<table>
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<tr>
<th>Date</th>
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<tr>
<td>Sept. 15, Monday</td>
<td>Freshman Orientation Period</td>
</tr>
<tr>
<td>Sept. 16, Tuesday</td>
<td>Registration of Sophomores</td>
</tr>
<tr>
<td>Sept. 17, Wednesday</td>
<td>Registration of Freshmen, and graduate and unclassified students</td>
</tr>
<tr>
<td>Sept. 18, Thursday</td>
<td>Registration of Sophomores</td>
</tr>
<tr>
<td>Sept. 19, Friday</td>
<td>Regatta Day (holiday)</td>
</tr>
<tr>
<td>Sept. 20, Saturday</td>
<td>Freshman Orientation Period</td>
</tr>
<tr>
<td>Sept. 22, Monday</td>
<td>Registration of Junior and Seniors</td>
</tr>
<tr>
<td>Sept. 23, Tuesday</td>
<td>Instruction begins</td>
</tr>
<tr>
<td>Nov. 11, Tuesday</td>
<td>Armistice Day (holiday)</td>
</tr>
<tr>
<td>Nov. 27, Thursday to Nov. 29, Saturday</td>
<td>Thanksgiving recess</td>
</tr>
<tr>
<td>Dec. 20, Saturday</td>
<td>Last day of instruction before Christmas recess</td>
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**1948**

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<th>Date</th>
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<tr>
<td>Jan. 5, Monday</td>
<td>Instruction resumes</td>
</tr>
<tr>
<td>Jan. 24, Saturday</td>
<td>Last day of instruction in First Semester</td>
</tr>
<tr>
<td>Jan. 26, Monday</td>
<td>Final examinations begin</td>
</tr>
<tr>
<td>Jan. 30, Friday</td>
<td>Franklin Roosevelt's Birthday (holiday)</td>
</tr>
<tr>
<td>Feb. 3, Tuesday</td>
<td>First Semester ends</td>
</tr>
<tr>
<td>Feb. 9, Monday to Feb. 11, Wednesday</td>
<td>Registration for the Second Semester</td>
</tr>
<tr>
<td>Feb. 12, Thursday</td>
<td>Lincoln's Birthday (holiday)</td>
</tr>
<tr>
<td>Feb. 13, Friday</td>
<td>Instruction begins</td>
</tr>
<tr>
<td>Feb. 23, Monday</td>
<td>Legal holiday following Washington's Birthday</td>
</tr>
<tr>
<td>March 25, Thursday</td>
<td>Charter Day</td>
</tr>
<tr>
<td>Apr. 2, Friday</td>
<td>Easter recess</td>
</tr>
<tr>
<td>Apr. 3, Saturday</td>
<td>Legal holiday following Memorial Day</td>
</tr>
<tr>
<td>May 31, Monday</td>
<td>Legal holiday following Memorial Day</td>
</tr>
<tr>
<td>June 3, Thursday</td>
<td>Last day of instruction in Second Semester</td>
</tr>
<tr>
<td>June 4, Friday</td>
<td>Final examinations begin</td>
</tr>
<tr>
<td>June 11, Friday</td>
<td>Kamehameha Day (holiday)</td>
</tr>
<tr>
<td>June 12, Saturday</td>
<td>Second Semester ends</td>
</tr>
<tr>
<td>June 16, Wednesday</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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## B O A R D O F R E G E N T S

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<th>Term Expires</th>
<th>Position/Company</th>
<th>City, State</th>
</tr>
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<tr>
<td>WILLIAM P. ALEXANDER</td>
<td>1951</td>
<td>Manager, Grove Farm Company</td>
<td>Lihue, Kauai</td>
</tr>
<tr>
<td>WILLOWDEAN C. HANDY</td>
<td>1949</td>
<td>Ethnologist</td>
<td>Honolulu</td>
</tr>
<tr>
<td>KATSUYUKI IZUMI</td>
<td>1949</td>
<td>Physician and Surgeon</td>
<td>Wailuku, Maui</td>
</tr>
<tr>
<td>FRED K. LAM</td>
<td>1951</td>
<td>Physician and Surgeon</td>
<td>Honolulu</td>
</tr>
<tr>
<td>W. HAROLD LOBER, EX OFFICIO</td>
<td></td>
<td>Superintendent; Department of Public Instruction</td>
<td>Honolulu</td>
</tr>
<tr>
<td>J. FRANK MCLAUGHLIN</td>
<td>1951</td>
<td>Judge, United States District Court</td>
<td>Honolulu</td>
</tr>
<tr>
<td>J. SCOTT B. PRATT</td>
<td>1951</td>
<td>Manager, Kohala Sugar Company</td>
<td>Hawi, Hawaii</td>
</tr>
<tr>
<td>GREGG M. SINCLAIR, EX OFFICIO</td>
<td></td>
<td>President of the University</td>
<td>Honolulu</td>
</tr>
<tr>
<td>PHILIP E. SPALDING</td>
<td>1949</td>
<td>President, C. Brewer and Company</td>
<td>Honolulu</td>
</tr>
</tbody>
</table>

## OFFICERS OF THE BOARD

<table>
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<tr>
<th>Position</th>
<th>Name</th>
</tr>
</thead>
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<tr>
<td>Chairman</td>
<td>Philip E. Spalding</td>
</tr>
<tr>
<td>Vice-Chairman</td>
<td>J. Frank McLaughlin</td>
</tr>
<tr>
<td>Secretary</td>
<td>Paul S. Bachman</td>
</tr>
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</table>
FACULTY AND STAFF
AS OF MAY, 1947

ADMINISTRATION

GREGG M. SINCLAIR, M.A. .... President of the University
ARTHUR R. KELLER, Sc.D. .... Vice-President
PAUL S. BACHMAN, Ph.D. .... Dean of the Faculties
THAYNE M. LIVESAY, Ph.D. .... Dean of the College of Arts and Sciences
BENJAMIN O. WIST, Ph.D. .... Dean of Teachers College
JOSEPH F. KUNESH, C.E. .... Dean of the College of Applied Science
HAROLD A. WADSWORTH, B.S. .... Dean of the College of Agriculture
BRUCE WHITE, Ph.D. .... Dean of Student Personnel
STANLEY D. PORTEUS, Sc.D. .... Director 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
KATHARINE N. HANDLEY, M.S.W. .... Director of the School of Social Work
ALBERT J. MCKINNEY, M.A. .... Acting Director of the University Extension Division
JOSEPH M. SKORPEN, B.A. .... Treasurer
HELEN B. MACNEIL, M.A. .... Registrar
CARL G. STROVEN, Ph.D. .... Librarian
KARL C. LEEBRICK, Ph.D. .... Veterans' Adviser
BARBARA M. CLARK, M.A. .... Counselor for Women
HAROLD M. BITNER, M.A. .... Counselor for Men
THOMAS NICKERSON, B.A. .... University Publications Editor

INSTRUCTION

PRESTON S. ABBOTT, B.S., Graduate Assistant in Zoology—B.S., Bates College, 1947.


VAN METER AMES, Ph.D., Visiting Professor of Philosophy—Ph.B., Univ. of Chicago, 1919, Ph.D., 1924.

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.


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.


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


AGNES C. BICKERTON, M.A., Instructor in Dental Hygiene—Diploma, Honolulu Dental Infirmary School of Dental Hygiene, 1921; B.A., Univ. of Hawaii, 1932, M.A., 1935.

EARL M. BILGER, Ph.D., Professor of Chemistry—B.S., Wesleyan Univ., 1920, M.A., 1921; Ph.D., Yale Univ., 1925. (On leave first semester 1947-48.)

LEONORA N. BILGER, Ph.D., Professor of Chemistry and Chairman, Department of Chemistry—B.A., Univ. of Cincinnati, 1913, M.A., 1914, Ph.D., 1916. (On leave first semester 1947-48.)

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M. DUANE BOWN, Ph.D., Assistant Professor of Psychology—B.A., Brigham Young Univ., 1937; Ph.D., Columbia Univ., 1941.

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INSTRUCTIONAL STAFF

EDWARD J. BRITTEN, Ph.D., Assistant Professor of Botany—B.S., Univ. of Saskatchewan, 1940, M.S., 1941; Ph.D., Univ. of Wisconsin, 1944.

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BARBARA M. CLARK, M.A., Assistant Professor of Education—B.S., Univ. of Minnesota, 1941, M.A., 1943.

ADNA G. CLARKE, LL.B., Professor Emeritus of Police Administration—LL.B., Kansas Univ., 1897, B.A., 1900.

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

ROBERT W. CLOPTON, Ph.D., Associate Professor of Education—B.A., Maryville College, 1926; M.Ed., Univ. of Hawaii, 1941; Ph.D., Northwestern Univ., 1946.

WILLIS B. COALE, Ph.D., Associate Professor of English—B.A., Oberlin College, 1912; M.A., Columbia Univ., 1927, Ph.D., 1929.

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MERYN I. CONNER, D.D.S., Lecturer in Dental Hygiene—D.D.S., Univ. of California, 1926.
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DONALD F. ELLIOTT, M.A., Assistant Professor of European Languages—B.A., Monmouth College, 1931; M.A., Univ. of Florida, 1936.

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EARLE ERNST, Ph.D., Assistant Professor of English—B.A., Gettysburg College, 1933; M.A., Cornell Univ., 1937, Ph.D., 1940.

INSTRUCTIONAL STAFF

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

ANNA M. FISHER, M.S., Lecturer in Nursing—B.S., Western State Teachers College, Kentucky, 1932; M.S., Univ. of Chicago, 1947.

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

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PHILIP W. HARDIE, JR., B.S., Graduate Assistant in Zoology—B.S., Univ. of Alaska, 1947.

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CHIKARA HIRAYAMA, B.S., Graduate Assistant in Chemistry—B.S., Univ. of Hawaii, 1946.

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WILFRED J. HOLMES, M.S., Professor of Engineering and Mathematics—Diploma, U.S. Naval Academy, 1922; M.S., Columbia Univ., 1929. (On leave 1947-48.)
INSTRUCTIONAL STAFF

GEORGE HONNEN, Colonel, Professor of Military Science and Tactics and Chairman, Department of Military Science and Tactics—B.S., U.S. Military Academy, 1920.

CLAUDE HORAN, M.A., Assistant Professor of Art—B.A., San Jose State College, 1942; M.A., Ohio State Univ., 1946.

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

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

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

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


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

VIRGINIA A. JONES, M.Ed., Associate Professor of Public Health Nursing and Chairman, Department of Nursing—R.N., Reid Memorial Hospital School of Nursing, 1920; B.S., Indiana Univ., 1933; M.Ed., Univ. of Hawaii, 1944.


EDWARD KAHALE, Lecturer in Hawaiian.


RUTH P. KENTZLER, M.A., Assistant Professor of Speech—B.A., Univ. of Wisconsin, 1917, M.A., 1926.

MARY B. KIRKHAM, B.S., Instructor in Home Economics and Assistant Director of Food Service—B.S., Brigham Young Univ., 1940.

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

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


JOSEPH F. KUNESH, C.E., Professor of Engineering—B.S., Univ. of Wisconsin, 1914, C.E., 1930.

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


KARL C. LEEBRICK, Ph.D., Professor of Government—B.S., Univ. of California, 1911, M.S., 1913, Ph.D., 1916.

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

ANDREW W. LIND, Ph.D., Professor of Sociology and Chairman, Department of Anthropology and Sociology—B.A., Univ. of Washington, 1924, M.A., 1925; Ph.D., Univ. of Chicago, 1931. (On leave first semester 1947-48.)

THAYNE M. LIVESAY, Ph.D., Professor of Psychology and Chairman, Department of Psychology—B.A., Pacific Univ., 1917; M.A., Univ. of Washington, 1921, Ph.D., 1931.

BURRIS H. LOWRY, Major, Assistant Professor of Military Science and Tactics—B.S., Texas Agricultural and Mechanical College, 1930; M.S., Colorado State College, 1938.


KATHERINE LUOMALA, Ph.D., Assistant Professor of Anthropology—B.A., Univ. of California, 1931, M.A., 1933, Ph.D., 1936.


FAY E. MCCALL, B.S., Assistant Professor of Mathematics—B.S., Kansas State College, 1913.

HAROLD E. MCCARTHY, Ph.D., Assistant Professor of Philosophy—B.A., Univ. of California, 1937, M.A., 1942, Ph.D., 1947.

ERNEST MCCLAIN, M.Mus., Instructor in Music—Sch.Mus.B., Oberlin College, 1940; M.Mus., Northwestern Univ., 1946.


F. H. MACDOUGALL, Ph.D., Visiting Professor of Chemistry—B.A., Queens Univ., 1902, M.A., 1903; Ph.D., Leipzig Univ., 1907.


JOSEPH F. MAGUIRE, Ph.D., Associate Professor of Classical Languages and Chairman, Department of Classics—B.A., College of the Holy Cross, 1934; Ph.D., Yale Univ., 1937.

GORDON B. MAINLAND, Ph.D., Assistant Professor of Zoology—B.A., Stanford Univ., 1937; M.A., Univ. of Hawaii, 1939; Ph.D., Univ. of Texas, 1942.

ALVIN V. MAJOSKA, M.D., Lecturer in Dental Hygiene—B.S., Rutgers Univ., 1936; M.D., Univ. of Pennsylvania, 1940.

CURTIS A. MANCHESTER, Ph.D., Associate Professor of Geography—M.A., Univ. of Michigan, 1938, Ph.D., 1946.
INSTRUCTIONAL STAFF


LEONARD E. MASON, M.A., Associate Professor of Anthropology—B.A., Univ. of Minnesota, 1935, M.A., 1941.

DONALD C. MATTHEWS, Ph.D., Associate Professor of Zoology—B.A., Univ. of Wisconsin, 1931, Ph.D., 1935.

CAREY D. MILLER, M.S., Professor of Foods and Nutrition—B.A., Univ. of California, 1917; M.S., Columbia Univ., 1922.

IWAO MIYAKE, M.S., Associate Professor of Physics—B.S., Univ. of Hawaii, 1926, M.S., 1929.

CHARLES A. MOORE, Ph.D., Professor of Philosophy and Chairman, Department of Philosophy—B.A., Yale Univ., 1926, Ph.D., 1932. (On leave 1947–48.)

BERTHA MUELLER, Ph.D., Associate Professor of German—B.A., Northwestern Univ., 1926; M.A., Univ. of Wisconsin, 1929, Ph.D., 1935.

THOMAS D. MURPHY, Ph.D., Assistant Professor of History—B.A., Wesleyan Univ., 1933, M.A., 1934; Ph.D., Yale Univ., 1939.

FREDERICK D. NICHOLS, B.S., Associate Professor of Engineering—B.S., Univ. of Illinois, 1935.

JOHN NICK, Technical Sergeant, Instructor in Military Science and Tactics.

BEN NORRIS, B.A., Associate Professor of Art and Chairman, Department of Art—B.A., Pomona College, 1931.

OLIVE C. OBBE, M.A., Instructor in English—B.A., Adrian College, 1931; M.A., Ohio State Univ., 1942.


HAROLD S. PALMER, Ph.D., Professor of Geology and Chairman, Department of Geology—B.A., Yale Univ., 1912, Ph.D., 1923.

KWAN DOO PARK, B.S., Lecturer in Korean—B.S., Univ. of Hawaii, 1922.

JULIE PARKER, B.S., Graduate Assistant in Chemistry—B.S., Ohio State Univ., 1945.


IRVING O. PECKER, B.A., Professor of European Languages and Chairman, Department of European Languages—B.A., Boston Univ., 1912.

THERESA J. PETERSON, M.A., Instructor in Education—B.S., Univ. of Minnesota, 1931; M.A., Univ. of Iowa, 1936.

VIRGINIA PHILLIPS, Ed.D., Associate Professor of Home Economics—B.S., Univ. of California, 1928; Ed.D., Columbia Univ., 1941.

EDWARD M. POMROY, Staff Sergeant, Instructor in Military Science and Tactics.

MARY R. PORTER, Ph.D., Associate Professor of Education—B.S., Ohio State Univ., 1930, M.A., 1934, Ph.D., 1938.

JOHN A. RADEMAKER, Ph.D., Assistant Professor of Sociology—B.A., College of Puget Sound, 1930; M.A., Univ. of Washington, 1935, Ph.D., 1939.

MARY RANKIN, M.S., Assistant Professor of Home Economics—B.S., Kansas State College, 1935; M.S., Univ. of Minnesota, 1943.

NORMAN D. RIAN, M.A., Associate Professor of Music—B.A., St. Olaf College, 1935; M.A., Eastman School of Music, 1939.

RAYMOND W. RIDDLB, Technical Sergeant, Instructor in Military Science and Tactics.

JOHN B. ROBERTSON, B.S., Instructor in Engineering and Mathematics—B.S., U.S. Naval Academy, 1925.

MAYBELLE 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.

FREDRICK RUH, M.A., Instructor in English—B.A., De Pauw Univ., 1939; M.A., Univ. of California at Los Angeles, 1942.

HARRIETTE E. SAELTZER, M.S.S., Lecturer in Nursing—B.A., Univ. of California, 1935; M.S.S., Smith College, 1940.

HAROLD ST. JOHN, Ph.D., Professor of Botany and Chairman, Department of Botany—B.A., Harvard Univ., 1914; M.A., 1915; Ph.D., 1917.

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

SOICHI SAKAMOTO, Instructor in Physical Education.

ALLAN 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.

E. VERN SAYERS, Ph.D., Professor meritus of Education—B.A., Indiana Univ., 1914, M.A., 1921; Ph.D., Columbia Univ., 1929.


BERT SHEPARD, M.A., Assistant Professor of European Languages—Diploma, Univ. of Paris, 1929; M.A., Pennsylvania State College, 1936.

JAMES H. SHOEMAKER, M.A., Professor of Economics and Business and Chairman, Department of Economics and Business—B.A., Iowa State Teachers College, 1918; M.A., State Univ. of Iowa, 1919.

JOSEPH F. SMITH, M.A., Professor of Speech and Chairman, Department of Speech—B.A., Univ. of Utah, 1908; M.A., Univ. of Illinois, 1926.


ROBERT SMOLKER, B.S., Graduate Assistant in Zoology—B.S., Bates College, 1947.


INSTRUCTIONAL STAFF

ROBERT A. SPURR, Ph.D., Assistant Professor of Chemistry—B.A., Rollins College, 1936, B.S., 1937; M.A., Harvard Univ., 1938; Ph.D., California Institute of Technology, 1942.

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


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

AMY P. TANADA, B.S., Graduate Assistant in Chemistry—B.S., Univ. of Hawaii.


WILLIAM TIDWELL, B.A., Graduate Assistant in Bacteriology—B.A., Univ. of South Carolina, 1945.

THER TINKER, M.S., Instructor in Education and Director of the Aquarium B.A., Univ. of Washington, 1931; S., Univ. of Hawaii, 1934.

STANMORE B. TOWNES, Ph.D., Associate Professor of Mathematics—B.A., Univ. of Oklahoma, 1921, M.A., 1923; Ph.D., Univ. of Chicago, 1930.

JOEL TRAPIDO, Ph.D., Assistant Professor of Speech—B.A., Cornell Univ., 1935; M.A., New York Univ., 1936; Ph.D., Cornell Univ., 1942.

GLADYS M. TRAUT, M.A., Assistant Professor of Education and Acting Principal, Teachers College Elementary School—B.A., Univ. of Michigan, 1927; M.A., Univ. of Hawaii, 1929.

LEONARD D. TUTHILL, Ph.D., Associate Professor of Entomology—B.A., Univ. of Kansas, 1929, M.A., 1930; Ph.D., Iowa State College, 1941.

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

W. EDGAR VINACKE, Ph.D., Assistant Professor of Psychology—B.A., Univ. of Cincinnati, 1939; Ph.D., Columbia Univ., 1942.

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

KENICHI WATANABE, Ph.D., Assistant Professor of Mathematics—B.S., California Institute of Technology, 1936, Ph.D., 1940. (On leave 1947-48.)


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

ROGER T. WEISS, B.E., Assistant in Engineering and Mathematics—B.E., Univ. of Southern California, 1947.

MILDRED C. WELLS, Ph.D., Associate Professor of Education—B.A., State Univ. of Iowa, 1936; M.A., Ohio State Univ., 1939, Ph.D., 1945. (On leave 1947-48.)
BRUCE WHITE, Ph.D., Associate Professor of Education—B.A., Willamette Univ., 1923; M.A., Univ. of Washington, 1932, Ph.D., 1935.

JOHN A. WHITE, Ph.D., Associate Professor of Chinese History—B.A., Univ. of California, 1933; M.A., Columbia Univ., 1940; Ph.D., Stanford Univ., 1947.


HELEN C. WILLIAMS, M.A., Instructor in Education—B.A., Denver Univ., 1938; M.A., Univ. of Iowa, 1939.

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


PSYCHOLOGICAL AND PSYCHOPATHIC CLINIC

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

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

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

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

BENJAMIN O. WIST, Ph.D., Professor of Education and Chairman, Department of Education—B.A., Spokane College, 1910; M.A., Univ. of Hawaii, 1924; Ph.D., Yale Univ., 1937.


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.

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

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. FUMIIMOTO, B.S., Assistant in Chemistry—B.S., Univ. of Hawaii, 1943.

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

EDWARD T. FUKUNAGA, M.S., Assistant Agriculturist—B.S., Univ. of Hawaii, 1934, M.S., 1935.

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

RICHARD A. HAMILTON, M.S., Assistant Horticulturist—B.S., North Dakota State College; M.S., Ohio State Univ., 1940.

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.


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

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

LEO KARTMAN, M.S., Junior Parasitologist—B.S., Univ. of Wisconsin, 1935, M.S., 1936.

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

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

GORDON B. MAINLAND, Ph.D., Assistant Entomologist—B.A., Stanford Univ., 1937; M.A., Univ. of Hawaii, 1939; Ph.D., Univ. of Texas, 1942.
HIROMU MATSUMOTO, M.S., Assistant in Chemistry—B.S., Univ. of Hawaii, 1944, M.S., 1945.

YOSHIITO MATSUSAKA, B.S., Assistant in Agriculture—B.S., Univ. of Hawaii, 1930.

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

SHIGERU NAKATA, B.S., Assistant in Plant Physiology—B.S., Univ. of Hawaii, 1946.

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

JANET OISHI, B.S., Assistant in Parasitology—B.S., Univ. of Hawaii, 1945.

KENNETH K. OTAGAKI, M.S., Junior Animal Husbandman—B.S., Univ. of Hawaii, 1940; M.S., Iowa State College, 1946.

ANASTACIO L. PALAFOX, M.S., Junior Poultry Husbandman—B.S., State College of Washington, 1940, M.S., 1941.

CHARLES F. POOLE, Ph.D., Olericulturist—B.S., Univ. of Hawaii, 1920, M.S., 1926; Ph.D., Univ. of California, 1930.

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

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, P.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.


WINIFRED R. VINACKE, M.S., Junior Nutritionist—B.S., Univ. of Arizona, 1936, M.S., 1941.

COOPERATIVE EXTENSION SERVICE IN AGRICULTURE AND HOME ECONOMICS

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

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.

ROBERT E. BURTON, B.S., Associate Specialist in Truck Crops and Horticulture—B.S., Univ. of California, 1915.

KATHERINE I. CARTER, B.A., County Agent, Kauai—B.A., Santa Barbara State College, 1939.

HENRY N. CHIKASUE, B.S., Assistant County Agent, West Oahu—B.S., Univ. of Hawaii, 1941.
Winifred W. Chinien, B.S., Assistant County Agent, Maui—B.S., Univ. of Hawaii, 1943.

Edwin Y. Chun, B.S., County Agent, South Oahu—B.S., Univ. of Hawaii, 1933.

Antonio Cruz, Assistant in Extension, East Oahu.

Eleanor Dickie, B.S., Assistant County Agent, Maui—B.S., Cornell Univ., 1944.

M. James Doi, B.S., Assistant in Extension, Maui—B.S., Univ. of Hawaii, 1942.

Lillian Don, B.S., Assistant in Extension, South Oahu—B.S., Univ. of Arizona, 1946.

Robert C. Eckart, B.S., County Agent, Kauai—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 Agent—B.S., Mary Hardin Baylor College, 1935.

Zera C. Foster, B.S., Associate Specialist in Soil Management—B.S., Michigan State College, 1924.

Jane H. Fukunaga, B.S., Assistant in Extension, South Oahu—B.S., Univ. of Hawaii, 1944.

I. Walter Furuya, B.S., Assistant County Agent, East Oahu—B.S., Univ. of Hawaii, 1940.

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 County Agent Work—B.S., Univ. of Hawaii, 1924.

Alice B. Hancock, B.S., County Agent, Molokai—B.S., Iowa State College, 1927.

Esther L. Hendershot, B.S., Assistant County Agent, Kauai—B.S., North Dakota Agricultural College, 1941.

A. M. Hieronymus, B.S., Acting Assistant Specialist in Animal Husbandry—B.S., Oklahoma Agricultural and Mechanical College, 1941.

Haruo H. Honma, B.S., Assistant County Agent—B.S., Univ. of Hawaii, 1940.

Mabel Inada, B.S., Assistant in Extension, Maui—B.S., Univ. of Hawaii, 1941.

Jack T. Ishida, B.A., Assistant County Agent—B.A., Univ. of Hawaii, 1942.

John Iwane, B.S., County Agent, West Hawaii—B.S., Univ. of Hawaii, 1940.

Y. Edward Kanemoto, B.S., Assistant County Agent, East Hawaii—B.S., Iowa State College, 1943.

Jean L. Kohler, B.A., Assistant County Agent, West Oahu—B.A., Hunter College, 1945.

Bunki Kumabe, B.S., Assistant County Agent, Maui—B.S., Univ. of Hawaii, 1942.

Clarence Lyman, M.S., County Agent, East Hawaii—B.S., Univ. of Hawaii, 1938, M.S., 1941.

Mildred McIntosh, B.S., Assistant County Agent—B.S., Columbia Univ., 1919.

George E. Marvin, M.S., County Agent, North Hawaii—B.S., Univ. of Wisconsin, 1923, M.S., 1926.

Keichi Mihata, B.A., Assistant County Agent, North Hawaii—B.A., Univ. of Hawaii, 1935.

Kenichi Murata, Assistant County Agent.
FRANK T. MURPHY, B.S., County Agent, Maui—B.S., Oregon State College, 1917.

YUKIO NAKAGAWA, B.S., Assistant County 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.

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

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

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

ROBERT M. OTA, Assistant County Agent, East Hawaii.

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

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


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

LILLIAN R. SCHWARTZ, B.S., Assistant County Agent, East Oahu—B.S., Hastings College, 1931.

Y. JAMES SHIGETA, Assistant County Agent, Maui.

RUTH SNEED, M.S., Assistant County Agent—B.S., State Teachers College of Tennessee, 1933; M.S., Univ. of Tennessee, 1937.


JOHN L. STORMONT, B.S., Associate Specialist in Club Work—B.S., Univ. of Illinois, 1928.

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

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

SHIRO TAKEI, B.S., Assistant County Agent—B.S., Univ. of Hawaii, 1938.

FRANCIS M. TAKISHITA, Assistant in Extension, Maui.

ALICE P. TRIMBLE, B.S., Associate Specialist in Home Demonstration Work—B.S., Utah State College, 1924.

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

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


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

HOWARD WHITNEY, Assistant County Agent, Kauai.

VIOLA E. WOODRUFF, B.S., Assistant County Agent, West Oahu—B.S., Ohio State Univ., 1935.

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

BETTY ZANE, B.S., Assistant in Extension, East Hawaii—B.S., Univ. of Hawaii, 1946.
GENERAL INFORMATION

DESCRIPTION

The University of Hawaii lies at the mouth of Manoa Valley in Honolulu, on the island of Oahu. It is three miles from the business center of Honolulu and two miles from Waikiki Beach. Ten other tracts of land on the islands of Oahu, Maui, and Hawaii bring the University's landholdings to 400 acres.

Established by act of the Legislature of the Territory of Hawaii in 1907, the University bears the same relation to the Territory as the state universities to their states. Support of the University comes from appropriations of the Territorial Legislature and of the United States Congress, and from miscellaneous funds that include gifts and student fees. Although the University of Hawaii never received a grant of land such as that provided for similar colleges of the states under the original Morrill Act of 1862, it is a federal land-grant college and shares in benefits from the Second Morrill Act of 1890, the Nelson Amendment of 1907, and subsequent legislation.

HISTORY. The institution was known as the College of Agriculture and Mechanic Arts from 1907 to 1911, and the College of Hawaii from 1911 to 1920. The College opened September 14, 1908, with five students in regular courses and a faculty of twelve. Before the end of the year thirty-one students had enrolled in special courses. The College was temporarily located on the grounds now occupied by the Lincoln School in Honolulu; in 1912 the institution was moved to its present site. When the College of Arts and Sciences was added in 1920, the name was changed to the University of Hawaii.

In 1931 the Territorial Legislature united the Territorial Normal and Training School with the University School of Education to form Teachers College of the University and placed the property of the Normal School under the control of the Board of Regents of the University.

OPEN TO ALL. Instruction is available to all persons who are qualified, regardless of sex, racial ancestry, or nationality.

FULLY ACCREDITED. The University is fully accredited by the Association of American Universities. Its students may transfer to other American and to European and oriental universities on the same basis as students of other American universities.

CONTROL OF THE UNIVERSITY. Government of the University resides in a Board of Regents appointed by the Governor of the Territory for individual terms of four years. The statutes and bylaws of the Board of Regents are published in a pamphlet available upon request.

DIVISIONS OF THE ACADEMIC YEAR. The University divides its academic year into two semesters of eighteen weeks each and a summer session of six weeks. The semester beginning in the autumn is known as the First Semester, and that beginning in the winter is known as the Second Semester.

UNIVERSITY COLORS. The University of Hawaii colors are green and white.
COMMUNICATIONS TO THE UNIVERSITY. Letters of general inquiry from prospective students should be addressed to the Registrar.

The mailing address of the University is P. O. Box 18, Honolulu 10, Territory of Hawaii.

ADMINISTRATIVE ORGANIZATION

Since July 1, 1943, the University has operated under a new plan of organization, unanimously endorsed by the University Senate and adopted by the Board of Regents on February 23, 1943. Under this plan there are four colleges: The College of Arts and Sciences, the College of Applied Science, Teachers College, and the College of Agriculture, which includes the Agricultural Experiment Station and the Agricultural Extension Service. Graduate work is organized under a Graduate Division. An Office of Student Personnel co-ordinates the work of admissions, counseling, and registration. Other administrative units are the Psychological Clinic, the Library, the University Extension Division, and the Legislative Reference Bureau.

Under this plan departments are units of the University as a whole, rather than of colleges, and are responsible to the Dean of Faculties on matters of finance and personnel. Coordination of the departments with the colleges in instructional matters is obtained through a Council of Deans, of which the Dean of Faculties is chairman. The Summer Session and the University Extension Division are under the supervision of the Dean of Faculties and the Council of Deans.

The University Senate, composed of all faculty members of the rank of Professor and Associate Professor and others designated by the Board of Regents, acts as an advisory body to the President on matters of instruction and related problems.

RELATED SERVICES

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

THE PSYCHOLOGICAL AND PSYCHOPATHIC CLINIC. This Clinic is a territorial agency under the management of the University. It was established by act of the Legislature in 1921, with the dual purpose of psychological investigation and of individual clinical examinations. The Act gives wide scope to the work of the Clinic, making its service in examination available to every institution and to all social and educational agencies in the Territory. Through traveling psychologists this work has been extended to the other islands. Research work carried on by the Clinic relates in large part to racial differences, a question of international significance. In its special field, lecture courses are offered by certain members of the Clinic staff.

LEGISLATIVE REFERENCE BUREAU. The 1943 Legislature created the Legislative Reference Bureau as a department of the University to help solve current legislative and governmental problems. The Bureau is situated on the campus; during sessions of the Legislature, an additional office is maintained in Iolani Palace. On request, it provides members of the Legislature, the Governor, and departments, institutions, and agencies of the Territory with information and reports concerning legislative problems that come before them.
HAWAII WAR RECORDS DEPOSITORY. A resolution of the 1943 Legislature stated, in part, that "it will be advisable, after the termination of the present war . . . to compile a history of Hawaii's part in such war"; it designated the University of Hawaii as "the official depository of material, documents, photographs and other data relating to Hawaii's part in said war"; and it required the University to collect and preserve such materials. Under this mandate the University established the Hawaii War Records Depository, which operates under the general guidance of a faculty War Records Committee. There is an advisory committee appointed by the president of the Hawaiian Historical Society.

THE VOLCANO LABORATORY. On the island of Hawaii, the Laboratory is conducted in cooperation with the National Park Service and the Hawaiian Volcano Research Association, and offers research possibilities to both graduate students and investigators who wish to pursue their own studies in subjects pertaining to volcanology.

THE AQUARIUM. At Waikiki Beach the University operates the Aquarium as a place of education and entertainment for the benefit of local residents and visitors.

COOPERATING INSTITUTIONS

To add to the research facilities which it offers students and to expand its services to the Territory, the University has made cooperative agreements with several other institutions.

THE PINEAPPLE RESEARCH INSTITUTE OF HAWAII. This Institute, independently supported by the pineapple industry, is affiliated with the University. The administrative offices and research laboratories are in Institute buildings on and adjacent to the University campus. Field studies are carried on at Wahiawa, where the Institute maintains a 100-acre experimental farm.

BERNICE PAUAHI BISHOP MUSEUM. The University and the Bishop Museum reciprocate in the use of libraries, laboratories, collections, and other facilities of research. Advanced students may use the Museum facilities when working under proper direction, subject to such regulations as may be deemed expedient by the director of the Museum.

INSTITUTE OF PACIFIC RELATIONS. The research library accumulated by the Honolulu Branch of the Institute of Pacific Relations, affording excellent facilities for the study of international affairs, constitutes a part of the University Library.

HONOLULU ACADEMY OF ARTS. This institution, built and endowed by Mrs. Charles M. Cooke, has made its fine collections of art objects available to the students and instructors of the University.

HAWAIIAN SUGAR PLANTERS' ASSOCIATION. This association has provided $100,000 for the erection of a building on the University campus to house the Agricultural Engineering Institute, where shop facilities will be available for instructional and research purposes.

FRUIT FLY LABORATORY. The United States Bureau of Entomology, maintains on the University campus a research laboratory and a corps of investigators for the study of fruit fly pests in Hawaii.

QUEEN'S HOSPITAL. The Queen's Hospital and the University cooperate in offering certain courses in Nursing and Medical Technology.
GENERAL INFORMATION

THE HAWAII SCHOOL OF RELIGION. The Hawaii School of Religion, an independently supported institution managed by its own Board of Trustees, is affiliated with the University and its courses are accepted for credit. Members of its staff are approved by the University Board of Regents and given academic rank on the University Faculty.

CAMPUS AND BUILDINGS

The principal buildings on the campus are Hawaii Hall, Gartley Hall, Dean Hall, the Library, the Social Science Building, Teachers College and its laboratory centers (the Elementary School and Castle Memorial Hall), Farrington Hall, the Engineering Quadrangle, Gilmore Hall, the Home Economics Building, the Gymnasium, and Hemenway Hall. All of these except the Gymnasium, the Elementary School, and Castle Memorial Hall are built of reinforced concrete.

Hawaii Hall is the administration building. The biological sciences are housed chiefly in Dean Hall. The physical sciences are centered in Gartley Hall. Farrington Hall, an auditorium with a backstage extension, is well equipped for work in dramatics. The engineering laboratories and classrooms are in the four buildings composing the Engineering Quadrangle. The Arthur L. Andrews (outdoor) Theater, whose backdrop consists of a tropical garden and the Koolau mountain range, is the setting for Commencement and other University programs.

The Agricultural Engineering Institute, financed largely by the Hawaiian Sugar Planters’ Association, provides facilities for instruction and research in farm and plantation machinery.

The Library contains 173,808 bound volumes and 392,855 unbound parts and pamphlets, exclusive of the Teachers College Elementary School Library, and serves as a depository for government publications. Extensive collections of Chinese and Japanese works and a growing collection of valuable books and periodicals about Hawaii make the University of Hawaii an excellent place to study international relations, especially those concerning the Pacific area. The Library files include local and mainland newspapers, and literary, technical, and scientific periodicals. These materials are available to all persons complying with library regulations.

Hemenway Hall is a general social center for students and faculty, and furnishes quarters for both student and alumni organizations. In it a bookstore and a cafeteria are maintained.

Residence accommodations on or near the campus include the Charles H. Atherton House for men and Hale LaulIMA for women students.

A swimming pool, tennis courts, and locker buildings are located near Hemenway Hall. Wise Field, which is used for football and baseball practice and military drill, and Cooke Field, which is used for track sports, also afford facilities for physical education and sports.

The Honolulu Stadium, with a seating capacity of 22,000, is equipped for football, baseball, and other outdoor sports, and is regarded as an integral part of the University’s plant resources for physical education and athletics. It is owned and managed by the Honolulu Stadium Corporation.
Other buildings connected with the University include the R.O.T.C. Building, Hawaii Hall Annex (which houses the Psychological Clinic and the offices of the English Department), the Nutrition Laboratory, and the United States Bureau of Entomology Building on the campus; the Marine Biological Laboratory at Waikiki Beach; and the Astronomical Observatory in Kaimuki. A part of the campus is occupied by an experimental farm, which is devoted to solving problems of Hawaii's dairymen, poultrymen, and livestock raisers and which provides instructional facilities for students of agriculture.

The herbaria of the University and of the Bishop Museum, which are combined under the custodianship of the Museum, contain the most nearly complete collection of Hawaiian plants in existence, and include some species now extinct. The most valuable parts are the cotypes of Dr. W. Hillebrand's species and the types of many new species collected by later botanists.

CLASSIFICATION OF STUDENTS

Students in the University, other than auditors and those taking extension and correspondence courses, are classified as undergraduates and graduates.

Undergraduate students are designated as regular or unclassified.

Regular students are those who are pursuing organized programs of study and who comply with the established regulations which lead, usually after four years of work, to a bachelor's degree. Regular students ordinarily carry full-time programs (ten semester hours or more). Freshmen and Sophomores are lower-division students; Juniors and Seniors, upper-division students.

Unclassified students are those who, although registered for credit, are not enrolled as candidates for degrees. They usually carry only part-time programs (fewer than ten semester hours).

Graduate students (graduates of this University or of other institutions of approved standing) are subdivided into four groups: candidates for advanced degrees, candidates for five-year diplomas, candidates for certificates in social work, and noncandidates.

Advanced degree candidates are those who pass qualifying examinations and pursue programs of study leading to advanced degrees.

Five-year diploma candidates are persons taking graduate work in Teachers College. Candidates for certificates in social work are persons taking graduate work in the School of Social Work.

Most of the other graduate students—who are not candidates for degrees or diplomas—are teachers seeking professional improvement by taking graduate courses. Some of them are following a program leading to the Professional Certificate awarded by the Department of Public Instruction.

Auditors are those who are permitted to attend certain courses as listeners, but who take no part in the class work and receive no credit.

ADMISSION

Candidates for admission must present satisfactory evidence of ability to do university work.
Those who desire to become regular or unclassified students and who have not previously earned credits in an institution of higher learning must apply to the Office of Admissions. A high school senior who plans to enter the University within a year should file his application during the final semester of his high school course. In any case, application should be filed at least one month before the opening of the semester in which enrollment is desired. Requests for application forms and questions about admission should be addressed to the Office of Admissions.

The application procedure for persons who have credits from other institutions of higher learning is described hereafter under "Admission to Advanced Standing."

ADMISSION OF REGULAR STUDENTS ENTERING THE UNIVERSITY FOR THE FIRST TIME. Admission to first-year standing in the University depends on a number of factors, including performance on college aptitude tests, quality of high school work, and various ratings by the preparatory school. A high rating in one factor alone will not insure admission; nor will poor performance on one measure alone exclude an applicant if other evidence indicates he might be successful. Ordinarily a student should average B or better in his high school work, although an applicant with a C average who scores above average on the college aptitude test may be admitted. The quality of work done during the last two years in secondary school receives special consideration.

College aptitude and English tests are given by the University in high schools of the Territory each spring. Students seeking admission in the autumn who have not had such examinations take them during the Freshman Orientation Period (see "University Calendar"). Modern language placement tests are also given during the Freshman Orientation Period for students intending to enter advanced courses in Hawaiian, Chinese, Japanese, French, German, or Spanish.

Every applicant for admission as a regular student who has not previously earned credits in an institution of higher learning must take college aptitude and English examinations and must submit evidence that he has satisfactorily completed at least fifteen units of work in a four-year high school or at least twelve units of work in a three-year senior high school. Increasing emphasis is being put upon the ability to use and understand English, both oral and written. While it is not the policy of the University to refuse admission to an otherwise promising candidate on the basis of poor English alone, an applicant whose high school record and aptitude scores are such as to raise a question regarding his ability to do satisfactory college work, and who, in addition, is poor in oral English will not be admitted.

The word unit as employed here to describe prerequisite preparatory work signifies the satisfactory completion of a course of study pursued for a full school year, with five recitations a week of not less than forty-five minutes each, or the equivalent laboratory or shop exercises. For an acceptable distribution of the units required of entering students, see the table on page 27.

ADMISSION BY EXAMINATION. Candidates who cannot or do not care to satisfy the foregoing admission requirements may take examinations offered by the College Entrance Examination Board (431 West 117th Street, New York City) and submit statements from the Board covering certain subjects, or take the comprehensive examinations offered by the Board and submit a certificate covering the results of these examinations along with a complete record of work done in preparatory school.
### Minimum Unit Requirements for Admission

<table>
<thead>
<tr>
<th>From a 4-Year High School</th>
<th>Subject</th>
<th>From a 3-Year High School</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td><strong>English</strong></td>
<td>3</td>
</tr>
<tr>
<td>1</td>
<td><strong>Algebra</strong></td>
<td>1 (Not required if the student had ninth-grade general mathematics in intermediate, i.e., junior high school.)</td>
</tr>
<tr>
<td></td>
<td><strong>English</strong>—(in addition to the 3-unit minimum requirement in English)</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Sciences</strong>—Physical, biological, and social</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Mathematics</strong>—(in addition to the 1-unit minimum requirement in mathematics)</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td><strong>Foreign Languages</strong>—(Entrance credit in foreign language is not granted unless the total number of foreign language units offered includes at least 2 units in some one language.)</td>
<td>4 (If applicant offers ninth-grade mathematics, this requirement is 3 units.)</td>
</tr>
<tr>
<td></td>
<td>Any other subjects (except Physical Education and ROTC) credited by the high school toward its diploma (no less than ½ nor more than 2 units in any one subject) provided that these subjects have been pursued in accordance with regular classroom procedure involving a reasonable amount of preparation in addition to the time spent in class.</td>
<td>4</td>
</tr>
<tr>
<td>5</td>
<td>. . . . . . Total . . . . . .</td>
<td>15</td>
</tr>
</tbody>
</table>

Applicants whom the dean of the college concerned regards as of more than average ability may take entrance examinations offered by the University covering preparatory school subjects.

Veterans whose secondary school education was interrupted by the war may take entrance examinations covering preparatory school subjects. Successful performance on these tests and on the college aptitude test will admit veterans without reference to high school credits. Such veterans, however, must meet all special requirements, such as those in mathematics for admission to the Engineering or Premedical curriculums.

**Special Requirements for Certain Programs.** In addition to satisfying the requirements of the University as a whole, candidates for admission to certain programs of university work must meet special requirements. Each applicant should study the conditions set by the college he intends to enter and of the program he intends to pursue in that college. Special attention is directed to the following requirements.
Students desiring to study mathematics in the University or to take subjects for which college mathematics is a prerequisite should have had high school algebra through quadratics, and plane geometry. This applies particularly to prospective students in agriculture and premedical work, who must take college mathematics in preparation for physics.

Prospective engineering students must have high school algebra through quadratics, plane geometry, and trigonometry if they wish to complete the University program in four years. It is strongly recommended that they also have solid geometry, mechanical drawing, and physics.

Prospective students of medicine should have had high school algebra through quadratics, plane geometry, two years of a foreign language, two years of history, and three years of science.

Every student entering as a Freshman is expected to be on the campus during the Freshman Orientation Period, the dates of which are stated in the "University Calendar." Entrance examinations, consultations with officers and instructors, and introductory lectures occupy the Period.

ADMISSION TO ADVANCED STANDING. Students who transfer with sufficient credits from other accredited universities or colleges may be granted advanced standing. These students must present to the Registrar an official statement of the studies offered for admission at such institutions, of the studies pursued in college and the grade received in each, and of honorable dismissal. These transcripts become a permanent part of the University files. Credit toward graduation is given only in subjects in which grades of C or better are recorded. Candidates transferring with advanced standing are required to do a minimum of one year's work (30 semester hours) at the University of Hawaii if they wish to receive a bachelor's degree here.

ADMISSION OF UNCLASSIFIED STUDENTS. Mature persons, ordinarily at least twenty-one years of age, who present satisfactory evidence of their ability to do college work may register as unclassified students and take a limited program. Persons less than twenty-one years of age who desire to carry only a few courses may be admitted as unclassified students if they are able to meet fully the entrance requirements for regular freshman standing.

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

Admission as an unclassified student is in no case permitted to serve as a means of avoiding compliance with the requirements laid down for regular students.

ADMISSION OF AUDITORS. Persons desiring the privilege of attending classes as auditors must have the written consent of the Chairman of the Committee on Admissions and the chairman of the department concerned.

ADMISSION OF GRADUATE STUDENTS. Graduates of accredited colleges and universities who wish to pursue graduate study in the University of Hawaii should apply to the Chairman of the Committee on Graduate Study. Each application should be accompanied by an official transcript of undergraduate record and of any graduate work completed at another institution. Admission to graduate study is provisional until such records are on file. These transcripts become a permanent part of the University files.
REGISTRATION, WITHDRAWAL, AND OTHER CHANGES

Dates upon which students register for courses in the University are stated in the "University Calendar." Students entering in the autumn receive a circular telling them how to proceed in registering. Courses offered in the University are described in this catalogue under "Courses of Instruction," and a schedule stating the time and place of meeting of each course is issued by the Registrar in September for the First Semester, in January for the Second Semester, and in May for the Summer Session.

REGISTRATION OF UNDERGRADUATE STUDENTS. Before they register, undergraduates must make a choice from among the three colleges of the University and a selection from among the programs offered in the college chosen. Each undergraduate is assigned at registration time to a faculty member who acts as his adviser in selecting courses. Credit is given only for courses regularly entered upon the registration card.

REGISTRATION OF GRADUATE STUDENTS. All graduate students follow the same procedure in registration as do undergraduates.

ARRANGEMENT OF CREDITS IN ADVANCE. The number of credits obtainable in most courses is stated in the "Announcement of Courses" section of the University of Hawaii Catalogue and in the time schedule. However, certain courses in which students carry on individual work are marked "credit by arrangement." Such statements do not signify that the credits are to be determined at the end of the semester. The student registers for a definite number of credits and may earn no more than that number.

LATE REGISTRATION. The University permits registration for credit after the announced registration days in any semester only in exceptional cases and for valid reasons. The following rules govern such late registration: (1) in order to register during the first seven days following the last official day of registration, written approval must be obtained from the dean of the college concerned; (2) from the seventh to the fourteenth day, written approval must be obtained from the dean of the college concerned and from the course instructor; (3) and to register at any subsequent time written approval must be obtained from the Council of Deans upon submission of a written petition.

These same rules apply to students who wish to register for courses in addition to those signed for during the official registration period.

Auditors need not comply with these regulations.

WITHDRAWAL FROM COURSES OR FROM THE UNIVERSITY. Withdrawal is the voluntary severance by a student of his connection with a course or with the University. An undergraduate wishing to withdraw from a course must have the written consent of the dean in whose college he is registered. This consent must be stated on a form obtained by the student from the dean and returned to the Registrar bearing the dean's signature. Withdrawals from the University must be applied for on a form available at the Registrar's office; signatures as indicated on the form must be obtained, and the completed application returned to the Registrar's office.

During the first five weeks of a semester a formal withdrawal is marked W on the student's record by the Registrar. A withdrawal at a later date, but prior to the last two weeks of class instruction in a semester, is marked W if the work of the student while he was registered in the course was passable; otherwise it is marked F (for
failure). No withdrawals are permitted during the last two weeks of instruction in a semester. A student who drops a course without the formality of withdrawing receives an \( F \) in the course.

**Other Changes of Students' Programs of Study.** A student may not formally transfer from one of the University's colleges to another during the academic year. Such changes should be applied for in May. Application for transfer should be made on a form obtainable at the Registrar's office. The application must be approved by the deans of the two colleges concerned and should be returned to the Registrar's office by the end of the college year.

**Credits, Grades, Grade Points, Honors**

The University recognizes work accomplished by students in terms of credits, grades, grade points, and honors.

A **credit** (also called a semester hour and a credit hour) is given to a student for work satisfactorily accomplished during three hours a week spent in the preparation and recitation of assignments in a course, or in the field, or laboratory. The normal division of this time in non-laboratory courses is one hour in the classroom and two hours in preparatory work, but the division of this time is usually left to the instructor in charge.

**Grades** given in undergraduate courses are \( A, B, C, D, E, F, \) and \( I \). The lowest passing grade is \( D \). A grade of \( E \) is a conditional failure and a grade of \( I \) is incomplete. An \( E \) or an \( I \) may be removed, but students who receive them are expected to take the initiative by conferring with the instructor or instructors concerned. A student who receives an \( E \) may change it to another grade by passing a special examination or performing special work prescribed by the instructor, provided this is done in the semester following that for which the condition was given. However, no grade points (defined herein) are given for a course in which a condition was recorded. An \( I \) is given to a student who has failed to complete a small but important part of a semester's work before the semester grades are determined, if the instructor believes that failure was caused by conditions beyond the student's control and not by carelessness or procrastination. To receive credit for a course for which an \( I \) has been reported, the student must make up the incomplete work before the Thanksgiving or Easter recess of the semester following that for which the grade was given. If the work is not thus completed, the \( I \) will stand and the student will receive neither credits nor grade points in that course. If the work is completed, the instructor will report a semester grade, taking the completed work into consideration. Credits and grade points will then be computed as if a grade of \( D \) had not been previously recorded. Credit in a course for which an \( F \) is given may be obtained only by repeating the course and passing it.

Grades given in graduate courses are \( H \) (for honors), \( S \) (satisfactory), and \( U \) (unsatisfactory). The honors grade is awarded for exceptionally good work. Graduate students in undergraduate courses are graded on the undergraduate scale, \( A \) to \( F \).

**Grade points** are computed for all courses in which grades are reported, including Military Science, and Health and Physical Education. They are computed as follows: for each credit received in a course 4 grade points are granted if the grade is \( A \), 3 if the grade is \( B \), 2 if the grade is \( C \), and 1 if the grade is \( D \).
Students entering as undergraduates with advanced standing are not given grade points upon work done elsewhere; but on work done in the University of Hawaii such students must gain grade points in the same proportion to credit hours required for graduation as that demanded of other students.

Honors may be granted at graduation to undergraduates who have a grade-point average of 3.4 or above for their undergraduate work. At least sixty semester hours of the work of such honor students must have been obtained at the University during a period not exceeding six years before graduation.

Transfers to Other Institutions. Accredited American institutions of higher learning, including the University of Hawaii, give students who transfer credit toward graduation only in those subjects for which they have received a grade of C or better. (See "Tuition and Fees" for further information about transfers.)

Requirements for Advancement Toward Graduation

Scholastic accomplishment in the University of Hawaii is judged by comparing the number of grade points and credits earned with the registered credits, that is, with the number of credit hours for which a student is registered six weeks after the beginning of a semester.

Further registration is denied to the following classes of students:

1. Those who have failed to pass in any semester (or who were not passing when they withdrew from the University) in 50 per cent of their registered credits.

2. Those who have failed to earn after two semesters' attendance 1.5 times as many grade points as the total of their registered credits.

3. Those who are deficient in oral and written English after two semesters' attendance and who have less than a 2.0 grade-point ratio in other subjects. (This applies to students who entered in September, 1944, and thereafter.)

4. Those who have failed to earn after four semesters' attendance 1.8 times as many grade points as the total of their registered credits.

5. Those whose progress in oral English is unsatisfactory after four semesters of speech instruction.

At the direction of the Faculty Committee on Scholastic Standing, students may be warned in case they fail to pass in any semester in 75 per cent of their registered credits or to maintain a record showing twice as many grade points as total registered credits, and furthermore, may be placed on the grade-point rule, or denied further registration. The grade-point rule is a requirement that a student earn over a stated period of time twice as many grade points as credits for which he is registered, in other words, a C average. Failure to comply with the grade-point rule may result in refusal to permit further registration.

Ordinarily failure in the first semester of a year course bars the student from registering for the second semester of that course.

Warnings of low scholarship are given by instructors and deans, usually at the end of the first and second six-week periods of each semester, but the student should not assume that his work is of passing grade merely because he has not been warned. The University assumes no responsibility if a warning that has been mailed to a student fails to reach him.
Unless satisfactory arrangements have been made with the instructor in advance of the time of a final examination, absence from an examination subjects the student to a grade of zero in the examination, and this grade is taken into consideration in computing the semester grade of the student. When a term paper takes the place of a final examination, it must be submitted at the time stipulated by the instructor; otherwise the grade for the paper is regarded as zero and is so considered in computing the semester grade.

Regular attendance at class and laboratory sessions is expected. Unavoidable absence should be explained to the instructors concerned.

UNDERGRADUATE DEGREE REQUIREMENTS

CREDIT AND GRADE-POINT REQUIREMENTS. The minimum credit requirements for the baccalaureate (bachelor's) degree in all colleges are 130.

A minimum of 264 grade points is required for graduation from any of the three colleges. (Beginning with the class which entered in September, 1944, this requirement was changed to a 2.0 grade-point ratio for all registered credits except where a W or I was recorded.)

To receive a degree, after failure to graduate because of lack of grade points, a student must earn a specified number of grade points in courses approved by the dean of the college in which the student is registered. The number required is a minimum of thirty grade points in some one semester, or a minimum of fourteen grade points in a six-week summer session.

KINDS OF BACCALAUREATE DEGREES. Upon satisfactory completion of a regular program in the College of Applied Science and the College of Agriculture, a candidate is granted the degree of Bachelor of Science (B.S.); the diploma designates the particular program that has been pursued.

The degree of Bachelor of Arts (B.A.) is granted upon the satisfactory completion of a regular program in the College of Arts and Sciences.

Satisfactory completion of a regular program in Teachers College leads to the award of the degree of Bachelor of Education (B.Ed.). Holders of bachelor degrees who complete the Teachers College five-year program, by taking a year of additional work in Teachers College, are awarded five-year diplomas.

RESIDENCE REQUIREMENTS. The University grants baccalaureate degrees only to those students who earn a minimum of thirty semester hours in residence (that is, in class or laboratory work on the University of Hawaii campus) and who in addition do one of the following:

(1) take a minimum of fourteen credit hours a semester in the University during the two semesters just preceding the granting of the degree; or

(2) earn a minimum total of twenty-four residence credits during any four or five consecutive summer sessions just preceding the granting of the degree; or

(3) earn a minimum total of twenty-four residence credits by carrying not less than two credit hours per semester and six credit hours per summer in any three of four consecutive years just preceding the granting of the degree.

Not more than 25 per cent of the total credits earned at the University of Hawaii for a degree may be obtained in extension courses (courses offered off the campus);
and if the residence requirement conflicts with the extension allowance, the residence requirement takes precedence.

**TIME WITHIN WHICH WORK MUST BE COMPLETED.** All graduation requirements must be completed within ten years of the beginning of work in the University of Hawaii, except that students who were registered in the University prior to 1932 or who were previously registered in the Territorial Normal School have been given certain privileges.

**MEDICAL SCHOOL REQUIREMENTS**

Premedical students expecting to enter the University of Hawaii may apply for entrance to the College of Arts and Sciences. The program during the first two years is based upon the requirements of the American Medical Association.

Although medical schools generally have adopted the entrance requirements recommended by the American Medical Association, there is considerable variation in requirements among schools. Each prospective student of medicine should inform himself of the requirements of the institution at which he expects to enroll.

**AMERICAN MEDICAL ASSOCIATION ENTRANCE REQUIREMENTS**

**PREPARATORY SCHOOL.** A minimum of fifteen units, of which at least three must be in English, two in some one foreign language, two in mathematics (including algebra through quadratics), and one in history.

**UNIVERSITY.** A minimum of 60 credit hours as follows:

<table>
<thead>
<tr>
<th>Semester Hours</th>
<th>University of Hawaii Equivalent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry</td>
<td>Chemistry 103, 149 (4 credits), 230 (4 credits)</td>
</tr>
<tr>
<td>Physics</td>
<td>Physics 102</td>
</tr>
<tr>
<td>Biology</td>
<td>Zoology 100, 151, 261</td>
</tr>
<tr>
<td>English Composition</td>
<td>English 100 or 101</td>
</tr>
<tr>
<td>French, German, or Spanish</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total 45</td>
</tr>
</tbody>
</table>

Fifteen semester hours of electives from the following fields: botany, chemistry, economics, English, history, mathematics, psychology, sociology, and zoology.

**TUITION AND FEES**

Students registered for ten or more credit hours in any semester pay $50 for tuition and $10 for registration per semester. Students registered for fewer than ten credit hours in any semester pay $5.00 per credit hour. For summer session fees see the statement under "Summer Session."

Persons who register after the announced days of registration pay a late registration fee of $1.00.

All fees must be paid in full at the time of registration and no registration card will be finally accepted until it is endorsed showing payment.
Laboratory and special course fees are stated in the descriptions of courses. If the instructor feels it is justified, students may be charged for excessive breakage of equipment.

Students who take the college aptitude test pay a $1.00 fee at the time of examination.

Tuition and laboratory fees may be refunded to students who withdraw from courses, the percentage refunded to be in accordance with the following schedule:

Withdrawal during

<table>
<thead>
<tr>
<th>Period of Instruction</th>
<th>Percentage Refunded</th>
</tr>
</thead>
<tbody>
<tr>
<td>first two weeks</td>
<td>100%</td>
</tr>
<tr>
<td>third week</td>
<td>80%</td>
</tr>
<tr>
<td>fourth week</td>
<td>60%</td>
</tr>
<tr>
<td>fifth week</td>
<td>40%</td>
</tr>
<tr>
<td>sixth week</td>
<td>20%</td>
</tr>
<tr>
<td>seventh week</td>
<td>10%</td>
</tr>
<tr>
<td>remainder of semester</td>
<td>0%</td>
</tr>
</tbody>
</table>

In no case is the registration fee or any part of it refunded.

A fee of $2.00 is charged for each change in registration after the initial registration, unless such changes are due to reasons beyond the control of the student. This fee does not apply to complete withdrawals from the University.

A fee for diploma or certificate must be paid to the Business Office before any such diploma or certificate can be received by a student. For the five-year diploma, the certificate in social work, and the public health nursing certificate the fee is $2.50. For all other degrees and diplomas the fee is $5.00.

A graduate student receiving an advanced degree must pay, before the degree is awarded, a fee of $1.00 to defray the cost of binding two copies of his thesis.

Caps, gowns, and hoods for use in graduation ceremonies may be rented.

A student who requests the Registrar to send to another institution a record of his work here is not required to pay for the first copy, but he is charged $1.00 for each subsequent copy.

Steel book lockers for student use are situated in Hawaii Hall. The use of a locker for the first and second semesters may be obtained from the Business Office by paying $1.00, of which 50 cents will be refunded provided the key is returned before Commencement Day.

At the request of the Associated Students of the University of Hawaii (A.S.U.H.) and with the consent of the Board of Regents, the University Business Office collects certain student fees at the time tuition and registration fees are collected. These student fees are class dues of $1.00 a year and the A.S.U.H. annual membership fee for undergraduates taking ten or more semester hours. For other students the A.S.U.H. fee is optional. These fees are not collected for the Summer Session. Privileges that these fees purchase are described in the A.S.U.H. Handbook, which is available to all students.

**MILITARY TRAINING**

Instruction is offered in military science and tactics in accordance with the requirements stipulated by Congress in legislation relating to land-grant colleges. The basic (freshman and sophomore) courses in military science must be taken by every physically fit male student who is an American citizen, who is at least fourteen years of age, whose twenty-seventh birthday has not passed at the time of enrollment in the
University, who (1) is (or was at the time of entering the University) a Freshman or a Sophomore, or (2) is an unclassified student carrying more than nine credit hours of work and having fewer than sixty-four college credits. Military training in the junior and senior years is optional for selected students who have completed the basic courses, provided the number of such students does not exceed the quota authorized by the War Department. Completion of the four-year program leads to a commission in the Officers' Reserve Corps. Veterans with more than one year of service may receive credit for the basic courses, and are eligible for advanced training if approved by the Department of Military Science.

**HEALTH, PHYSICAL EDUCATION, AND SPORTS**

The University expects every student to safeguard his health and offers certain aids toward that end. Before entering the University, every new student must have a medical and physical examination by a reputable physician. The student makes his own arrangements and pays the physician. The University provides a form for the physician to use in reporting the examination. If subsequent examinations are needed, the University makes them in its infirmary without cost to the student.

At the infirmary a trained nurse is on duty throughout the day and a physician during certain hours. First-aid service is available to students suffering from minor ills and injuries; no charge is made for this service and no responsibility is assumed by the University. Any student who needs medical attention beyond that which the University can reasonably give should make his own arrangements with a physician.

The University also offers instruction in health and conducts a program of recreation and sports designed to promote the health of students. 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 in Health and Physical Education courses each semester (see "Health and Physical Education" under "Courses of Instruction"). All students are required to take Health and Physical Education 130, Personal Hygiene.

A student enrolled in a required course in Health and Physical Education and also participating in a varsity sport may be excused from attendance at the Health and Physical Education class during the season of that sport.

Intramural sports are planned with a view to serving the Health and Physical Education Department and to supplementing the regular courses offered.

Varsity sports are conducted independently of the activities of the Health and Physical Education Department. They are governed by a Board of Athletic Control, acting in cooperation with the University administration and the Faculty. This Board has seven members, three representing the Associated Students of the University of Hawaii, two the Alumni Association, and two the Faculty. The Board forms policies for intercollegiate athletics, drafts budgets, and makes contracts and other arrangements for contests between the University of Hawaii and other colleges and athletic groups.

*Although the University takes reasonable precautions, it assumes no responsibility for injuries received in sports or games.*
THE UNIVERSITY EXTENSION DIVISION

The University Extension Division provides non-credit courses on and off the campus, and credit courses off the campus at times and places convenient for the persons thus served. A program of correspondence courses carrying university credit is made available to those who cannot attend classes.

Visiting lecturers and resident faculty members are scheduled for public appearances on the campus, in Honolulu, and in outlying communities.

Admission to extension courses offering credit is governed by the rules that apply to admission to residence courses. Credits gained in University of Hawaii extension courses may be applied toward the bachelor's degree, but not more than 25 per cent of the total credits required to be earned in the University for the degree may be extension or correspondence credits; such credits are not counted as fulfilling the residence requirement. Credits earned in extension or correspondence courses will be accepted by mainland universities which accept the credits of member institutions of the National University Extension Association.

Non-credit courses are open to all adults who wish to enroll.

Announcements of extension courses and other forms of service are issued from time to time.

SUMMER SESSION

The 1947 Summer Session will be six weeks in length, and many of the courses required in the curriculums of the colleges will be offered. Student programs will be limited to a maximum of six credit hours. Tuition for the Summer Session is $5.00 per credit hour. No registration fee is charged. The Summer Session Announcement may be obtained from the Office of Publications and Publicity.

The University will offer a limited number of courses at a branch summer session on Guam.

STUDENT LIFE

The Associated Students of the University of Hawaii is a self-governing organization whose major objective is to promote and direct undergraduate extracurricular student activities and to cooperate with the University administration in student affairs. Its members include all regular students who pay A.S.U.H. fees. An elected council directs its activities. The A.S.U.H. Handbook describes the organization and functions in detail.

Among the activities in which the A.S.U.H. engages are athletics (football, baseball, track, basketball, swimming, and minor sports), debating, dramatics, a weekly newspaper (Ka Leo o Hawaii), and a yearbook (Ka Palapala).

Ka Leo o Hawaii and Ka Palapala are integral parts of the curriculum in journalism, and are to be regarded as workshops for students enrolled in English 120–121 (Newswriting) and English 222–223 (Publishing and Editing). Students are not eligible for positions on the editorial staffs of student publications unless they are taking or have taken at least one of the regular courses in journalism.
The University of Hawaii Theater Guild tries to present each year plays which give opportunities for participation and study to the maximum number of interested students of all races.

Student societies include some forty scholastic, honorary, professional, religious, and social organizations.

Student extracurricular life centers in Hemenway Hall. Student mail is distributed in this building.

The staff of the Office of Student Personnel assists students with such personal problems as those of residence, health, part-time employment, scholastic progress, social life, vocational guidance, and finance. In cooperation with the University Treasurer, arrangements are made for loans to students in good standing.

**LIVING ACCOMMODATIONS AND EXPENSES**

All possible assistance in locating suitable living accommodations is given to students by the Office of Student Personnel. The acute housing shortage, however, makes it impossible for the University to assure all students of living quarters.

Men students ordinarily may obtain comfortable lodgings at Atherton House, a dormitory adjoining the campus. Room rates range from $40 to $100 a semester. Further information concerning the accommodations may be obtained at Atherton House, P. O. Box 18, Honolulu 10, Hawaii.

Most residents of Atherton House take their meals at Hemenway Hall, where food is served cafeteria style at reasonable rates.

Thirty women students are housed at Hale Laulima, a cooperative women’s dormitory. The rent is $31.50 each semester, payable at the time of registration. Rent for a six-week summer session is $11. Each young woman shares a double room, assists in cooking and housekeeping, and shares living expenses, including the cost of food. Total current living expenses on this plan approximate $25 per person per month. Requests for assignment to Hale Laulima should be directed to the Counselor for Women.

Minimum expenses of the average student are estimated at from $600 to $750 a year for board, room, tuition, registration, course fees, class and student body fees, and books. Some students find low-cost living accommodations that enable them to reduce this figure to around $500. These estimates do not cover the cost of clothing, laundry, and other personal necessities.

Many students earn a small part of their expenses. A few very capable students succeed in meeting about 25 per cent of their expenses by doing part-time work.

**LOAN FUNDS**

Through the generosity of various organizations and individuals, certain funds have been provided from which worthy students may borrow—either in small amounts to meet emergencies or in larger sums in order to defer part of the payment of tuition costs until after graduation. A student wishing to make use of these funds should consult the dean of the college in which he is enrolled or the Dean of Student Per-
sonnel with respect to the proper procedure for application and the conditions which the various loans are granted. Loan funds include the following:

Alumni Student Aid Fund
Alumni Fund—Molokai Chapter
American Bankers Association Fund
American Legion Fund
Business and Professional Women’s Club Fund
Chinese Students’ Alliance Fund
Commerce Club Fund
Daughters of the American Revolution Student Fund of Hawaii
Dr. Ruth Alexander Student Fund
Emergency Fund
Future Farmers of America, Uniwai Chapter Fund
George H. Lamy Fund
Hawaiian University Association Fund

Helen Strong Carter Dental Fun.
Honolulu Civic Association Fun.
Inez Wheeler Westgate Fund
Japanese Students’ Alliance Fun.
Mary L. Kelsey Fund
Maui Women’s Club Fund
McKinley Scholarship Fund
Minnesota Club Fund
Moire Ross Health Fund
N.G.B. Fund
P.E.O. Sisterhood Fund
Representatives Club Fund
Rotary Club Fund
Senior Class Fund
Student Fund of Teachers College
Te Chih Sheh Fund

SCHOLARSHIPS

A number of persons and organizations, and the Territorial Legislature have donated or granted that enable the University to offer assistance to students in the form of scholarships. Scholarship awards are made by the faculty Scholarship Committee or upon the recommendation of other agencies. In general, scholarship awards are made on the basis of (1) scholastic achievement as demonstrated by grade records, (2) promise of success as judged by recommendations and aptitude test scores, (3) character, and (4) financial need. A scholarship award implies 100% achievement. Unless otherwise specified all scholarships are awarded annually and may be withdrawn from individuals if a good standard of scholastic work is not maintained.

A person who wishes to receive a University of Hawaii scholarship should apply to the Scholarship Committee, University of Hawaii, Honolulu 10, Hawaii.

The following list segregates scholarships according to their principal character and the conditions under which they are awarded:

GENERAL SCHOLARSHIPS. (1) Open to men and women: (a) Honolulu Association, amount varies from year to year; (b) Mary Dillingham Pear, not exceeding $150, awarded to a meritorious student; (c) The Elks of Honolulu, Lodge No. the Benevolent and Protective Order of Elks, two scholarships of $120 each, one man and one for a woman, final selection of recipients is made by a committee of the Lodge; (2) open only to men: (a) Stephen Spaulding, the income of an estate of $2,500, given by Florence Tucker Spaulding in memory of her son, Spaulding, ex-27, awarded as a scholarship to a male student; (3) open to women: (a) Leora Parmelee Dean, the sum of $100 awarded by the Women’s Campus of the University to a deserving and needy young woman; application for this scholarship should be addressed to the chairman of the scholarship committee of the Campus;

(b) Ruth C. Scudder Memorial Scholarship, a scholarship awarded to a deserving nonresident student from a memorial fund maintained by the Church Unit of the Women’s Auxiliary of Central Union Church.

SCHOLARSHIPS IN SPECIFIC FIELDS OF STUDY. (1) Open to men and women: (a) Sugar Planters’ Association, five scholarships of $150 each; these are held for years and are open to students majoring in Agriculture; recipients are selected by the H.S.P.A.; (b) Edison B. K. Tan Memorial, a scholarship in honor of the late Dr. K. Tan, open to students of Filipino ancestry who wish to study in the Prearchitectural curriculum; (c) Elizabeth L. Eaton, six scholarships of $150 each, awarded annually to students of Filipino ancestry and of good scholastic standing; (d) Korean American Cultural Association, $2,500 to be used in maintaining an annual scholarship of $150 for either a Korean or an American of Korean ancestry; (e) Korean National Association of Hawaii, a scholarship of $100 awarded annually to one or two students of Korean ancestry and of good scholastic standing, one to an entering freshman and one to an upperclassman; (f) Japanese Students’ Alliance, a general scholarship fund maintained by the Japanese Students’ Alliance; (g) Pilipino Women’s Club, International House, Y.W.C.A., two scholarships of $25 each given to students of Pilipino ancestry and of good scholastic standing, one to an entering Freshman and one to an upperclassman; (h) Korean American Cultural Association, $2,500 to be used in maintaining an annual scholarship of $150 for either a Korean or an American of Korean ancestry; the recipient is required to assist the University in collecting and maintaining a Korean collection in the University Library; (i) American Legion, a scholarship of $100 awarded annually to one or two students of Korean ancestry above freshman standing; (j) Chinese University Women, a scholarship of $50 awarded to a deserving and needy woman student of Chinese ancestry above freshman standing; (k) Chinese Women’s Club, a scholarship of $50 awarded to a deserving and needy woman of Chinese ancestry above freshman standing.

TERRITORIAL. Open to men and women: six scholarships of $120 each awarded equally to entering Freshmen, one for each representative district in the Territory of Hawaii, to a resident of that district, to be held four years if the beneficiaries maintain a satisfactory standard of scholarship and conduct.

PEPSI-COLA SCHOLARSHIPS. Four-year college scholarships for students throughout the United States, Alaska, Hawaii, and Puerto Rico. Each scholarship pays full tuition and required fees for four years, plus an allowance of $25 a month during
the school year, and a travel allowance. One hundred and twenty-one scholarships are awarded each year and are allotted on a regional basis. Winners select their own colleges. Information regarding these scholarships may be obtained from high school principals or directly from the Pepsi-Cola Scholarship Board, 532 Emerson Street, Palo Alto, California.

PRIZES AND AWARDS

DEAN PRIZE FOR UNDERGRADUATE RESEARCH. In 1927 the Faculty of the University, in honor of Dr. Arthur Lyman Dean, resigning President, established a fund to be known as the Dean Prize Fund, the proceeds to be used in stimulating interest in undergraduate research. Any Senior in the University may compete for this prize of not less than $25 nor more than $50 each year by presenting to the Dean Prize Committee a thesis in which he reports fully upon his research in any field of intellectual endeavor. The committee, appointed by the President, selects the thesis which in its judgment is the best example of originality, independence, logic, and form of presentation. The winning paper is placed in the Hawaiian Room of the Library.

BANKS MEMORIAL PRIZE. The Charles Eugene Banks Memorial Prize, the income from a $500 endowment, is awarded each year to the student whose manuscript is judged to be the best received in a creative writing contest.

HAWAIIAN SECTION OF THE AMERICAN CHEMICAL SOCIETY PRIZE. A one-year student membership in the American Chemical Society is awarded each year to the most outstanding Senior majoring in Chemistry. The name of the winner is engraved on a bronze plaque in Gartley Hall.

PHI BETA KAPPA RECOGNITION AWARD. This is an award made by the Phi Beta Kappa Association of Hawaii in recognition of high scholastic standing among Seniors.

PHI KAPPA PHI PRIZE. The Hawaii chapter of Phi·Kappa Phi honor society awards a $20 cash prize to the Senior who graduates with the highest scholastic record in his class.

BEST SOLDIER AWARDS. Since 1924 the Honolulu Star-Bulletin has sponsored a Best Soldier competition in which gold, silver, and bronze medals are awarded each year to the three most outstanding freshman and sophomore members of the Reserve Officers' Training Corps. Judgment is based on scholastic standing in the study of military science as well as on military performance.

REAL DEANS AWARDS OF HONOR. The Associated Students of the University of Hawaii annually awards medals to students who, in the opinion of fellow students, have given time and effort willingly, untiringly, and without thought of reward to the promotion of A.S.U.H. activities.

BERNDT PRIZES FOR EXTEMPORANEOUS PUBLIC SPEAKING. The Associated Students of the University of Hawaii annually awards medals to the students judged best in an extemporaneous speaking contest.

UNIVERSITY ORATORY PRIZES. The Associated Students of the University of Hawaii annually awards medals to the students judged best in an oratorical competition.
PRIZES AND AWARDS

THEATER GUILD DICTION AWARDS. The University of Hawaii Theater Guild annually awards a medal to the student actor in each of its productions whose diction is judged best.

WARRIOR OF THE PACIFIC TROPHY. Since 1928 the United States War Department has supervised an annual rifle marksmanship competition among Reserve Officers' Training Corps infantry units in American universities and colleges for the possession of a bronze statuette of a native Hawaiian soldier. Residents of Hawaii offered the trophy for the competition.
In keeping with the liberal arts tradition, the College of Arts and Sciences aims to give a comprehensive acquaintance with those fields of thought and achievement upon which our present civilization is based, with the objective of developing in its students those ideals, interests, and attitudes characteristic of cultured people, and the ability to think intelligently.

Certain combinations of courses provide preprofessional preparation for such activities as business, dentistry, law, medicine, and social work. The four-year programs lead to the Bachelor of Arts degree.

Because of its geographical position, midway between continental America and the Far East, Hawaii should understand the Orient as well as the Occident. Therefore, more than usual attention is given to the history, languages, literature, and philosophy of the lands bordering upon the Pacific Ocean.

**ADMISSION**

The requirements for admission are the same as those for admission to the University as a whole.

Each Freshman in the College is admitted to one of the following groups, the selection depending upon his interests: Social Sciences; Languages, Literature, and Art; Biological and Physical Sciences; Economics and Business.

**DEGREE REQUIREMENTS**

To be entitled to the Bachelor of Arts degree from this college a student must:

1. meet certain basic requirements of the first two years;
2. complete a major of 24 semester hours, and a minor of 12 semester hours;
3. have at least 50 semester hours of credit in other than introductory courses;
4. have an aggregate of at least 130 semester hours of credit (beginning with the class entering in September, 1946); and
5. have an aggregate of at least 264 grade points (see "Undergraduate Degree Requirements").

**CURRICULUMS**

The curriculums of the College of Arts and Sciences center around the major fields of concentration. All students must meet certain basic requirements of the first two years, and complete a major and minor during the last two years. These requirements, plus certain electives, constitute a curriculum in each case. A major comprises twenty-four semester hours in some one field of concentration (see "Majors"); and a minor, twelve semester hours. The minor must be in a field other than that of the major.

The major must be indicated by the beginning of the third year, but since many departments have certain preferences in regard to the program of the second year, it is strongly advised that the major be selected by the beginning of the second year if possible.
### BASIC REQUIREMENTS

<table>
<thead>
<tr>
<th>First Year</th>
<th>Second Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 100 or 101</td>
<td>English 150</td>
</tr>
<tr>
<td>Foreign language</td>
<td>Foreign language</td>
</tr>
<tr>
<td>Health and Physical Education 101</td>
<td>Government 150*</td>
</tr>
<tr>
<td>and 102</td>
<td>Health and Physical Education 103 and 130</td>
</tr>
<tr>
<td>History 100</td>
<td>History 110</td>
</tr>
<tr>
<td>Military Science</td>
<td>Military Science</td>
</tr>
</tbody>
</table>

In addition, at least four of the following courses must be completed: Anthropology 150,* Economics 140 or 150-151, Philosophy 150, Psychology 150, Religion 150, Sociology 151.*

### MAJORS

Because of limitations in the number of courses offered, it is not possible to major in all departments. The following list comprises the major subjects at this time:

- Anthropology
- French
- Philosophy
- Art
- German
- Physics
- Bacteriology
- Government
- Psychology
- Botany
- History
- Religion
- Business
- Japanese
- Sociology
- Chemistry
- Literature
- Speech
- Chinese
- Mathematics
- Zoology
- Economics
- Music

Students expecting to major in Literature (Department of English) are advised to satisfy the language requirement by French, German, or Spanish.

### MINORS

Minors are permissible in any of the major subjects and in Composition, Geology, Hawaiian, Latin, and Spanish.

The chairman of the major department should be consulted before the final choice of a minor is made.

### PREPROFESSIONAL PREPARATION

The following programs are recommended as offering desirable preprofessional preparation in the various fields. They are suggested rather than required, as variations are often necessary in order to meet the needs of certain students or the requirements of certain professional schools.

#### PRELEGAL PROGRAM

It is expected that all prelegal students will major in Economics, Government, or History. The basic requirements of the first two years are the same in each case, and student programs will be governed accordingly. Chemistry 103 is recommended for the science requirement of the first year.

The work of the last two years is largely elective, but the following courses are strongly advised: Business 150-151, 250-251, Economics 256, 257, 261, English 130, Government 282, History 211, 252, Psychology 250, 295.

* May be taken in the first year.
PREMEDICAL PROGRAM

**First Year**
- Chemistry 103
- English 100 or 101
- French 100 or German 100
- Health and Physical Education 101 and 102
- Mathematics 149, 150; or 130
- History 100
- Zoology 100, 151

**Second Year**
- Chemistry 149
- English 150
- French 101 or German 101 or 102
- Government 150 and 130
- Health and Physical Education 103
- History 110
- Military Science
- Physics 102

This program meets medical school requirements as outlined by the American Medical Association (see p. 33), and also most of the basic requirements of the College of Arts and Sciences. Completion of the further required work of the College entitles the student to the Bachelor of Arts degree. This arrangement of courses is suggestive rather than arbitrary and it may be altered to meet the preparation or needs of the student.

Predental students follow this program with such modifications as are necessary to satisfy dental school requirements.

PRESOCIAL WORK PROGRAM


Intention of preparing for Social Work should be indicated by the beginning of the junior year.

PUBLIC ADMINISTRATION PROGRAM

Students expecting to enter the field of Public Administration may major in any of the Social Sciences, but it is recommended that they major in Business, Economics, or Government, as these fields are more directly concerned with governmental activities.

In order to insure an adequate background of preparation the following specific courses are required: Business 263, 282, Economics 150-151, 261, Geography 262, Government 150, 254, 270, 284, History 242-243, 252, Philosophy 150, Psychology 150, Sociology 151.
COLLEGE OF APPLIED SCIENCE

The College of Applied Science offers curriculums in Engineering, Medical Technology, Nursing Administration and Education, and Public Health Nursing. These curriculums lead to the degree of Bachelor of Science. The first two years of an architecture program are offered. A special one-year program leads to a certificate in Public Health Nursing.

ADMISSION

The requirements for admission to this college are, in general, the same as those for admission to the University as a whole, but some of the curriculums require additional preparation. (See pp. 27–28.) Students who are lacking some of this required special preparation are unable to follow the regular programs and usually need more than four years to complete the degree requirements.

DEGREE REQUIREMENTS

In order to be eligible for the Bachelor of Science degree from this college a student must:

1. meet certain basic requirements of the first two years;
2. complete the required courses of each curriculum;
3. have at least 50 semester hours of credit in other than introductory courses;
4. have an aggregate of at least 130 semester hours of credit; and
5. have an aggregate of at least 264 grade points (see "Undergraduate Degree Requirements").

CURRICULUMS

Certain basic requirements of the first two years are common to all curriculums. They are as follows:

**FIRST YEAR**
- Chemistry 100 or 103
- English 100 or 101
- Health and Physical Education 101 and 102
- Military Science

**SECOND YEAR**
- English 150
- Health and Physical Education 103 and 130
- History 110
- Military Science

Additional requirements are stated for each curriculum.

ENGINEERING CURRICULUM

The program in Engineering is designed to give training in the fundamental principles upon which professional engineering practice is based.

During the first two years the general plan provides a broad foundation in English, mathematics, chemistry, physics, and mechanical drawing.
The work of the last two years is more technical and professional, and is so arranged that a student may elect work that later leads to specialization in either chemical or civil engineering. The electives depend upon the interest of the student and must be so chosen that they make up a well-coordinated program.

**ADDITIONAL REQUIRED COURSES**

**FIRST YEAR**
- Civil Engineering 101
- Mathematics 151, 152, 153, 156
- Mechanical Drawing 101

**SECOND YEAR**
- Civil Engineering 151, 153
- Economics 150-151
- Mathematics 154, 155
- Mechanical Drawing 152
- Physics 104

**THIRD YEAR**
- Civil Engineering 227, 252, 253, 255
- Mechanical Engineering 202, 203
- Physics 275

**FOURTH YEAR**
- Business 160-161
- Civil Engineering 276, 277, 279
- Mechanical Engineering 282
- Physics 202

**SUGGESTED ELECTIVES**

**THIRD YEAR**
- Chemistry 149, 150
- Geology 150, 151
- Government or History
- Mathematics 252-253 or 254-255

**FOURTH YEAR**
- Business 263
- Chemistry 230
- Civil Engineering 229, 231
- Mathematics 252-253 or 254-255

**PREARCHITECTURAL PROGRAM**

The first two years of an Architectural curriculum are offered. Students intending to take a degree in Architecture must transfer to another institution at the beginning of the junior year.

**ADDITIONAL REQUIRED COURSES**

**FIRST YEAR**
- Architectural Engineering 101
- Art 154-155
- Mathematics 151, 152
- Mechanical Drawing 103

**SECOND YEAR**
- Architectural Engineering 102
- Mathematics 153, 154
- Mechanical Drawing 152, 153
- Physics 102*

**MEDICAL TECHNOLOGY PROGRAM**

**FIRST YEAR**
- Chemistry 103
- English 100 or 101
- Health and Physical Education 101 and 102
- Zoology 100, 151

**SECOND YEAR**
- Bacteriology 151
- Chemistry 149, 150
- English 150
- Health and Physical Education 103 and 130
- History 110

* Replaces Chemistry 103.
CURRICULUMS

THIRD YEAR

Bacteriology 260, 262, 264
Chemistry 230, 266
Zoology 191, 260, 262, 266

SUGGESTED ELECTIVES

Anthropology 150
Economics 150-151
Physics 102
Sociology 151
Zoology 253, 261, 265, 285

FOURTH YEAR

During the fourth year, or the summer session preceding the fourth year, the student attends certain special classes at the University (Medical Technology 266). In order to meet the requirement for certification as a medical technologist, at least twelve months must be spent as a student technician in training, working in one of the cooperating laboratories in the city.

NURSING CURRICULUM

The program in Nursing leads to the Bachelor of Science degree in Nursing, with a major either in Nursing Administration and Education or in Public Health Nursing, and requires three years of university work in addition to graduation from a school of nursing. Thirty credits are allowed for the work in an approved school of nursing. Admission to this program requires: (1) completion of an approved secondary school or the equivalent; (2) a satisfactory rating in the University of Hawaii entrance examinations; (3) graduation from an approved school of nursing with a satisfactory record; (4) registration as a nurse in the state, territory, or foreign country in which the training was obtained; (5) personal and professional fitness for nursing as shown by credentials, personal interviews, and tests; and (6) good health as evidenced by a physical examination satisfactory to the University of Hawaii.

ADDITIONAL REQUIRED COURSES

NURSING ADMINISTRATION AND EDUCATION

Anthropology 150 or Sociology 151
Bacteriology 151, 156
Economics 140
Household Science 150, 156
Nursing 250, 251, 252, 253, 255, 256, 261, 262, 265, 282
Philosophy 150
Psychology 150, 292

These courses, other than nursing, may be taken before entering a school of nursing.

PUBLIC HEALTH NURSING

Anthropology 150 or Sociology 151
Bacteriology 151, 156
Economics 140
Education 340
Household Science 150, 156, 270 or 273
Nursing 271, 280, 281, 282, 290, 291
Philosophy 150
Psychology 150, 292, 351

SUGGESTED ELECTIVES

Bacteriology 156
Foreign language
History 100
Mathematics 149, 150; or 150, 151

SUGGESTED ELECTIVES

Anthropology 150
Philosophy 150
Foreign language
Psychology 150
Government 150
Sociology 151
ONE-YEAR PROGRAM IN PUBLIC HEALTH NURSING

With the cooperation of the Territorial Board of Health and other community agencies, the University of Hawaii offers a one-year program in Public Health Nursing. Classroom work occupies the first semester. During the second semester students take part in the Public Health Nursing program of cooperating agencies.

Students who complete the required program with an average grade of C or higher receive a certificate in Public Health Nursing.

The required courses are: Household Science 270 or 273; Nursing 271, 280, 281, 282, 283, 290, 291; and Psychology 292.
The College of Agriculture prepares students for professional work in the fields of Agriculture and Home Economics. The curriculums provide for basic training in agricultural science, tropical crop production, and vocational agriculture. Three curriculums are offered in Home Economics: General Home Economics, Institutional Management and Dietetics, and Vocational Home Economics Teaching. All curriculums in the College of Agriculture lead to the Bachelor of Science degree.

**ADMISSION**

The requirements for admission to this college are, in general, the same as those for admission to the University as a whole. Students who are lacking some of this required preparation are unable to follow the regular programs and usually need more than four years to complete the degree requirements.

**DEGREE REQUIREMENTS**

In order to be eligible for the Bachelor of Science degree from this college a student must meet the "Degree Requirements" listed on page 45.

**CURRICULUMS**

Certain basic requirements of the first two years are common to all curriculums. They are as follows:

<table>
<thead>
<tr>
<th>First Year</th>
<th>Second Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 100 or 103</td>
<td>English 150</td>
</tr>
<tr>
<td>English 100 or 101</td>
<td>Health and Physical</td>
</tr>
<tr>
<td>Health and Physical</td>
<td>Education 103 and 130</td>
</tr>
<tr>
<td>Education 101 and 102</td>
<td>History 110</td>
</tr>
<tr>
<td>Military Science</td>
<td>Military Science</td>
</tr>
</tbody>
</table>

Additional requirements are stated for each curriculum.

**AGRICULTURAL CURRICULUM**

The program in Agriculture is designed to give the student a knowledge of the fundamental principles underlying agriculture as a science, and to prepare him for effective service in practical farming, teaching of agriculture, or research. The program is broadly conceived to give a background not only in the biological and physical sciences, but in the social sciences as well.

Students interested in Agricultural Engineering may, with approval of the Dean, substitute certain courses in Engineering, Mathematics, and Physics for some of the required courses in Agriculture.
ADDITIONAL REQUIRED COURSES

**FIRST YEAR**
- Agriculture 100, 151, 152
- Botany 100, Zoology 100
- Mathematics 149, 150; or 150, 151

**SECOND YEAR**
- Agriculture 162 or 164
- Bacteriology 151
- Botany 173
- Physics 102
- Zoology 170, 273

**THIRD YEAR**
- Agriculture 162 or 164, 250, 254, 256

**FOURTH YEAR**
- Agriculture 295

TROPICAL CROP PRODUCTION

Specialized work in the methods of crop production in the tropics is provided in a two-year program designed for the junior and senior years. Particular attention is given to the relationships between climate, soils, fertilizer needs, and crop adaptability in the tropics. Provisions for studying the mechanization of farm operations on a plantation scale are provided. In plant pathology, genetics, and plant breeding, most illustrative material is drawn from tropical plants of economic importance.

Admission to this program is based upon a study of the applicant's record. Juniors in the University of Hawaii should have completed the required courses of the first two years in the Agricultural curriculum. Comparable preparation is expected of candidates from other schools, although considerable latitude is provided. A comprehensive examination may be required for admission.

ADDITIONAL REQUIRED COURSES

**THIRD YEAR**
- Agriculture 250, 254, 291
- Botany 158, 263
- Chemistry 150
- Zoology 170, 278

**FOURTH YEAR**
- Agriculture 267, 268, 281, 282
- Botany 273, 274, 275, 276
- Business 263
- Chemistry 230
- English 210

Courses in Applied Statistics, Tropical Crop Production, and Tropical Animal Production will also be offered.

The summer between the third and fourth years will be spent in field work concerned with the production of sugar, pineapples, or other extensive field crops. This summer practice is an integral part of the program.

HOME ECONOMICS CURRICULUM

A general basic curriculum in Home Economics is offered. In addition, certain special courses are given as preparation for institutional management, hospital dietetics, and vocational home economics teaching.

Students who expect to teach must complete the four-year program in Vocational Home Economics and the fifth-year work of Teachers College.

Home Economics Freshmen intending to major in Institutional Management or Dietetics are required to take Chemistry 103. All others take Chemistry 100.
ADDITIONAL REQUIRED COURSES

GENERAL HOME ECONOMICS

**FIRST YEAR**
- Art 150–151
- Home Economics 100
- Household Art 110, 150, 151
- Household Science 150
- Speech 100, 101

**SECOND YEAR**
- Bacteriology 156
- Economics 140 or 150, 151
- Home Economics 101, 201
- Household Art 111
- Household Science 102
- Sociology 151
- Zoology 110

**THIRD YEAR**
- Art 171
- Home Economics 250, 252, 253
- Household Art 114
- Household Science 200 or 272
- Psychology 150

**FOURTH YEAR**
- Home Economics 262, 291

INSTITUTIONAL MANAGEMENT AND DIETETICS

**FIRST YEAR**
- Art 150–151
- Home Economics 100
- Household Art 110, 150, 151
- Household Science 150
- Speech 100, 101

**SECOND YEAR**
- Bacteriology 156
- Chemistry 159
- Economics 140 or 150, 151
- Home Economics 101, 201
- Household Science 102
- Sociology 151
- Speech 102, 103
- Zoology 110

**THIRD YEAR**
- Art 171
- Chemistry 220
- Home Economics 250, 252, 253
- Household Science 200 or 272, 260, 261, 263, 265
- Psychology 150

**FOURTH YEAR**
- Home Economics 251, 262, 291
- Household Science 250, 266

VOCATIONAL HOME ECONOMICS TEACHING

**FIRST YEAR**
- Art 150–151
- Home Economics 100
- Household Art 100, 150, 151
- Household Science 150
- Speech 100, 101

**SECOND YEAR**
- Bacteriology 156
- Economics 140 or 150, 151
- Home Economics 101, 201
- Household Art 111
- Household Science 102
- Sociology 151
- Speech 102, 103
- Zoology 110

**THIRD YEAR**
- Art 171
- Education 235, 250, 251
- Home Economics 250, 251, 252, 253
- Household Art 114
- Household Science 200 or 272
- Psychology 273
- Speech 230, 231

**FOURTH YEAR**
- Education 253, 256
- Home Economics 262, 291
- Household Science 273
- Psychology 292
- Sociology 251 or 256
- Speech 222
The function of Teachers College is to prepare teachers for the public schools of Hawaii and to afford those already in service an opportunity to improve themselves professionally. Standard preparation for teaching positions in the public schools of the Territory requires four years of undergraduate work and a graduate year. The four-year program leads to the Bachelor of Education degree, and the year of graduate work to the five-year diploma. Admission to the fifth year requires professional preparation equivalent to that represented by the Bachelor of Education degree, or the Bachelor of Science degree in Vocational Education. (See "Vocational Education."

**ADMISSION**

In addition to the general University admission requirements, students admitted to Teachers College must meet certain standards of health, personality, and oral English.

**DEGREE REQUIREMENTS**

To be eligible for the Bachelor of Education degree from this College, a student must:

1. have an aggregate of at least 130 semester hours of credit;
2. have an aggregate of at least 264 grade points (see "Undergraduate Degree Requirements");
3. complete one of the five curriculums; and
4. meet the following specific requirements (except in the Dental Hygiene and Recreation and Physical Education curriculums. See pp. 55–57.):

<table>
<thead>
<tr>
<th>Subject</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Participation and Practice Teaching</td>
<td>12</td>
</tr>
<tr>
<td>Other Education courses</td>
<td>14</td>
</tr>
<tr>
<td>Psychology</td>
<td>10</td>
</tr>
<tr>
<td>Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>English</td>
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CURRICULUMS

The curriculums are virtually identical for the first two years, but some variation is allowed in electives.

During the third year students are introduced to the professional information and background necessary for public school service.

The fourth-year program consists largely of professional education. One semester is devoted to practice teaching and allied educational courses; the offsetting semester provides opportunity for other needed professional course experiences. While one group of students carries the practice-teaching work, the other carries the courses of the offsetting semester. A modification in this procedure is made for students specializing in Dental Hygiene and in Recreation and Physical Education. In the Dental Hygiene curriculum the clinical practice, corresponding to practice teaching and representing about one-third of the senior load, is spread over the full year.

BASIC REQUIREMENTS FOR ALL STUDENTS*

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<tr>
<th></th>
<th>FIRST SEMESTER</th>
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<th>SEMESTER HOURS</th>
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Total ..........17 or 18

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Total ..........18 or 20

* Except those enrolled in the Dental Hygiene and the Recreation and Physical Education curriculums.

† Students expecting to prepare to teach Mathematics may postpone this course.

‡ Students expecting to prepare to teach on the elementary level will take Art 150-151.

§ Students in the Secondary curriculum may be advised to substitute other courses.
## PRESCHOOL-PRIMARY CURRICULUM

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## ELEMENTARY CURRICULUM

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<td>Music 251</td>
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### SECONDARY CURRICULUM

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<td>Health and Physical Education 230</td>
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<td>Sociology 250</td>
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Total: 18

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Total: 18

#### THIRD YEAR

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Total: 18

#### FOURTH YEAR

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<td>Education 255</td>
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<td>Education 258</td>
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<td>English 100 or 101</td>
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<td>Health and Physical Education 102</td>
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<td>History 100</td>
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Total: 18

### DENTAL HYGIENE CURRICULUM

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<td>History 100</td>
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<td>Speech 100</td>
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<td>Electives</td>
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Total: 17

* As advised to meet teaching field requirements. In general, two teaching field concentrations are required, although in a few cases a student may, upon advice, take additional work in one field, such as Music. The University offers facilities for meeting teaching field requirements in English, Social Studies, Mathematics, Science, Music, Physical Education, Commercial Education, Speech, and Library Science. The student who elects Secondary Education should confer with his adviser before registration day to be sure that his program includes the subjects appropriate to the teaching field concentrations he has chosen.
### First Semester

<table>
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<td>Psychology 150</td>
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### Second Semester

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<td>Government 150</td>
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<td>103 or 130</td>
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### Second Year

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<td>Education 285</td>
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<td>Household Science 272</td>
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<td>Speech 230</td>
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<td>Zoology 191</td>
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### Third Year

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### Recreation and Physical Education Curriculum

### First Year

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### Second Year

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# REQUIREMENTS FOR THE FIVE-YEAR DIPLOMA

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<td>Speech 230</td>
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<td>Education 261</td>
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<td>Health and Physical Education 232..</td>
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<td>Psychology 292</td>
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<td>Electives</td>
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**REQUIREMENTS FOR THE FIVE-YEAR DIPLOMA**

The fifth-year work consists of two parts: (1) one semester of intern teaching under supervision in a public school, and (2) one semester of required and elective course work. The class is divided into two groups, one of which carries the academic program while the other does the intern teaching.
### COURSES AND CREDITS REQUIRED OF FIFTH-YEAR STUDENTS

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<th>COURSE</th>
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<td>Psychology 351</td>
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<td>Electives*</td>
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Total 16

**LABORATORY SCHOOLS**

Practical experience in teaching is given in Teachers College laboratory schools. These schools also serve as experimental laboratories. In order to insure a rich experience for the children enrolled and to set a high standard of achievement for the student teachers, conditions are made as nearly ideal as possible, with small classes, selected children, excellent quarters and equipment, and a strong supervising staff assisted by specialists in art, health, library science, physical education, music, and gardening. Clinical facilities are provided on the campus for practical experience in dental prophylaxis.

Observation-participation experience in the third year and probationary or intern teaching in the fifth year are provided in selected public schools under the joint supervision of Teachers College and the Department of Public Instruction, and in the Preschool-Primary unit.

**VOCATIONAL EDUCATION**

Prospective Vocational Agriculture and Home Economics teachers obtain their undergraduate preparation in the College of Agriculture (see "College of Agriculture"). Basic professional education courses and practice teaching are required. Selective standards, including those in English, used in Teachers College apply to prospective vocational teachers. Students in these divisions will register in Teachers College for the fifth (graduate) year. For the work of this year see "Requirements for the Five-Year Diploma."

* Dental hygienists take Bacteriology 260, and students in Recreation and Physical Education take additional courses in Health and Physical Education.

† Dental hygienists take Dental Hygiene 354 instead of Education 354.
GRADUATE DIVISION

Graduate study in the University is under the supervision of a Committee on Graduate Study, which serves to coordinate advanced work in the various colleges. The chairman of this Committee should be consulted concerning programs of study. This regulation applies to all students with bachelor degrees from accredited institutions of higher learning, including candidates for advanced degrees, candidates for advanced teaching certificates, candidates for a certificate in social work, and graduate students taking work to be applied toward advanced degrees at other institutions.

THE MASTER'S DEGREE

The University awards three master's degrees: Master of Arts, Master of Science, and Master of Education.

REQUIREMENTS. The minimum period of residence is one academic year or four six-week summer sessions.

Thirty semester hours of graduate study are required for the master's degree. All work connected with the thesis must be registered for as thesis research (course number 400 in each major field). For thesis research the usual credit allowance is six hours, but a greater number may be allowed in the natural and physical sciences. At least six credits toward the master's degree must be earned in courses primarily for graduate students (300-399). The remaining credits may be earned in courses numbered 200-299, but additional work must be done in such courses and a grade of A or B must be earned. All of the courses taken by the candidate should be in his major field of interest or in one or two closely allied fields. Candidates for the Master of Education degree are restricted to one minor of six to ten credits. A reading knowledge of a foreign language is required in certain fields and, at the discretion of the qualifying committee, may be required of a candidate in any field.

Graduate work completed at other institutions may be accepted as fulfilling part of the requirements for the master's degree. The maximum amount ordinarily accepted is eight semester hours.

No credits earned in extension courses may be counted toward an advanced degree.

No credit is granted in thesis research courses (number 400 in each field) until the thesis has been accepted. Failure to make satisfactory progress on a thesis is not a basis for valid claim to a refund of tuition fees.

ADMISSION TO CANDIDACY. Admission to candidacy for the master's degree is granted only after a committee representing the special field in which a candidate proposes to work for an advanced degree is satisfied as to the adequacy of his preparation and his probable ability to pursue graduate work successfully.

No student will be considered for admission to candidacy for an advanced degree unless he can meet the following requirements:

(1) An ability to use written English effectively as demonstrated by grades in undergraduate courses in English composition or by a special examination conducted by the University English Department.
(2) An adequate undergraduate background in the major and minor fields in which the master's degree is to be taken.

(3) A good undergraduate scholastic record, with a grade of B or better in undergraduate courses in the major field or an average grade of at least B in all courses carried in the junior and senior years.

Candidates for advanced degrees failing to complete successfully two or more courses taken after admission to candidacy are automatically dropped from candidacy.

The Thesis. A thesis is required of all candidates for the master's degree. The thesis topic should be within the field of the major. It must be written in acceptable English and show evidence of ability to conduct research intelligently and to arrive at logical conclusions. The topic must be approved by the committee which admits the student to candidacy and by the Committee on Graduate Study. Only after this approval has been granted and the candidate has registered for the thesis research course is a committee appointed to supervise the preparation of the thesis. A candidate expecting to receive a master's degree in June must notify the chairman of the Committee on Graduate Study not later than the beginning of the second semester and must submit copies of the completed thesis to the members of his committee for final checking by May 15.

The Final Examination. Arrangements for the final examination should be made at least six weeks prior to the end of the semester or summer session in which the candidate expects to receive the degree. The examination is conducted by the members of the candidate's advisory committee and any other persons especially designated. It is open to all faculty members. The examination is on the thesis, but may cover any fundamental knowledge required for the research work or necessary to the conclusions reached. If the results of the examination are satisfactory, a typewritten and a carbon copy of the thesis, both signed by the members of the examining committee, must be deposited in the Library to become the permanent property of the University. A fee for the binding of both copies must be paid to the University Business Office.

The Teacher's Professional Certificate

The Department of Public Instruction of the Territory of Hawaii grants the Professional Certificate to teachers in the employ of the Department who complete the following work: a total of thirty semester hours of graduate work, ten of which must be earned in courses primarily for graduates (300 to 399), including Philosophy of Education, History of Education, Advanced Educational Psychology, and Educational Administration.

The School of Social Work

Admission. Admission to the one-year program of Social Work is limited to graduate students selected by a committee of the faculty and representatives of cooperating social agencies. Students are expected to have completed a minimum of thirty semester hours of Social Science, including at least five semester hours in each of the following fields: Economics, Government, Psychology, and Sociology; and twelve semester hours in some one of these fields; or equivalents approved by the Director of the program. Upon completion of the program of work, students are awarded a Certificate in Social Work. The University offers Juniors and Seniors an
orientation course in Social Work, and it is expected that students entering the School of Social Work from this University will have taken this course. Those who have not had such course, or its equivalent, must audit it concurrently.

Applicants for admission to the program must submit an application, an autobiographical sketch, and a transcript of any academic work taken at institutions other than the University of Hawaii. If an applicant is not known to the members of the qualifying committee, the Director will designate a person or persons residing in the applicant’s community to interview him. The number of field work assignments available limits the number of students who can be accepted. Late applicants may be rejected because of the difficulty of arranging such assignments. Application forms may be obtained from the Director of the School of Social Work.

Eligibility for admission is determined by (1) personal qualifications that promise future success in social work, (2) scholarship, (3) physical and mental health, and (4) preprofessional training or experience. Notice of acceptance will be sent to successful applicants, and written corroboration of intention to register for the full year’s program is requested.

Instructors may admit to individual courses a few qualified persons who have had experience in social work but do not intend to take the full program.

FIELD WORK. Two semesters of field work are required of regularly enrolled students, and it is expected that they will take Social Work 360-361 concurrently with Social Work 300 and 340. Field work consists of 225 clock hours a semester of supervised case work in an approved social agency.
THE HAWAII AGRICULTURAL EXPERIMENT STATION

By an Act of Congress in 1928, the University of Hawaii was empowered to set up a department to be designated as the Hawaii Agricultural Experiment Station and was entitled to receive the federal grants for agricultural research appropriated by Congress for such experiment stations in each of the states. By provisions made at the same time, the federal experiment station, established in 1901 and known as the Pensacola Street Station, was to be gradually absorbed into the new station as the federal grant funds increased from year to year. This transition was completed in 1938. The history of the federal station is an inseparable part of the history of the Hawaii Agricultural Experiment Station, and the latter may also be said to share in the history and accomplishments of all the state land-grant colleges and experiment stations.

As in most mainland universities, where the agricultural experiment stations are closely associated with their universities or agricultural colleges, the facilities of the Hawaii station, including the research staff, the field laboratory, and the flocks and herds, are available in part for undergraduate and graduate instruction. Thus students have unusual opportunities to come into close contact with the newer advances in agricultural research and to see and study their application. The close collaboration maintained with the experiment stations of the Hawaiian Sugar Planters' Association and the Pineapple Research Institute of Hawaii is of value in the agricultural research of all parties and in University instruction, for in Hawaii diversified agricultural interests must in most instances be integrated with those of the dominant crops.

The function of the Experiment Station is "to promote scientific investigation and experiments respecting the principles and applications of agricultural science" (Hatch Act of 1887). Facilities for carrying on this work are provided by the headquarters offices and laboratories located on the University campus, a branch station on Pensacola Street, Honolulu, and a farm at Poamoho, Oahu; a branch station at Makawao, Maui; and a branch station at Keaauhou, Hawaii. Because the two major agricultural industries of the Territory of Hawaii—sugar and pineapple—support their own experiment stations, little attention is given to these crops. Emphasis is placed upon animal husbandry, poultry production, agronomy, and horticulture—fields which are considered extremely important in themselves. Investigations cover the physiology of plants and animals; diseases, insects, and parasites; soils and soil chemistry; human and animal nutrition; breeding and genetics; as well as other research in culture or production. Scientific facts discovered have broad application since both individual farmers and the large plantations may receive benefits. Many plantations operate ranches, dairies, orchards, and gardens which contribute to the subsistence of the plantation families and add to the total plantation income. These diversified agricultural undertakings, as well as those of independent ranchers and farmers, constitute the wider background of the activities of the Experiment Station.

The research of the Station has formed the basis for a rapid expansion of pro-
duction of all food and feed crops, particularly through development and introduction of improved and adapted varieties of tomato, sweet corn, papaya, and other crops. Animal feeding trials with dairy cattle, poultry, and hogs have shown how local feeds can be used profitably in lieu of imported feeds if necessary. Investigations with yeast, molasses, ensilage, and urea indicate how imported feeds may be replaced by or supplemented with local products—and this with profit to the producer. Information concerning culture, control of disease and insects, and especially the use of mechanical equipment in planting, cultivation, irrigation, and harvesting of the major food crops, is proving of great value in the production of such crops on a scale never before attempted in the Territory.
The Cooperative Extension Service in Agriculture and Home Economics is devoted jointly by the University and the United States Department of Agriculture to the advancement of agriculture in Hawaii and to the improvement of rural home life. Funds for the maintenance of the Agricultural Extension Service are derived jointly from federal and territorial legislative appropriations.

The Agricultural Extension Service maintains personal contacts with the population through its field staff of county farm agents, home demonstration agents, and their assistants, with the assistance of the specialists at the territorial head office at the University of Hawaii. This staff, sixty-three in number, operates out of offices located as follows:

On Oahu—Honolulu, Kaneohe, Wahiawa
On Maui—Kahului, Lahaina, Wailuku
On Kauai—Lihue
On Molokai—Kaunakakai
On Hawaii—Hilo, Kealakekua, Kohala

Improved farm and home practices are taught by means of practical demonstrations before University Extension clubs of men and women and 4-H clubs of boys and girls. This group instruction is supplemented by farm and home visits and conferences.

There are 272 boys' and girls' 4-H clubs with 4,477 members, and 159 clubs of older men and women organized into University Extension clubs with approximately 2,694 members. Assisting in the club work are 678 voluntary leaders.

An important phase of Extension work is to demonstrate in practical form the results of scientific experiments conducted by the University of Hawaii Agricultural Experiment Station and by state experiment stations.

Bulletins and circulars containing varied, timely information pertaining to farming and rural home life are issued from time to time by the subject-matter specialists at the headquarters on the University campus, which also directs the activities of the agents in the field.

The Agricultural Extension Service in Hawaii is part of a nation-wide program established in 1914 and operating throughout the United States. Since its inception in 1928, the efforts of the staff members have been largely directed towards developing a greater degree of self-sufficiency in the food economy of the Territory. To this end the home demonstration agents give particular attention to teaching uses and nutritive values of Island-produced foods.

The Extension Service has for many years collected and published crop and market statistics of value to commercial farmers. Assistance in keeping proper records for tax accounting has come to be a much-appreciated phase of this program. Emphasis is placed on grading and marketing of farm products.

Other important projects include demonstration of improved practices in conservation, vegetable production, fruit growing, swine raising, dairying, poultry production, human nutrition, home management, home furnishing, and clothing.

Special emphasis is placed on assisting the families of plantation workers, where men and women agents devote their entire time to home food supply, nutritious home improvement, and related subjects.
ANNOUNCEMENT OF COURSES 
FOR 1947-48

AGRICULTURE

PROFESSORS WADSWORTH, BEAUMONT, HENKE, GUILLOU, ARMSTRONG, FRAZIER, SHERMAN; ASSOCIATE PROFESSOR STOREY; ASSISTANT PROFESSOR MAINLAND.

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. (Alternate years; not offered 1947-48.) Mr. STOREY.

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

250 SOILS. Origin and physical properties of local soils. Texture, structure, and moisture relations. Three lectures and one laboratory period a week. Prerequisites: Chemistry 103; Physics 102. Laboratory fee $2.00. First semester; 4 credits. Mr. SHERMAN.

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.

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: one year of biological science. First semester; 3 credits. Mr. MAINLAND.

66
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.

257 **FEEDS AND FEEDING.** Principles of feeding and their application to feeding farm and plantation animals. First semester; 3 credits. 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 1947–48.)

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. (Alternate years; not offered 1947–48.)

267 **SOIL ANALYSIS.** Soil composition and fertility. Special attention to field trials, soil tests, and foliar diagnosis in determining fertilizer requirements. Prerequisite: Agriculture 250. Second semester; 3 credits. (Alternate years; not offered 1947–48.)

268 **SOIL DIAGNOSIS LABORATORY.** Laboratory and field tests designed to determine the effects of deficiencies and toxicities of plant nutrients and the fertilizer requirements of soils. Prerequisites: Agriculture 250; credit or concurrent registration in Agriculture 267. Laboratory fee $2.00. Second semester; 2 credits. (Alternate years; not offered 1947–48.) MR. SHERMAN.

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. MR. ARMSTRONG.

281 **AGRICULTURAL MACHINERY.** Principles of gasoline, Diesel, and electric motors and their application to agriculture; fuels; lubricants; care and maintenance of machines. Two lectures and one laboratory period a week. Prerequisite: Physics 102. First semester; 3 credits. MR. GUILLOU.

282 **ADVANCED AGRICULTURAL MACHINERY.** Tillage, planting, harvesting, and processing machines, with special reference to tropical conditions; costs; selection of equipment. Two lectures and one laboratory period a week. Prerequisite: Agriculture 281. Second semester; 3 credits. MR. GUILLOU.

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

295 **COMPARATIVE AGRICULTURE.** The crops, cultural practices, and agricultural institutions of the principal agricultural countries of the world. Second semester; 2 credits. MR. WADSWORTH.
298 **SEMINAR IN ANIMAL NUTRITION.** Recent investigations in animal nutrition; oral reports by students on special topics after a review of literature. Prerequisites: Agriculture 257; sufficient training in chemistry; consent of instructor. Second semester; 1 credit. MR. HENKE.

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

300 **DIRECTED RESEARCH.** Directed research in (a) Genetics—MR. STOREY; (b) Soil Physics—MR. WADSWORTH; (c) Tropical Horticulture—MR. BEAUMONT. First semester; credit by arrangement; repeated second semester.

301 **ADVANCED SOIL TECHNOLOGY.** Soil-weathering and soil-forming processes on the basis of modern pedologic principles. Prerequisites: graduate standing; consent of instructor. First semester; 3 credits. (Not offered 1947–48.) MR. SHERMAN.

303 **ADVANCED SOIL CLASSIFICATION.** A study of the developments of soil classification systems. Special emphasis upon tropical soils and the soil-forming processes associated with them. Prerequisites: graduate standing; consent of instructor. Second semester; 3 credits. (Not offered 1947–48.) MR. SHERMAN.

305 **SOIL BIOTICS.** An advanced course dealing with the biotic factors in soil formation, soil fertility, and humus accumulation. The sulfur, manganese, and nitrogen cycles are considered. One lecture and two laboratory periods a week. Prerequisites: graduate standing; consent of instructor. Laboratory fee $5.00. Second semester; 3 credits. (Alternate years; not offered 1947–48.) MR. SHERMAN.

**ANTHROPOLOGY**

ASSOCIATE PROFESSORS EMBREE, MASON; ASSISTANT PROFESSOR LUOMALA; LECTURER EMBORY.

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; repeated second semester. MR. MASON.

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. EMBORY.

253 **HAWAIIAN CULTURE.** An introduction to native Hawaiian culture in all its aspects: mythology, tradition, history, religion, social organization, and material culture. Some attention also to language and physical type. Second semester; 3 credits. MR. EMBORY.

254 **PEOPLES OF SOUTHERN ASIA.** Ethnology and social organization of India, Southeast Asia, and Malaysia. Discussion of cultural diffusion and contact within the area. First semester; 3 credits. MISS LUOMALA.
255 PEOPLES OF NORTHERN ASIA. Ethnology and social organization of Japan, China, Siberia, and Eastern Asia. Discussion of cultural diffusion and contact within the area. Second semester; 3 credits. MISS LUOMALA.

256 THE AMERICAN INDIAN. Indian tribes and culture areas of North and South America, including the civilizations of Mexico, Central America, and Peru. First semester; 3 credits. MISS LUOMALA.

265 PRIMITIVE SOCIETY. Study of diverse types of social organization with the aim of a better understanding of human society. Second semester; 3 credits. MR. MASON.

267 PRIMITIVE RELIGION. Religious beliefs and practices in primitive society. Function of religion in society. Reading of monographs on religion of various tribes. Second semester; 3 credits. (Alternate years; not offered 1947–48.) 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; 3 credits. (Alternate years; not offered 1947–48.) MISS LUOMALA.


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

ASSOCIATE PROFESSOR NORRIS; ASSISTANT PROFESSORS RANKIN, HORAN; INSTRUCTORS EARL, CARPENTER.

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 DESIGN. Elements of design and composition; study of line, mass, pattern, color. Practice in design organization to stimulate understanding and provide a basis for advanced work. Lectures and studio problems. This course, or the equivalent in experience, is prerequisite to all advanced study. Year course; 2 credits each semester. MR. NORRIS, STAFF.

154–155 DRAWING. Freehand drawing in a variety of media, including pencil, pen and ink, charcoal, and wash. Lectures; drawing in studio and out-of-doors. This course, or the equivalent in experience, is essential to advanced study. Year course; 2 credits each semester. MR. NORRIS, MR. CARPENTER.
160 CERAMICS. Building of pottery by hand and wheel. Some study of decorating, glazing, and firing. Limited to capacity of studio. Prerequisite: Art 150–151 or consent of instructor. Studio fee $10.00. First semester; 2 credits; repeated second semester. Mr. Horan.

171 ART IN THE HOME. Applications of design in terms of space, form, arrangement, function, and taste. Prerequisite: Art 150–151. First semester; 2 credits. Miss Rankin.

172 INTERIOR DECORATION. Design, function, and color of interiors in relation to space, use, and taste. Shop and museum excursions. Prerequisite: Art 150–151. (Art 171 is also recommended.) First semester; 2 credits. Miss Earl.

175 TEXTILE DESIGN. Individual problems in decoration, color, and texture related to fabrics. Prerequisite: Art 150–151. Second semester; 2 credits. Miss Earl.

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 SURVEY OF THE 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. Introduction to the application of design principles to commercial problems. Experimentation with lettering and commercial forms such as advertising layout, trade-marks, packaging, and posters. Prerequisites: Art 150–151 and 154–155. First semester; 2 credits. (Not offered 1947–48.) Mr. Norris.

262 CREATIVE ART FOR THE UPPER ELEMENTARY YEARS. A workshop with situations and visual materials for creative thinking and working, involving individual and group use of tools, materials, and ideas. Limited to 30 students. Laboratory fee $1.00. Second semester; 2 credits. Miss Earl.

263 CREATIVE ART FOR THE SECONDARY YEARS. Similar to Art 262, but with emphasis on the problems of the secondary years. Limited to 30 students. Laboratory fee $1.00. Second semester; 2 credits. Mr. Horan.


268 LANDSCAPE PAINTING. Basic study of landscape in oils, including composition, color, and technique. Outdoor and studio painting. Prerequisite: Art 180–181. First semester; 2 credits. (Not offered 1947–48.) Mr. Norris.

269 LIFE CLASS. Drawing from the model, with a view to establishing a foundation for the imaginative use of the human figure. Prerequisite: Art 154–155. Studio fee $4.00, to cover model expense. First semester; 2 credits. Mr. Carpenter.
270 IMAGINATIVE DESIGN. Advanced design in two-dimensional forms related to the student's interest: ordinarily, painting or commercial design problems. Prerequisites: Art 150–151 and 154–155. First semester; 2 credits. MISS EARL.

273 DESIGN WORKSHOP. The creative use of three-dimensional design materials such as wood, metals, fabrics, or their combinations. Prerequisites: Art 150–151 and 154–155. (Art 270 is recommended preparation.) Laboratory fee $5.00. First semester; 2 credits. MR. HORAN.

274 COMMERCIAL ART FOR BUSINESS AND ECONOMICS STUDENTS. Evaluation of advertising layout, illustration, display, product design, and packaging. Discussion of production methods and technical procedures. Lectures, discussions, reports, and some laboratory work. Second semester; 2 credits. MR. CARPENTER.

275 ADVANCED COMMERCIAL ART. Commercial art from a professional designer's point of view. Projects related to the student's specialized interest. Prerequisites: Art 256 plus at least two of the following: Art 180–181, 265, 268, 269, 270, 273. Second semester; 2 credits. (Not offered 1947–48.) 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

ASSOCIATE PROFESSOR HARTMANN; ASSISTANT PROFESSOR BUSHNELL.

140 APPLIED BACTERIOLOGY. A survey of the principles and practical applications of bacteriology. Two lectures a week. May not be used as prerequisite to other bacteriology courses. First semester; 2 credits; repeated second semester. MR. HARTMANN.

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; Chemistry 103. Desirable preparation: one semester organic chemistry. Laboratory fee $5.00. First semester; 4 credits; repeated second semester. MR. HARTMANN, MR. BUSHNELL.

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. Prerequisites: Bacteriology 151; one semester organic chemistry. 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. Prerequisites: Bacteriology 151; one semester organic chemistry. 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.

299-300 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, MR. BUSHNELL.

BOTANY

PROFESSORS ST. JOHN, CLEMENTS; ASSOCIATE PROFESSOR ENGARD; ASSISTANT PROFESSOR BRITTEN.

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.

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. First semester; 2 credits; repeated second semester.

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.

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.

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.

162 Structure of Economic Plants. A study of the anatomy of the important field and garden crop plants representative of Hawaiian agriculture. Prerequisite: Botany 100. One lecture and two laboratory periods a week. Laboratory fee $4.00. Second semester; 3 credits. Mr. Britten.

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. Engard.

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. (Alternate years; not offered 1947–48.) 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; 2 credits. Mr. St. John.
258 ADVANCED MYCOLOGY. Study of the taxonomy of selected groups of fungi. Consideration of recent and current work on 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. (Alternate years; not offered 1947–48.)

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.

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 1947–48.)

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. (Alternate years; not offered 1947–48.) MR. BRITTEN.

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. First semester; 3 credits. MR. BRITTEN.

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. 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.

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. 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.

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. First semester; 3 credits.
280 CYTOGENETICS. The cytological basis of plant heredity. Prerequisites: Botany 100; Agriculture 254. Two lectures and one laboratory period a week. Laboratory fee $4.00. First semester; 3 credits. MR. BRITTEN.

281 CYTOLOGY. The structure of the cell, its nucleus and cytoplasm. Prerequisite: Botany 100. One lecture and two laboratory periods a week. Laboratory fee $4.00. First semester; 3 credits. MR. BRITTEN. (Alternate years; not offered 1947–48.)

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 graduate students 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. 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. (Alternate years; not offered 1947–48.) MR. ST. JOHN.

BUSINESS

PROFESSOR CAMERON; ASSOCIATE PROFESSORS HOEBER, GLOVER; ASSISTANT PROFESSORS KRAEMER, WINTER; LECTURER LUKE.

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 consent of instructor. Required of all Business majors. Year course; 4 credits each semester. MR. GLOVER.

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. Required of all Business majors. Prerequisite: sophomore standing. Year course; 3 credits each semester. MR. HOEBER.
170 **Technique of Typewriting.** An intensive course in advanced typewriting. Prerequisites: sophomore standing in Economics and Business or major in Education with a commercial work teaching field; consent of instructor; a placement examination. First semester; 2 credits.

177 **Technique of Shorthand.** Dictation and transcription; shorthand and typewriting skills combined; continued development of a vocabulary. Prerequisites: sophomore standing in Economics and Business or major in Education with a commercial work teaching field and consent of instructor. First semester; 2 credits.

250 **Intermediate Accounting.** Financial statements: form, content, and such related problems as depreciation, depletion, valuation of assets, and the capital structure of corporations. Three lectures and one laboratory period a week. Prerequisites: C or better in Business 150-151 and Economics 150-151 or consent of instructor. First semester; 4 credits.

251 **Advanced Accounting.** Continuation of general accounting, including the more specialized phases such as special reports, consolidated statements, accounting problems and procedures for installment sales, consignments, estates and trusts, receiverships, and branch agencies. Prerequisites: C or better in Business 250 or consent of instructor. Second semester; 4 credits. **Mr. Glover.**

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 and Economics 150-151 or consent of instructor. First semester; 3 credits. **Mr. Glover.**

255 **Analysis of Financial Statements.** Analysis of the balance sheet and profit and loss account from the standpoint of the data to be derived from them bearing on the financial standing of business units as investment and credit possibilities. Prerequisites: Business 150-151 and Economics 150-151 or consent of instructor. Second semester; 3 credits. **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 special 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.** Office functions; personnel; distribution of authority and responsibility; employment; compensation; efficiency measurement; procedure and layout; indexing and filing. Prerequisites: Business 150-151; Economics 150-151. Second semester; 3 credits.
263 PERSONNEL MANAGEMENT. Policies and practices used by management to promote efficiency in production and harmonious labor relations. Characteristics of an efficient supervisory organization; employee maintenance and control; foremanship training and control; apprenticeship and training methods; pension, insurance, and thrift plans; job analysis and motion study; working conditions; bonus, premium plans, and wage incentives. Prerequisites: 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.

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. Second semester; 3 credits.

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

267 BUSINESS CYCLES AND BUSINESS FORECASTING. Analysis of the business cycle and proposed remedies; assumptions, methods, and statistical data used in business forecasting; forecasting services; applicability of forecasts to specific cases. Prerequisite: Economics 150—151. Second semester; 3 credits.

270—271 PRINCIPLES OF MARKETING. A study of consumption followed by a general survey of the marketing structure, emphasizing marketing functions and channels, market analysis and research, and marketing policies. Prerequisites: Business 150—151 and Economics 150—151 or consent of instructor. Year course; 3 credits each semester. 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. HOEBER.

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 instructor. Second semester; 3 credits. Mr. Hoebel.

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

Visiting Professors Deming, MacDougall; Professors L. Bilger, E. Bilger; Assistant Professors Spurr, Bright; Instructor Zeitlin.

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. Mr. Deming.

103 General Chemistry. A comprehensive treatment 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. Staff.

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. Bright, Mrs. 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. Deming, Mr. Zeitlin.

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; 2 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. Bilger.

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. First half repeated second semester. Mr. Bright.

232 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; one semester Chemistry 230. Laboratory fee $6.00. Second semester; 4 credits. Mr. Bilger.

236 Agricultural Chemistry. A quantitative analytical course in the chemistry of the products and materials of Hawaiian agriculture, including sugar cane, pineapples, soils, fertilizers, stock feeds, insecticides; poultry; and dairy products. Special emphasis upon modern instrumental methods. Three lectures and two laboratory periods a week. Prerequisites: Chemistry 149 or 159; one semester of Chemistry 230. Laboratory fee $8.00. Second semester; 5 credits.

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 1947–48.)

249 Advanced Organic Chemistry. A study of organic type reactions and syntheses illustrated by laboratory preparations requiring special techniques. Two lectures and two laboratory periods a week. Prerequisites: Chemistry 149 and 230. Laboratory fee $9.00. First semester; 4 credits.

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. Mrs. Bilger, Mr. Spurr.
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. MACDOUGALL, MR. SPURR.

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. BILGBR.

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. (Not offered 1947-48.) MRS. BILGER.

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. MACDOUGALL.

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. MACDOUGALL.

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. STAFF.

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 semester. Credit by arrangement. STAFF.

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 semester. Credit by arrangement. STAFF.

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; electronic formulas. Prerequisites: Chemistry 249; credit or concurrent registration in Chemistry 255. Second semester; 2 credits. MRS. BILGER.
360 Seminar. Papers and discussions on recent advances in chemistry. One two-hour period a week. Prerequisites: senior or graduate standing; credit or concurrent registration in Chemistry 255. Year course; 1 credit each semester. May be taken more than once. Mrs. Bilger, Mr. Spurr.

**CHINESE**

**Associate Professor Taam; Instructor Chong.**

100 Elementary Chinese. Study of some 500 basic Chinese characters; grammar and sentence construction; reading of simple Chinese stories. Year course; 3 credits each semester. Mrs. Chong.

101 Intermediate Chinese. Study of 1,200 basic Chinese characters; selected reading of short essays; composition. 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**

**Associate Professor Maguire.**

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.

250-251 Classical Civilization. A survey of the major aspects of Greek and Roman civilizations, with special attention to their influences on western culture. The first semester is devoted to Greek civilization; the second, partly to Greek, but mainly to Roman. Students may enter the second semester. Year course; 3 credits each semester. Mr. Maguire.

260-261 Classical Literature. The major writers of Greece and Rome in English translation. The first semester is devoted to Greek literature; the second, partly to Greek, but mainly to Roman. Students may enter the second semester. Year course; 3 credits each semester. Mr. Maguire.
DENTAL HYGIENE

INSTRUCTOR BICKERTON; LECTURERS BAUKIN, CONNER, DAWE, GLYNN, MAJOSKA, SMITH.

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.

235 DENTAL OPERATIVE TECHNIQUE. Instruction and practice work on mannequin heads in the technique of instrumentation and polishing. Training in the proper manipulation of instruments for the removal of accretions, deposits, and stains, and the use of all instruments in the field of dental hygiene. Second semester; 2 credits. 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. Second semester; 3 credits. MR. SMITH.

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.

260 ORAL PATHOLOGY. The fundamentals of general pathology and its specific application to the diseases of the mouth. Mouth manifestations of communicable diseases. Alveolar abscess, fistulae, glandular involvement. Granulomas and systemic involvement—pyorrhea, gingivitis; diagnosis, causes, and prognosis. First semester; 1 credit. MR. CONNER.
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 ORTHODONTICS. A lecture course giving its history, the basic principles, normal occlusion of the teeth, malocclusion of the teeth; case analysis for classifications; the etiology of malocclusion; the process of tooth eruption; and growth of the denture, cranium, and face. Second semester; 1 credit. Mr. Glynn.

265 RADIOGRAPHY. A lecture, demonstration, and practice course briefly covering elementary electricity, the theory and development of x-ray and x-ray apparatus, and the technique for taking and processing dental x-ray films with practice in operating x-ray equipment. Second semester; 1 credit.

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

PROFESSORS SHOEMAKER, CAMERON; ASSOCIATE PROFESSOR HOEBER; ASSISTANT PROFESSOR KRAEMER.

Economics 150–151 is prerequisite to all other courses in Economics except Economics 140 and 223–224.

140 INTRODUCTION TO ECONOMICS. A descriptive analysis of basic economic institutions and a study of the elementary 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. Hoebber.

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.

223–224 HISTORY OF ECONOMIC INSTITUTIONS. Economic growth of man; evolution of urban 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 Japan, Korea, and China 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. First semester; 3 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 also is given to the effects of World War II on the Soviet economy, 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.

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.

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

263 INTERNATIONAL FINANCE. International loans and investments; the instruments, techniques, and organization of foreign exchange; varying monetary standards and foreign exchange; manipulation of exchange by governments; recent developments in international finance. Prerequisites: credit or concurrent registration in Economics 256 and 257. Second semester; 3 credits.

265 PRINCIPLES AND PROBLEMS OF ECONOMIC CONTROL. 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. 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. (Not offered 1947-48.) MR. HOEBER.
273 Ocean Transportation. Economic characteristics, history, and vehicles of ocean transportation; services, organization, and rate-making theories; practices of ocean carriers; subsidies and government control. Second semester; 3 credits. Mr. Cameron.

276 Trusts and Industrial Combinations. The trend toward concentration of control; intercorporate and other devices; evaluation of economic effects; government regulation. First semester; 3 credits. Mr. Cameron.

277 Economics of Machine Industry. A study of the physical characteristics of machines; the place of science and invention in their evolution; the history of their use; followed by an analysis of their adaptability to specific industries, the nature of their assistance in production, and the effects of their use on costs, goods, management, mental processes, labor, and international relationships. Second semester; 3 credits. Mr. Cameron.

281 Labor Problems. A study of wages, hours, working conditions, employment, superannuation, substandard workers, and other important problems common to all labor. Special attention is given to an analysis of the fundamental factors affecting wage levels. First semester; 3 credits.

282 Labor Organization and Industrial Relations. Labor problems under unionism: types of unions; evolution of unions; membership; financing; methods used to obtain objectives; methods used by employers in dealing with them; theory and procedures of collective bargaining; economic effects of policies and practices emphasized. Second semester; 3 credits.

283 Labor Legislation. Historic development of labor legislation; its adjudication and administration with emphasis on economic implications. Special attention is given to current political and legal issues directly related to labor legislation. First semester; 3 credits.

285 International Trade. The nature and principles of international economic relations; theory of commodity trade; commercial policies and trade agreements; practical aspects of exporting and importing; problems of postwar trade adjustments. Second semester; 3 credits. Mr. Kraemer.

291 Agricultural Economics. A survey of the economic principles and problems of agriculture; special attention is given to such aspects as resources, tenure, size of enterprise, farm credit, marketing, farm labor, prices, taxation, and farm incomes. First semester; 3 credits. Mr. Kraemer.

292 Land Economics. Fundamentals of regional planning organization and planning techniques; city development and redevelopment; land utilization; land subdivision; housing; zoning; real estate marketing, valuation and finance; land tenure; and land classification. Second semester; 3 credits. Mr. Kraemer.

296 Economic Thought and Advanced Economic Theory. A general survey of economic thought from Adam Smith to the present time with special emphasis on the theory of value and distribution. Prerequisites: junior standing and B or better in Economics 150-151 or consent of instructor. First semester; 3 credits.
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. MR. SHOEMAKER.

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

EDUCATION

PROFESSORS WIST, ARMSTRONG, BROWN; ASSOCIATE PROFESSORS WHITE, PHILIPS, PORTER, CLOPTON; ASSISTANT PROFESSORS RADEMAKER, CHUN, BITNER, TRAUT, GARDNER, EVERLY; INSTRUCTORS PETERSON, TINKER, SNOW, GILES.

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 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.

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.
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.


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.

249 The Teaching of Typewriting and Shorthand. Theory and methods of teaching typewriting and shorthand. Prerequisites: Business 170 and 177. Second semester; 2 credits.

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.

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 Traut, Mr. Everly, Miss Gardner.

255 Seminar for Practice Teachers. Study of problems arising from immediate experience as classroom teachers. First semester; 3 credits; repeated second semester. Miss Porter, Mr. Clopton, Miss Gardner.

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. Bitner.
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 TRAUT, MR. EVERLY, MISS GARDNER.

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 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. (Not offered 1947-48.)

296 HISTORY OF EDUCATION IN HAWAII. Review of the social, economic, religious, and political background of Hawaii up to 1900 that brought about an American public school system in Hawaii previous to annexation. First semester; 2 credits. MR. WIST.

297 MODERN EDUCATIONAL HISTORY IN HAWAII. Events of the present century that have influenced education in Hawaii; industry and immigration; Organic Act and legislation; political trends. Second semester; 2 credits. MR. WIST.

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.

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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) Philoso-
phy of Education, (g) Administration and Supervision, (h) Adult Education, (i) Agri-
cultural Education, (j) Home Economics Education. Prerequisites: graduate standing;
consent of the 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.

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 1947-48.)

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.

354 Internship. Full-time teaching under special supervision in selected pub-
lic schools. Restricted to fifth-year students. First semester; 14 credits; repeated second
semester. Mr. Armstrong, Miss Porter, Mr. Clopton, Miss Phillips, 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.

365 The Supervision of Instruction. The supervisory work of the prin-
cipal; the place of supervision; and organization for supervisory service; techniques.
Restricted to administrators and prospective administrators. Prerequisite: consent of
instructor. Second semester; 2 credits.

376 Seminar in Vocational Education. Individual study of special prob-
lems in vocational education. First semester; 2 credits; repeated second semester. Mr.
Armstrong.

380 Research and Thesis Writing. Research techniques and thesis develop-
ment; 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.

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, Mr. Clopton, Staff.
ENGINEERING

PROFESSORS KUNISH, HOLMES (on leave), WEBSTER, BENNETT; ASSOCIATE PROFESSORS TOWNES, NICHOLS; ASSISTANT PROFESSORS MCCALL, GUNDERSON, INSTRUCTOR ROBERTSON; ASSISTANT WEISS.

CE 101 PLANE SURVEYING. Use of chain, tape, level, and transit; map and computations. One lecture and two field or drafting periods a week. Prerequisite: Mathematics 150; credit or concurrent registration in Mechanical Drawing 101. Credit or concurrent registration in Mechanical Drawing 101. Second semester; 2 credits. MR. BENNETT.

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

CE 153 ROADS AND PAVEMENTS. Construction and maintenance of types of city streets and rural highways. Prerequisites: Civil Engineering 101, Analytical Drawing 101; Mechanical Drawing 101. Second semester; 2 credits. MR. GUNDERSON.

CE 227 ROUTE SURVEYING. Reconnaissance; preliminary survey; preparation of maps; curve computations; field location; plotting profiles; determining grade and earthwork computations for location of railroad or highway. One seven-hour course per period a week. Prerequisites: Civil Engineering 101 and 153; Mathematics 150. First semester; 3 credits each semester. MR. GUNDERSON.

CE 229 MUNICIPAL ENGINEERING. City water supply; water works; inspection; 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. KUNISH.

CE 231 SOIL MECHANICS. Physical factors in earth pressure phenomena in earthwork operations and foundation work. Year course; 2 credits each semester. MR. BENNETT.

CE 252 ANALYTICAL AND APPLIED MECHANICS. Effect of forces on structures both at rest and in motion. Prerequisite: Mathematics 155. First semester; 4 credits. MR. BENNETT.

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

CE 255 HYDRAULICS. Water pressure, strength of pipe, stability of dams; water flow through orifices, nozzles, and weirs; manometers, Pitot tubes, 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. GUNDERSON.
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. MR. NICHOLS.

AE 102 ARCHITECTURAL DESIGN. Elementary architectural design of buildings and their details, rendered in wash and color. Prerequisites: Architectural Engineering 101; Mechanical Drawing 103. Year course; 3 credits each semester. MR. NICHOLS.

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. (Not offered 1947-48.)

ENGLISH

PROFESSOR STROVEN; ASSOCIATE PROFESSORS WILSON, COLLINS, COALE, DAY, GREEN; ASSISTANT PROFESSORS DAVENPORT, KORN; INSTRUCTORS GEISER, McMAMON, BOUSLOG, LEIB, GARNER, CASTRO, OBEI, RUH, GEORGE, ODOM, CARLSTEN, HUNTSBERRY.

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.

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.
205 BACKGROUND OF ENGLISH LITERATURE. A study of the most important sources of English literary themes and allusions, including the King James Bible and Western European mythology and legends. Second semester; 3 credits. MR. GREEN.

210 REPORT 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. Second semester; 3 credits. MR. LEIB.

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

217 FICTION WRITING. Principles of narrative craftsmanship put into practice in 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. (Alternate years; not offered 1947-48.) MR. DAY.

222 ELEMENTS OF PUBLISHING. Theory and practice of publishing; mechanical aspects of printing processes, type faces, typographical display, type calculations, illustration. 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.

240 HISTORY OF LITERARY CRITICISM. Chief theories of literary criticism, with readings (in English) from Plato to the present. Second semester; 3 credits. MR. DAY.

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. STAFF.

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.
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. Day, Mr. Stroven.

263 Literature of the Pacific. A survey of the literature of the Pacific islands and Australia: narratives of voyagers and travelers, translations of native folk literature, and short stories and novels by such writers as Melville, Stevenson, London, Becke, and Nordhoff and Hall. First semester; 3 credits. (Not offered 1947-48.) Mr. Stroven.

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

272 History of the English Language. The growth and development of the English language; its sources, forms, mutations, and standards of usage. Second semester; 3 credits. (Alternate years; not offered 1947-48.) Mr. Green.

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

275 Nondramatic Elizabethan and Seventeenth Century English Literature (1558-1660). Principal nondramatic authors and works from the accession of Elizabeth to the Restoration. First semester; 3 credits. (Alternate years; not offered 1947-48.) Mr. Korn.

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

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. (Alternate years; not offered 1947-48.) Mr. Korn.


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 1947-48.)

285 The English Novel to 1832. Principal English novels and novelists from the beginnings to 1832. First semester; 3 credits. Mr. Korn.

286 The English Novel, 1832-1900. Principal English novels and novelists from 1832 to the turn of the century. Second semester; 3 credits. Mr. Korn.
287 MODERN DRAMATIC LITERATURE. First semester: continental drama from Ibsen's immediate predecessors to the present; second semester: American and British drama. Year course; 3 credits each semester. MR. WILSON.

288 CONTEMPORARY EUROPEAN LITERATURE. Representative works of the leading British and continental novelists and British poets since 1900. First semester; 3 credits. (Alternate years; not offered 1947–48.) MR. DAY.

289 CONTEMPORARY AMERICAN LITERATURE. Representative works of the leading American novelists and poets since 1900. Second semester; 3 credits. (Alternate years; not offered 1947–48.) MR. DAY.

299 DIRECTED READING. Open only to English majors. Prerequisite: consent of the Chairman of the Department. First semester; credit by arrangement; repeated second semester. STAFF.

300 DIRECTED RESEARCH. Graduate study in (a) American Literature, or (b) English Literature. May be repeated until an aggregate of six credits has been earned. Prerequisite: consent of the Chairman of the Department.

310 SEMINAR IN AMERICAN OR ENGLISH LITERATURE. Special study of problems, authors, or periods in English or American literature. Prerequisite: graduate standing; consent of instructor. Second semester; 2 credits. STAFF.

313 SEMINAR IN BIBLIOGRAPHY AND RESEARCH METHODS. Materials of English studies; problems of bibliography; fundamentals of thesis writing. Strongly advised for all candidates for the M.A. degree in literature. One credit. STAFF.

FRENCH

PROFESSOR PECKER; ASSISTANT PROFESSOR SHEPARD.

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

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. MR. SHEPARD.

201 MODERN FRENCH LITERATURE. Novel, biography, drama; composition and diction. Prerequisite: two years of college French or the equivalent. Year course; 3 credits each semester. MR. PECKER.

250 FRENCH LITERATURE BETWEEN THE TWO WORLD WARS. Prerequisite: three years of college French or the equivalent. Year course; 2 credits each semester. MR. PECKER.

299 DIRECTED READING. Reading of the latest French publications. Prerequisite: consent of instructor. Year course; credit by arrangement. MR. PECKER.
ANNOUNCEMENT OF COURSES

GEOGRAPHY

ASSOCIATE PROFESSOR MANCHESTER.

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. MR. MANCHESTER.

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

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. MR. MANCHESTER.

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.


GEOLOGY

PROFESSOR PALMER.

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

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

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

254 ECONOMIC GEOLOGY. Distribution, nature, and origin of deposits of metallic and non-metallic minerals. Prerequisite: Geology 150. First semester; 3 credits. MR. PALMER.

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

ASSOCIATE PROFESSOR MUELLER; ASSISTANT PROFESSOR HORMANN.

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. (Alternate years; not offered 1947-48.) MRS. HORMANN.

201 CONTEMPORARY LITERATURE. Reading supplemented by exercises in composition. Year course; 3 credits each semester. 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.

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

GOVERNMENT

PROFESSORS BACHMAN, LEEBRICK, SPELLACY; ASSOCIATE PROFESSOR SAUNDERS.

150 AMERICAN GOVERNMENT. The organization and function of the national government; American citizenship; protection of civil rights; the party system; contemporary political issues. This course is a prerequisite to all other courses in Government. First semester; 3 credits; repeated second semester. MR. BACHMAN, MR. SAUNDERS, MR. SPELLACY.

160 ELEMENTS OF POLITICS AND GOVERNMENT. An introduction to the terms and principles of political science. Examination of the meaning of law, liberty, constitutionalism, etc. First semester; 3 credits. MR. SAUNDERS.

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. (Not offered 1947-48.) MR. SAUNDERS.

241 CONTEMPORARY POLITICS. The world picture as illustrated by current national and international events. First semester; 2 credits; repeated second semester. (Not offered 1947-48.) 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.

252 INTRODUCTION TO CONSTITUTIONAL LAW. Examination of principal cases concerned with the government departments, state relations, due process of law, interstate commerce, and related subject matter. First 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. MR. SAUNDERS.

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. Required of majors in Government. 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. (Not offered 1947-48.) 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 nations of this region. Second 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. LEEBRICK.

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. (Not offered 1947-48.) MR. SAUNDERS.

270 GOVERNMENT OF HAWAI. Territorial, county, and municipal government, with consideration of the question of statehood for Hawaii. Second semester; 3 credits. (Not offered 1947-48.) MR. SAUNDERS.

271 GOVERNMENT OF DEPENDENCIES. National and legal status; relations with United Nations and with the supervising national government; local government. First semester; 3 credits. MR. LEEBRICK.
282 INTRODUCTION TO PUBLIC ADMINISTRATION. Relationship of administration to policy-forming agencies; organization of administrative staffs; centralization of responsibility. Required of majors in Government. 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. (Not offered 1947-48.) 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.

285 ADMINISTRATIVE MANAGEMENT. Fiscal uses of the budget in the direction and supervision of government agencies. Second semester; 3 credits. (Not offered 1947-48.)

290 MODERN POLITICAL PHILOSOPHY. The principles of government as expounded by great thinkers of the Occident from 1600 to the present. The doctrines of democracy, fascism, and communism. This course is required of majors in Government. Second semester; 3 credits. Mr. Saunders.

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. Spellacy.

HAWAIIAN

LECTURER KAHALE.

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

PROFESSOR BROWN; ASSOCIATE PROFESSOR D'ELISCU; ASSISTANT PROFESSORS GAY, BEGELMAN, KAULUKUKUI; INSTRUCTORS BUCKLIN, GIBSON, PEACOCK, SAKAMOTO, CHAN WA.

101 INDIVIDUAL AND TEAM SPORTS. (Formerly 100 and 102.) Basketball, swimming, tennis, and volleyball. Two class periods a week. First semester; 1 credit. STAFF.

102 INDIVIDUAL AND TEAM SPORTS. (Formerly 102 for women only.) Basketball, swimming, tennis, and volleyball. Two class periods a week. Second semester; 1 credit. STAFF.
103 INDIVIDUAL AND TEAM SPORTS. (Formerly 135 and 136.) Archery, golf, and rhythms. Two class periods a week. For Sophomores. First semester; 1 credit; repeated second semester.

105 RESTRICTED ACTIVITIES. (Formerly 104.) For students who are physically handicapped and unable to take the regular courses. Admittance only upon recommendation of University physician. Two class periods 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 desire to develop additional skills in swimming and diving. First semester; 1 credit. MR. SAKAMOTO.

120 MUSIC AND RHYTHMS IN PHYSICAL EDUCATION. A basic course designed to acquaint teachers and activity leaders with the use of music in the activity program. Includes a brief survey of the various rhythmic patterns and their application. Second semester; 2 credits.

121 MODERN DANCE. Intended as an introduction to modern dance techniques, with emphasis on fundamentals. First semester; 2 credits. MISS PEACOCK.

130 PERSONAL HYGIENE. (Formerly 105.) 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, MR. BEGELMAN.

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.

140 NATURE AND FUNCTION OF PLAY. The place of play in community and school life and its application to the various age groups. First semester; 2 credits. MISS GIBSON.

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.

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, MR. BEGELMAN.
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.** Content and method for programs on the elementary school level. Adaptations to meet situations with like age groups outside of school will also be discussed. Three class periods a week. Second semester; 2 credits.

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.

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

232 **PUBLIC HEALTH PROBLEMS.** Deals with health problems of the community and the responsibility of individuals, groups, and organizations for public health. 2 credits. (Not offered 1947–48.)

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. Second semester; 2 credits. Mr. D'Eliscu.

247 **FESTIVALS AND PAGEANTS.** This course deals with the development of mass productions of a dramatic nature suitable for school and community recreation organizations. Second semester; 2 credits. Miss Peacock.

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. (Not offered 1947–48.) Mr. Brown.

266 **ATHLETIC MANAGEMENT.** This course is designed to acquaint school administrators, athletic directors, coaches, and others with the best practices used in directing the athletic program. Schedules, equipment, budgets, facilities, and office procedures will be included. Second semester; 2 credits. Mr. Brown, Mr. D'Eliscu.

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. First semester; 3 credits. Mr. Brown.

285 **PHYSIOLOGY IN PHYSICAL EDUCATION.** The basic essentials in physiology and physiology of activity, which are necessary in teaching desirable health practices, and the selection of activities to meet individual and group needs. Designed primarily for leaders in physical education and recreation but open to others. Second semester; 3 credits. Mr. Begelman.
287 ADAPTED ACTIVITIES FOR ATYPIICALS. The selection, modification, and program of physical education activities to meet the needs of the physically handicapped. Designed primarily for those interested as majors in Physical Education and Recreation but open to others with consent of the instructor. First semester; 2 credits. Miss Bucklin.

289 PHYSICAL EXAMINATION. This course is intended to provide teachers and others interested in physical and health education with the knowledge necessary to the recognition of symptoms and signs of abnormal functioning of the body, the standard measuring devices used, and the duties of the teacher in this phase of the health program. First semester; 2 credits. Mr. D'Eliscu.

HISTORY

ASSOCIATE PROFESSORS Hunter, Kuykendall, Marder, Sakamaki, White; ASSISTANT PROFESSOR Murphy.

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. Prerequisite for advanced courses in History. Year course; 3 credits each semester. Mr. Marder, Mr. Murphy.

110 INTRODUCTION TO AMERICAN HISTORY. The religious, cultural, and social backgrounds of the American people. Prerequisite for advanced courses in American history. First semester; 3 credits; repeated second semester. Mr. Hunter.

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

208 EXPANSION OF EUROPEAN CIVILIZATION. Survey of cultural changes and developments in Europe, the Western Hemisphere, and Asia resulting from European expansion. First semester; 3 credits. Mr. Sakamaki.

209–210 HISTORY OF ENGLAND. A survey of the political, social, industrial, intellectual, and religious life of the English people. History 209 is prerequisite to History 210. 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 royal power; and the rise of the cabinet system. First semester; 3 credits. (Not offered 1947–48.) Mr. Hunter.

213 HISTORY OF MODERN RUSSIA. A survey of all aspects of Russian history and civilization from the beginning to the Bolshevik Revolution. First semester; 3 credits. Mr. Marder.

214 HISTORY OF SOVIET RUSSIA. A political, economic, social, and cultural study of Russia since the Bolshevik Revolution. Prerequisite: History 213. Second semester; 3 credits. Mr. Marder.
220–221 History of the British Empire. Major trends in the acquisition and development of the Empire to the present day. Consideration of present problems of the Dominions, India, and the Colonies. Prerequisite: History 100. Year course; 3 credits each semester. Mr. Murphy.

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. White.

226 History of Japan. Historical survey of Japanese culture, government, economics, and institutions. Year course; 3 credits each semester. Mr. Sakamaki.

229 History of the Relations Between China and the Occident. Diplomatic, religious, intellectual, and commercial relations between China and the occidental countries from earliest times to the present. Year course; 3 credits each semester. Mr. White.


245 Diplomatic History of the United States. History of American foreign policy since the Civil War, with emphasis upon recent developments. First semester; 3 credits. Mr. Hunter.

246 American Thought and Culture. An advanced course on American social customs, institutions, and intellectual pursuits. Second semester; 3 credits. Mr. Hunter.

250 History of Early Civilization in the Far East. Study of the origins of the peoples and cultures in Eastern Asia. First semester; 3 credits. Mr. Sakamaki.

251 History of Thought in Japan. Major schools of thought and important thinkers, social reformers, economists, statesmen, and educators of Japan. Second semester; 3 credits. Mr. Sakamaki.

252 Constitutional History of the United States. The genesis, drafting, ratification, and development of the federal Constitution. Second semester; 3 credits. Mr. Hunter.

257 Europe in the Nineteenth Century. The major political, social, economic, and intellectual trends in the evolution of Europe from Napoleon to the end of World War I. First semester; 3 credits. Mr. Marder.

258 Europe since Versailles. A continuation of History 257. The peace settlement, domestic and international developments since 1919. Prerequisite: History 257. 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. (Not offered 1947–48.) 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. **Mr. Kuykendall.**

295 **CULTURAL HISTORY OF CHINA.** Principal stages of China's social and intellectual development from the dawn of Sinitic culture to the invasion of the old empire by new forces from the occidental world. Year course; 3 credits each semester. **Mr. White.**

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 thesis. Open to Seniors and graduate students. First semester; 3 credits. **Mr. Hunter.**

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

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

316 **SEMINAR IN CHINESE HISTORY.** Guidance in the use of Chinese historical materials. First semester; 3 credits. **Mr. White.**

318 **RUSSIA IN ASIA.** A seminar dealing with Soviet policy in Central Asia and Far East. Prerequisite: consent of instructor. Second semester; 3 credits. (Not offered 1947-48.) **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 instructor. First semester; 3 credits. (Not offered 1947-48.) **Mr. Marder.**

**HOME ECONOMICS**

Professor Miller; Associate Professors Phillips, Jones, Gruelle, Trimble; Assistant Professor Rankin; Instructors Earl, Boatman, Bartow, Hendrickson, Kirkham; Lecturer Hewell.

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, 151, 152; and Household Science 150, 156.

**GENERAL COURSES (HE)**

HE 100 **ORIENTATION IN HOME ECONOMICS.** Factors contributing to success in college and development of habits for effective living. Assistance in self-evaluation
and relationships involving other persons. Home economics in education; an introduction to the curriculum; vocational study and planning. Year course; 2 credits each semester. **Mrs. Gruelle.**

**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.** General problems of the consumer in purchasing foods, clothing, cosmetics, drugs, furniture, and equipment; consumer buying habits, testing bureaus, agencies protecting consumer, advertising, informative labeling; credit, installment buying. First semester; 2 credits. **Mrs. Gruelle.**

**HE 250 HOUSEHOLD MANAGEMENT.** Contribution of homemaker and family members to better home living; management of time and money; housing, house planning; selection, 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, the school-age child, school health, and adolescence. First semester; 2 credits. **Miss Hewell, Staff.**

**HE 262 EDUCATION FOR FAMILY LIFE.** Relationship problems within the family; special emphasis upon the solution of individual problems as a basis for other satisfactory relations. Premarital instruction, husband-wife relationships, parent-child relationships. Open to both men and women. First semester; 3 credits. **Miss Hendrickson.**

**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 Hendrickson.**

**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. MRS. TRIMBLE.

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; repeated second semester. MISS RANKIN.

HA 111 CLOTHING AND TEXTILES. Children's clothing; problems in care and renovation of clothing; continued study of textiles; practical application of textile information. Two laboratory periods a week. Prerequisite: Household Art 110. Laboratory fee $2.00. Second semester; 2 credits. MISS RANKIN.

HA 114 CLOTHING DESIGN AND CONSTRUCTION. Design and construction of garments suitable to the individual student. Principle of draping applied to dress-making the first semester. Block from foundation pattern in flat pattern designing in second semester. Prerequisites: Household Art 110; credit or concurrent registration in Household Art 150; Art 150-151. Laboratory fee $3.00 each semester. Year course; 2 credits each semester. MISS EARL.

HA 150 CLOTHING SELECTION. Study of personality, posture, color, line, design, clothing plan, and budget. Inventory of student's wardrobe and its suitability to the individual. Laboratory fee $1.00. First semester; 1 credit; repeated second semester. MISS RANKIN.

HA 151 COSTUME DESIGN. The study of fashion illustration, applying principles of color, line, and design. Illustrations done in water color. Prerequisite: Household Art 150. Laboratory fee $1.00. Second semester; 1 credit. MISS RANKIN.

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

HA 253 TAILORING. The study of the principles, techniques, and types of fabric used in a tailored garment. The application of these principles in the making of a tailored suit or coat. Prerequisites: Household Art 110, 114. Laboratory fee $3.00. Second semester; 3 credits. MISS EARL.

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 100 or 103. Laboratory fee $5.00 each semester. Sections limited to 16 students each. Year course; 3 credits each semester. MISS HENDRICKSON.
HOME ECONOMICS

HS 150  **ELEMENTARY FOOD PREPARATION.** Fundamental processes of food preparation; practical application in meal planning to provide good nutrition and promote good food habits. First semester for non-Home Economics students; second semester for Home Economics majors only. Laboratory fee $5.00. Sections limited to 16 students each. First semester; 3 credits; repeated second semester. **MRS. BARTOW.**

HS 156  **SURVEY OF NUTRITION.** How to gain optimum health through good nutrition. A study of the food requirements and methods by which these may be met. Lectures and demonstrations illustrating the nutritional values of common foods and emphasizing those used in Hawaii. Open to both men and women. Laboratory fee $1.00. Second semester; 2 credits.

HS 200  **NUTRITION.** Nutritive requirements of man; function of food in the body; nutritive value of foods and their place in the diet. Two lectures and one laboratory period a week. Prerequisites: Chemistry 103 and 149 or 159; credit or concurrent registration in Chemistry 220. Laboratory fee $5.00 each semester. Year course; 3 credits each semester.

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. Second semester; 3 credits.

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.**

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; 3 credits. **MISS KIRKHAM.**

HS 263  **INSTITUTIONAL BUYING.** Selection and purchase of foods and equipment for an institution. Prerequisite: credit or concurrent registration in Household Science 260. First semester; 2 credits. **MRS. BOATMAN.**

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. (Not offered 1947–48.)

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.

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.
HS 267 QUANTITY FOOD PREPARATION AND MANAGEMENT. Menu planning; organization of workers, materials, and equipment; preparation and service of meals for groups; simple record forms and their use; amounts of food to purchase. One lecture and two laboratory periods a week. Prerequisite: consent of instructor. Not open to institutional management majors. Second semester; 3 credits. (Not offered 1947-48.)

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.

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

HS 273 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. GUELLE.

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.

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

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

JAPANESE

ASSOCIATE PROFESSOR UYEHARA; INSTRUCTOR WATANABE.

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.

Library Science

Assistant Professor Crawford; Instructor Geiser.

260 Library Observation and Participation. An orientation to library routine conducted as a means of determining the student’s aptitude for school library work. Year course; 1 credit each semester. Miss Crawford.

262 Organization and Administration of School Libraries. Emphasis upon the essentials of school library organization and administration; relation of the school library to the educational programs of the elementary and intermediate schools. Year course; 2 credits each semester. Miss Crawford.

268 Cataloguing and Classification. Principles of dictionary cataloguing; Dewey system classification; subject heading; emphasis upon cataloguing and classifying children’s books. Prerequisite: typing ability. Year course; 2 credits each semester. Miss Crawford.


290 School Library Problems. Emphasis upon problems of the teacher-librarian in relation to selection, cataloguing, and the circulation of books, pamphlets, pictures, and periodicals. Prerequisite: Library Science 262 or equivalent. First semester; 2 credits. Miss Crawford.

292 Library Science Workshop. A laboratory study of the work of the school librarian, supplemented by lectures and reading, designed primarily for teacher-librarians in service. Prerequisite: consent of instructor. First semester; 1 to 3 credits; repeated second semester. Miss Crawford.

294 Children’s Literature Workshop. A laboratory course demonstrating how literature may be used with children; supplementary lectures and reading. Prerequisite: consent of instructor. First semester; 1 to 3 credits. Mrs. Geiser.

354 Library Internship. Full-time service in laboratory or public school libraries under special supervision. Restricted to fifth-year students. Prerequisites: Library Science 260, 262, 268, 280; Education 254. First semester; 14 credits; repeated second semester. Mrs. Geiser.
MATHMATICS

PROFESSOR WEBSTER; ASSOCIATE PROFESSOR TOWNES; ASSISTANT PROFESSORS GREGORY, McCall; INSTRUCTOR ROBERTSON; LECTURER JOHNSON.

150 PLANE TRIGONOMETRY. Prerequisites: two years of high school algebra and one year of plane geometry. First semester; 3 credits; repeated second semester. STAFF.

151 COLLEGE ALGEBRA. Prerequisites: two years of high school algebra; one year of plane geometry. First semester; 3 credits; repeated second semester. STAFF.

152 PLANE ANALYTICAL GEOMETRY. Prerequisite: Mathematics 150; credit or concurrent registration in Mathematics 151. First semester; 3 credits; repeated second semester. STAFF.

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

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

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

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

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 the equivalent. Year course; 3 credits each semester. 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 the equivalent. Year course; 3 credits each semester. (Not offered 1947-48.)

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 the 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 the 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. (Not offered 1947–48.) Mr. Gregory.

299 Directed Reading. Prerequisite: consent of instructor. Credit by arrangement. Mr. Gregory.

Medical Technology

Lecturer Connor.

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. Miss Connor.

267–268. Medical Technology. Student technician training in a cooperating laboratory under the supervision of a qualified director. Prerequisite: Medical Technology 266. Year course; 12 credits each semester. Miss Connor.

Military Science and Tactics

Professor Honnen; Assistant Professors Hogan, Lowry; Instructors Cabral, Conmy, Nick, Pomroy, Riddle.

Military Science 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. Military Science is optional in the junior and senior years. The elementary courses, or their equivalent, are required for advanced training. Completion of the four-year program leads to a commission in the Officer's Reserve Corps. Upon the recommendation of their college dean, veterans with one year's service or more may receive academic credit for Military Science 100 and 101. They are eligible for advanced courses upon approval by R.O.T.C. officials. Veterans who were discharged as commissioned officers may, upon recommendation of the college dean, receive up to 12 credits for Advanced Military Science. Upon recommendation of the Military Science and Music Departments, students registered for Military Science 100 or 101 may be assigned to the Band as part of their military training program. Students not eligible for Military Science 100 or 101 who wish to participate in the Band must register for Music 266.

MS 100 R.O.T.C. First-Year Elementary Course. World military situation, military organization, first aid, leadership and drill, weapons and marksmanship, maps and aerial photography, national defense and R.O.T.C. Three hours a week. Uniform rehabilitation fee 50 cents (not refundable). Year course; 1 credit each semester. Colonel Honnen, Staff.
MS 101 R.O.T.C. SECOND-YEAR ELEMENTARY COURSE. World military situation, leadership drill and commands, physical training, maps and aerial photography, military administration, military law, evolution of warfare. Three hours a week. Uniform rehabilitation fee 50 cents (not refundable). Year course; 2 credits each semester. COLONEL HONNEN, STAFF.

MS 200 R.O.T.C. FIRST-YEAR ADVANCED COURSE. Military leadership, psychology and personnel management; leadership, drill, and exercise of command; military problems of the United States; occupied territories; military law and boards; communications; gunnery, technique of fire, fire control; motors and transportation; tactics; the military team; troop movements. Five hours a week. Open to selected students. Prerequisite: elementary course or equivalent. Year course; 3 credits each semester. COLONEL HONNEN, STAFF.

MS 201 R.O.T.C. SECOND-YEAR ADVANCED COURSE. Command and staff, military teaching methods, psychological warfare, national power, leadership drill and command, combined and joint operations, mobilization and demobilization, tactics. Five hours a week. Open 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 operation and firing, camp organization and sanitation, physical training, field and combat problems. Camp attendance required between Military Science 200 and 201 unless authorized a deferment by R.O.T.C. staff; 2 credits. COLONEL HONNEN, STAFF.

MUSIC

ASSOCIATE PROFESSOR RIAN; INSTRUCTORS KAHANANUI, MCCAIN.

150 RUDIMENTS OF MUSIC. The elements of musicianship covering terminology, notation, sight singing, and rhythmic and melodic dictation. This is a basic course for all Music majors and prospective public school classroom teachers. First semester; 3 credits; repeated second semester. MR. MCCAIN.

160–161 THEORY. A detailed study of scales, intervals, triads, and other elements of music. Exercises on given basses, harmonization, creative writing, melodic, rhythmic, and harmonic dictation, and keyboard harmony. Prerequisite: Music 150 or consent of the Chairman of the Department. Year course; 3 credits each semester. MR. MCCAIN.

110 MUSIC APPRECIATION. An introduction to music designed to aid intelligent listening. A study of music from the listeners' point of view, with special emphasis on the orchestral literature of the classical and early romantic periods. Emphasis on listening to recorded music. First semester; 3 credits. MR. RIAN.

111 MUSIC APPRECIATION. Symphonic literature since 1850. A brief study of Wagnerian and Italian opera, and twentieth-century trends in music. Prerequisite: Music 110. Second semester; 3 credits. MR. RIAN.

210 CHOIR. Three hours a week. Year course; 1 credit each semester. May be repeated for credit. MR. RIAN.
230–231 HISTORY AND LITERATURE OF MUSIC. A complete study of the development of music from the beginning of history up to the present time. Nationalities, schools, and composers in detail. Year course; 3 credits each semester. Mr. Rian.

251–252 MUSIC IN THE ELEMENTARY CURRICULUM. Organization and direction of music in childhood experience. A survey of materials and procedures. Year course; 3 credits each semester. Mrs. Kahananul

260–261 ADVANCED THEORY. A course in advanced harmony and analysis. Harmonizing melodies, written work, and keyboard exercises. Special emphasis on modulation and the use of discords. A comprehensive study of the elements, forms, characteristics and structures of the various types of eighteenth, nineteenth, and twentieth century music. Year course; 3 credits each semester. Prerequisite: Music 160–161. Mr. Rian.

266 BAND. Intended for students who are not registered for Band in Military Science. Three hours per week. Year course; 1 credit each semester. May be repeated for credit. Mr. McClain.

NURSING

ASSOCIATE PROFESSOR JONES; LECTURERS ALLISON, FISHER, HEWELL, SAE LTZER, WILBAR.

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. (Not offered 1947–48.)

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. (Not offered 1947–48.)

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. First semester; 3 credits.

253 COMPARATIVE NURSING PROCEDURE. Evaluation of basic nursing procedures, with emphasis upon underlying scientific principles. Second semester; 3 credits.

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; repeated second semester. Miss Jones.

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. (Not offered 1947–48.)
262 STUDENT GUIDANCE IN SCHOOLS OF NURSING. Principles of guidance for nursing students, with emphasis on vocational guidance in the field of nursing. Second semester; 2 credits.

265 PRINCIPLES OF TEACHING IN SCHOOLS OF NURSING. A study of fundamental processes in learning and teaching in the nursing field, with application to newer methods and techniques. First semester 3 credits. (Not offered in 1947.)

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.

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

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

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

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.

290 FIELD PROGRAM. Instruction and guided experience in home visit, bedside and instructive care, in school health work, in maternal and child conferences, and in chest and other clinics. Approximately thirty-two hours. Second semester; 10 credits.

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

PHILOSOPHY

VISITING PROFESSORS AMES, FUNG; PROFESSOR MOORE (on leave); ASSISTANT PROFESSOR McCARTHY.

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

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

ETHICS—PHILOSOPHIES OF LIFE. Western philosophies and typical the
the nature of the good life and of the basic values of human living; frequent con sideration of Eastern philosophies of life. No previous course in
philosophy is required. First semester; 3 credits. (Not offered 1947–48.) MR. MOORE.

ETHICS—PROBLEMS OF CONDUCT. Practical problems of individual and
life; social and economic justice, crime and punishment, happiness, marriage and
hily, etc. Philosophy 200 is desirable preparation, but is not required. Second
er; 3 credits. (Not offered 1947–48.) MR. MOORE.

CONTemporary PHILOSOPHY. A study of recent developments in Eu-
and American philosophy. Prerequisites: Philosophy 150 and 151 or consent
structor. Second semester; 3 credits. (Not offered 1947–48.)

PHILOSOPHICAL IDEAS IN CONTEMPORARY LITERATURE. Dreiser, Hem-
ingway, Joyce, Proust, Thomas Mann, Franz Kafka, Malraux, Santayana, Bernanos, and
were studied as authors of philosophical fiction. Second semester; 3 credits. MR.

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

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

AESTHETICS. What makes an experience satisfactory in art and in life. How
agination goes with technical skill and sense of materials. Standards of taste
icism; how they are developed; the question of their finality or relativity.
ace of art in our civilization in relation to science, industry, and democracy.
semester; 3 credits. MR. AMBS.

PHILOSOPHY, EAST AND WEST. An introductory survey of the basic sys-
methods of Eastern and Western philosophy, with special attention to
ies and contrasts. First semester; 3 credits. (Not offered 1947–48.) MR.

INDIAN PHILOSOPHY. Fundamental philosophical systems and movements
in India, including the Vedas, Upanishads, and Six Systems of Hinduism and the
nodox philosophies, Carvaka, Jainism, and Buddhism. Present-day tendencies will be
sidered. First semester; 3 credits. (Not offered 1947–48.) MR. MOORE.

CHINESE PHILOSOPHY. A historical survey of the important philosophical
and tendencies in China, ancient and modern. First semester; 3 credits. MR.

PHILOSOPHY OF RELIGION. The nature and origins of religion. Hinduism;
ism; Greek religion; the religion of Israel and Judaism; ancient and medieval
anity; Protestant fundamentalism; Catholicism; Spinoza's religion of science;
agnosticism; ethical idealism; modernism and humanism. First semester; 3 credits.
MR. AMBS.
280 ELEMENTARY LOGIC. Valid forms of reasoning; common fallacies; methods, validity, and difficulties of scientific reasoning. First semester; 3 credits. MR. MCCARTHY.

281 CONFUCIAN PHILOSOPHY. A detailed study of the ethical, social, religious, educational, and metaphysical doctrines of Confucius, Mencius, Chu Hsi, etc.; their influence on Chinese culture; their position in modern China. First semester; 3 credits. (Not offered 1947–48.)

282 TAOIST PHILOSOPHY. A detailed study of the metaphysical, ethical, political, religious, and aesthetic teaching of the great Taoist thinkers. First semester; 3 credits. MR. FUNG.

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. (Not offered 1947–48.)

286–287 THE SCIENTIFIC SPIRIT OF WESTERN PHILOSOPHY. A comprehensive study of the basic assumptions, methods, and conclusions of science in its relation to philosophy. Prerequisites: Philosophy 150 and 151 or consent of instructor. Year course; 3 credits each semester. MR. MCCARTHY.

288 SYMBOLIC LOGIC AND SCIENTIFIC METHOD. Prerequisite: Philosophy 280. Second semester; 3 credits. MR. MCCARTHY.

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.

303 SEMINAR IN CHINESE PHILOSOPHY. Prerequisite: consent of instructor. Credit by arrangement. MR. FUNG.

PHYSICS

PROFESSOR ELLER; ASSOCIATE PROFESSORS BRAMHALL, MIYAKE.

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, MR. MIYAKE.

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. MIYAKE.

151 FUNDAMENTALS OF COMMUNICATION. A general electricity course covering both DC and AC theory and applications with emphasis on communication circuits. Two lectures and one laboratory period a week. Prerequisite: Mathematics 150. Laboratory fee $4.00. First semester; 3 credits. MR. MIYAKE.
PHYSICS

153 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. Prerequisite: Physics 102 or 151. 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.

251 MEDICAL PHYSICS. A course for premedical students to acquaint them with the applications of physics to equipment for diagnosis, treatment, and research in medicine. Prerequisite: Physics 102. Second semester; 3 credits. MR. BRAMHALL.

254 ADVANCED RADIO. Advanced radio theory and practice. Theory and design of the more complex radio equipment, including transmitters. Two lectures and one laboratory period a week. Prerequisite: Physics 153. Laboratory fee $4.00. First semester; 3 credits. MR. MIYAKE.

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

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. MR. BRAMHALL.

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

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. (Not offered 1947-48.) MR. ELLER.

260 GEOPHYSICS. Studies in applied geophysics, including terrestrial magnetism, atmospheric electricity, and the ionosphere. Prerequisites: Physics 102; Mathematics 154. Second semester; 3 credits. MR. BRAMHALL.

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

270 HEAT. A study of radiation, kinetic theory of gases, heat measurements, and the laws of thermodynamics. 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.

281 Atomic and Nuclear Physics. A study of the structure of the atom and its nucleus, radioactivity, 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; consent of instructor. Staff.

302 Theoretical Physics. The dynamics of rigid bodies and fluids, origin of spectra, and electromagnetic theory. Prerequisite: Mathematics 253; advanced work in mechanics, light, and electricity and magnetism. Year course; 3 credits each semester. Mr. Bramhall.

PORTUGUESE

Assistant Professor Elliott.

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. Introduction to Portuguese literature; study of Os Lusiadas; selected readings from representative authors of Portugal and Brazil. Review of grammar; conversational practice. Year course; 3 credits each semester. Prerequisite: Portuguese 100 or the equivalent. Mr. Elliott.

PSYCHOLOGY

Professors Livesay, Herrick; Associate Professors Forbes, White; Assistant Professors Bown, Peixotto, Vinacke.

Psychology 150 (or the 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. Forbes, Mr. Vinacke, Mr. Bown.

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. Bown.

250 Applied Psychology. Application of psychological principles to problems of personal efficiency and to the fields of education, law, medicine, traffic safety, and aviation. 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. Bown.

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. Mr. Bown.


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. Desirable preparation: Psychology 267. First semester; 3 credits. Mr. Forbes.

275 Systematic Psychology. The various systems of psychology; existentialism, functionalism, behaviorism, purposivism, and Gestalt. Second semester; 3 credits. Mr. Bown.

280 Social Psychology. The psychology of human relations; psychological factors that determine the behavior of an individual in his social relationships. First semester; 3 credits; repeated second semester. Mr. Vinacke.

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. Mr. Vinacke.

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. Mr. Vinacke.

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.
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 psychoses; 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. White.

RELIGION

Professor Zeigler.

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. (Not offered 1947–48.) Mr. Zeigler.


208 The Life of Jesus. A study of the known life of Jesus; emphasis on the great central issues. First semester; 2 credits. Mr. Zeigler.

209 The Teachings of Jesus. A study of the known teachings of Jesus; their philosophical and practical implications. Second semester; 2 credits. Mr. Zeigler.

210 Lives and Teachings of the Old Testament Prophets. The thought of the five great prophets studied from the angle of their own historical situation, and with consideration of the permanence of their message. First semester; 2 credits. (Not offered 1947–48.)
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 1947-48.)

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 1947-48.)

271 RELIGION AND LITERATURE. Interpretations of religion that have appeared in the literature of the English-speaking world. Second semester; 2 credits. (Not offered 1947-48.)

SOCIAL WORK

PROFESSORS HANDLEY, LIND; LECTURER HEWELL.

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. Prerequisite: junior standing. First semester; 3 credits; repeated second semester.

305 SOCIAL CASE WORK I. Basic concepts fundamental to all social case work practice, developed largely through class discussion of the students' own material drawn from field work experience. To be taken concurrently with Social Work 360. Limited to full-time Social Work students. First semester; 3 credits.

306 SOCIAL CASE WORK II. Case situation 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 361. Limited to full-time Social Work students. Second semester; 3 credits.

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.

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. Pre-requisite: consent of instructor. Second semester; 3 credits.

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.

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.

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 personnel management, fiscal control, policy formation, direction, and coordination. Second semester; 3 credits.

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.

SOCIOLOGY

VISITING PROFESSOR BROOKS; PROFESSOR LIND; ASSISTANT PROFESSORS HORMANN, RADEMAKER.

151 INTRODUCTION TO THE STUDY OF SOCIETY. An orientation course. The basic social relationships and the corresponding social structures. First semester; 3 credits; repeated second semester. MR. BROOKS, MR. HORMANN, MR. LIND.

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. HORMANN.

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. (Not offered 1947-48.)
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. (Alternate years; not offered 1947–48.)

257 RACE RELATIONS IN THE PACIFIC. A survey of typical situations of race and culture contacts in the Pacific area. Second semester; 3 credits. (Alternate years; not offered 1947–48.)

258 RACE RELATIONS. The sociological significance of race and race relations; typical situations and processes; race relations cycle; conflict and accommodations; caste; race prejudice; the marginal man; miscegenation. First semester; 3 credits. (Not offered 1947–48.)

262 SOCIAL CONTROL. A survey of the devices for subjecting the individual and the group to broader social definitions. The role of tradition, ceremonial, and dogma in the socialization and discipline of the individual. Prerequisite: Sociology 151. First semester; 3 credits. Mr. Brooks.


265 CRIMINOLOGY. The nature, causes, and treatment of crime with special attention to juvenile delinquency; theories of punishment and rehabilitation; modern preventive work. Prerequisite: Sociology 151. First semester; 3 credits. Mr. Brooks.

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. Brooks.


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. Mr. Rade-maker.

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. (Alternate years; not offered 1947–48.)
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. MR. RADEMAKER.

272 COLLECTIVE BEHAVIOR. Elementary and spontaneous forms of group behavior; social unrest; social contagion; the crowd and the public; mass and social movements; fashion, reform, and revolution. Prerequisites: Sociology 151; Anthropology 150. First semester; 3 credits. MR. HORMANN.

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. (Not offered 1947-48.)

275 AMERICAN SOCIETY IN TRANSITION. The major trends in American society, particularly as reflected in the war and postwar periods. Second semester; 3 credits. MR. RADEMAKER.

282 METHODS OF SOCIAL RESEARCH. The values and limitations of the common methods of social research for various types of studies. Laboratory and field work. Prerequisite: 9 credits in Sociology or consent of instructor. Second semester; 3 credits. MR. RADEMAKER.

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

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

351 GRADUATE SEMINAR. Open to senior and graduate students with consent of instructor. Year course; 2 credits each semester.

SPANISH

PROFESSOR PECKER; ASSISTANT PROFESSOR ELLIOTT; INSTRUCTOR ROTH.

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

101 MODERN SPANISH LITERATURE. Works of Galdos, Valera, Pereda, Ibanez, 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, MRS. ROTH.

252 MODERN SPANISH NOVEL. Rapid reading; advanced work in composition and conversation; review of grammar. Prerequisite: two years of college Spanish or the equivalent. First semester; 2 credits. (Not offered 1947-48.) 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. (Not offered 1947-48.) MR. PECKER.
254–255 LATIN-AMERICAN LITERATURE. Emphasis on Mexico. Advanced composition; outside reading on assigned topics. Prerequisite: two years of college Spanish or the equivalent. Year course; 2 credits each semester. MR. PECKER.

299 DIRECTED READING. Reading of the latest Spanish publications. Prerequisite: consent of instructor. Year course; credit by arrangement. MR. ELLIOTT.

SPEECH

PROFESSOR SMITH; ASSISTANT PROFESSORS ERNST, TRAPIDO, CARR, KENTZLER, CORNWELL; INSTRUCTORS ARNOLD, LARSON, RAMSEY, KRANTZ, DEBENHAM, BENTLEY, WIMBERLY, WONG.

Speech 100, 101, 102, and 103, or the equivalent, are required of all majors and minors in Speech. Speech 103, or the equivalent, is prerequisite to all courses in Speech numbered 200 or above.

100 FUNDAMENTALS OF SPEECH. Intensive training in the sounds and rhythms of American speech. Required of all Freshmen in Teachers College and of Freshmen in other colleges unless excused. Replaces English 125 and 126. First semester; 1 credit; repeated second semester. STAFF.

101 FUNDAMENTALS OF SPEECH. Continuation of Speech 100. Prerequisite: Speech 100 or the equivalent. Replaces English 126C. Required of all Freshman in Teachers College and of all Freshmen in other colleges unless excused. First semester; 1 credit; repeated second semester. STAFF.

102 ORAL COMMUNICATION. Principles and practice of oral reading; narrative and expository speaking. Required of all Sophomores in Teachers College and of Sophomores in other colleges unless excused. Prerequisite: Speech 101 or the equivalent. Replaces English 127. First semester; 1 credit; repeated second semester. STAFF.

103 ORAL COMMUNICATION. Continuation of Speech 102. Prerequisite: Speech 102 or the equivalent. Replaces English 127C. Required of all Sophomores in Teachers College and of Sophomores in other colleges unless excused. First semester; 1 credit; repeated second semester. STAFF.

120 SEMANTICS. An elementary course, involving problems of meaning; vocabulary; functions of language. First semester; 3 credits. MR. CORNWELL.

140 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 the University Theater Guild. Required of all theater majors and recommended to students who do not expect to take other work in theater. Materials fee $1.00 a semester. Year course; 3 credits each semester. MR. TRAPIDO.

150 PUBLIC SPEAKING. Lectures; assigned reading; practice in parliamentary procedure and in the preparation and delivery of speeches. First semester; 3 credits; repeated second semester. MISS ARNOLD, MR. CORNWELL.
151 Public Address. Principles of speech composition; persuasive speaking adapted to the audience and the occasion; study and delivery of deliberative, professional, social, and ceremonial speeches. Prerequisite: Speech 150. Second semester; 3 credits. Mr. Cornwell.

220 Phonetics. Analysis of the sounds of American speech with attention to historical and comparative phonetics, standards of pronunciation, and dialect study. First semester; 3 credits. Mr. Smith.

221 Speech Correction. Systematic study of types of speech disorders. Prerequisites: Speech 220; Psychology 150. Second semester; 3 credits. Mrs. Carr.

222 Speech Therapy. Study and observation of types of therapy employed in minor disorders of speech; attention to dialectal problems. Prerequisite: consent of instructor. First semester; 3 credits. Mrs. Krantz.

223 Speech Rehabilitation. Study and observation of methods of rehabilitation employed in major disorders of speech. Prerequisite: consent of instructor. Second semester; 3 credits. Mrs. Krantz.

230 Oral Reading. Principles of and individual practice in getting and giving meanings of the written and printed word. First semester; 1 to 3 credits; repeated second semester. Mr. Smith.

231 Oral Interpretation. Continuation of Speech 230. Prerequisite: Speech 230. First semester; 1 to 3 credits; repeated second semester. Mr. Smith.

232 Advanced Interpretation. Study of literary forms and intensive practice in reading examples of them aloud. Prerequisite: Speech 231; two semesters of literature. Second semester; 3 credits. Mr. Smith.

234 Radio Speaking. Study of radio broadcasting as a special form of speech, with consideration of the problems of communication and interpretation arising from the nature of the radio audience and conditions of radio listening. Prerequisite: Speech 230. Second semester; 3 credits.

241 Acting. Analysis and interpretative reading of dramatic prose and poetry; related principles of stage production; reports; individual exercises and group rehearsal. Coordinated with productions of the University Theater Guild. Materials fee $1.00 a semester. Year course; 3 credits each semester. Mr. Ernst, Mr. Trapiro.

242 Theory and Practice of Direction. First semester: readings, reports, individual exercises in stage direction. Second semester: casting and rehearsal of two short plays for studio production. Year course; 3 credits each semester. (Not offered 1947–48.) Mr. Ernst, Mr. Trapiro.

243 Stagecraft. A detailed course in the principles and practices of modern stagecraft: theories of stage production; planning of small theaters; stage arrangement; problems and practice in scene construction and stage lighting. Laboratory fee $5.00. Year course; 3 credits each semester. Mr. Trapiro.

244 History of the Theater. A survey of the development of the theater from the earliest times to the present day. Readings, discussions, lectures, slides. Second semester; 3 credits. (Not offered 1947–48.) Mr. Ernst.
245 AESTHETIC OF THE THEATER. Consideration of the principal theories, with detailed analyses and student reports. Year course; 3 credits each semester. MR. ERNST.

246 MODERN THEORIES OF STAGE PRESENTATION. Recent and current theories of production critically analyzed and reviewed. Second semester; 3 credits. (Not offered 1947–48.) MR. TRAPIDO.

250 DISCUSSION. Procedures in various forms of modern group discussion studied in application to current problems. First semester; 3 credits. MR. CORNWELL.

251 DEBATING. Procedures in debating with practice in analysis, briefing, and delivery. Second semester; 3 credits. MR. CORNWELL.

262 SPEECH IMPROVEMENT. Techniques of speech improvement for use in the classroom, with special attention to the treatment of speech problems in Hawaii. Required of Teachers College Seniors. First semester; 1 credit; repeated second semester. MRS. CARR.

295 RHETORIC. Consideration of the underlying principles of discourse as revealed in ancient and modern theories of rhetoric. Required of all majors and minors in Speech. Prerequisite: consent of instructor. First semester; 3 credits. MR. CORNWELL.

298 SPECIAL PROBLEMS. Open only to Speech majors. Prerequisite: consent of instructor. 1 to 5 credits, by arrangement. MRS. CARR, MR. CORNWELL, MR. ERNST, MR. SMITH, MR. TRAPIDO.

299 DIRECTED READING. Open only to Speech majors. Prerequisite: consent of instructor. First semester; 1 to 5 credits, by arrangement; repeated second semester. MRS. CARR, MR. CORNWELL, MR. ERNST, MR. SMITH, MR. TRAPIDO.

300 RESEARCH. Graduate study in (a) Phonetics and Speech Correction; (b) Interpretation; (c) Forensics and Public Address; (d) Dramatics. Designed primarily for students working on thesis topics. A total of 6 credits may be earned in this course. Prerequisites: undergraduate major in Speech or the equivalent; consent of the adviser. First semester; 1 to 6 credits, by arrangement; repeated second semester. MRS. CARR, MR. CORNWELL, MR. ERNST, MR. SMITH, MR. TRAPIDO.

320 SEMINAR IN PHONETICS AND SPEECH CORRECTION. This seminar will be held from time to time as justified. Review of literature in phonetics and speech correction, reports on assigned topics. Prerequisite: consent of instructor. First semester; 1 to 3 credits, by arrangement; repeated second semester. MRS. CARR, STAFF.

330 SEMINAR IN INTERPRETATION. This seminar will be held from time to time as justified. Review of current literature in interpretation, preparation of reports. Prerequisite: consent of instructor. First semester; 1 to 3 credits, by arrangement; repeated second semester. MR. SMITH, STAFF.

340 SEMINAR IN DRAMATICS. This seminar will be held from time to time as justified. Review of literature in dramatics; preparation of reports. Prerequisite: consent of instructor. First semester; 1 to 3 credits, by arrangement: repeated second semester. MR. ERNST, MR. TRAPIDO, STAFF.
350 **SEMINAR IN RHETORIC AND PUBLIC ADDRESS.** This seminar will be held from time to time as justified. Review of studies in rhetoric and public address; preparation of reports. Prerequisite: consent of instructor. First semester; 1 to 3 credits, by arrangement; repeated second semester. MR. CORNWELL.

**SURVEY COURSES**

**PROFESSORS PALMER, ST. JOHN.**

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. The materials for the first semester are drawn from the physical sciences, and for the second semester from the biological sciences. 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. MR. ST. JOHN.

270 **SURVEY OF ASIATIC LANGUAGES.** Development and geographical distribution; sound-laws operating within each language family; comparison of phonology, morphology, syntax, and vocabulary of Asiatic languages; bibliography. Year course; 2 credits each semester. (Not offered 1947–48.)

**ZOOLOGY AND ENTOMOLOGY**

**PROFESSORS HAMRE, HOLDAWAY, ALICATA; ASSOCIATE PROFESSORS HIATT, MATTHEWS, TUTHILL; ASSISTANT PROFESSORS BANNER, FISHER, HEIZER; LECTURERS CARTER, FULLAWAY.**

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 $5.00. First semester; 4 credits; repeated second semester. MR. HIATT, MR. MATTHEWS, STAFF.

110 **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. MISS HEIZER.

151 **COMPARATIVE ANATOMY OF THE VERTEBRATES.** Study of the structure and relationship of the vertebrate groups and discussion of typical vertebrates. Two lectures and two laboratory periods a week. Prerequisite: Zoology 100. Laboratory fee $8.50. Second semester; 4 credits. MR. FISHER, STAFF.

170 **GENERAL ENTOMOLOGY.** Structure, habits, biology, and classification of insects. Emphasis on insects characteristic of Hawaii. Studies of insects in the field, and laboratory studies with living insects. Two lectures and two laboratory periods a week. Prerequisite: Zoology 100 or Botany 100; both are recommended. Laboratory fee $3.00. First semester; 4 credits; repeated second semester. MR. TUTHILL.
191 PHYSIOLOGY. Functions of the systems of organs of the human body. Three lectures a week. Prerequisite: Zoology 100. Second semester; 3 credits. MR. DE LAUBENFELS.

240 INTRODUCTION TO ECOLOGY. The relationship between animals and between animals and their environment, with special emphasis on reef and shore fauna, insects, and terrestrial vertebrates. Two lectures a week. Prerequisite: Zoology 100. First semester; 2 credits. MR. HIATT, MR. HOLDAWAY, 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 systematic and economic entomology. Homologies of structures in the various groups of insects; anatomy; development in representative groups. Two lecture-laboratory periods a week. Prerequisite: Zoology 170. First semester; 3 credits. MR. TUTHILL.

255 SYSTEMATIC ENTOMOLOGY. Classification of insects; practice in insect taxonomy; history of nomenclature; the International Code. Each student selects a particular group for special study, collection, and report. Two lecture-laboratory periods a week. Prerequisite: Zoology 254. Laboratory fee $2.00. Second semester; 3 credits. MR. TUTHILL.

257 PLANT QUARANTINE AND INSPECTION. Given in cooperation with entomologists of the Plant Inspection Service, Territorial Board of Agriculture and Forestry. Quarantine laws and regulations. Ship, plane, cargo, and mail inspection. Practical experience in plant inspection. Prerequisite: Zoology 170. Desirable preparation: Zoology 255 or its equivalent and Zoology 273. Second semester; 2 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: Zoology 151. Laboratory fee $3.00. First semester; 3 credits. MR. HAMRE.

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

262 MICROTECHNIQUE. The fixing, staining, and mounting of tissues and entire animals and organs. Two laboratory periods a week. Prerequisite: Zoology 260. Laboratory fee $10.00. Second semester; 2 credits. MR. HAMRE.

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 $10.00. First semester; 4 credits. MR. FISHER.
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. (Not offered 1947-48.) Mr. Fisher.

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

273 Agricultural Entomology. The important insects of Hawaiian crops; chemical, biological, and cultural control. Field trips and reports. Assignments on the literature of economic entomology. Two lectures and two laboratory periods a week. Prerequisite: Zoology 170. Laboratory fee $3.00. Second semester; 4 credits. Mr. Holdaway.

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 $5.00. First semester; 3 credits. Mr. Banner.

281 Taxonomy and Ecology of the Invertebrates. Natural history, behavior, classification, and the relation of invertebrate animals to their complete 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, vertebrate, natural history, ornithology, 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; may be taken repeatedly. Staff.

311 Entomology Seminar. The literature of entomology with emphasis on current literature and recent advances. Reviews; reports on research. Prerequisite: advanced standing in Entomology or consent of instructor. First semester; 1 credit; may be taken repeatedly. Staff.

352 Insect Ecology. Insects as living units in an environment of physical and biotic factors. Habitats, populations, autecology, and synecology. Lectures, discussions,
field studies, laboratory work, reports. Two lectures and one laboratory period a week. Prerequisite: Zoology 255 or its equivalent or advanced standing in Entomology. First semester; 3 credits. (Alternate years; not offered 1947–48.) MR. HOLDAWAY.


355–356 INSECT-TRANSMITTED DISEASES OF PLANTS. A year course comprising lectures and laboratory studies in the first semester and current literature in the second semester. Prerequisite: advanced standing. First semester; 3 credits. Second semester; 1 credit. Second semester may be taken repeatedly. MR. CARTER.
### SUMMARY OF ENROLLMENT FOR 1946–47

(A) In Regular University Day and Evening Credit Courses

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<th>CANDIDATES FOR DEGREES, DIPLOMAS, AND CERTIFICATES</th>
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<th>2nd Semester</th>
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<td><strong>1,229</strong></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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