., Univ. of Washington, 1940, M.S.W., 1942.

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J. GARDNER BENNETT, C.E., Professor of Civil Engineering—B.S., Cornell College, 1912; C.E., Univ. of Wisconsin, 1925.


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ERVIN H. BRAMHALL, Ph.D., Associate Professor of Physics and Mathematics—B.S., Stanford Univ., 1926; M.S., Massachusetts Institute of Technology, 1928; Ph.D., Cambridge Univ., 1932.

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PETER BUCK, M.D., Research Associate in Anthropology—M.B., Ch.B., Univ. of New Zealand, 1904, M.D., 1910; Fellow of New Zealand Institute.

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JOHN F. EMBREE, Ph.D., Associate Professor of Anthropology—B.A., Univ. of Hawaii, 1931; M.A., Univ. of Toronto, 1934; Ph.D., Univ. of Chicago, 1937.


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


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Har low C. Richardson, B.A., Visiting Professor of English—B.A., Grinnell College, 1898.

He st er A. Robinson, M.A., Assistant Professor of Art—B.A., Miami Univ., 1931; M.A., Ohio State Univ., 1939.

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May belle F. Roth, M.Ed., Instructor in Spanish—B.S., Oregon State College, 1921; B.A., Univ. of California, 1933; M.Ed., Univ. of Hawaii, 1936.

F redrick Ru h, M.A., Instructor in English—B.A., De Pauw Univ., 1939; M.A., Univ. of California at Los Angeles, 1942.

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Shun zo Sakamaki, Ph.D., Associate Professor of History—B.A., Univ. of Hawaii, 1927, M.A., 1928; Ph.D., Columbia Univ., 1939.

So ichi Sakamoto, Instructor in Physical Education.

All an F. Saunders, Ph.D., Associate Professor of Government and Chairman, Department of Government—B.A., Amherst College, 1918; M.A., Univ. of Wisconsin, 1920, Ph.D., 1927.


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Jan et 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.

Ver non E. Smith, D.D.S., Lecturer in Dental Hygiene—D.D.S., Univ. of Southern California, 1933.

FACULTY AND STAFF


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ALICE H. ALLEN, Ph.D., Associate Psychologist (for outer islands)—B.A., Vassar College, 1926; Ph.D., Univ. of Michigan, 1929.

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. (On leave 1946–47.)

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.

MILDRED C. MENDENHALL, Ph.D., Associate Psychologist (for outer islands)—B.A., Univ. of North Carolina, 1920; M.A., Univ. of Rochester, 1934; Ph.D., Univ. of North Carolina, 1939.

PSYCHOLOGICAL AND PSYCHOPATHIC CLINIC

HARRY O. PATTERSON, JR., B.A., Junior Psychologist—B.A., Univ. of Omaha, 1940.

HELEN E. PEIXOTTO, Ph.D., Assistant Psychologist—B.A., College of Mount Saint Vincent, 1934; M.A., Columbia Univ., 1937; Ph.D., Fordham Univ., 1940.

HENRY N. PETERS, Ph.D., Associate Psychologist—B.A., Univ. of Arkansas, 1930; M.A., Univ. of Missouri, 1931; Ph.D., Univ. of Chicago, 1933.

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

HAWAII AGRICULTURAL EXPERIMENT STATION


MINORU AWADA, B.S., Assistant in Plant Physiology—B.S., Univ. of Hawaii, 1938.

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.

MIDORI ESAKI, B.S., Assistant in Chemistry—B.S., Univ. of Hawaii, 1945.

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

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.

RENE GUILLOU, M.S., Agricultural Engineer—B.S., Univ. of California, 1915, M.S., 1942.

EVA R. HARTZLER, M.S., Associate Nutritionist—B.S., Juniata College, 1932; M.S., Pennsylvania State College, 1933.

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

LOUIS A. HENKE, M.S., Assistant Director and Animal Husbandman—B.S., Univ. of Wisconsin, 1912, M.S., 1923.

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

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

WARREN S. IKEDA, B.S., Assistant in Plant Physiology—B.S., Univ. of Hawaii, 1939.

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

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

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

ROBERT C. LINDNER, Ph.D., Associate Plant Physiologist—B.A., Univ. of California, 1936; Ph.D., Univ. of Chicago, 1939.

JAMES A. LYLE, M.S., Junior Plant Pathologist—B.S., Univ. of Kentucky, 1940; M.S., North Carolina State College, 1944.

HIROMU MATSUMOTO, M.S., Assistant in Chemistry—B.S., Univ. of Hawaii, 1944, M.S., 1945.

CAREY D. MILLER, M.S., Nutritionist—B.A., Univ. of California, 1917; M.S., Columbia Univ., 1922. (On leave 1946–47.)
TOSHIYUKI NISHIDA, B.S., Assistant in Entomology—B.S., Univ. of Hawaii, 1941.

IRWIN L. OTTENSEN, B.S., Assistant in Chemistry—B.S., East Texas State Teachers College, 1943.

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

ANASTACIO L. PALAFOX, M.S., Assistant in Poultry Husbandry—B.S., State College of Washington, 1940, M.S., 1941.

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.

G. DONALD SHERMAN, Ph.D., Chemist—B.S., Univ. of Minnesota, 1933, M.S., 1937; Ph.D., Michigan State College, 1940.

GORDON T. SHIGEURA, B.S., Assistant in Plant Physiology—B.S., Univ. of Hawaii, 1939.

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

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

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.

COOPERATIVE EXTENSION SERVICE IN AGRICULTURE AND HOME ECONOMICS

DAVID AKANA, B.S., County Agricultural Agent—B.S., Univ. of Hawaii, 1932.

MARY A. AMOSS, B.S., County Home Demonstration Agent, Maui—B.S., Iowa State College, 1943.

WILLIAM E. BEMBOWER, M.S., Assistant Specialist in Horticulture—B.S., Ohio State Univ., 1911; M.S., Univ. of California, 1916.

CHARLES M. BICE, B.S., Associate Specialist in Poultry Husbandry—B.S., Univ. of Wisconsin, 1927.

JOSEPH H. BOYD, B.S., Specialist in Horticulture—B.S., West Virginia Univ., 1918.

BURNS M. BYRAM, B.S., Associate Specialist in Club Work—B.S., Iowa State College, 1921.


HENRY N. CHIKASUB, B.S., Assistant County Agricultural Agent, West Oahu—B.S., Univ. of Hawaii, 1941.

WINIFRED W. CHINEN, B.S., Assistant County Home Demonstration Agent, Maui—B.S., Univ. of Hawaii, 1943.

EDWIN Y. CHUN, B.S., County Agricultural Agent, South Oahu—B.S., Univ. of Hawaii, 1933.

ANTONIO CRUZ, Assistant County Agricultural Agent, East Oahu.

ELEANOR DICKIE, B.S., Assistant County Home Demonstration Agent—B.S., Cornell Univ., 1944.
M. JAMES DOI, B.S., Assistant County Agricultural Agent, Maui—B.S., Univ. of Hawaii, 1942.

LILLIAN DON, B.S., Assistant County Home Demonstration Agent—B.S., Univ. of Arizona, 1946.

MATIE J. EBELTOFT, B.S., Assistant County Home Demonstration Agent, East Hawaii—B.S., North Dakota Agricultural College, 1943.

ROBERT C. ECKART, B.S., County Agricultural Agent—B.S., Univ. of California, 1931.

RALPH C. ELLIOTT, B.S., Associate Specialist in Agricultural Economics—B.S., Univ. of Minnesota, 1922.

GENEVIEVE M. FEAGIN, B.S., County Home Demonstration Agent—B.S., Mary Hardin Baylor College, 1935.

I. WALTER FURUYA, B.S., Acting County Agricultural Agent—B.S., Univ. of Hawaii, 1940.

PAUL A. GANTT, M.S., Associate Specialist in Animal Husbandry—B.S., Iowa State College, 1922, M.S., 1926. (On leave 1946-47.)

ROY A. GOFF, B.S., Assistant Director in Agriculture—B.S., Lombard College, 1913; B.S., Univ. of Illinois, 1915.

Y. BARON GOTO, B.S., Associate Specialist in Agricultural Extension—B.S., Univ. of Hawaii, 1924.

JANE S. HAMAMURA, B.S., Assistant County Home Demonstration Agent, West Oahu—B.S., Univ. of Hawaii, 1944.

ALICE B. HANCOCK, B.S., County Home Demonstration Agent, North Hawaii—B.S., Iowa State College, 1927.

HARUO H. HONMA, B.S., Assistant County Agricultural Agent—B.S., Univ. of Hawaii, 1940.

MABEL INADA, B.S., Assistant County Home Demonstration Agent, Maui—B.S., Univ. of Hawaii, 1941.

JOHN IWANE, B.S., Assistant County Agricultural Agent, West Hawaii—B.S., Univ. of Hawaii, 1940.

FRANCES M. JONES, B.S., County Home Demonstration Agent, East Hawaii—B.S., Oklahoma Agricultural and Mechanical College, 1940.

Y. EDWARD KANEMOTO, B.S., Assistant County Agricultural Agent—B.S., Iowa State College, 1943.

BUNKI KUMABE, B.S., Assistant County Agricultural Agent, Maui—B.S., Univ. of Hawaii, 1942.

CLARENCE LYMAN, M.S., County Agricultural Agent, East Hawaii—B.S., Univ. of Hawaii, 1938, M.S., 1941.

RICHARD LYMAN, JR., B.S., County Agricultural Agent, West Hawaii—B.S., Univ. of Hawaii, 1925.

MILDRED McINTOSH, B.S., Junior Specialist in Agriculture and Home Economics—B.S., Columbia Univ., 1919.

GEORGE E. MARVIN, M.S., County Agricultural Agent, North Hawaii—B.S., Univ. of Wisconsin, 1923, M.S., 1926.

KEICHI MIHATA, B.A., Assistant County Agricultural Agent, North Hawaii—B.A., Univ. of Hawaii, 1935.

KENICHI MURATA, Junior Specialist in Agricultural Economics.

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.
RUTH N. NELSON, M.S., Assistant Specialist in Foods and Nutrition—B.S., Montana State College, 1933; M.S., Univ. of Minnesota, 1944.

ESTHER L. NYE, B.S., Assistant County Home Demonstration Agent, Kauai—B.S., North Dakota Agricultural College, 1941.

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.

ESTHER O. OPLAND, B.S., County Home Demonstration Agent, South Oahu—B.S., North Dakota State College, 1935.

PERRY F. PHILIP, B.S., Assistant Specialist in Agricultural Economics—B.S., Univ. of California, 1945.

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


DOUGLAS S. SAKAMOTO, B.S., Assistant County Agricultural Agent, South Oahu—B.S., Univ. of Hawaii, 1939.

Y. JAMES SHIGETA, Assistant County Agricultural Agent, Maui.

LORENZO T. SIGUENZA, Assistant County Agricultural Agent, Kauai.


Y. RICHARD SUMIDA, B.S., Assistant County Agricultural Agent, South Oahu—B.S., Univ. of Hawaii, 1936.

SHOKYO TACHIKAWA, B.S., Assistant County Agricultural Agent, Maui—B.S., Univ. of Hawaii, 1938.

FRANCIS T. TAKAHASHI, Assistant County Agricultural Agent, Kauai.

SHIRO TAKEI, B.S., Junior Specialist in Agricultural Economics—B.S., Univ. of Hawaii, 1938.

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

MAMIE N. TILLEMA, B.S., Assistant County Home Demonstration Agent, Kauai—B.S., Univ. of Wisconsin, 1942.

ALICE P. TRIMBLE, B.S., Assistant Specialist in Home Management, Home Furnishings, and Clothing—B.S., Utah State College, 1924.

LILLIAN M. TUBB, B.S., County Home Demonstration Agent, West Hawaii—B.S., Montana State College, 1931.

MOTOI UEDA, B.A., Assistant County Agricultural Agent, East Hawaii—B.A., Univ. of California at Los Angeles, 1934.

HARVEY M. VOLLRATH, B.S., Assistant Animal Husbandman—B.S., Colorado College of Agriculture, 1929.

HOWRY H. WARNER, B.S., Director—B.A., Pomona College, 1912; B.S., Univ. of California, 1913.

VIOLA E. WOODRUFF, B.S., County Home Demonstration Agent—B.S., Ohio State Univ., 1935.

ROKURO YAMAGUCHI, B.S., Assistant County Agricultural Agent, East Oahu—B.S., Univ. of Hawaii, 1942.

BETTY ZANE, B.S., Assistant County Home Demonstration Agent, South Oahu—B.S., Univ. of Hawaii, 1946.
ANNOUNCEMENT OF COURSES
FOR 1946-47

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 1946-47 Sessions, University of Hawaii Bulletin for June, 1946.

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. First 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. Second semester; 3 credits.

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: Botany 100; Chemistry 103; Zoology 100. Laboratory fee $1.00. Second semester; 3 credits. 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: Botany 100; Chemistry 103; Zoology 100. First semester; 3 credits. (Alternate years; not offered 1946-47.) 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 1946–47.)

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. MR. STOREY.

256 **PRINCIPLES OF AGRONOMY.** Field crops; their distribution, character, culture, utilization, and improvement. Two lectures and one laboratory period a week. Prerequisites: Botany 100; Chemistry 103; Zoology 100. Laboratory fee $1.00. Second semester; 3 credits. 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 1946–47.) 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 1946–47.)

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.

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.
ANNOUNCEMENT OF COURSES

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. EMBREE, MISS LUOMALA.

171 MAN AND CULTURE. Introduction to cultural anthropology (not open for credit to students who have taken Anthropology 150). Second semester; 3 credits. MISS LUOMALA.

252 PEOPLES OF THE PACIFIC. A survey of the peoples and cultures of the Pacific area (Polynesia, Micronesia, and Melanesia). First semester; 3 credits. MR. EMBREE.

254 PEOPLES OF INDIA AND SOUTHEAST ASIA. Ethnology and social organization of India, Southeast Asia, and Malaysia. Discussion of cultural diffusion and contact within the area. First semester; 3 credits. MR. EMBREE.

255 PEOPLES OF EAST ASIA. Ethnology and social organization of Japan, China, and Korea. Discussion of cultural diffusion and contact within the area. Second semester; 3 credits. MR. EMBREE.

255 PEOPLES OF EAST ASIA. Ethnology and social organization of Japan, China, and Korea. Discussion of cultural diffusion and contact within the area. Second semester; 3 credits. MR. EMBREE.

265 PRIMITIVE SOCIETY. Study of diverse types of social organization with the aim of a better understanding of human society. First semester; 3 credits. MISS LUOMALA.

267 PRIMITIVE RELIGION. Religious beliefs and practices in primitive society. Function of religion in society. Reading of monographs on religion of various tribes. Prerequisites: Anthropology 150; Sociology 151; or consent of instructor. Second semester; 2 credits. MISS LUOMALA.

268 PRIMITIVE ART. Survey of art forms and techniques of preliterate peoples of the world; types of design, relations of art forms and culture. Second semester; 2 credits. MISS LUOMALA.

295 APPLIED ANTHROPOLOGY. Applications of anthropology in administrative and other contexts involving culture contact. Second semester; 2 credits. MR. EMBREE.

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.
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. NORRIS, MISS ROBINSON.

154-155 FREEHAND DRAWING AND BEGINNING PAINTING. First semester: freehand perspective. Second semester: three-dimensional form in charcoal and water color. Year course; 2 credits each semester. MR. NORRIS, MISS ROBINSON.

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. MRS. FISHER.

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. (Alternate years; not offered 1946-47.)

175 TEXTILE DECORATION. Advanced problems in tie dye, batik, block printing, etc. Prerequisite: Art 150-151. Second semester: 2 credits.

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. NORRIS.

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.

256 COMMERCIAL ART. Development of the principles of design as they relate to commercial art. Lettering. Experimentation with such commercial forms as business stationery, advertisements, and posters. Prerequisites: Art 150-151 and 154-155. First semester; 2 credits. 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. MISS ROBINSON.

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. MISS ROBINSON.

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ANNOUNCEMENT OF COURSES

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. MISS ROBINSON.

265 WATER COLOR PAINTING. The technique of water color. Studio and outdoor painting. Prerequisites: Art 150–151 and 154–155. Second semester; 2 credits. (Not offered 1946–47.) 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. (Not offered 1946–47.) 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. (Not offered 1946–47.) 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. (Not offered 1946–47.) MR. NORRIS.

275 ADVANCED COMMERCIAL ART. Art in business from a designer's point of view. Advanced problems in layout. Posters, newspaper and magazine advertisements, pamphlets, trademarks, etc. Prerequisite: Art 256. Second semester; 2 credits. 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. NORRIS.

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 fundamentals. Recommended for students who are preparing for this or allied fields. 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, MR. BUSHNELL.

156 PUBLIC HEALTH BACTERIOLOGY. Basic principles of bacteriology in relation to dairying, water sanitation, sewage disposal, disinfection, communicable diseases, and immunity. Desirable preparation: Bacteriology 151 or its equivalent. First semester; 2 credits; repeated second semester. MR. HARTMANN.
250 ECONOMIC BACTERIOLOGY. Certain analytic and synthetic functions of microorganisms are considered in relation to industrial processes, dairying, food and soil. One lecture and one laboratory period a week. Prerequisite: Bacteriology 151 or its equivalent. Laboratory fee $2.50 each semester. Year course; 2 credits each semester. MR. BUSHNELL.

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 preparing for nursing, medicine, and public health work. Prerequisite: Bacteriology 151 or its equivalent. First semester; 3 credits. MR. HARTMANN.

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. Three laboratory periods a week. Prerequisite: credit or concurrent registration in Bacteriology 260. Laboratory fee $5.00. First semester; 2 credits. MR. BUSHNELL.

264 IMMUNOLOGY. 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. MR. BUSHNELL.

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.

BOTANY

100 GENERAL BOTANY. Survey of the plant kingdom, with emphasis upon structure in relation to function, function in relation to habitat, habitat and heredity in relation to evolution, attributes of plant life in relation to man. This course and Zoology 100 comprise an introduction to the biological sciences. Two lectures and two laboratory periods a week. Laboratory fee $3.00 each semester. First semester; 4 credits; repeated second semester. MR. ROGERS.

102 SYSTEMATIC BOTANY OF FLOWERING PLANTS. Native and exotic Hawaiian flowering plants, their classification, history, distribution, use; synopsis of monocotyledons; preparation of an herbarium. One lecture and two laboratory periods a week. Prerequisite: Botany 100. Laboratory fee $2.00. First semester; 3 credits. MR. ST. JOHN.

103 EVOLUTION. Evolution in the plant kingdom; the simple ancestral plants; the lines of development to the complex higher plants. The rational basis for evolutionary hypotheses; the place of evolution in science and human thought. Second semester; 2 credits. MR. ROGERS.
ANNOUNCEMENT OF COURSES

105 ECONOMIC PLANTS OF HAWAII AND POLYNESIA. The cultivated and wild plants used in ancient and modern times by the Hawaiians and Polynesians. Nature of these economic plants and their use for food, drink, fabric, dye, medicine, and utensils. First semester; 2 credits; repeated second semester. MR. ST. JOHN.

155 PLANT GROWTH. The nature of seeds; nutrition of the embryo plant during germination of the seed; development of adult from embryonic structures; intake of raw materials; manufacture of food by the adult plant. Second semester; 2 credits. MR. ST. JOHN.

158 MYCOLOGY. Introduction to the structure, classification, and physiology of the major groups of fungi. Collection and identification of representative Hawaiian fungi. Two lectures and one laboratory period a week. Prerequisite: Botany 100. Laboratory fee $3.00. First semester; 3 credits. (Alternate years; not offered 1946–47.) MR. ROGERS.

160 FLOWER AND TREE IDENTIFICATION. A non-technical course in the identification of the common cultivated plants and weeds of the Territory. Second semester; 2 credits. MR. ST. JOHN.

161 PLANT GEOGRAPHY. Plant distribution throughout the world; vegetation of forests, grasslands, deserts, tundra, mountains, and oceans; special attention to origin, development, ecology, and economic importance. First semester; 2 credits. MR. ST. JOHN.

173 ELEMENTARY PLANT PHYSIOLOGY. Introduction to plant physiology; osmosis, absorption of water, transpiration, mineral utilization, photosynthesis, storage, digestion, respiration, growth, photoperiodism. Three lectures and one laboratory period a week. Prerequisites: Botany 100; Chemistry 103. Laboratory fee $3.00. Second semester; 4 credits. MR. ST. JOHN.

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. MR. ST. JOHN.

253 PLANT ECOLOGY. Plants in relation to environment, the climatic and geographic factors; plant sociology, the origin, development, structure, and succession of plant societies. Two lectures and two laboratory periods a week. Prerequisite: Botany 102. Laboratory fee $3.00. Second semester; 4 credits. 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 $2.00. First semester; 4 credits. MR. ST. JOHN.

258 ADVANCED MYCOLOGY. Study of the taxonomy of selected groups of fungi. Consideration of recent and current work on the morphology, taxonomy, and physiology of the fungi. Two lectures and one laboratory period a week. Prerequisite: Botany 158. Laboratory fee $3.00. First semester; 3 credits. MR. ROGERS.
263 **PLANT PATHOLOGY.** A systematic study of plant diseases. Development of plant pathology; classification of plant diseases; relation of diseases to the environment; methods of investigating plant diseases; symptoms, etiology, and control measures, with special reference to Hawaii. Two lectures and one laboratory period a week. Prerequisites: Botany 158; Bacteriology 151. Laboratory fee $3.00. Second semester; 3 credits. (Alternate years; not offered 1946–47.) Mr. Rogers.

264 **PLANT PATHOLOGY TECHNIQUE.** Methods for the study of plant diseases: isolation, culture, inoculation; planning and interpretation of experiments. One lecture and two laboratory periods a week. Prerequisite: Botany 263. Laboratory fee $5.00. Second semester; 3 credits. (Alternate years; not offered 1946–47.) Mr. Rogers.

268 **PLANT MICROTECHNIQUE.** Principles and methods of preparing plant materials for histological and cytological study: fixing, embedding, sectioning, staining, and mounting; photomicrography. One lecture and two laboratory periods a week. Prerequisite: Botany 100. Laboratory fee $6.00. Second semester; 3 credits. Mr. Rogers.

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 and 268. Laboratory fee $4.00. (Alternate years; not offered 1946–47.) First semester; 3 credits. Mr. Engard.

273 **ADVANCED PLANT PHYSIOLOGY–BIOPHYSICS.** Intensive work on physical aspects of plant physiology: nature of protoplasm; water relations; mineral absorption and utilization. Prerequisites: Botany 173; Chemistry 149; Physics 102. First semester; 3 credits. (Alternate years; not offered 1946–47.) Mr. Engard.

274 **LABORATORY TECHNIQUE IN BIOPHYSICS.** Parallels Botany 273 and may be taken with it, but is not required. Two laboratory periods a week. Laboratory fee $5.00. First semester; 2 credits. (Alternate years; not offered 1946–47.) Mr. Engard.

275 **ADVANCED PLANT PHYSIOLOGY–BIOCHEMISTRY.** Intensive study of chemical aspects of plant physiology: photosynthesis; nitrogen assimilation; fat metabolism, translocation and storage; enzymes; respiration; hormones. Prerequisites: Botany 173; Chemistry 149; Physics 102. Second semester; 3 credits. (Alternate years; not offered 1946–47.) Mr. Engard.

276 **LABORATORY TECHNIQUE IN BIOCHEMISTRY.** Parallels Botany 275 and may be taken with it, but is not required. Two laboratory periods a week. Laboratory fee $5.00. Second semester; 2 credits. (Alternate years; not offered 1946–47.) Mr. Engard.

279 **MORPHOLOGY OF CRYPTOGAMIC PLANTS.** Comparative morphology and classification of the major groups of algae, bryophytes, and pteridophytes, and their biological relations. Two lectures and one laboratory period a week. Prerequisite: Botany 100. Laboratory fee $3.00. Second semester; 3 credits. (Alternate years; not offered 1946–47.) Mr. Rogers.
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.**

310 **BOTANICAL SEMINAR.** Presentation of reports upon research, or reviews of current botanical literature. Recommended for juniors, seniors, and graduates, and may be taken repeatedly. First semester; 1 credit; repeated second semester. **STAFF.**

351 **PLANT PHYSIOLOGY SEMINAR.** Discussion of topics of particular interest to the group. May be taken repeatedly. Prerequisite: consent of instructor. Second semester; 1 credit. **MR. ENGARD.**

365 **TAXONOMY OF THE DICOTYLEDONS.** A synoptic treatment of the dicotyledons, from the Leguminosae to the Umbelliferae, with reference to their gross morphology, economic value, and distribution. Prerequisite: Botany 102. (Alternate years; not offered 1946–47.) Second semester; 1 credit. **MR. ST. JOHN.**

367 **TAXONOMY OF THE HIGHER DICOTYLEDONS.** A synoptic treatment of the higher dicotyledons from the Ericaceae to the Compositae, 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. LUKE.**

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. **MR. HOEBER.**

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. Three lectures and one laboratory period a week. Prerequisites: C or better in Business 150–151 and Economics 150–151, or consent of instructor. Year course; 4 credits each semester. **MR. GLOVER, MR. LUKE.**

254 **COST ACCOUNTING.** 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 Economics 150–151, or consent of instructor. First semester; 3 credits. (Not offered 1946–47.) **MR. GLOVER.**
255 BUSINESS 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: Business 150–151 and Economics 150–151, or consent of instructor. Second semester; 3 credits. (Not offered 1946–47.) Mr. Glover.

256 INCOME TAX PROBLEMS. 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 and Economics 150–151, or consent of instructor. First semester; 3 credits. Mr. Glover.

257 MERCHANDISE ACCOUNTING AND CONTROL. Principles and methods in accounting for the purchase and sale of commodities at retail and wholesale, with especial emphasis on inventory control, collection and allocation of operating costs on a functional basis, and budgetary control. Prerequisites: Business 150–151 and Economics 150–151, or consent of instructor. Second semester; 3 credits. Mr. Glover.

259 OFFICE ORGANIZATION AND MANAGEMENT. Importance; office activities; personnel; distribution of authority and responsibility; employment; compensation; measuring efficiency; procedure and layout; indexing and filing. Prerequisites: Business 150–151; Economics 150–151. Second semester; 3 credits. Mr. Luke.

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. Second semester; 3 credits.

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. 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: Business 150–151 and Economics 150–151, or consent of instructor. First semester; 3 credits. Mr. Luke.

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: Business 150–151 and Economics 150–151, or consent of instructor. First semester; 3 credits. Mr. Kraemer.

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. Mr. Hoebber.
ANNOUNCEMENT OF COURSES

276 ECONOMICS OF RETAIL MERCHANDISING. Buying habits of retail customers; history of retailing; store organization and management; sales promotion. Prerequisite: Economics 150-151 or consent of instructor. First semester; 3 credits. MR. HOEBER.

280 SALES MANAGEMENT. Types of salesmanship; buying motives; personal sales methods; 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. Second semester; 3 credits. MR. KRAEMER.

282 BUSINESS STATISTICS. A study of statistical techniques and their application to business, including sources of data, tabulation, charting, averages, dispersion, sampling, index numbers, analysis of time series, and correlation. Prerequisite: Economics 150-151 or consent of instructor. First semester; 3 credits. MR. KRAEMER.

287 ECONOMICS OF BUSINESS ORGANIZATION. A study of the individual firm, partnership, and corporation from both the economic and legal points of view: procedure of formation; structure; history and present importance; advantages and disadvantages from the standpoints of the private businessman and the public. Prerequisites: Business 160-161 and Economics 150-151, or consent of the instructor. Second semester; 3 credits. MR. HOEBER.

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

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

CHEMISTRY

100 CHEMISTRY. A general course designed to give a survey of the science of chemistry, both inorganic and organic, with emphasis upon principles, applications, and significance. Three class periods a week with demonstrations. May not be used as prerequisite to any other chemistry course. Year course; 3 credits each semester. MRS. BILGER.

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, MR. SPURR.

149 ORGANIC CHEMISTRY. The chemistry of the 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 a week. Prerequisite: Chemistry 103. Laboratory fee $8.00. First semester; 4 credits. MR. SPURR.
159 SURVEY OF ORGANIC CHEMISTRY. The chemistry of aliphatic and aromatic organic compounds, their structure and classification; emphasis upon fats, carbohydrates, and proteins. Three lectures and one laboratory period a week. Prerequisite: Chemistry 103. Laboratory fee $9.00. First semester; 4 credits; repeated second semester. May not be taken by majors in chemistry or by students expecting to take further organic chemistry. Mr. MANN.

160 CHEMICAL CALCULATIONS. An intensive course in the solution of problems based upon the fundamental laws and definitions of chemistry; computations and errors. Prerequisites: Chemistry 150; credit or concurrent registration in Mathematics 152. Second semester; 4 credits. Mr. SPURR.

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.

220 BIOCHEMISTRY. A study of the chemistry of biological systems, animal and plant; laboratory techniques of handling and analyzing biological materials. Three lectures and one laboratory period a week. Prerequisite: Chemistry 149 or 159. Laboratory fee $6.00. First semester; 4 credits. Mr. DEAN.

230 QUANTITATIVE ANALYSIS. Principles and practice of gravimetric and volumetric analysis, colorimetric and electrometric determinations. Two lectures and two laboratory periods a week. Prerequisites: Chemistry 150; Mathematics 149 or 151. Laboratory fee $8.00 each semester. Year course; 4 credits each semester. Mr. BRASTED.

236 AGRICULTURAL CHEMISTRY. A quantitative analytical course in the chemistry of the products and materials of Hawaiian agriculture, including sugar cane, pineapple, 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 or 159; one semester of Chemistry 230. Laboratory fee $8.00. Second semester; 5 credits. (Not offered 1946–47.) Mr. DEAN.

238 ADVANCED INORGANIC CHEMISTRY. An advanced study of the less familiar elements and compounds; the periodic classification; non-aqueous solvents; coordination compounds. Prerequisite: Chemistry 230. First semester; 2 credits. (Not offered 1946–47.) Mr. BRASTED.

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. Mr. BILGER.
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; Mathematics 152; Physics 102. 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 or 159; 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 or 159; credit or concurrent registration in Chemistry 230. First semester; 3 credits. MR. MANN.

285 ATOMIC STRUCTURE AND NUCLEAR CHEMISTRY. A detailed study of the structure of the atoms of the elements from the quantum mechanical viewpoint; valence and chemical significance; nuclear reactions and atomic energy. Prerequisites: Chemistry 149 and 230; Mathematics 152; Physics 102. Second semester; 3 credits. MR. SPURR.

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

298 UNDERGRADUATE SEMINAR. Papers and discussions on topics of modern chemistry and its trends. One two-hour period a week. Prerequisites: junior or senior standing; Chemistry 149; credit or concurrent registration in Chemistry 230. Year course; 1 credit each semester. MR. BRASTED, MR. SPURR.

299 UNDERGRADUATE READING AND RESEARCH. Library and laboratory study of a specific problem in chemistry. Prerequisites: Chemistry 149 and 230; credit or concurrent registration in Chemistry 255; approval of the Chairman of the Department. Laboratory fee $5.00 per period. Credit by arrangement. MR. BILGER, MRS. 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 period. Credit by arrangement. MRS. BILGER, MR. BILGER, MR. MANN.

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. Second semester; 2 credits. MRS. BILGER.
DENTAL HYGIENE

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, MR. MANN.

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 newspapers and classics; 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.

CLASSICS

100 ELEMENTARY LATIN. Vocabulary and grammar, with reading and writing of simple Latin. Year course; 3 credits each semester. MR. MAGUIRE.

101 INTERMEDIATE LATIN. Review of grammar; reading and composition. Year course; 3 credits each semester. MR. MAGUIRE.

250 GREEK CIVILIZATION. A survey of the major aspects of Greek civilization, with special attention to its influences on western culture. First semester; 3 credits. MR. MAGUIRE.

255 ROMAN CIVILIZATION. A survey of the major aspects of Roman civilization, with special attention to its influences on western culture. Second semester; 3 credits. MR. MAGUIRE.

260–261 CLASSICAL LITERATURE. The major writers of Greece and Rome in English translation. First semester, Greek literature; second semester, Roman literature. Students may enter the second semester. Year course; 3 credits each semester. MR. MAGUIRE.

DENTAL HYGIENE

The following dental hygiene courses may be elected by students in other colleges and curriculums: DH 251, 252, 256, 258, 260, 262, 264.

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 and materials used in teaching dental health, reading in the field of health education, and practice in educational talks for various grade levels. Second semester; 1 credit. 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. First 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. Second 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. Mr. Majoska.

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. Mr. McCormack, Mr. Glynn.
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.

354 DENTAL HYGIENE INTERNSHIP. Supervised intern practice in the public schools. First semester; 14 credits; repeated second semester. MRS. BICKERTON.

ECONOMICS

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

140 INTRODUCTION TO ECONOMICS. A descriptive analysis of basic economic institutions and the principles underlying consumption, production, exchange, and distribution. Not open to majors in Economics and Business. Credit cannot be obtained in both this course and Economics 150–151. First semester; 3 credits; repeated second semester. MR. HOEBER.

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 the changing economic institutions and practices in western Europe. Comparison of European principles and techniques with the American pattern of production and distribution. Problems in the interwar period, the impact of World War II, and postwar readjustments. First semester; 3 credits. MR. KRAEMER.

252 ECONOMIC PROBLEMS OF THE FAR EAST. A study of the historic development of the economic systems of China and Japan and an analysis of their economic problems. Special consideration is given to the economic effects of the war and to a critical evaluation of postwar economic policies. Second semester; 2 credits. MR. SHOEMAKER.

254 THE ECONOMIC SYSTEM OF SOVIET RUSSIA. The economic history and problems of Russia, including a descriptive analysis of the Soviet economy in operation and a critical evaluation of its effectiveness. Attention is also given to economic developments in Siberia and to Russia's economic relations with the Far East. Second semester; 3 credits. MR. SHOEMAKER.
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. (Not offered 1946–47.) MR. HOEBER.

265 **PRINCIPLES AND PROBLEMS OF ECONOMIC CONTROL.** The historic development, principles, and objectives of governmental control in the economic sphere; an evaluation of such controls as related to the war and to postwar economic problems, including a critical comparison of controlled and competitive economic systems. Second semester; 3 credits. (Not offered 1946–47.) MR. SHOEMAKER.

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

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. MR. CAMERON.

281 **LABOR PROBLEMS AND LEGISLATION.** Labor problems; labor organizations; legal background of the labor movement; social and legal phases of the problems; the government in industrial conflicts; employers' approach to the problems. Second semester; 3 credits. MR. SHOEMAKER.

285 **FOREIGN TRADE.** The nature and principles of international economic relations; theory of commodity trade; commercial policies and trade agreements; international finance; practical aspects of exporting and importing; problems of postwar trade adjustments. Second semester; 3 credits. MR. KRAEMER.

291 **AGRICULTURAL ECONOMICS.** A survey of the most important problems of agriculture, including resources, tenure, size of enterprise, farm credit, marketing, farm labor, prices, taxation, and farm incomes. First semester; 3 credits. MR. KRAEMER.

292 **URBAN LAND ECONOMICS.** Economic principles underlying the development of urban areas. Particular attention to types and intensity of land use, home ownership and tenancy, financing, rents and land values, land classification, land exchange, location and structure of cities, zoning, city and regional planning. Second semester; 3 credits. MR. KRAEMER.
299 DIRECTED READING. Prerequisite: consent of instructor. Credit by arrangement. STAFF.

300 DIRECTED READING AND RESEARCH. Prerequisite: graduate standing or consent of instructor. Year course; 3 credits each semester. STAFF.

310 SEMINAR IN LABOR PROBLEMS. Prerequisite: graduate standing or consent of instructor. First semester; 3 credits. (Not offered 1946–47.) MR. SHOEMAKER.

315 SEMINAR IN FAR EASTERN ECONOMIC PROBLEMS. Prerequisite: graduate standing or consent of instructor. Second semester; 3 credits. MR. SHOEMAKER.

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, MISS GARDNER.

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.

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 PETERSON.

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.
ANNOUNCEMENT OF COURSES

242 HAWAIIAN NATURAL HISTORY FOR TEACHERS. Survey of the local physical and biological environment, with special reference to the needs of teachers in the schools of Hawaii. Students may enter the second semester. Year course; 2 credits each semester. MR. TINKER.

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. MR. MADDEN.

246 MATHEMATICS IN THE SECONDARY SCHOOL CURRICULUM. Purposes and procedures. The development of basic mathematical concepts. Second 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. MISS COLESWORTHY.

250–251 SECONDARY EDUCATION. Basic course dealing with major problems of secondary education. Year course; 3 credits each semester. MR. CLOPTON.

252 TEACHING PHYSICAL EDUCATION ACTIVITIES. Methods and materials in the conduct of the physical activity program. Techniques in leadership, including the selection of activities and program evaluation. First semester; 2 credits. MR. BROWN.

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 PHILLIPS.

254 PRACTICE TEACHING. Teaching duty supervised by staff members of the Teachers College Preschool and Elementary and Intermediate Schools. First semester; 10 credits; repeated second semester. MISS SMITH, MISS TRAUT, MR. EVERLY, STAFF.

255 SEMINAR FOR PRACTICE TEACHERS. Study of problems arising from immediate experience as classroom teachers. First semester; 3 credits; repeated second semester. MISS PORTER, MISS SMITH, STAPP.

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 PHILLIPS.

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. MR. LOTTICH.
EDUCATION

258 CURRICULUM MATERIALS AND VISUAL—AUDITORY AIDS. Study and organization of materials and aids for use in teaching. First semester; 3 credits; repeated second semester. MISS SMITH, MISS TRAUT, 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. CHUN.

270 AGRICULTURAL PROJECT WORK. The project as an educational device in agriculture; home projects; classroom correlation; plans, records, reports, and accounts. Second semester; 3 credits. MR. ARMSTRONG.

271 PRINCIPLES OF VOCATIONAL EDUCATION. Development of vocational education, with special reference to agriculture; organizations adapted to this type of work; organization for Hawaii. Second semester; 3 credits. MR. ARMSTRONG.

276 VOCATIONAL GUIDANCE. Intended for those who have, or may have, guidance responsibilities in the 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, MISS GARDNER.

285–286 ELEMENTARY EDUCATION. Basic course dealing with major problems in the education of children of ages seven to twelve. Year course; 3 credits each semester. MISS PORTER.

290–291 TEACHING OF SLOW LEARNERS. A study of the social, psychological, and procedural problems involved in the teaching of slow learners. Year course; 2 credits each semester. Students may enter the second semester. MISS CHAPLIN, STAFF.

298 EDUCATION OF CHILDREN IN THE FAMILY. Preparation for the directing of parent education in connection with preschool and elementary teaching. First semester; 2 credits; repeated second semester. MISS SMITH.


300 DIRECTED READING OR RESEARCH. Individual reading or research in (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. MISS CHAPLIN.

345 SEMINAR IN PHILOSOPHY OF EDUCATION. Social and psychological theory involved in controversial educational issues. Prerequisites: Education 340 or equivalent and consent of instructor. May be repeated for credit by permission of instructor. First semester; 2 credits; repeated second semester. (Not offered 1946–47.)

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. ARMSTRONG, MISS PORTER, MISS SMITH, 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. Second semester; 2 credits. 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 INTERN TEACHERS. Problems arising from the classroom experiences of intern teachers. Restricted to fifth-year students. First semester; 2 credits; repeated second semester. MISS PORTER, MISS CHAPLIN, 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. MISS CHAPLIN, STAFF.
ENGINEERING

CE 101  PLANE SURVEYING. Use of chain, tape, level, and transit; map plating and computations; Hawaiian land descriptions. One lecture and two field or drafting periods a week. 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, MR. OKUBO.

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. OKUBO.

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.

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. OKUBO.

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. OKUBO.

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. HOLMES.

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.

MD 103 MECHANICAL DRAWING. Intended for students in architecture, but engineering students may elect this course in place of MD 101. Elements of drafting, sketching, lettering, conventions and standards, followed in second semester by architectural drawing and elements of architecture with their application in simple composition. Three three-hour laboratory periods a week. Cost of instruments and materials about $40. Year course; 3 credits each semester.

MD 152 DESCRIPTIVE GEOMETRY. Geometry of engineering drawing; intersections and development of surfaces. Prerequisite: Mechanical Drawing 101 or 103. First semester; 2 credits.

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

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

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. MR. HOLMES.

AE 101 HISTORY OF ARCHITECTURE. A general survey of the architecture of all periods; reference reading, illustrated lectures, recitations, and discussions. Year course; 3 credits each semester.
AE 105 BUILDING MATERIALS. A course for students in architecture. The various materials used in building construction: iron, steel, other metals, lime, cement, plaster, concrete, and wood; their methods of manufacture; standard tests for quality. Second semester; 3 credits. MR. HOLMES.

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.

120–121 NEWS WRITING. An introductory course in journalism, with emphasis on reporting and with practice in news writing; work on Ka Leo and student publications. Year course; 3 credits each semester. MR. DAVENPORT.

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 to provide a foundation for correction of the student's own speech and for use in his later work in teaching methods; the development of English rhythm and correct speech patterns. Required of Teachers College Freshmen. Year course; 1 credit each semester. MRS. CARR.

127 FUNDAMENTALS OF EFFECTIVE SPEECH. A course designed to continue development in English rhythm and speech sounds, to promote growth in vocabulary, and to provide practice in the use of English idiom and grammatical constructions. Required of Teachers College Sophomores. Year course; 1 credit each semester. MRS. KRANTZ.

128 EFFECTIVE SPEAKING. Intensive training in speech fluency, tone, rhythm, articulation, and enunciation; oral interpretation of poetry and prose; practice in the delivery of simple speeches. 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. First semester; 3 credits; repeated second semester. MR. ALY.

143 INTERPRETIVE 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. (Not offered 1946–47.)
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, survey of field, 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 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 study of the sentence unit; emphasis on the scientific or descriptive view of grammar, the relation between forms and ideas, and special problems in grammatical usage. First semester; 2 credits; repeated second semester. **Mr. Coale.**

210 **TECHNICAL WRITING.** Principles of technical exposition, with composition and analyses of reports, papers, and selected types of business and professional writing; supplemented by readings and discussions of selections from general literature. Year course; 3 credits each semester. (Not offered 1946–47.) **Mr. Leib.**

216 **PLAYWRITING.** Study of one-act plays and practice in writing in the dramatic form with a possibility of University Theater Guild production. Prerequisite: consent of instructor. First semester; 3 credits. **Mr. Wilson.**

217 **FICTION WRITING.** Principles of narrative craftsmanship put into practice in the student's original stories, through study of fiction technique, characterization, plot, style, mood, and emotional effect. Study of successful examples of the modern short story and novel in English. Prerequisite: consent of instructor. Second semester; 3 credits. **Mr. Wilson.**

222 **ELEMENTS OF PUBLISHING.** Theory and practice of publishing; mechanical aspects of printing processes, type faces, typographical display, type calculations, illustration processes. First semester; 3 credits. **Mr. Davenport.**

223 **NEWS EDITING.** Copyreading, headline writing, news and advertising display, use of illustrations, responsibilities of the editor. Second semester; 3 credits. **Mr. Davenport.**

227 **TYPES OF ORAL EXPRESSION.** A course designed to develop fluency and expressiveness in various speech situations—particularly planned for the needs of teachers; continued emphasis upon speech elements developed in preceding courses. Required of Teachers College Juniors. Year course; 1 credit each semester. **Mr. Aly, Miss Bentley.**
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. Second semester; 3 credits. Mr. Aly.

232 ARGUMENTATION AND DEBATE. Practice in debate on public questions; study and application of the principles of argument; conferences. Prerequisite: consent of instructor. First semester; 3 credits. Mr. Aly.

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.

244–245 DRAMATIC INTERPRETATION. Analysis and interpretive reading of dramatic prose and poetry; related principles of stage production; reports, individual exercises, and group rehearsal. Coordinated with the productions of the University Theater Guild. Materials fee $1.00 per semester. Year course; 3 credits each semester. Mr. Trapido.

246–247 DRAMATIC PRODUCTION. A basic course for those interested in any aspect of backstage work or stage direction. Staging, lighting, properties, some attention to costumes, make-up, business, and publicity. Coordinated with the productions of the University Theater Guild. Materials fee $1.00 per semester. Year course; 3 credits each semester. Mr. Trapido.

252 LANGUAGE ARTS IN THE PRESCHOOL–PRIMARY CURRICULUM. Designed to help prospective teachers understand the normal language development of preschool–primary children, and to explore ways of providing for this development. Open only to students in Teachers College. Year course; 2 credits each semester.

253 LANGUAGE ARTS IN THE ELEMENTARY SCHOOL. Fundamentals in the teaching of reading and expression; special attention given to planning, materials, and present problems. 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.
ANNOUNCEMENT OF COURSES

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. WHICHER.

270 CHAUCER. A study of the life, times, and major works of Chaucer, with emphasis on "The Canterbury Tales." Second semester; 3 credits. (Alternate years; not offered 1946-47.)

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 1946-47.)

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. (Alternate years; not offered 1946-47.) MR. DAY.

275 NONDRAMATIC 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. MR. KORN.

276–277 SHAKESPEARE. First semester: Shakespeare's histories and comedies; second semester: Shakespeare's tragedies. Year course; 3 credits each semester.

280 RESTORATION AND EIGHTEENTH-CENTURY LITERATURE. A study of the ideas of the principal English writers of the period 1660–1780. Second semester; 3 credits. MR. KORN.

282 POETRY AND PROSE OF THE ROMANTIC MOVEMENT IN ENGLAND. An intensive study of the principal writers of the period 1780–1832. Second semester; 3 credits. MR. DAY.

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. (Alternate years; not offered 1946-47.)


287 DRAMATIC LITERATURE. First semester: European drama to Ibsen; second semester: contemporary European and American drama. Year course; 3 credits each semester. (Alternate years; not offered 1946–47.) 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. 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 and permission of the Chairman of the Department. Year course; credit by arrangement. MR. DAY, MR. WILSON.

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  NINETEENTH CENTURY FRENCH LITERATURE. Novel, biography, drama; composition and diction. Prerequisite: two years of college French or equivalent. Year course; 3 credits each semester. MR. ELLIOTT.

299  DIRECTED READING. Reading of the latest French publications. Prerequisite: consent of instructor. Year course; credit by arrangement. (Not offered 1946-47.) MR. PECKER.

GEOGRAPHY

150  ELEMENTS OF GEOGRAPHY. Physical elements making up the natural environment of man, illustrated through the regional geography of the Americas. First semester; 3 credits.

151  ECONOMIC GEOGRAPHY. The principles of regional economic geography applied especially to those areas outside the Americas. Second semester; 3 credits.

252  GEOGRAPHY OF NORTH AMERICA. A regional study of the geography of America north of the Rio Grande. Special emphasis upon problems of the various regions. First semester; 3 credits.

255  GEOGRAPHY OF ASIA. The regional geography of Asia, with special emphasis upon the Far East. Second semester; 3 credits.

261  OCCUPATIONAL GEOGRAPHY. The occupational life of the people of the world from the standpoint of the great climatic regions; consideration of available sources of geographic materials for the teacher. First semester; 3 credits; repeated second semester.

ANNOUNCEMENT OF COURSES

GEOLOGY

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. (Not offered 1946-47.) 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. First semester; 1 credit. MR. PALMER.

160 PHYSIOGRAPHIC REGIONS OF THE UNITED STATES. Two lectures and one laboratory period a week. Prerequisite: Geology 150 or Geography 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. First 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. HORMANN, MISS MUELLER.

101 INTERMEDIATE GERMAN. Continuation of grammar; vocabulary building; reading and practice of sight reading; free composition. Year course; 3 credits each semester. MISS MUELLER.

102 SCIENTIFIC GERMAN. Sentence construction and analysis; translation from difficult German scientific readings. Year course; 3 credits each semester. MRS. HORMANN, MISS MUELLER.

200 CLASSICAL GERMAN LITERATURE. Reading supplemented by exercises in composition. Year course; 3 credits each semester. MISS MUELLER.

201 CONTEMPORARY LITERATURE. Reading supplemented by exercises in composition. Year course; 3 credits each semester. (Not offered 1946-47.) MRS. HORMANN, 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. HORMANN, MISS MUELLER.

299 DIRECTED READING. Prerequisite: German 200 or 201. Year course; 1 or 2 credits each semester. MRS. HORMANN, MISS MUELLER.

[ 50 ]
GOVERNMENT

150 AMERICAN GOVERNMENT. The organization and function of the national government; American citizenship; protection of civil rights; the party system; contemporary political issues. First semester; repeated second semester. MR. BACHMAN, MR. SAUNDERS, MR. SPELLACY.

240 DEMOCRACY AND TOTALITARIANISM. Survey of the ideological and institutional development of the present rivals for man's political allegiance. Democracy in America and England; socialism, fascism, communism. First semester; 3 credits. MR. SAUNDERS.

241 CONTEMPORARY POLITICS. The world picture as illustrated by current national and international events. First semester; 2 credits; repeated second semester. MR. SAUNDERS.

248 THE CONSTITUTION OF THE AMERICAN STATES. The problems involved and the methods employed in the preparation and adoption of a state constitution and of the structure and powers of the government of a state, with special reference to the situation of the Hawaiian Islands. Second semester; 3 credits. MR. SPELLACY.

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. SPELLACY.

256 AMERICAN POLITICAL PARTIES. The organization, methods, and principles of American political parties. Second semester; 3 credits. (Not offered 1946–47.)

260 INTERNATIONAL RELATIONS. A study of the factors which condition the foreign policy of states: nationalism, imperialism, and power politics. Outstanding problems of world politics. First semester; 2 credits. MR. BACHMAN.

261 INTERNATIONAL ORGANIZATION. A study of the problems involved in the development of international government with special emphasis on the United Nations Organization. Second semester; 2 credits. MR. BACHMAN.

262 GOVERNMENT AND POLITICS OF THE FAR EAST. An analysis of the governmental structure of Japan, China, Korea, and the colonial areas; a survey of the political problems facing the nations of the Far East in the postwar period. Second semester; 3 credits. MR. LEEBRICK.

263 INTERNATIONAL RELATIONS OF THE FAR EAST. The position of eastern Asia in the postwar world and the problems of adjustment that face Japan, China, and other peoples of this region. First semester; 3 credits. MR. LEEBRICK.

266 EUROPEAN GOVERNMENTS. Comparison with the United States of the political systems of Great Britain, France, and Switzerland; some attention given to the governments of other countries in Europe. First semester; 3 credits. MR. SAUNDERS.

268 GOVERNMENT AND POLITICS OF THE SOVIET UNION. Survey of contemporary Russia; its system of government and the philosophy behind its actions; contemporary politics, both domestic and foreign. Second semester; 3 credits. MR. SAUNDERS.
270 **Government of Hawaii.** Territorial, county, and municipal government, with consideration of the question of statehood for Hawaii. Second semester; 3 credits. Mr. Spellacy.

271 **U.S. Territories and Dependencies.** Constitutional and legal status; relations with the national government; government in incorporated and unincorporated territories. First semester; 3 credits. Mr. Spellacy.

282 **Introduction to Public Administration.** Relationship of administration to policy-forming agencies; organization of administrative staffs; centralization of responsibility. First semester; 3 credits. Mr. Spellacy.

283 **Personnel Administration.** The organization and powers of civil service; the recruitment, classification, and privileges of civil servants. Second semester; 3 credits. Mr. Spellacy.

284 **Administrative Law.** The law relating to public officers, their status, rights, and obligations; the law governing relations between the government and the public; e.g., rights to notice and hearing, procedure before government commissions, due process. Second semester; 3 credits. (Not offered 1946-47.)

285 **Administrative Management.** Fiscal uses of the budget in the direction and supervision of government agencies. Second semester; 3 credits. (Not offered 1946-47.)

300 **Directed Reading and Research.** Individual problems in comparative government or political theory. Year course; credit by arrangement. Mr. Saunders.

310 **Seminar in Public Administration.** Prerequisite: consent of instructor. Year course; 2 credits each semester. Mr. Lentz, Mr. Spellacy.

**Hawaiian**

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

101 **Intermediate Hawaiian.** Review of Hawaiian grammar. Year course; 3 credits each semester. Mr. Kahale.

**Health and Physical Education**

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 Chairman 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.

Students majoring in Physical Education and Recreation will substitute 132 for 105. 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.

100 INDIVIDUAL AND TEAM SPORTS (MEN). Basketball, swimming, tennis, and volleyball. Two class periods a week. Year course; 1 credit each semester. Mr. Chan Wa, Mr. Sakamoto, Mr. Kaulukukul.

102 INDIVIDUAL AND TEAM SPORTS (WOMEN). Basketball, swimming, tennis, and volleyball. Two class periods a week. Year course; 1 credit each semester. Miss Gay, Miss Bucklin, Miss Gibson, Mr. Sakamoto.

104 RESTRICTED ACTIVITIES. For students who are physically handicapped and unable to take the regular courses. Admittance upon recommendation of University physician. Two class periods a week. First semester; 1 credit; repeated second semester. Miss Bucklin, Miss Peacock, Staff.

105 PERSONAL HYGIENE. (Sections for men and for women.) Scientific health information as a basis for hygienic living is emphasized. Personal health problems are discussed. One lecture and one personal conference a week. First semester; 1 credit; repeated second semester. Miss Bucklin, Staff.

111 ADVANCED SWIMMING. For students who have met the basic requirements in swimming and who desire to develop additional skills in swimming and diving. First semester; 1 credit. Mr. Sakamoto.

120 MUSIC IN PHYSICAL EDUCATION AND RECREATION. A basic course designed to acquaint teachers and activity leaders with the use of music in the activity program. A brief survey of the various rhythmic patterns and their application. Second semester; 3 credits. Miss Gay.

132 PERSONAL HEALTH. Basic information on the proper care of the body and the development of desirable health habits and attitudes. Intended primarily for students specializing in physical education and recreation. First semester; 2 credits. Miss Bucklin, Staff.

135 INDIVIDUAL AND TEAM SPORTS (MEN). Archery, dancing, and golf. Two class periods a week. For Sophomores. First semester; 1 credit; repeated second semester. Mr. Chan Wa, Mr. Kaulukukul.

136 INDIVIDUAL AND TEAM SPORTS (WOMEN). Archery, dancing, and golf. Two class periods a week. For Sophomores. First semester; 1 credit; repeated second semester. Miss Gay, Miss Bucklin, Miss Gibson, Miss Peacock.
ANNOUNCEMENT OF COURSES

143 LEADERSHIP IN COMMUNITY RECREATION. This course is intended to acquaint the student with the various recreation organizations, opportunities, and techniques. Participation in the program work of various organizations in the community. Second semester; 2 credits. MISS GIBSON.

170 INTRODUCTION TO PHYSICAL EDUCATION. Designed for prospective teachers and leaders in physical education and recreation; the objectives, needs, procedures, and outcomes in physical education activities. Second semester; 2 credits. MR. BROWN.

205 MODIFIED SPORTS FOR ELEMENTARY SCHOOLS. Intended primarily for teachers and others responsible for activities on the primary or elementary school levels. Through modification of the rules and adaptation of equipment and areas, a progressive program in sports activities is developed for grades one to six inclusive. First semester; 2 credits. MISS BUCKLIN.

212 LEADERSHIP IN LIFE SAVING. Instruction in life saving and water safety. Leads to the Red Cross certificate in life saving. Prerequisite: ability to swim 200 yards. Second semester; 2 credits.

215 ATHLETIC COACHING—FOOTBALL AND BASKETBALL. The fundamentals: position play, team play, and strategy in football and basketball. Nine weeks to each sport. Three class periods a week. First semester; 2 credits. MR. KAULUKUKUI, MR. CHAN WA.

217 ATHLETIC COACHING—BASEBALL AND TRACK. The fundamentals: team play and strategy in baseball; basic skills, analysis of form and conditioning in track. Nine weeks to each sport. Three class periods a week. Second semester; 2 credits. MR. KAULUKUKUI.

219 COACHING OF SWIMMING. Designed for those interested in the development of swimming teams in schools and other agencies. Content and method will be emphasized. Second semester; 2 credits. MR. SAKAMOTO.

221 PHYSICAL EDUCATION FOR ELEMENTARY SCHOOLS. Activities and methods in programs for children of elementary school age in class and in the after-school period. Three periods a week. Second semester; 2 credits. MISS GAY.

222 PHYSICAL EDUCATION FOR SECONDARY SCHOOLS. Activities and methods in programs for the junior and senior high school levels. Three class periods a week. First semester; 2 credits. MISS GAY.

223 SCHOOL HEALTH PROBLEMS. Health needs of the school child, and principles, methods, and materials applicable to the school health program. First semester; 2 credits; repeated second semester.

225 THE TEACHING OF INDIVIDUAL AND TEAM SPORTS. This course deals with the content and method in teaching such games as soccer, tennis, volleyball, and others which do not receive enough emphasis in our present-day programs. Second semester; 2 credits. MR. CHAN WA.
235 SAFETY PROCEDURES IN PHYSICAL EDUCATION. Prevention and emergency treatment of injuries, with special emphasis upon school, playground, and athletic situations. Practical work in bandaging included. Red Cross certificate may be earned. First semester; 2 credits.

263 RECREATIONAL ACTIVITIES IN SCHOOL AND COMMUNITY. This course is designed to acquaint teachers and others with the place, extent, content, and procedures in this phase of the modern school program. First semester; 2 credits. MISS GIBSON.

265 INTRODUCTION TO MEASUREMENT IN PHYSICAL EDUCATION. The outstanding tests in physical education; their selection and use in the modern program; statistical analysis and application of test data in the evaluation of pupil performance. First semester; 3 credits. MR. BROWN.

280 ANATOMY IN PHYSICAL EDUCATION. The purpose of this course is to develop an understanding of muscle action during activity. Designed primarily for leaders in physical education and recreation, but open to others. Second semester; 3 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. MARDBR, MR. MURPHY.

110 INTRODUCTION TO AMERICAN HISTORY. The religious, cultural, and social backgrounds of the American people. First semester; 3 credits; repeated second semester. MR. HUNTER, MR. MURPHY.

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. MR. SAKAMAKI.

209-210 HISTORY OF ENGLAND. A survey of the political, social, industrial, intellectual, and religious life of the English people. Year course; 3 credits each semester. MR. MURPHY.

211 CONSTITUTIONAL HISTORY OF ENGLAND. A study of Anglo-Saxon institutions, Norman innovations; the legal, administrative, and parliamentary development under the Angevins; the limitation of the royal power; and the rise of the Cabinet system. First semester; 3 credits. MR. HUNTER.

213 HISTORY OF MODERN RUSSIA. A survey of all aspects of Russian history and civilization from Peter the Great to the Bolshevik revolution. First semester; 3 credits. MR. MARDER.
ANNOUNCEMENT OF COURSES

214 HISTORY OF RUSSIA UNDER THE COMMUNISTS. A political, economic, social, and cultural study of Russia since the Bolshevik revolution with emphasis on the participation of the Soviet Union in international affairs. Second semester; 3 credits. MR. MARDER.

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, 1789-1947. Year course; 3 credits each semester. (Second semester not offered 1946-47.) 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. (Not offered 1946-47.) MR. HUNTER.

246 AMERICAN THOUGHT AND CULTURE. An advanced course on American social customs and institutions. First 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. (Not offered 1946-47.) MR. HUNTER.

257 EUROPE IN THE NINETEENTH CENTURY. The major political, social, economic, and intellectual trends in the evolution of Europe from Napoleon to the outbreak of World War I. First semester; 3 credits. MR. MARDER.

258 EUROPE SINCE 1914. A continuation of History 257. World War I, the peace, domestic and international developments since 1919. History 257, though not essential, is desirable preparation. Second semester; 3 credits. MR. MARDER.

276 HISTORY OF THE HAWAIIAN ISLANDS. A general course in some detail, with emphasis on the period of the monarchy. Second semester; 2 credits. MR. KUYKENDALL.

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. (Not offered 1946-47.) 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; (d) European History—Mr. Marder; (e) English History—Mr. Murphy.

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. (Not offered 1946-47.) 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 the instructor. Second semester; 3 credits. Mr. Sakamaki.

318 RUSSIA IN ASIA. A seminar dealing with Soviet policy in Central Asia and the Far East. Prerequisite: consent of the instructor. Second semester; 3 credits. (Not offered 1946-47.) Mr. Marder.

319 EUROPE IN THE FAR EAST. A seminar dealing with the political and economic policies of the Great Powers in the Far East during the past century. Prerequisite: consent of the instructor. First semester; 3 credits. (Not offered 1946-47.) Mr. Marder.

HOME ECONOMICS

The following courses have no prerequisites, except for year level, and are open to students in any college or curriculum: Home Economics 100, 101, 201, 250, 253, 262; Household Art 110, 111, 150, 152; and Household Science 150.

GENERAL COURSES (HE)

HE 100 ORIENTATION IN HOME ECONOMICS. Survey of family, social, and community relationships; child guidance; time and money management. Personal and vocational guidance. Year course; 2 credits each semester. Miss Schulze.

HE 101 HOME NURSING. Principles and practice of simple nursing procedures for home care of the sick and for emergencies. Prevention of disease; care of mother and infant. The homemaker's responsibility for home and community health. One lecture and one laboratory period a week. Second semester; 2 credits. Miss Jones.

HE 201 CONSUMER EDUCATION. Problems of the consumer in purchasing foods, clothing, cosmetics, drugs, furniture, and equipment; retail market structure, credit, installment buying, advertising agencies, testing bureaus, and consumer buying habits. Prerequisite: junior standing. Second semester; 2 credits. Mrs. Gruelle.
ANNOUNCEMENT OF COURSES

HE 250 HOUSEHOLD MANAGEMENT. Contribution of homemaker and family members to better home living; management of time and money; arrangement and care of equipment. First semester, two lectures and one laboratory period a week. Second semester, one lecture 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 PHILLIPS.

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: Home Economics 253; Psychology 150. Second semester; 3 credits. PRESCHOOL STAFF.

HE 253 CHILD CARE. Reproduction, prenatal care, childbirth, infant and preschool care, growth, minor ailments, common diseases, cost of maternal and child care, types and cost of suitable clothing for Hawaii. First semester; 2 credits. MISS HEWELL.

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 MUMM.

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 MUMM.

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 PHILLIPS.

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 SEARLE, MRS. BARTOW.
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.

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 SEARLE.

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.

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.

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: Household Science 150; Chemistry 103. Laboratory fee $5.00 each semester. Year course; 3 credits each semester. MRS. GRIELE.

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. Prenursing students take this course the first semester and Home Economics students the second semester, but a special section is arranged each semester for students in other categories. 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. MISS SCHULZE.

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 105 and 149; credit or concurrent registration in Chemistry 220. Laboratory fee $5.00 each semester. Year course; 3 credits each semester. MISS SCHULZE.

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. (Not offered 1946-47.)
ANNOUNCEMENT OF COURSES

HS 260 QUANTITY COOKERY. Food problems of institutions; preparation and serving of food in large quantities, menu planning, and food costs. One lecture and two two-and-one-half-hour laboratory periods a week. Prerequisite: Household Science 102. First semester; 3 credits. MRS. BOATMAN, MISS JOHNSON.

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. First 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. MRS. BOATMAN.

HS 270 NUTRITION FOR NURSES. 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. MISS SCHULZE.

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. MISS SCHULZE.

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 FEEDING OF CHILDREN. Theory and practice of child feeding. Planning meals for children; problems involved in planning, selecting, preparing, and serving the noon lunch. Prerequisite: Household Science 272 or equivalent. Second semester; 3 credits. MISS SCHULZE, MRS. BARTOW.
MATHEMATICS

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 SCHULZE, 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 SCHULZE, MISS HARTZLER.

JAPANESE

100 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, MR. WATANABE.

101 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, MR. WATANABE.

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.

KOREAN

100 ELEMENTARY KOREAN. Conversation, elements of grammar, reading. Year course; 3 credits each semester. MR. PARK.

MATHEMATICS

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

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. TOWNES.

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. TOWNES.
ANNOUNCEMENT OF COURSES

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

153 DIFFERENTIAL CALCULUS. Includes infinite series. Prerequisite: Mathematics 152. First semester; 3 credits; repeated second semester. MR. GREGORY, MR. BRAMHALL.

154 INTEGRAL CALCULUS. Includes space geometry. Prerequisite: Mathematics 153. First semester; 3 credits; repeated second semester. MR. WATANABE.

155 CALCULUS APPLICATIONS. Includes partial differentiation, multiple integrals, differential equations. Prerequisite: Mathematics 154. Second semester; 3 credits. MR. WATANABE.

156 SPHERICAL TRIGONOMETRY. Prerequisite: Mathematics 150 or equivalent. Second semester; 2 credits. MR. WEBSTER, MR. WATANABE.

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 1946-47.) MR. GREGORY.

254-255 APPLICATIONS OF HIGHER MATHEMATICS. Differential equations, power and Fourier series, special integrals, vectors and tensors, complex variables, Laplace transforms, calculus of variation, matrix algebra. Prerequisite: Mathematics 155 or equivalent. Year course; 3 credits each semester. MR. WATANABE.

280 STATISTICAL METHODS. The notion of a variate and a statistic, statistical averages and measures of dispersion, the normal probability curve and measures of variation therefrom, Bernoulli distribution, observational equations. Prerequisite: Mathematics 151 or equivalent. First semester; 3 credits. MR. GREGORY.

281 ADVANCED STATISTICAL METHODS. Correlation, introduction to theory of sampling and analysis of variance. Probability distribution of various statistics. Prerequisite: Mathematics 280 or equivalent. Second semester; 3 credits. MR. GREGORY.

286-287 MATHEMATICS OF THEORETICAL PHYSICS. Phenomenological foundations and mathematical formulation of the theories of quantum mechanics and relativity. Prerequisites: advanced calculus, differential equations, and familiarity with the experimental aspects of modern physics. Year course; 3 credits each semester. MR. GREGORY, MR. WATANABE.

289 ASTRONOMY. Descriptive astronomy. Prerequisite: completion of a basic course in science. Second semester; 3 credits. MR. BRAMHALL, MR. WATANABE.

299 DIRECTED READING. Prerequisite: consent of instructor. Credit by arrangement. MR. GREGORY, MR. WATANABE.

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MEDICAL TECHNOLOGY

266 MEDICAL TECHNOLOGY. A practical course designed to present the technique of accepted laboratory procedures in accordance with hospital and public health standards. Two lectures and two laboratory periods a week. Prerequisites: Bacteriology 262 and 264. Laboratory fee $5.00. Second semester; 4 credits.

MILITARY SCIENCE AND TACTICS

MS 100 and 101 must be taken by every physically fit male student who is a citizen, who is at least 14 years old, whose 27th birthday has not passed at the time of enrollment in the University, who is a Freshman or Sophomore or an unclassified student carrying more than 9 credit hours of work and having fewer than 64 college credits. The basic courses, or their equivalent, are required for advanced training. Completion of the four-year program leads to a commission in the Officers' Reserve Corps.

MS 100 R.O.T.C. BASIC COURSE. Military fundamentals, leadership, rifle marksmanship, map reading, hygiene, and first aid. Three hours a week of theoretical and practical work. Uniform rehabilitation fee 50 cents (not refundable). Year course; 1 credit each semester. COLONEL HONNEN, STAFF.

MS 101 R.O.T.C. BASIC COURSE. Leadership, automatic weapons, characteristics of infantry weapons; extended order drill; combat principles. Three hours a week. Prerequisite: MS 100. Uniform rehabilitation fee 50 cents (not refundable). Year course; 2 credits each semester. COLONEL HONNEN, STAFF.

MS 200 R.O.T.C. ADVANCED COURSE. Leadership, technique of infantry weapons, aerial photography, motor vehicles, estimate of situations, administration, and combat principles. Five hours a week. Open only to selected students. Prerequisite: Military Science 101. Year course; 3 credits each semester. COLONEL HONNEN, STAFF.

MS 201 R.O.T.C. ADVANCED COURSE. Leadership, military history and policy, defense against tanks and aircraft, military law, signal communications, combat training, and administration. Five hours a week. Open only to selected students. Prerequisite: Military Science 200. Year course; 3 credits each semester. COLONEL HONNEN, STAFF.

MS 250 R.O.T.C. SUMMER CAMP. Field training, weapons firing, camp sanitation, physical training, and field problems. The summer following completion of Military Science 200; 2 credits.

MUSIC

152 ELEMENTS OF MUSICIANSHIP. 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. MR. RIAN.
ANNOUNCEMENT OF COURSES

251–252 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. Year course; 2 credits each semester. 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. MR. RIAN.

263 MUSIC HISTORY AND APPRECIATION. Twentieth-century trends in the development of music. Their relation to social change. Not open to lower division students except by consent of instructor. Second semester; 2 credits. MR. RIAN.

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

250 WARD MANAGEMENT. The study of hospital organization; the head nurse's and ward supervisor's relation to the various departments. The organization of the ward and management and supervision of ward personnel. First semester; 3 credits. MISS McFERREN.

251 WARD TEACHING. The discussion of the place of the ward supervisor and head nurse in carrying out the objectives of the general educational program of the school of nursing. Study of the opportunities, methods, and relationships involved in teaching students on the ward to plan for individualized nursing care. Second semester; 3 credits. MISS McFERREN.

252 PROFESSIONAL ADJUSTMENTS. A discussion of common problems in professional relationships facing the student in the school of nursing, and the graduate nurse engaged in the field of education and administration. Second semester; 3 credits. (Alternate years; not offered 1946–47.)

253 COMPARATIVE NURSING PROCEDURE. Evaluation of basic nursing procedures with emphasis upon underlying scientific principles. Second semester; 3 credits. (Alternate years; not offered 1946–47.)

256 MODERN TRENDS IN NURSING. A study of the historical development of nursing and nursing education as a basis for understanding its present status, and the factors which influence its progress. First semester; 3 credits. (Alternate years; not offered 1946–47.)

261 METHODS OF TEACHING IN SCHOOLS OF NURSING. The application of principles of learning and methods of teaching to situations in schools of nursing, with special emphasis on current problems. Second semester; 3 credits. MISS McFERREN.
262 STUDENT GUIDANCE IN SCHOOLS OF NURSING. Principles of guidance for nursing students, with emphasis on vocational guidance in the field of nursing. First semester; 2 credits. (Alternate years; not offered 1946–47.)

265 PRINCIPLES OF TEACHING IN SCHOOLS OF NURSING. A study of the fundamental processes in learning and teaching in the nursing field, with application to newer methods and techniques. First semester; 3 credits. MISS MCFERRREN.

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. MISS HEBWELL.

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 IN 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. ALLISON.

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 social work 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. MISS KLEINSCHMIDT.

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.

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.

210 CONTEMPORARY PHILOSOPHY. A study of recent developments in European and American philosophy. Prerequisites: Philosophy 150 and 151, or permission of the instructor. Second semester; 3 credits. MR. VEITMAN.

252 TYPES OF PHILOSOPHY. Study of such basic philosophies as Materialism, Dualism, Idealism, Mysticism, Pragmatism, Skepticism, etc. First semester; 3 credits. MR. VEITMAN.

253 PROBLEMS OF PHILOSOPHY. Persistent specific problems of philosophy, primarily those concerning nature, man, God, etc. Second semester; 3 credits. MR. VEITMAN.

265 PHILOSOPHY, EAST AND WEST. An introductory survey of the basic systems and methods of Eastern and Western philosophy, with special attention to similarities and contrasts. First semester; 3 credits. (Not offered 1946-47.) MR. MOORE.

270-271 ORIENTAL PHILOSOPHIES. Fundamental philosophical movements of India, China, Japan, Persia, and Arabia. Frequent comparisons with Western philosophy. Year course; 3 credits each semester. 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. (Not offered 1946-47.)

280 ELEMENTARY LOGIC. Valid forms of reasoning; common fallacies; methods, validity, and difficulties of scientific reasoning. First semester; 3 credits. MR. VEITMAN.

283-284 BUDDHIST PHILOSOPHY. Buddhist philosophy in India, China, Korea, and Japan, and its influence on Far Eastern culture and thought. Year course; 2 credits each semester. MR. RAHDER.

286-287 THE PHILOSOPHY OF SCIENCE. A comprehensive study of the basic assumptions, methods, and conclusions of science in its relation to philosophy. Prerequisites: Philosophy 150 and 151, or permission of instructor. Year course; 3 credits each semester. MR. VEITMAN.

288 MODERN LOGIC AND SCIENTIFIC METHOD. Prerequisite: Philosophy 280. Second semester; 3 credits. MR. VEITMAN.
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. STAFF.

300  READING AND RESEARCH. Credit by arrangement. STAFF.

PHYSICS

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

104  ENGINEERING PHYSICS. Three lectures, one laboratory period, and one problem working period a week. Prerequisite: Mathematics 153. Laboratory fee $4.00 each semester. Year course; 5 credits each semester. MR. ELLER.

153  ELEMENTARY PRINCIPLES OF RADIO. Fundamentals of radio theory and design, and construction of radio receiving and amplifying equipment. Two lectures and one laboratory period a week. Prerequisites: high school physics and algebra. Laboratory fee $4.00. First semester; 3 credits. MR. MIYAKE.

157  RADIO. More advanced radio theory and practice. Theory and design of the more complex radio equipment. Two lectures and one laboratory period a week. Prerequisite: Physics 153. Laboratory fee $4.00. Second semester; 3 credits. MR. MIYAKE.

202  ELECTRICAL ENGINEERING. Study of electric power circuits and machinery, and the application of thermionic devices in power equipment. Two lectures and one laboratory period a week. Prerequisite: Physics 275. Laboratory fee $4.00 each semester. Year course; 3 credits each semester. MR. ELLER.

255*  LIGHT. Principles of geometric and physical optics. Prerequisite: Physics 102. First semester; 3 credits.

256*  OPTICS LABORATORY. Experiments in geometric and physical optics. One laboratory period a week. Prerequisite: credit or concurrent registration in Physics 255. Laboratory fee $4.00. First semester; 1 credit.

258*  ELECTRONICS. The theory and applications of electronic phenomena and electronic devices. Prerequisites: Physics 102; Mathematics 154. First semester; 3 credits.

259  SEISMOLOGY. A study of sources and causes of earthquakes, transmission of seismic waves through the earth, and instruments used for their recording. Prerequisites: Physics 102; Mathematics 154. First semester; 3 credits. MR. ELLER.

260  GEOPHYSICS AND GEOPHYSICAL MEASUREMENTS. Geophysical theory and the theory and application of electric, magnetic, and seismic methods in geophysical measurements. Prerequisite: Physics 259. Second semester; 3 credits. MR. MIYAKE.

* These courses will be available to advanced students on the basis of individual conferences and directed reading. Students interested should consult department chairman.
ANNOUNCEMENT OF COURSES

262 SOUND. Theory of sound and its applications. Prerequisites: Physics 102; Mathematics 154. Second semester; 3 credits. MR. MIYAKE.

275 ELECTRICITY AND MAGNETISM. Theory of electric and magnetic phenomena. Methods of electric and magnetic measurements. Three lectures and one laboratory period a week. Prerequisites: Physics 102; Mathematics 154. Laboratory fee $4.00. Second semester; 4 credits. MR. ELLER.

280 A SURVEY OF MODERN PHYSICS. The discoveries and advances in physics in the twentieth century, with some historical review of the discoveries of the nineteenth century. Prerequisite: Physics 102. Mathematics 154 desirable. First semester; 3 credits. MR. BRAMHALL.

281 ATOMIC AND NUCLEAR PHYSICS. A study of the structure of the atom and its nucleus and the energy relationships involved. Prerequisites: Physics 102; Chemistry 103. Second semester; 3 credits. MR. BRAMHALL.

299 READING OR LABORATORY WORK IN ADVANCED PHYSICS. Prerequisite: consent of instructor. Credits by arrangement. STAFF.

300 DIRECTED READING OR RESEARCH. Prerequisite: Graduate standing in physics and consent of instructor. STAFF.

355* SPECTROSCOPY. Spectroscopic instruments; theory and practice of spectroscopic analysis. Two lectures and one laboratory period a week. Prerequisite: consent of instructor. Laboratory fee $4.00. Second semester; 3 credits.

PORTUGUESE

100 ELEMENTARY PORTUGUESE. Conversation, essentials of grammar, reading of a Brazilian novel; emphasis upon phonetics, differences between the speech of Portugal and that of Brazil and between Portuguese and Spanish. Year course; 3 credits each semester. MR. ELLIOTT.

101 INTERMEDIATE PORTUGUESE. Conversation, grammar review, commercial correspondence, reading of Portuguese and Brazilian authors; some attention to dialectical peculiarities. Prerequisite: Portuguese 100 or consent of instructor. Year course; 3 credits each semester. (Not offered 1946-47.) MR. ELLIOTT.

PSYCHOLOGY

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

150 GENERAL PSYCHOLOGY. Introductory course surveying human behavior. Three lectures and one laboratory period a week. Prerequisite: sophomore standing. Laboratory fee $1.00. First semester; 4 credits; repeated second semester. MR. LIVESAY, MR. VINACKE.

*These courses will be available to advanced students on the basis of individual conferences and directed reading. Students interested should consult department chairman.
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 problems of personal efficiency and to the fields of art, education, law, medicine, and traffic safety. Second semester; 3 credits. **Mr. Forbes.**

256 **BUSINESS AND INDUSTRIAL PSYCHOLOGY.** Psychological factors involved in advertising and salesmanship, and in the selection and control of personnel. 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. **Mr. Vinacke.**

264 **PSYCHOLOGICAL MEASUREMENTS.** The construction and administration of psychological tests and scales, and the interpretation and application of scores and measures derived from such instruments. Particular attention to personnel problems. First semester; 3 credits. (Not offered 1946–47.)

270 **PHYSIOLOGICAL PSYCHOLOGY.** A study of the physiological processes as related to an understanding of such activities as vision, hearing, learning, emotion, memory, and thinking. First semester; 3 credits. **Mr. Forbes.**

275 **SYSTEMATIC PSYCHOLOGY.** The various systems of psychology: existentialism, functionalism, behaviorism, purposivism, and Gestalt. Second semester; 3 credits.

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.

283 **PSYCHOLOGY OF PERSONALITY.** The development of personality; theories and evidence as to what constitutes personality; critical evaluation of instruments used in measuring personality characteristics. Second semester; 3 credits.

286 **POLITICAL PSYCHOLOGY.** An analysis of the voter, the politician, political strategy, and problems which arise in the conduct of government. First semester; 3 credits. (Not offered 1946–47.)

290 **CLINICAL PSYCHOLOGY.** Methods and scope of clinical psychology, including a review of available tests and other instruments used in measuring intelligence, interests, and aptitudes. First semester; 3 credits. **Miss Peixotto.**

291 **CLINICAL PSYCHOLOGY.** A continuation of Psychology 290 with stress upon the types of problems encountered in clinical practice. Psychology 290 is desirable preparation, but qualified students may enter with consent of the instructor. Second semester; 3 credits. **Miss Peixotto.**

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. Livesay, Mr. Forbes.**
ANNOUNCEMENT OF COURSES

294 PROBLEMS IN CLINICAL PSYCHOLOGY. Clinical case studies: histories; selection of tests; interview methods; interpretation; recommendations and follow-up. Prerequisite: consent of instructor. First semester; 3 credits; repeated second semester. MR. HERRICK.

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

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

300 DIRECTED READING OR RESEARCH. Prerequisite: graduate standing. Credit by arrangement. STAFF.

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. FORBES, 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.

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. 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. 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. (Not offered 1946–47.) MR. ZEIGLER.

209 THE TEACHINGS OF JESUS. A study of the known teachings of Jesus; their philosophical and practical implications. Second semester; 2 credits. (Not offered 1946–47.) 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. (Not offered 1946–47.)
SOCIAL WORK

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. (Not offered 1946–47.)

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. (Not offered 1946–47.)

271 RELIGION AND LITERATURE. Interpretations of religion that have appeared in the literature of the English-speaking world. Second semester; 2 credits. (Not offered 1946–47.)

SANSKRIT

205 ELEMENTARY SANSKRIT. Grammar, vocabulary, and sentence structure. Year course; 2 credits each semester. MR. RAHDER.

SOCIAL WORK

200 THE FIELD OF SOCIAL WORK. A non-professional orientation course intended to acquaint the student with the philosophy, scope, and aims of contemporary social work. Field trips to social agencies and related reading assignments. Prerequisite: junior standing. First semester; 3 credits; repeated second semester. MISS BATES.

305 INTRODUCTION TO SOCIAL CASE WORK. Basic concepts fundamental to all social case work practice, developed largely through class discussion of the students' own material drawn from field work experience. Limited to full-time social work students. First semester; 3 credits. MISS TYLER.

306 SOCIAL CASE WORK CONTINUED. Case situations in relation to the client's needs, and agency function. Students present cases for discussion. Special attention is directed to constructive contacts with lay and professional individuals and groups. To be taken concurrently with Social Work 360–361. Limited to full-time social work students. Second semester; 3 credits. MISS TYLER.

310 DYNAMICS OF HUMAN BEHAVIOR. The composition, development, and function of personality. The ordinary personality maladjustments encountered by social workers will also be covered. Limited to full-time social work students. First semester; 2 credits.

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ANNOUNCEMENT OF COURSES

315 COMMUNITY ORGANIZATION. An analysis of the private and public welfare services as they relate to the needs of the community, and the process involved in developing such programs. Prerequisite: consent of instructor. First semester; 2 credits. MR. LIND.

325 CHILD WELFARE. A brief survey of the field, with particular attention to the development of programs for the care of neglected and dependent children. Prerequisite: consent of instructor. Second semester; 3 credits. MRS. GOETTLING.

330 HEALTH AND DISEASE. Normal anatomy and physiology; growth and development; diseases and disease groups; personal and social implications of illness and treatment; medical ethics and practices. Limited to full-time social work students. Second semester; 2 credits. MISS HEWELL.

350 INTRODUCTION TO PUBLIC WELFARE. The history, functions, and organization of local, state, and federal governments as related to individuals needing special care. Limited to full-time social work students. First semester; 3 credits. MRS. GOETTLING.

351 SOCIAL INSURANCE. A survey of the history and development of social insurance programs; the relationships between social insurance and public assistance. Limited to full-time social work students. First semester; 2 credits. MISS BATES.

355 PUBLIC WELFARE ADMINISTRATION. The growth and development of public welfare services on the federal, state, and local levels. Problems of organization and administration such as responsibility and authority, integration of welfare activities, and centralization of activities. Necessary administrative procedures are studied with reference to personal management, fiscal control, policy formation, direction, and coordination. Second semester; 3 credits. MISS BATES.

360–361 SUPERVISED FIELD WORK. Application of social case work principles and methods in public and private social agencies. To be taken concurrently with Social Work 305 and 306. A minimum of 225 clock hours a semester is spent in a social agency. Limited to full-time social work students. Year course; 4 credits each semester. MISS TYLER.

SOCIOLoGY

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, MR. HORMANN.

170 ELEMENTARY SOCIOLOGY. An introduction to sociology. (Not open to students who have had Sociology 151.) First semester; 2 credits. MR. RADEMAKER.

250 COMMUNITY FORCES. The basic factors and forces operating in contemporary society, with special attention to Hawaii. Open only to Teachers College students, except by consent of instructor. First semester; 3 credits. MR. RADEMAKER.
251 COMMUNITY ORGANIZATION. Processes, techniques, and structures used by the community in attaining common objectives, with special emphasis upon improving the general welfare. First semester; 3 credits. MR. RADEMAKER.

253 RURAL SOCIOLOGY. Organization of life in the rural environment. A comparative study of rural community types, with special reference to Hawaii. Field trips. Prerequisites: Sociology 151; Anthropology 150. Second semester; 3 credits. (Alternate years; not offered 1946–47.)

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. HORMANN.

256 RACE AND CULTURE CONTACTS IN HAWAII. The dominant conceptions of race and race relations in Hawaii and an analysis of the principal factors affecting them. Problems of culture contacts in a commercial and plantation frontier. First semester; 3 credits. MR. LIND.

257 RACE RELATIONS IN THE PACIFIC. A survey of typical situations of race and culture contacts in the Pacific area. Second semester; 3 credits. MR. STEINER.

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. MR. RADEMAKER.


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: Sociology 151; Anthropology 150. First semester; 3 credits. (Alternate years; not offered 1946–47.)

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. First semester; 3 credits. MR. RADEMAKER.

271 HUMAN ECOLOGY. Basic concepts, principles, and techniques of human ecology. Factors affecting distribution and movement of population, utilities, and social institutions. Prerequisites: Sociology 151; Anthropology 150. First semester; 3 credits. (Alternate years; not offered 1946–47.)

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: Sociology 151; Anthropology 150. First semester; 3 credits. (Alternate years; not offered 1946–47.)
ANNOUNCEMENT OF COURSES

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 1946-47.)

275 AMERICAN SOCIETY IN TRANSITION. The major trends in American society, particularly as reflected in the war and postwar periods. Second semester; 3 credits. (Alternate years; not offered 1946-47.)

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.

351 GRADUATE SEMINAR. Open to senior and graduate students with consent of instructor. Second semester; 3 credits. MR. STEINER.

SPANISH

100 ELEMENTARY SPANISH. Conversation, essentials of grammar, Spanish Latin-American readings; emphasis upon the oral aspect of the language. Year course; 3 credits each semester. MR. ELLIOTT, MISS ROTH.

101 MODERN SPANISH LITERATURE. Works of Galdos, Valera, Pereda, I. 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. ELLIOTT, MISS 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 1946-47.) 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 1946-47.) 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. ELLIOTT.

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 enter 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, relationships, 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. HIATT, STAFF.

101 PRINCIPLES OF HUMAN BIOLOGY. Biological principles relating to man; emphasis upon man's place in nature, the structure and function of the organ systems, human diseases, how and what we inherit, human evolution and eugenics, and the biological aspects of human behavior. (Not open to students who have had Zoology 100) Three lectures a week. First semester; 3 credits. MR. HIATT.

102 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 $3.00. Second semester; 4 credits. MR. FISHER.

103 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.

104 PHYSIOLOGY. Functions of the systems of organs of the human body. Three lectures a week. Prerequisite: Zoology 100. Second semester; 3 credits. MR. FISHER.

253 PARASITOLOGY. Parasites affecting man and domesticated animals; emphasis on classification, morphology, life history, and control. Two lecture–laboratory periods a week. Prerequisite: Zoology 100. Laboratory fee $3.00. First semester; 3 credits. MR. ALICATA.

254 INSECT MORPHOLOGY. Comparative and gross morphology of insects with special attention to structures emphasized in economic and systematic entomology, and to the development, reproduction, and homologies of structures in the various groups of insects. Two lecture–laboratory periods a week. Prerequisite: Zoology 170. First semester; 3 credits. (Not offered 1946–47.)

255 SYSTEMATIC ENTOMOLOGY. History, nomenclature, classification, and taxonomic practice. Students may select a particular group and make a private collection. Two lecture–laboratory periods a week. Prerequisite: Zoology 254. Laboratory fee $90. Second semester; 3 credits. (Not offered 1946–47.)
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. 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 lecture-laboratory periods a week. Prerequisite: one of the following—Zoology 151, 170, 280. Laboratory fee $3.00. First semester; 3 credits. MR. MAINLAND.

261 VERTEBRATE EMBRYOLOGY. Principles of embryology illustrated by a detailed study of the development of the frog and chick. Two lecture-laboratory periods a week. Prerequisite: one of the following—Zoology 151, 170, 280. Laboratory fee $3.00. Second semester; 3 credits. MR. MAINLAND.

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. MR. MAINLAND.

263 ADVANCED COMPARATIVE ANATOMY. A comparative study of the morphology of the higher vertebrate groups. One lecture and three laboratory periods a week. Prerequisites: Zoology 151 and 261. Laboratory fee $6.00. First semester; 4 credits. (Not offered 1946-47.)

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 191 or 263. First 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. MAINLAND.

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

280 COMPARATIVE MORPHOLOGY OF INVERTEBRATES. Comparative anatomy, physiology, development, and phylogeny of the invertebrate animals. Two lecture-laboratory periods a week. Prerequisite: Zoology 100. Laboratory fee $3.00. First semester; 3 credits. MR. BANNER.

281 TAXONOMY AND ECOLOGY OF THE INVERTEBRATES. Natural history, behavior, classification, and relation of the invertebrate animals to their environment, with special emphasis on marine communities. Two lecture-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; 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.

310 ZOOLOGY SEMINAR. Presentation of reports upon research, or reviews of zoological literature. Prerequisite: senior or graduate standing in zoology. Year course; 1 credit each semester. STAFF.
### SUMMARY OF ENROLLMENT FOR 1945-46

#### (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>24</td>
<td>32</td>
<td>37</td>
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<tr>
<td>Five-year diplomas</td>
<td>55</td>
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<tr>
<td>Professional teaching certificates</td>
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<td>24</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>
<td>68</td>
<td>60</td>
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<tr>
<td>Juniors</td>
<td>114</td>
<td>145</td>
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<tr>
<td>Sophomores</td>
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<td>178</td>
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<tr>
<td>Freshmen</td>
<td>292</td>
<td>314</td>
<td>387</td>
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<tr>
<td><strong>College of Applied Science</strong></td>
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<td>Seniors</td>
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<td>Juniors</td>
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<td>Sophomores</td>
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<td>Public health nursing certificates</td>
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<td>Juniors</td>
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<tr>
<td>Sophomores</td>
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<td>Freshmen</td>
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<td><strong>Total degree candidates</strong></td>
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<td><strong>Total certificate and diploma candidates</strong></td>
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<td><strong>Total classified day students</strong></td>
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<tr>
<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><strong>Total day students</strong></td>
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<td><strong>Evening Session</strong></td>
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<td>Graduates</td>
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<tr>
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<td><strong>Total day and evening students</strong></td>
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<td><strong>Students registered in both day and evening sessions</strong></td>
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<td><strong>Net Total</strong></td>
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SUMMARY OF ENROLLMENT FOR 1945-46 (Continued)
(B) In University Extension Classes

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<th>Civilian Students</th>
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<td>Non-credit</td>
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<td>Total</td>
<td>3,323</td>
<td>2,571</td>
<td>5,894</td>
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* 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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