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# THE BOARD OF REGENTS
## OF THE UNIVERSITY

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<tr>
<th>Name</th>
<th>Address</th>
<th>Year service began</th>
<th>Year appointment will end</th>
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<tr>
<td>ARTHUR L. ANDREWS</td>
<td>2346 Liloa Rise, Honolulu</td>
<td>1941</td>
<td>1944</td>
</tr>
<tr>
<td>RUTH E. BLACK</td>
<td>2540 Ferdinand Avenue, Honolulu</td>
<td>1941</td>
<td>1945</td>
</tr>
<tr>
<td>J. RUSSELL CADES</td>
<td>Bishop Trust Building, Honolulu</td>
<td>1941</td>
<td>1946</td>
</tr>
<tr>
<td>S. N. CASTLE</td>
<td>Kalanianaole Highway, Honolulu</td>
<td>1941</td>
<td>1946</td>
</tr>
<tr>
<td>CARL A. FARDEN</td>
<td>Pineapple Research Institute of Hawaii, Honolulu</td>
<td>1933</td>
<td>1945</td>
</tr>
<tr>
<td>MARY DELLINGHAM FREAR</td>
<td>1434 Punahou Street, Honolulu</td>
<td>1920</td>
<td>1944</td>
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<tr>
<td>HERBERT E. GREGORY</td>
<td>Bernice P. Bishop Museum, Honolulu</td>
<td>1937</td>
<td>1947</td>
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<td>HERBERT K. KEPPLER</td>
<td>Bernice P. Bishop Estate, Honolulu</td>
<td>1938</td>
<td>1943</td>
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<td>OREN E. LONG (<em>ex officio</em>)</td>
<td>Superintendent, Department of Public Instruction, Honolulu</td>
<td>1935</td>
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## OFFICERS OF THE BOARD

- **Chairman**: J. RUSSELL CADES
- **Vice-Chairman**: CARL A. FARDEN
- **Secretary**: RUTH E. BLACK
THE UNIVERSITY FACULTY AND STAFF
1942 - 1943

ADMINISTRATIVE OFFICERS

GREGG M. SINCLAIR, M.A. .... President of the University
ARTHUR R. KELLER, D.Sc. .... Vice-President and Dean of the College of Applied Science
THAYNE M. LIVESAY, Ph.D. .... Dean of the College of Arts and Sciences
BENJAMIN O. WIST, Ph.D. .... Dean of Teachers College
STANLEY D. PORTEUS, D.Sc. .... Director of the Psychological and Psychopathic Clinic
JOHN H. BEAUMONT, Ph.D. .... Director, Hawaii Agricultural Experiment Station
HOWRY H. WARNER, B.S. .... Director, Cooperative Extension Service in Agriculture and Home Economics

ERNEST T. CHASE, B.A. .... Acting Treasurer
HELEN B. MACNEIL, M.A. .... Registrar
MARY P. PRINGLE .... Librarian
CENIE S. HORNUNG, B.A. .... Counsellor for Women
STANLEY ORNE, M.A. .... Manager, Office of Publications and Publicity

INSTRUCTIONAL STAFF

DONALD ABBOTT, B.A., Instructor in Education—B.A., Univ. of Hawaii, 1941.
ROMANZO ADAMS, Ph.D., Emeritus Professor of Sociology—B.A., Univ. of Michigan, 1897, M.A., 1898; Ph.D., Univ. of Chicago, 1904.
JOHN E. AGUIAR, M.A., Instructor in Spanish—B.A., Univ. of California, 1932, M.A., 1933.
OSCAR N. ALLEN, Ph.D., Professor of Bacteriology—B.A., Univ. of Texas, 1927, M.A., 1927; Ph.D., Univ. of Wisconsin, 1930.
CARL BOWERS ANDREWS, M.S., Emeritus Professor of Engineering—B.S., Rose Polytechnic Institute, 1908, M.S., 1909, C.E., 1917; M.S., Massachusetts Institute of Technology, 1928.

FRED EUGENE ARMSTRONG, Ph.D., Associate 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 History and Government and Chairman of Department of Social Sciences—B.S., Ohio State Univ., 1922; M.A., Univ. of Washington, 1925; Ph.D., 1927.
LAVERNE M. BENNETT, M.A., Instructor in Health and Physical Education—B.A., Fresno State College, 1934; M.A., Univ. of California, 1936.
FACULTY AND STAFF

CHARLES M. BICE, B.S., Assistant Professor of Poultry Husbandry—B.S., Univ. of Wisconsin, 1927.

EARL M. BILGER, Ph.D., Associate Professor of Chemistry—B.S., Wesleyan Univ., 1920, M.A., 1921; Ph.D., Yale Univ., 1925.

LEONORA N. BILGER, Ph.D., Professor of Chemistry—B.A., Univ. of Cincinnati, 1913, M.A., 1914, Ph.D., 1916.


THETIS M. BUCKLIN, M.S., Instructor in Health and Physical Education—B.S., Battle Creek College, 1935; M.S., Indiana Univ., 1936.

LUCINDA BUCKET, Instructor in English.

MERTON KIRK CAMERON, Ph.D., Professor of Economics—B.A., Princeton Univ., 1908; M.A., Harvard Univ., 1914, Ph.D., 1921.

IDA J. CARO, M.A., Assistant Professor of Education and Principal of Teachers College Elementary and Intermediate School—B.S., Teachers College, Columbia Univ., 1927; M.A., Univ. of Hawaii, 1929.

BERT CHAN WA, Ed.B., Assistant in Health and Physical Education—Ed.B., Univ. of Hawaii, 1941.

LOUISE S. CHILDS, M.D., Lecturer in Child Care—B.A., Bryn Mawr, 1931; M.D., Johns Hopkins, 1935.

ANN A. CRARKE, LL.B., Emeritus Professor 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.

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

LYMAN A. DEAN, Ph.D., Associate Professor of Soil Chemistry—B.S., Univ. of Hawaii, 1931; M.S., Univ. of Wisconsin, 1932, Ph.D., 1934.

FRANK T. DILLINGHAM, M.A., Professor of Chemistry—B.S., Worcester Polytechnic Institute, 1901; M.A., Yale Univ., 1916.


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

J. LESLIE DUNSTAN, Ph.D., Professor of Religion—B.S., Colby College, 1923; Ph.D., Columbia Univ., 1933.

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

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

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

EARLE ERNST, Ph.D., Instructor in English—B.A., Gettysburg College, 1933; M.A., Cornell Univ., 1938, Ph.D., 1940.


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

MARGARETTA FRIESBE, M.A., Assistant Professor of Social Work Training—B.A., Univ. of Iowa, 1930, M.A., 1931.

GIICHI FUJIMOTO, M.S., Instructor in Chemistry—B.S., Univ. of Hawaii, 1921, M.S., 1923.

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


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

Christopher J. Hamre, Ph.D., Professor of Zoology and Chairman of Department of Biological Sciences—B.A., St. Olaf College, 1923; M.S., Univ. of Wisconsin, 1927, Ph.D., 1930.

Florence M. Henderson, Ph.D., Assistant Professor of English—B.A., Univ. of Denver, 1921; M.A., Univ. of Iowa, 1927; Ph.D., Univ. of Wisconsin, 1935.

Louis A. Henke, M.S., Professor of Agriculture—B.S., Univ. of Wisconsin, 1912, M.S., 1923.

Colin J. Herrick, Ph.D., Psychological Clinician—B.A., Haverford College, 1924; M.A., Univ. of Pennsylvania, 1934, Ph.D., 1939.

Ralph C. Hoeber, J.D., Assistant Professor of Economics—B.A., Univ. of Oregon, 1921, M.A., 1923; J.D., Stanford Univ., 1927.

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


Maria Hörmann, B.A., Assistant Professor of German—B.A., Univ. of Hawaii, 1923.


Virginia Jones, B.S., Assistant Professor of Health Education and Public Health Nursing—R.N., Reid Memorial Hospital School of Nursing, 1920; B.S., Indiana Univ., 1933.

Winston W. Jones, Ph.D., Assistant Professor of Horticulture—B.S., Alabama Polytechnic Institute, 1931; M.S., Purdue Univ., 1933; Ph.D., Univ. of Chicago, 1936.

Henry P. Jude, B.A., Professor of Hawaiian—B.A., Yale Univ., 1901.


Frederick G. Krauss, D.Sc., Emeritus Professor of Agriculture—D.Sc., Univ. of Hawaii, 1921.

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

Ferris F. Laun, Ph.D., Professor of Social Work Training—B.A., Univ. of Nebraska, 1914; Ph.D., Northwestern Univ., 1935.


Andrew W. Lind, Ph.D., Associate Professor of Sociology—B.A., Univ. of Wisconsin, 1924; M.A., Univ. of Washington, 1925, Ph.D., Univ. of Chicago, 1931.


Thayne M. Livesay, Ph.D., Professor of Psychology and Dean of College of Arts and Sciences—B.A., Pacific Univ., 1917; M.A., Univ. of Washington, 1921, Ph.D., 1931.


Maybelle McCleery, Ed.B., Instructor in Education—Ed.B., Univ. of Hawaii, 1933.
EDWIN E. McNIEL, M.D., Lecturer in Social Work Training—B.A., Pomona College, 1927; M.D., University of Colorado, 1931.

NORA WONG MARK, B.S., Instructor in Home Economics—B.S., Univ. of Hawaii, 1934.


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

CAROL MITCHELSON, M.S., Instructor in Home Economics—B.S., Kansas State College, 1926, M.S., 1929.

CHARLES A. MOORE, Ph.D., Associate Professor of Philosophy—B.A., Yale Univ., 1926, Ph.D., 1932.

SHIGEO OKUDO, M.S., Instructor in Mathematics—B.S., Univ. of Hawaii, 1937, M.S., 1939.

GUY C. OMER JR., M.S., Instructor in Physics—B.S., Univ. of Kansas, 1936, M.S., 1937.

STANLEY ORNE, M.A., Assistant Professor of English—B.A., Univ. of Washington, 1923; M.A., Univ. of Hawaii, 1939.

JENS M. OSTERGAARD, Instructor in Zoology.

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

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

STANLEY D. PORTEUS, D.Sc., Professor of Clinical Psychology and Director of Psychological and Psychopathic Clinic—D.Sc, Univ. of Hawaii, 1933.

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

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

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

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

LAURA V. SCHWARTZ, Ph.D., Associate Professor of English—B.A., College of the Pacific, 1920; M.A., Stanford Univ., 1921, Ph.D., 1924.

R. RAY SCOTT, Ph.D., Associate Professor of Education and Chairman of Department of Adult Education—Ph.B., Hiram College, 1914; M.A., Columbia Univ., 1916; Ph.D., Ohio State Univ., 1932.

THEODORE SEARLE, B.S., Instructor in Physical Education and Director of Athletics—B.S., Univ. of Hawaii, 1926.

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

GREGG M. SINCLAIR, M.A., Professor of English, Acting Chairman of English Department, and President of the University—B.A., Univ. of Minnesota, 1912; M.A., Columbia Univ., 1919.

MA'DORAH E. SMITH, Ph.D., Assistant Professor of Education and Psychology—B.A., Fargo College, 1907; M.A., Univ. of Iowa, 1918, Ph.D., 1925.

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


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

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


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

ETTA R. WASHBURN, B.A., Assistant Professor of Adult Education—B.A., Univ. of Wisconsin, 1916.

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

MARIAN WEAVER, M.S., Instructor in Home Economics—B.S., Univ. of Minnesota, 1931; M.S., Michigan State College, 1940.

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

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

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

MARSHA WOOD, M.S.S., Assistant Professor of Social Work Training—B.A., Sweet Briar College, 1928; M.S.S., Smith College, 1935.

SAMUEL H. WORK, Ph.D., Associate Professor of Animal Husbandry—B.S., Ohio State Univ., 1925; Ph.D., Cornell Univ., 1934.

STAFF MEMBERS ABSENT IN WAR SERVICE OR RESIGNED DURING 1941-1942

JAMES W. ABEL, M.A., Instructor in English.


MARGARET APPLEBY, B. A., Assistant in Education.

ADELINE BABBITT, M.A., Assistant Professor of Education.

STANLEY S. BALLARD, Ph.D., Assistant Professor of Physics.

KATHERINE BAZORE, M.A., Assistant Professor in Home Economics.

N. B. BECK, Ph.D., Professor of English.

CHARLES B. BOUSLOG, B.A., Instructor in English.

GORDON T. BOWLES, Ph.D., Assistant Professor of Anthropology.

ELIZABETH D. W. BROWN, Ph.D., Instructor in Biology.

HUBERT E. BROWN, Ph.D., Associate Professor of Health and Physical Education.

IOLA P. BROWNE, B.A., Instructor in Mathematics.

W. THOMAS BRYAN, Ph.D., Assistant Professor of Education.

WILLIAM M. CADE, M.S., Instructor in Engineering.

ALINE CARDEN, B.S., Assistant in Education.

MARJORIE CARTER, B.A., Assistant in English.

WING-TSIT CHAN, Ph.D., Professor of Oriental Philosophy.

TSUEN-KUNG CHANG, M.A., Assistant in Chinese.

JANE CHRISTMAN, Ed.B., Assistant in Education.

THOMAS BLAINE CLARK, Ph.D., Assistant Professor of English.

DELLA ZOA COFF, M.A., Instructor in Education.

JOHN WESLEY COULTER, Ph.D., Associate Professor of Geography.

JOEL B. COX, Engineer, Assistant Professor of Engineering.

ROBERT F. DICE, B.S., Instructor in Psychology.

ROBERT C. ELLIOTT, M.A., Instructor in English.

JOHN A. ELY, M.S., Assistant Professor of Engineering.

LILLIAN GIBSON, B.E., Instructor in Health and Physical Education.

EUGENE GILL, B.S., Assistant Professor of Physical Education.

GEORGE P. GORDON, M.A., Instructor in Education.
Elinor Griffin, M.A., Instructor in Education.
Dagmar Gustafson, M.S., Instructor in Home Economics.
Fritz Bennicke Hart, F.R.C.M., Professor of Music.
Patrick Hogan, Sergeant, U.S. Army, Military Science and Tactics.
Jerome K. Holmes, Ph.D., Instructor in Chemistry.
Wilfred J. Holmes, M.S., Assistant Professor of Engineering.
Stephen B. Jones, Ph.D., Assistant Professor of Geography.
Thomas Kaulukukui, Ed.M., Instructor in Health and Physical Education.
Harold J. Keeley, B.S., Major, U.S. Army, Military Science and Tactics.
Felix MaxweIl Keesing, D.Litt., Professor of Anthropology.
Dorothy Lo, B.A., Assistant in Education.
Esther Lound, M.A., Instructor in English.
William A. McCartney, M.A., Instructor in English.
Eva Metraux, Lic. ès L., Instructor in French.
Bertha Mueller, Ph.D., Assistant Professor of German.
Charles Henry Neil, M.A., Associate Professor of English.
Shirley Newsom, M.S., Instructor in Education.
Ben Norris, B.A., Instructor in Art.
Richard K. Okamoto, Ed.B., Assistant in Physical Education.
Sumi Okawa, Ed.M., Instructor in English.

Drew Pallette, M.A., Instructor in English.
George F. Papenfuss, Ph.D., Assistant Professor of Botany.
Robert Patrick, B.S., Captain, U.S. Army, Military Science and Tactics.
William Pearson, M.S., Instructor in Chemistry.
Joan Poole, B.A., Assistant in Education.
Richard Ratekin, Ed.B., Instructor in Education.
Katherine E. Roberts, Ph.D., Associate Professor of Education.
Norman P. Sacks, Ph.D., Instructor in Portuguese.
Rowland R. Shepardson, B.A., Instructor in English.
Faith Snifer, Instructor in Art.
Spencer W. Tinker, M.S., Instructor in Education.
MacEldin Trawick, Ph.D., Instructor in Psychology.
Fred Wagner, Ph.D., Instructor in Economics.
Ralph J. Wentworth-Roehr, Ed.M., Instructor in Education.
Stewart C. Wilcox, Ph.D., Assistant Professor of English.
William E. Williamson, M.A., Instructor in Political Science.
Edward F. Willis, Ph.D., Assistant Professor of History.
Willard Wilson, Ph.D., Assistant Professor of English.
Norman J. Wright, M.A., Instructor in English.
Arthur E. Wright, B.S., Associate Professor of English.
Ralph Yempuku, B.A., Instructor in Physical Education.

PSYCHOLOGICAL AND PSYCHOPATHIC CLINIC

Eleanor P. Bonte, Ph.D., Psychological Clinician—B.A., Wheaton College, 1932; M.A., Univ. of Iowa, 1933, Ph.D., 1936.
Lucille Erwin, B.A., Psychological Assistant—B.A., Univ. of California, 1927.
Colin J. Herrick, Ph.D., Psychological Clinician—B.A., Haverford College, 1924; M.A., Univ. of Pennsylvania, 1934, Ph.D., 1939.
Mildred C. Mendenhall, Ph.D., Psychological Clinician (for outer islands)—B.A., Univ. of North Carolina, 1920; M.A., Univ. of Rochester (New York), 1934; Ph.D., Univ. of North Carolina, 1939.
Stanley D. Porteus, D.Sc., Director—D.Sc., Univ. of Hawaii, 1933.
HAWAII AGRICULTURAL EXPERIMENT STATION

*HATSUMI CAROL AKAGI, Junior Assistant in Nutrition.

ERNEST K. AKAMINE, M.S., Associate in Plant Physiology—B.S., Univ. of Hawaii, 1935, M.S., 1941.


ARTHUR S. AYRES, M.S., Assistant Chemist—B.S., Univ. of California, 1927; M.S., Univ. of Hawaii, 1941.

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

CHARLES M. BICE, B.S., Associate Poultry Husbandman—B.S., Univ. of Wisconsin, 1927.

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

ASHTON C. CUCKLER, Ph.D., Assistant Parasitologist—B.A., Univ. of Nebraska, 1935; M.A., Univ. of Washington, 1936; Ph.D., Univ. of Minnesota, 1941.

LYMAN A. DEAN, Ph.D., Associate Chemist—B.S., Univ. of Hawaii, 1931; M.S., Univ. of Wisconsin, 1932, Ph.D., 1934.

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

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., Junior Agronomist—B.S., Univ. of Hawaii, 1931, M.S., 1935.

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

*WINSTON W. JONES, Ph.D., Assistant Horticulturist—B.S., Alabama Polytechnic Institute, 1931; M.S., Purdue Univ., 1933; Ph.D., Univ. of Chicago, 1936.

*KAZUO KIKUTA, B.S., Associate in Plant Pathology—B.S., Univ. of Hawaii, 1936.

*TAMOTSU KUBOTA, B.S., Junior Assistant in Plant Physiology—B.S., Univ. of Hawaii, 1940.

*GEORGE KEITH PARRIS, Ph.D., Associate Plant Pathologist—B.A., Univ. of California, 1917; M.S., Columbia Univ., 1922.

*MARSHA POTGIETER, Ph.D., Associate Nutritionist—B.A., Univ. of Iowa, 1929, M.S., 1930; Ph.D., Columbia Univ., 1933.

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

*LILY U. SHAW, M.S., Assistant in Horticulture—B.S., Univ. of Hawaii, 1938, M.S., 1940.

*WILLIAM B. STOWEY, Ph.D., Assistant Horticulturist—B.S., Univ. of Hawaii, 1935, M.S., 1937; Ph.D., Cornell Univ., 1940.

*DICK YUKIO SUMIDA, B.S., Assistant in Truck Crops—B.S., Univ. of Hawaii, 1936.

*On leave of absence.
SAMUEL T. TACHIBANA, Junior Assistant in Truck Crops.

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

TAKUMA TANADA, B.S., Assistant in Chemistry—B.S., Univ. of Hawaii, 1942.

TERUO TOGASHI, B.S., Junior Assistant in Agronomy—B.S., Univ. of Hawaii, 1937.

SAMUEL H. WORK, Ph.D., Associate Animal Husbandman—B.S., Ohio State Univ., 1925; Ph.D., Cornell Univ., 1934.

*KISAKO H. YANAZAWA, Junior Assistant in Nutrition.


COOPERATIVE EXTENSION SERVICE IN AGRICULTURE AND HOME ECONOMICS

DAVID ARTHUR AKANA, B.S., Extension Farm Forester and County Agricultural Agent, Molokai—B.S., Univ. of Hawaii, 1932.

IRMGARD FARREN ALULU, B.S., County Home Demonstration Agent, East Oahu—B.S., Univ. of Hawaii, 1933.

CLAURA BLANK, B.S., County Home Demonstration Agent, West Hawaii—B.S., Iowa State College, 1932.

ASHLEY COLT BROWNE, B.S., Specialist in Horticulture—B.S., Univ. of California, 1921.

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

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

MARTHA L. EDER, B.S., County Home Demonstration Agent, Molokai—B.S., Iowa State College, 1919.

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

FLORENCE CHING FERNANDEZ, B.S., Assistant County Home Demonstration Agent, Kauai—B.S., Univ. of Hawaii, 1937.

EDWARD FUKUNAGA, M.S., County Agricultural Agent, South Kona, Hawaii—B.S., Univ. of Hawaii, 1934, M.S., 1935.


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

YASUO BARON GOTO, B.S., Specialist in Agricultural Club Work—B.S., Univ. of Hawaii, 1924.

TERRELL GRAHAM, B.S., County Agricultural Agent, Maui—B.S., Agricultural and Mechanical College of Texas, 1939.

JOEL KOICHI HAMAMOTO, B.S., Assistant County Agricultural Agent, West Oahu—B.S., Univ. of Hawaii, 1941.

ELSIE HAYASHI HARA, B.S., Assistant County Home Demonstration Agent, East Hawaii—B.S., Univ. of Hawaii, 1934.

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

NELLIE G. HUFFINE, B.S., County Home Demonstration Agent, West Oahu—B.S., Oregon State College, 1941.

*GARDNER ORSON HYER, B.S., County Agent—B.S., Utah State College, 1940.

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

JUSHIN KANESHIRO, B.S., Assistant County Agricultural Agent, North Kona—B.S., Univ. of Hawaii, 1932.

NORITO KAWAKAMI, B.S., Assistant County Agricultural Agent, Kauai—B.S., Univ. of Hawaii, 1933.

KIKUE KIYABU, B.S., Assistant County Home Demonstration Agent, Maui—B.S., Univ. of Hawaii, 1940.

*On leave of absence.

*Absent for the duration—In service of U.S. Army.
CLARENCE LYMAN, M.S., Assistant County Agricultural Agent, North Hawaii—B.S., Univ. of Hawaii, 1938, M.S., 1941.

TSUMIKA MANEKI, B.S., Assistant County Agricultural Agent, East Hawaii—B.S., Univ. of Hawaii, 1922.

JANET A. MARUHASHI, B.S., Assistant County Home Demonstration Agent, West Hawaii—B.S., Univ. of Hawaii, 1941.

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

MORRIS M. MASUDA, B.A., Assistant County Agricultural Agent, East Hawaii—B.A., Univ. of Hawaii, 1931.

DOROTHY MUIR MOUNTS, B.A., County Home Demonstration Agent, Maui—B.A., Univ. of California, 1928.

KENICHI MURATA, Assistant Specialist in Agricultural Economics.

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

SYLVIA C. NEWEL, B.S., County Home Demonstration Agent, East Hawaii—B.S., Iowa State College, 1924.

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

LILLIAN RAYNARD, B.S., County Home Demonstration Agent, South Oahu—B.S., Hastings College, 1931.

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


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


FRANCIS T. TAKAHASHI, Assistant County Agricultural Agent, West Oahu.

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

FRANCIS TAKISHITA, Assistant County Agricultural Agent, Maui.


ALICE PEDERSEN TRIMBLE, B.S., Specialist in Home Management—B.S., Utah State College, 1924.

HARVEY M. VOLLRATH, B.S., County Agricultural Agent, East Hawaii—B.S., Colorado College of Agriculture, 1929.

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

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

THE UNIVERSITY IN WARTIME

The University of Hawaii is affected by war conditions possibly to a greater extent than is any other American state university. Located in an active combat zone, it was closed for a two-month period immediately following the declaration of war against the Axis powers. Upon reopening, adjustment of its program was necessary in many particulars. Enrollment dropped to less than half of the first semester figures, and the faculty and staff were likewise reduced through transfers to military or other defense service. Throughout the period of February to June, 1942 the number has been still further reduced. Several of the University buildings have been released for military or other related needs.

The general program has been modified to meet changed conditions. The work of the Hawaii Agricultural Experiment Station and the Agricultural Extension Service is now directed almost solely toward food production for military and civilian needs. Provisions have been made to meet special military requirements such as training for signal corps work. Course offerings have been geared to the war effort, special emphasis being placed upon first-aid instruction. In these and in many other ways has the University adapted itself to a world at war.

These changes are reflected in the introductory portions of this catalogue, and also in the description of the programs of course work. The faculty and staff listed for 1942-1943, while reduced, is considered sufficient to meet instructional needs. Course offerings are also curtailed. In all of these changes the University has been zealous in protecting the standards of the institution and the interests of the students. The present catalogue pictures the University of Hawaii as a wartime institution, subject to still further adjustment as the emergency may dictate, but subject likewise to renewed expansion when the emergency is past.

GENERAL DESCRIPTION

The University of Hawaii lies at the mouth of beautiful 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 land holdings 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 do 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 the 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. Instruction
began in 1908 with two instructors and five students in a temporary location on
the grounds now occupied by the Lincoln School in Honolulu. After a few years
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.

Eleven years later, 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 the property of the Normal School was
placed 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 Euro­
pean and Oriental universities on the same basis as may 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 five
years. The charter and by-laws 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 18 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. As a war emergency measure, the summer
session has been increased to twelve weeks to enable students to accelerate their
work in degree programs.

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 registered cable address of the University is COLWAI, Honolulu.

The University's instructional organization consists of the College of Applied
Science, the College of Arts and Sciences, and Teachers College. Graduate work
is provided by each of these colleges, although temporarily curtailed by limitations
in faculty and students. Provision for adult education is made through the Depart­
ment of Adult Education in Teachers College, with special emphasis upon extension
and correspondence service for military personnel. The special divisions include
the Hawaii Agricultural Experiment Station and the Cooperative Extension Service
in Agriculture and Home Economics. The Oriental Institute and the Graduate
School of Tropical Agriculture are dormant for the period of the emergency, but
courses in these fields of study continue to be offered. Research in all fields goes
forward, but on a limited scale, for the University during the war is placing major
emphasis upon defense needs and undergraduate instruction.

The University Senate, composed of faculty personnel of full professorial and
associate professorial rank and of others designated by the Board of Regents, con­
cerns itself with instructional and related problems.

In addition to its instructional program, the University offers several other
forms of public service.
The Psychological and Psychopathic Clinic is a territorial agency under the management of the University. The Clinic 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 a traveling psychologist 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. A training course in the psychology of social supervision and control is being arranged.

The Pineapple Producers Cooperative Association is affiliated with the University in the work of its experiment station which is called the Pineapple Research Institute of Hawaii. The expense of the station is borne by the Association. The field work is carried on largely at Wahiawa in the heart of the pineapple country, while the laboratory and technical investigations are conducted at the University in buildings erected by the Association.

Seismological Observatory. The United States Coast and Geodetic Survey operates a seismological observatory in Gartley Hall, under an agreement with the University whereby the results and observations are placed at the service of the Territory.

The Volcano Laboratory on the island of Hawaii, conducted in cooperation with the National Park Service and the Hawaiian Volcano Research Association, 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 is operated by the University 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.

Bernice Pauahi Bishop Museum. The University and the Bishop Museum reciprocate in the use of libraries, laboratories, collections, and other facilities of research. Graduate students registered in the University are allowed to carry on investigations under the guidance of members of the Museum staff for credit toward advanced degrees from the University. 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. The Association maintains an experiment station whose facilities are available to the University for instructional purposes. Students in Sugar Technology spend a semester at this station as a part of their program of study. Several members of the station staff take part in the instructional work of the University.
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 conducting a training course for nurses. Part of the courses of instruction are offered at the University and others at the Hospital.

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, the Agriculture and the Home Economics Buildings, 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 science department is housed chiefly in Dean Hall. The physical science department is 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. An outdoor theater, whose backdrop consists in a tropical garden and the Koolau mountain range, is the setting for Commencement and other University programs.

The Library, which contains 147,931 volumes and 347,114 pamphlets, is a depository for government publications. Extensive collections of Chinese and Japanese works and a growing collection of valuable books and periodicals about Hawaii are among its features. Its 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 University bookstore is maintained.

Residence accommodations on or near the campus include the Charles H. Ather­ton House for men and two dormitories for women students. Meals are served at the cafeteria in Hemenway Hall.

A swimming pool, tennis courts, locker buildings, and a cinder track are grouped near Wise Field, which is used for football and baseball practice and military drill. Cooke Field affords facilities for track sports.

The Honolulu Stadium, with a seating capacity of 22,000 and equipped for football, baseball, and other outdoor sports, is regarded as an integral part of the University's plant resources for physical education and athletics. It is leased from the Honolulu Stadium Corporation, in which the University holds a controlling interest.

Other buildings connected with the University include the R.O.T.C. Building, Hawaii Hall Annex (which houses the Psychological Clinic and the offices of the English Department), the Nutrition Laboratory, the Entomology Building, the 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.
GENERAL INFORMATION

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.

GENERAL REGULATIONS

CLASSIFICATION OF STUDENTS

Students in the University are broadly classified in the following groups: undergraduates, graduates, and noncredit students.

The undergraduate students, comprising about three fourths of the student body, are of two kinds: regular students and unclassified students.

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 the bachelor's degree. Regular students ordinarily carry full-time programs (10 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 10 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 case 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 postgraduate work in Teachers College.

Candidates for certificates in social case work are persons taking postgraduate work in the School of Social Work Training.

Most of the other graduate students—candidates for neither degrees nor diplomas—are teachers seeking professional improvement by taking graduate courses.

Noncredit students include:

Special students, who are persons qualified to participate in class work but who, though registered in credit courses, receive no credit.

Auditors, who are permitted to attend certain credit 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.

Persons who desire to become regular, unclassified, or special students and who have not previously earned credits in an institution of higher learning must apply to the registrar. 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 registrar.

The application procedure for persons who have credits from other institutions of higher learning is described hereafter under Admission to Advanced Degree 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 many 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). Other examinations given during the Freshman Orientation Period include the modern language placement tests for students intending to enter advanced courses in Hawaiian, Chinese, Japanese, French, German or Spanish, and the mathematics placement test for students intending to register for courses in mathematics.

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 15 units of work in a four-year high school or at least 12 units of work in a three-year senior high school.

The word unit as employed here signifies the satisfactory completion of a course of study pursued for a full school year, with five recitations a week of not less than 45 minutes each, or the equivalent laboratory or shop exercises. For an acceptable distribution of the units required from entering students, see table on page 22.

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 these examinations along with a complete record of work done in preparatory school.

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.

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.
**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>
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<tbody>
<tr>
<td>3</td>
<td>ENGLISH</td>
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<tr>
<td>1</td>
<td>ALGEBRA</td>
<td>1 (not required if the student had ninth-year general mathematics in intermediate, i.e., junior high school)</td>
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<td>ENGLISH (in addition to the 3-unit minimum requirement in English)</td>
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<td>SCIENCES—physical, biological, and social</td>
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<td>MATHEMATICS (in addition to the 1-unit minimum requirement in mathematics)</td>
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<tr>
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<td>FOREIGN LANGUAGES (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>
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<tr>
<td>6</td>
<td>Any other subjects 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>
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<td>15</td>
<td>TOTAL</td>
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</tbody>
</table>

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 of Agriculture, Sugar Technology, and premedical work, all of whom 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 21 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 21 years of age may be admitted as unclassified students if they are able to meet fully the entrance requirements for regular freshman standing but desire to carry only a few courses.

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 Special Students. Qualified persons interested in certain courses without desire for credit may be admitted as special students. They attend classes and take part in the courses for which they are registered, but they receive no credit. Applicants refused admission as regular or unclassified students are not permitted to enter under this classification.

Admission of Auditors. Persons desiring the privilege of attending classes as auditors will obtain the written consent of the dean of the college and present it to the registrar at the time of registration.

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 dean of the college concerned. 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 mid-September for the first semester, in mid-January for the second semester, and in mid-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
GENERAL INFORMATION

is assigned at registration time to a faculty member who acts as his adviser in selecting courses.

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 announced in the catalogue and in the time schedule. However, certain courses in which students carry on individual work are marked credit by arrangement or the number of credits is listed as var (variable). 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 after the announced registration days in any semester only in exceptional cases and for valid reasons. The following rules govern such registration.

All students completing their initial registration for any semester after the announced registration days must pay a special fee (see Tuition and Fees).

Registration in the University (other than registration of auditors) is not permitted later than six calendar days following the first day of class work in any semester unless the student obtains the consent of the dean of the college in which he desires to register. Such consent is given only for good and sufficient reasons.

A student already registered who wants to enter courses in which he did not originally register may do so within the period ending the sixth calendar day following the first day of class work in any semester. This is done by obtaining a form for such change from the dean of the college in which he is registered, by having that form properly filled out and signed, by taking it to the cashier for recording and adjustment of fees, and by depositing it in the registrar's office as authorization for the desired change.

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. In order to be officially recognized, the withdrawal of an undergraduate from a course must have the written consent of the dean in whose college the student has registered. This consent must be on a form procured 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 to be obtained from the registrar's office; signatures as indicated on the form must be obtained, and the completed application must be returned to the registrar's office.

During the first six 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 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). Withdrawal from a course during the last two weeks of a semester is not permitted. 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 the 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 nonlaboratory 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 are expected to take the initiative by conferring with the instructor or instructors concerned. An E may be removed 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 not receive either credits or 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 I 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 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 60 semester hours of the work of such honors students must have been obtained at the University during a period not exceeding 6 years before graduation.
GENERAL INFORMATION

Transfers to Other Institutions. Accredited American institutions of higher learning, including the University of Hawaii, give transfer students credit toward graduation only in subjects in which the grade received was C or better. (See Tuition and Fees for further note on transfer.)

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, when withdrawing from the University during a semester, are not passing) 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 have failed to earn, after four semesters' attendance, 1.8 times as many grade points as the total of their registered credits.

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. 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-weeks 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.

No student with entrance conditions may be registered as a sophomore, none with conditions in required freshman subjects as a junior, and none with conditions in required sophomore subjects as a senior.

Permission to enter the junior year as a candidate for a bachelor's degree is dependent not only upon academic standing but also upon proficiency in oral and written English.

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

Superior students may study independently under faculty supervision. The type of each student's study is, in general, arranged by the department with the instructor or instructors and the student. Further information may be obtained from deans of the colleges and from members of the faculty Committee on Independent Study. All University departments have expanded their offerings of this nature, especially to meet the needs of military personnel.

UNDERGRADUATE DEGREE REQUIREMENTS

Credit and Grade-Point Requirements. Minimum credit requirements for the baccalaureate (bachelor) degree vary in the colleges. The minimum requirement in the College of Arts and Sciences is 128 credits, and in Teachers College 130 credits. In the College of Applied Science the minimum requirement varies from 136 to 148 credits.

A minimum of 264 grade points is required for graduation from any of the three colleges. To receive a degree, after failure to graduate because of lack of grade points, a student must earn a certain 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 30 grade points in some one semester, or a minimum of 14 grade points in a six-weeks summer session, or a minimum of 28 grade points in a twelve-weeks summer session.

Kinds of Baccalaureate Degrees. Upon satisfactory completion of a regular program in the College of Applied Science, a candidate is granted the degree of bachelor of science (B.S.), the diploma designating 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 (Ed.B.). 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 30 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 14 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 24 residence credits during any four of five consecutive summer sessions just preceding the granting of the degree; or

3. earn a minimum total of 24 residence credits by carrying not less than 2 credit hours per semester and 6 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
GENERAL INFORMATION

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.

REQUIREMENTS OF MEDICAL SCHOOLS

The student in the University of Hawaii who expects to study later in a medical school may follow one of two procedures: (1) he may study here four years and procure a bachelor degree before entering medical school; or (2) he may take a two- or three-year program here, comprising only those courses required for admission to certain medical schools.

The first of these alternatives is strongly advised. Students who elect the second alternative should make sure that the work taken will satisfy the entrance requirements of the medical schools to which they expect to go.

Those students who choose to remain in the University of Hawaii four years before going to medical school will register in the General Science program of the College of Applied Science if they wish to obtain a B.S. degree, or in Group III (Biological and Physical Sciences) in the College of Arts and Sciences if they wish to obtain a B.A. degree.

Entrance requirements of the medical schools vary considerably, some of them demanding subjects not elsewhere required. Consequently, each prospective student of medicine should inform himself of the requirements of the institution to which he expects to go. Medical schools generally have adopted the entrance requirements of the American Medical Association, which are as follows:

Preparatory school—A minimum of 15 units, of which at least 3 must be in English, 2 in some one foreign language, 2 in mathematics (including algebra through quadratics), and one in history.

College or university—A minimum of 60 credit hours. These 60 credits must include the following, totaling 54:

<table>
<thead>
<tr>
<th>Semester Hours</th>
<th>University of Hawaii Equivalent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry</td>
<td>Chemistry 103, 149, 150, 230</td>
</tr>
<tr>
<td>Physics</td>
<td>Physics 102</td>
</tr>
<tr>
<td>Biology</td>
<td>Zoology 100, 151</td>
</tr>
<tr>
<td>English Composition</td>
<td>English 100 or 102</td>
</tr>
</tbody>
</table>

Other nonscience subjects:
History, language, economics .... 12

The additional credits to complete an aggregate of 60 or more may be taken from the following strongly urged subjects:

<table>
<thead>
<tr>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>A modern foreign language ........ 6 to 12</td>
</tr>
<tr>
<td>Advanced zoology or advanced botany ...... 6 or more</td>
</tr>
<tr>
<td>Psychology ........ 6 or more</td>
</tr>
<tr>
<td>Advanced mathematics, including trigonometry ...... 3 to 6; or may be in the following suggested electives; English (in addition to other credits in English), economics, history, sociology, political science, logic, mathematics, drawing, Latin, Greek.</td>
</tr>
</tbody>
</table>

TUITION AND FEES

Students registered for 10 or more credit hours in any semester, pay $50 for tuition and $10 for registration per semester. Students registered for fewer than
10 credit hours in any semester pay $5 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.

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 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:

<table>
<thead>
<tr>
<th>Withdrawal during</th>
<th>100%</th>
<th>fifth week of instruction</th>
<th>40%</th>
</tr>
</thead>
<tbody>
<tr>
<td>first 2 weeks of instruction</td>
<td></td>
<td>sixth week of instruction</td>
<td></td>
</tr>
<tr>
<td>third week of instruction</td>
<td>80%</td>
<td>remainder of semester</td>
<td>0%</td>
</tr>
<tr>
<td>fourth week of instruction</td>
<td>60%</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

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 case work and the public health nursing certificate the fee is $2.50. For all other degrees and diplomas the fee is $5.

A graduate student receiving an advanced degree must pay, before the degree is awarded, a fee of $4 to cover 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 for each subsequent copy.

Steel book lockers for student use are situated in Hawaii Hall. The use of a locker for a year may be obtained from the business office by paying $1, of which 50 cents will be refunded when the key is returned at the end of the university year.

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 a year and the A.S.U.H. annual membership fee for undergraduates taking 10 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 *ASUH Handbook*, which is available to all students affected.

**SPECIAL EDUCATIONAL SERVICE**

**MILITARY TRAINING**

For the period of the emergency, or until further notice, military training will not be offered, R.O.T.C. officers and many of the students being in active military service. It is assumed that such training will again be available after the war, in accordance with requirements placed by the United States Congress on all land-grant colleges. Under these provisions, 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 14 years old, whose 26th 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 9 credit hours of work and having fewer than 64 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.

HEALTH, PHYSICAL EDUCATION, AND SPORTS

The University expects every student to safeguard his health. At the same time, it offers the student 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 25 years of age who are registered for 10 or more semester hours of academic work must take at least one credit hour of 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 105, Personal Hygiene.

A student enrolled in a required course in Physical Education and also participating in a varsity sport may be excused from attendance in 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 selected by the Associated Students of the University of Hawaii, two by the Alumni Association, and two by 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 on the campus.

During the war emergency period added emphasis is given to all phases of health services and instruction. A medical aid center has been established. All students are expected to take first-aid or other similar courses. Protection of students' health, and preparation for service in emergency are stressed.
ADULT EDUCATION

The Adult Education Department, which is under the administration of Teachers College, offers noncredit courses on and off the campus. It offers 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. The Department schedules visiting lecturers and resident faculty members for public appearances on the campus, in Honolulu, and in outlying communities. For a nominal rental charge it lends educational films, both sound and silent, to schools and organizations. It maintains a free Play Loan Library service for schools and amateur theatrical groups.

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 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, and 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.

Noncredit 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 usual six-weeks summer session has been extended to twelve weeks, as a war measure in the interest of an acceleration of student progress in degree programs. The session is planned as a short semester, enabling the student to earn 12 to 14 credits. Several courses are six weeks in length for the convenience of teachers in service and others who may not wish to attend for the full period. Tuition for the summer session is $50 for a credit load of 10 or more semester hours. For fewer than 10 hours a charge of $5 per point of credit is charged. A registration fee is not required. A special summer bulletin is published, obtainable upon request from the Office of Publications.

STUDENT AFFAIRS

STUDENT LIFE

Student life at the University is necessarily altered due to wartime conditions and needs. In many ways students are contributing to the war effort—through entertainment of service personnel, through salvage and war bond campaigns, through volunteer work under the Office of Civilian Defense, and through Red Cross work. The student projects typical of normal school life will be continued, subject to the necessary limitations of wartime conditions. These are described in the following paragraphs.

The Associated Students of the University of Hawaii is a self-governing organization whose stated object is to promote and to 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.
GENERAL INFORMATION

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

University of Hawaii athletic and debating teams hold intercollegiate contests with representatives of universities of the mainland United States and of the Orient.

The University Theatre Guild endeavors to present each year a series of productions peculiarly appropriate to the cultures of Hawaii, of mainland America or western Europe, and of the Orient.

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

Student extracurricular life centers in Hemenway Hall, paid for partly through student, alumni, and faculty contributions. Student mail is distributed in this building.

Through the offices of the college deans and the counsellor for women, a high standard of student conduct is maintained. Students are assisted in working out personal problems, such as those of residence, health, part-time employment, scholastic standing, social life, vocational guidance, and finance. In cooperation with the University treasurer, arrangement is made for loans to needy students in good standing.

LIVING ACCOMMODATIONS AND EXPENSES

All possible assistance is given to students in locating suitable living accommodations. Letters of inquiry and requests for rooms in the campus dormitories should be addressed to the counsellor for women.

Men students ordinarily may obtain comfortable lodgings at Atherton House, a dormitory adjoining the campus. Room rates range from $40 to $100 a semester. Accommodations at present are, however, limited by military use of the building.

For women students the University provides two dormitories. Residents in both places supply their own sheets, blankets, pillow cases, towels, and curtains. Room rent in Hale Aloha is $55 for the first semester and $50 for the second semester, payable in September and February. In Hale Laulima, a cooperative house, each young woman shares a double room, assists in cooking and housekeeping, pays $7 a month for rent, and shares other living expenses, including the cost of food. Total current living expenses on this plan approximate $20 per person per month.

Most residents of Atherton House and Hale Aloha take their meals at Hemenway Hall where food is available, cafeteria style, at very reasonable rates.

Minimum expenses of the average student are estimated at from $500 to $600 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 $400. 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 40 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 pay-
ment of tuition costs until after graduation. Students wishing to make use of these funds should consult the college dean or the counsellor for women with respect to the proper procedure for application and the conditions under which the various loans are granted. Loan funds include the following:

*Alumni Student Aid Fund*
*Alumni Fund—Molokai Chapter*
*American Bankers Association Loan Fund*
*American Legion Fund*
*Business and Professional Women’s Club Loan Fund*
*Chinese Students’ Alliance Loan Fund*
*Commerce Club Loan Fund*
*Daughters of the American Revolution Student Fund of Hawaii*
*Emergency Loan Fund*
*Future Farmers of America, Uniwai Chapter Loan Fund*
*George H. Lamy Loan Fund*
*Hawaiian University Association Loan Fund*
*Helen Strong Carter Dental Fund*
*Honolulu Civic Association Loan Fund*
*Inez Wheeler Westgate Fund*
*Japanese Students’ Alliance Loan Fund*
*Maui Women’s Club Fund*
*Mckinley Scholarship Fund*
*Moir-Ross Health Fund*
*N.G.B. Fund*
*P.E.O. Sisterhood Loan 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 made donations or grants that enable the University to offer financial assistance to students in the form of scholarships. All scholarship awards are made by a faculty Scholarship Committee. (The candidate should consult the counsellor for women for application information.) Unless otherwise specified all scholarships are awarded annually and may be withdrawn from individuals if a good standard of scholastic work is not maintained.

The names and the characteristics of the scholarship funds follow:

*Alonzo Gartley—Two scholarships of $150 each, given in memory of Alonzo Gartley, who was for many years a regent of the University, awarded to men students in Sugar Technology or Agriculture.*
Chinese Community—A fund of about $3000 given to the University of Hawaii to endow scholarships for juniors and seniors of Chinese ancestry.

Chinese Students' Alliance—A general scholarship fund maintained by the Chinese Students' Alliance.

Chinese University Men—A scholarship of $50 awarded to a deserving and needy man student of Chinese ancestry above freshman standing.

Chinese University Women—A scholarship of $50 awarded to a deserving and needy woman student of Chinese ancestry above freshman standing.

Chinese Women's Club—A scholarship of $50 awarded to a deserving and needy woman of Chinese ancestry above freshman standing.

Edison B. K. Tan Memorial—A scholarship of $50 a semester given by the friends of Edison Tan, '38, to a worthy upperclassman, preferably an economics or business major.

Filipino Women's Club, International Institute, Y.W.C.A.—Two scholarships of $25 each given to students of Filipino ancestry and of good scholastic standing, one to an entering freshman and one to an upperclassman.

Hawaiian Civic Club of Hilo—A scholarship loan of $150 a year, awarded to male Hawaiian students of Hawaii county who desire to attend or are attending the University.

Honolulu Civic Association—A scholarship, the amount varying from year to year.

Korean National Association of Hawaii—A scholarship of $100 awarded annually to one or two students of Korean ancestry above freshman standing.

Korean University Club—A scholarship of $50 a semester awarded to a student of Korean ancestry.

Leora Parmelee Dean—The sum of $100 awarded by the Women's Campus Club 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 Club.

Mary Dillingham Frear—A scholarship not exceeding $150 awarded to a meritorious student.

Ruth D. Scudder—A scholarship awarded to a deserving woman student from a memorial fund maintained by the Women's League of Central Union Church.

Stephen Spaulding—The income of an endowment of $2500, given by Florence Tucker Spaulding in memory of her son, Stephen Spaulding, ex-'27, awarded as a scholarship to a man student.

Territorial—Six scholarships of $120 each awarded each year to entering freshmen, one from each representative district in the Territory of Hawaii; these scholarships are held four years if the beneficiaries maintain a satisfactory standard of scholarship and conduct.

Women's League of Central Union Church—A general scholarship fund maintained by the Women's League of Central Union Church for the assistance of several women students, preferably seniors.

Yang Chang Hui—A scholarship of $50 awarded to a woman student of Chinese ancestry above freshman standing.
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.

Theatre Guild Diction Awards—The University of Hawaii Theatre 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 marksman ship 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.
The College of Arts and Sciences has a twofold purpose. Its first aim is to make possible a comprehensive and somewhat thorough acquaintance with those fields of thought and achievement, both in the humanities and the sciences, upon which our present civilization has been reared. Its second aim is to offer preparation for those activities which are professional rather than technical in their nature, such as law, medicine, journalism, commerce, and public and social service. The subjects offered are, in the main, those recognized as forming the basis of a liberal education. The four-year curriculum leads to the bachelor of arts degree.

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

DEPARTMENTAL ORGANIZATION

Because of war conditions which have greatly reduced the faculty and student body, certain departments of the University have been regrouped into six broad departments in the College of Arts and Sciences. The purpose is to improve the administrative organization. These departments are as follows:

1. Biological Sciences (Bacteriology, Botany, Zoology)
2. English (Composition, Speech, Literature)
3. Fine Arts (Art, Music)
4. Languages (Chinese, French, German, Hawaiian, Japanese, Spanish)
5. Physical Sciences (Chemistry, Geography, Geology, Mathematics, Physics)

ADMISSION AND CREDIT

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

Each freshman in the College is enrolled in one of the following groups, the selection depending upon his interests: Group I—Social Sciences; Group II—Languages, Literature, and Art; Group III—Biological and Physical Sciences; Group IV—Economics and Business.

Credit is granted only for those courses regularly entered upon the registration card, and signed by the faculty adviser if the student is a freshman, sophomore, or junior; by the faculty adviser and the dean if the student is a senior.

REQUIREMENTS FOR GRADUATION

To be entitled to a degree from this college a student—

1. must take certain freshman and sophomore subjects (see details stated hereafter);
2. must have a major and a minor (see Major and Minor Requirements);
3. must have at least 50 semester hours of credit in courses numbered 200 or higher (upper division work);
(4) must have an aggregate of at least 128 semester hours of credit; and
(5) must have an aggregate of at least 264 grade points (see Credits, Grades, Grade Points, Honors).

FRESHMAN AND SOPHOMORE REQUIREMENTS

During the first two years all students in the College of Arts and Sciences must complete a year course in English Composition (all entering students who are deficient in composition or speech will be required to take additional laboratory work without credit until this deficiency is removed), a year course in English Literature, a year course in the History of Western Civilization, a semester course in American History, a semester course in American Government, a year course in second-year foreign language (those who have had two years of a language in high school and demonstrate adequate knowledge in a placement test need take only a second year course in college), a year course in a biological or physical science, and two years of Health and Physical Education.

MAJOR AND MINOR REQUIREMENTS

A major consists of 24 semester hours of credit earned in one of the following subjects, or specified subdivisions:

- Anthropology
- Art
- Bacteriology
- Botany
- Plant Physiology
- Taxonomy
- Business
- Chemistry
- Chinese
- Economics
- English
- Literature
- French
- Government
- History
- Japanese
- Mathematics
- Philosophy
- Physics
- Psychology
- Religion
- Sociology
- Zoology
- General Zoology
- Premedics

A minor consists of 12 semester hours of credit and must be in a field other than that of the major. Minors are permissible in any of the foregoing fields and in Geology, German, Hawaiian, and Spanish.

Major and minor subjects must be chosen by the beginning of the junior year. However, since all departments require students intending to major in their fields to take certain sophomore courses as background, it is strongly advised that majors be selected by the beginning of the sophomore year.

Following are the required courses for sophomores intending to major in the various fields:

(SEE NEXT PAGE)
<table>
<thead>
<tr>
<th>SUBJECT (OR SUBDIVISION OFFERING A MAJOR)</th>
<th>SOPHOMORE COURSES PREREQUISITE TO MAJORING IN THE FIELD AND (IN ITALICS) COURSES RECOMMENDED FOR STUDENTS INTENDING TO MAJOR IN THE FIELD.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anthropology</td>
<td>Anthropology 150-Sociology 151; Philosophy 150-Psychology 150; Geology 150 and Zoology 100 recommended but not required.</td>
</tr>
<tr>
<td>Art</td>
<td>Art 180-181. Two of the following: Anthropology 150-Sociology 151; Economics 150-151; Philosophy 150-Psychology 150.</td>
</tr>
<tr>
<td>(Art 150-151 and 154-155 should have been completed in the freshman year.)</td>
<td></td>
</tr>
<tr>
<td>Bacteriology</td>
<td>Bacteriology 151; Botany 102 or Zoology 181; Botany 173 or Zoology 191; Chemistry, either 149 or 150.</td>
</tr>
<tr>
<td>Botany</td>
<td>Bacteriology 151; Botany 102, 173; Chemistry, either 149 or 150. Bacteriology 151; Botany 102, 173.</td>
</tr>
<tr>
<td>Plant Physiology</td>
<td></td>
</tr>
<tr>
<td>Taxonomy</td>
<td></td>
</tr>
<tr>
<td>Business</td>
<td>Business 150-151; Economics 150-151; Philosophy 150-Psychology 150.</td>
</tr>
<tr>
<td>Chemistry</td>
<td>Chemistry 150, 171. Two of the following: Anthropology 150-Sociology 151; Economics 150-151; Philosophy 150-Psychology 150; Religion 150-151.</td>
</tr>
<tr>
<td>Chinese</td>
<td>Chinese 101; Economics 150-151; Philosophy 150-Psychology 150; Religion 150-151.</td>
</tr>
<tr>
<td>Economics</td>
<td>Anthropology 150-Sociology 151; Economics 150-151; Philosophy 150-Psychology 150.</td>
</tr>
<tr>
<td>English Literature</td>
<td>Anthropology 150-Sociology 151; Economics 150-151; English 150; Philosophy 150-Psychology 150.</td>
</tr>
<tr>
<td>French</td>
<td>Anthropology 150-Sociology 151; Economics 150-151; French 101; Philosophy 150-Psychology 150.</td>
</tr>
<tr>
<td>Government</td>
<td>Anthropology 150-Sociology 151; Economics 150-151; Philosophy 150-Psychology 150.</td>
</tr>
<tr>
<td>Subject</td>
<td>Major Prerequisites</td>
</tr>
<tr>
<td>------------------</td>
<td>-------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>History</td>
<td>Anthropology 150-Sociology 151; Economics 150-151; Philosophy 150-Psychology 150.</td>
</tr>
<tr>
<td>Japanese</td>
<td>Economics 150-151; Japanese 103; Philosophy 150-Psychology 150; Religion 150-151.</td>
</tr>
<tr>
<td>Mathematics</td>
<td>A course in mathematics, according to the student's preparation. Two of the following: Anthropology 150-Sociology 151; Economics 150-151; Philosophy 150-Psychology 150; Religion 150-151.</td>
</tr>
<tr>
<td>Philosophy</td>
<td>Anthropology 150-Sociology 151; Philosophy 150-Psychology 150; Religion 150-151.</td>
</tr>
<tr>
<td>Physics</td>
<td>Mathematics 154; Physics 102. One of the following: Anthropology 150-Sociology 151; Economics 150-151; Philosophy 150-Psychology 150; Religion 150-151.</td>
</tr>
<tr>
<td>Psychology</td>
<td>Anthropology 150-Sociology 151; Economics 150-151; Philosophy 150-Psychology 150.</td>
</tr>
<tr>
<td>(Zoology 100 and 151 should have been taken in the freshman year but may be taken in the sophomore year.)</td>
<td></td>
</tr>
<tr>
<td>Religion</td>
<td>Anthropology 150-Sociology 151; Philosophy 150-Psychology 150; Religion 150-151.</td>
</tr>
<tr>
<td>Sociology</td>
<td>Anthropology 150-Sociology 151; Economics 150-151; Philosophy 150-Psychology 150.</td>
</tr>
<tr>
<td>Zoology</td>
<td>Chemistry, either 149 or 150; Zoology 180 and either 181 or 191. Anthropology 150-Sociology 151 and Philosophy 150-Psychology 150 are recommended but not required.</td>
</tr>
<tr>
<td>General Zoology</td>
<td>Chemistry, either 149 or 150; Zoology 160, 191; Anthropology 150-Sociology 151 and Philosophy 150-Psychology 150 are recommended but not required.</td>
</tr>
</tbody>
</table>
COLLEGE OF APPLIED SCIENCE

The College of Applied Science combines the instructional programs usually offered by colleges of agriculture and colleges of engineering. Its principal programs are in the following fields: Agriculture, Engineering, Sugar Technology, Home Economics, General Science. It offers also a limited program in Public Health Nursing.

ADMISSION

Although requirements for admission to this College are, in general, the same as those for admission to the University as a whole, students desiring to undertake some of the programs should have special preparation.

Students who wish to complete the Engineering program in four years must present credentials showing that they have earned preparatory school credits in algebra through quadratics, plane geometry, and trigonometry. Solid geometry, mechanical drawing, and physics are strongly advised, though not required. In addition, engineering students are expected to be well prepared in the physical sciences.

Prospective students in Agriculture, Sugar Technology and premedical work, all of whom must take college mathematics in preparation for physics, and other 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.

All students in General Science, including premedical students, should also have had two years of a foreign language, two years of history, and three years of science.

Students who wish to obtain a degree in nursing in the General Science program must be graduates of the four-year curriculum of the Queen's Hospital School for Nurses.

Students who are poorly prepared or are admitted with deficiencies and are obliged to elect extra subjects cannot complete the program in four years. Students obliged to take English 100 Laboratory and Mathematics 149 are not permitted to carry, in addition, the regular prescribed freshman program.

REQUIREMENTS FOR GRADUATION

The degree of bachelor of science is granted upon satisfactory completion of any of the four-year programs of study offered in this College, provided the student has been registered in that program for at least two semesters before graduation.

During the first two years all students in the College of Applied Science must complete a year course in English Composition (all entering students who are deficient in composition or speech will be required to take additional laboratory work without credit until this deficiency is removed) and a year course in English Literature. Courses in Health and Physical Education must be taken during the freshman and sophomore years as prescribed in the headnote to the section for Health and Physical Education under ANNOUNCEMENT OF COURSES.

[40]
The Agriculture, Home Economics, and General Science programs require 136 credits for graduation, the Engineering program 148, and the Sugar Technology program 142. (The Sugar Technology total includes 6 credits from a required course taken during the summer.) All five of the programs require 264 grade points for graduation.

In planning his work in the University, the student should, with the assistance of his faculty adviser, make sure that he meets all the requirements of the College and of the program he selects. Additional credits needed to meet University requirements for graduation, if any, may be earned in any courses he chooses.

Description of the programs follows:

AGRICULTURE

The curriculum in Agriculture is designed to give the student an intimate knowledge of the fundamental principles underlying agriculture as a science and a profession and to equip him for effective service in this general field. Agricultural science comprehends a wide range of subjects, including something from nearly every department of human learning. The natural sciences of geology, chemistry, physics, botany, zoology, bacteriology, and physiology are directly and intimately related to it. Not in the sciences alone should the agricultural student be broadly educated, but also in mathematics, languages, history, and economics.

The objective in planning the agricultural courses is to teach the general laws governing the relationship of growing crops and living animals to soil, climate, and environment. The methods include laboratory investigations, field experiments, and lectures.

A general curriculum in agriculture is planned. The student has a wide choice of electives but is urged to select at least 18 credits in strictly agricultural subjects. All electives are chosen with the advice and consent of the adviser. All degree candidates are required to take the courses listed below:

<table>
<thead>
<tr>
<th>First Year</th>
<th>Second Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture 100, 151, 152</td>
<td>Agriculture 162 or 164</td>
</tr>
<tr>
<td>Botany 100, Zoology 100</td>
<td>Bacteriology 151</td>
</tr>
<tr>
<td>Chemistry 103</td>
<td>Botany 173</td>
</tr>
<tr>
<td>English 100 or 102</td>
<td>English 150</td>
</tr>
<tr>
<td>Mathematics, either (1) 149, 150</td>
<td>Physical Education 105, 135</td>
</tr>
<tr>
<td>or (2) 150, 151</td>
<td>Physics 102</td>
</tr>
<tr>
<td>Physical Education 100</td>
<td>Zoology 170, 173</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Third Year</th>
<th>Fourth Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture 164 or 162</td>
<td>Agriculture 299</td>
</tr>
<tr>
<td>Agriculture 250</td>
<td></td>
</tr>
<tr>
<td>Agriculture 254, 256</td>
<td></td>
</tr>
</tbody>
</table>

ENGINEERING

The program in Engineering is designed to train students thoroughly in the fundamental principles upon which professional engineering practice is based and to illustrate the application of these principles by the solution of numerous practical problems.

The general plan provides a broad foundation during the first two years in English, mathematics, chemistry, physics, and 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 on the interest of the student and must be so chosen, through consultation with the adviser, that they make up a well coordinated program.

### REQUIRED COURSES

<table>
<thead>
<tr>
<th>First Year</th>
<th>Second Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 103</td>
<td>Economics 150-151</td>
</tr>
<tr>
<td>Civil Engineering 101</td>
<td>English 150</td>
</tr>
<tr>
<td>English 100 or 102</td>
<td>Mathematics 154, 155</td>
</tr>
<tr>
<td>Mathematics 151, 152, 153, 156</td>
<td>Physical Education 105, 135</td>
</tr>
<tr>
<td>Mechanical Drawing 101</td>
<td>Physics 102</td>
</tr>
<tr>
<td>Physical Education 100</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Third Year</th>
<th>Fourth Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Civil Engineering 252, 253, 255</td>
<td>Business 161 or Mechanical Engineering 285</td>
</tr>
<tr>
<td>Mechanical Engineering 202, 203</td>
<td>Civil Engineering 276, 277, 279</td>
</tr>
<tr>
<td>Physics 275</td>
<td>Physics 202</td>
</tr>
</tbody>
</table>

### SUGGESTED ELECTIVES

<table>
<thead>
<tr>
<th>Second Year</th>
<th>Third Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anthropology 150-Sociology 151</td>
<td>Chemistry 230, 260, 262</td>
</tr>
<tr>
<td>Chemistry 149, 150, 151</td>
<td>Civil Engineering 227</td>
</tr>
<tr>
<td>or</td>
<td>Geology 150, 151</td>
</tr>
<tr>
<td>Civil Engineering 151, 153,</td>
<td>History or Government</td>
</tr>
<tr>
<td>Mechanical Drawing 152</td>
<td>Mathematics 252-253</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fourth Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 211, 212</td>
</tr>
<tr>
<td>Mechanical Engineering 282</td>
</tr>
</tbody>
</table>

### SUGAR TECHNOLOGY

The Sugar Technology program is designed for students interested in the growing of sugar cane and its manufacture into raw or refined sugar. Students desiring a more general training in agriculture which includes the study of sugar cane should enroll in the program in General Agriculture.

The Hawaiian Sugar Planters' Association offers opportunities for making more practical the instructional work of the University. Advanced students serve as apprentices in mills and plantations, and take part in H.S.P.A. Experiment Station projects.

The cane sugar industry, as carried on in the tropics, has two distinct branches: (1) the growing of cane and (2) its manufacture into sugar. Inasmuch as it would be extremely difficult to acquire thorough knowledge of both these branches in four years, the program in Sugar Technology is offered in two divisions, the Agricultural Division and the Sugar Chemistry Division.

### AGRICULTURAL DIVISION

It is advisable for students in the Agricultural Division to elect, in addition to strictly agricultural subjects, certain courses in chemistry. Analysis of sugar-

[42]
house products is also required, since familiarity with this work is often valuable for the agriculturalist. Lecture courses on heat in the sugar factory and on cane sugar manufacture are required, for it is desirable that the agriculturalist have some knowledge of processes in the sugar factory.

**SUGAR CHEMISTRY DIVISION**

The work of the first two years follows closely that of the Agricultural Division, but in the third and fourth years the program differs in offering more work in chemistry.

In the summer between the third and fourth years students in both the Agricultural and the Sugar Chemistry Divisions must do a minimum of four weeks' work in one of the plantation factories and must submit written reports in duplicate on the work performed.

The second semester of the fourth year is devoted almost entirely to practical work. Students in the Agricultural Division serve as student assistants in the H.S.P.A. Experiment Station, keep careful notes, and submit reports in duplicate at the end of the semester. Students in the Sugar Chemistry Division may do the same work as those in the Agricultural Division or may work as special apprentices in one of the plantation sugar factories, both in the mill and in the boiling house. Reports in duplicate must be submitted at the end of the semester.

### REQUIRED COURSES

#### AGRO-CHEMISTRY DIVISION

<table>
<thead>
<tr>
<th>FIRST YEAR</th>
<th>SECOND YEAR</th>
<th>THIRD YEAR</th>
<th>FOURTH YEAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 150, 151</td>
<td>Chemistry 150, 171</td>
<td>Agriculture 250</td>
<td>Agriculture 252</td>
</tr>
<tr>
<td>Civil Engineering 101</td>
<td>English 150</td>
<td>Chemistry 230</td>
<td>Economics 150</td>
</tr>
<tr>
<td>English 150</td>
<td>Physical Education 105, 135</td>
<td>Sugar Technology 201, 253</td>
<td>Sugar Technology 250, 255</td>
</tr>
<tr>
<td>Physical Education 102</td>
<td>Physics 102</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Sugar Technology 253, a required course in the third year of the Chemistry Division, is a summer course for which students register in the second semester of the junior year. The work is done in a factory during the summer period following the junior year. Suggested electives for the Chemistry Division third year are Agriculture 254 and 256.

Students taking Sugar Technology 255 or 257 do their work in the field or in a mill during the second semester of the fourth year and receive 16 credits for it.

**HOME ECONOMICS**

A general basic curriculum in Home Economics is offered for all students. In addition, students are given an opportunity to select special courses that will prepare them for work in Institutional Management and in teaching Vocational Home Economics. Students wishing to teach in the secondary school must complete the four-year program in Vocational Home Economics and then register for fifth-year work in Teachers College which leads to a five-year diploma.

Students obliged to take English 100 Laboratory on account of deficiency in English will not be allowed to carry the entire program required of first year students in Home Economics.

Students planning to enter the field of Institutional Management or Hospital Dietetics or Vocational Home Economics Education should include the following courses in their program.

*Institutional Management:* Household Science 260, 261, 263, 265, 264 or 266; Psychology 280. To satisfy requirements of the American Dietetics Association for a hospital dietician, Chemistry 149, 260, 262; Household Science 200 and 250 should be elected.

*Vocational Home Economics Education:* Psychology 150-Philosophy 150; Education 250, 253, 255; Home Economics 250, 251, 253; Art 172; English 130 or 134. Suggested electives: Psychology 280; Sociology 258; Art 175.

Those students who intend to become teachers or who desire the five-year diploma will register in Teachers College in their fifth year. Required courses in this program are Education 340, 350, 354, 390, 395, Home Economics 360. A suggested elective is Psychology 280.

The general outline of the program is as follows:

**First Year**

<table>
<thead>
<tr>
<th>Art 150-151</th>
<th>Chemistry 103</th>
<th>English 100 or 102</th>
</tr>
</thead>
<tbody>
<tr>
<td>Home Economics 100, 101</td>
<td>Household Art 110, 111, 150-151</td>
<td>Household Science 150</td>
</tr>
<tr>
<td>Physical Education 102</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Second Year**

<table>
<thead>
<tr>
<th>Bacteriology 156</th>
</tr>
</thead>
<tbody>
<tr>
<td>Economics 150-151</td>
</tr>
<tr>
<td>Household Art 114</td>
</tr>
<tr>
<td>Physical Education 105, 136</td>
</tr>
</tbody>
</table>

Choose electives from

<table>
<thead>
<tr>
<th>Art 154-155</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 149, 150</td>
</tr>
<tr>
<td>Philosophy 150</td>
</tr>
<tr>
<td>Psychology 150</td>
</tr>
</tbody>
</table>
HOME ECONOMICS—GENERAL SCIENCE

THIRD YEAR
Anthropology 150-Sociology 151
Home Economics 250, 252, 253
Household Science 200 or 272
Zoology 191

Choose electives from
Art 172, 175
Chemistry 260, 262
Education 250
English 130, 134
Government 150
Home Economics 251
Household Science 260, 261, 263, 265

FOURTH YEAR
Home Economics 291
Home Economics 262
Household Science 273

Choose electives from
Education 253, 255
Household Science 250, 264, 266
Psychology 280

GENERAL SCIENCE

Students in General Science may major in any one of the following fields:
Botany (bacteriology, plant physiology, taxonomy); Zoology (entomology, general zoology, premedical zoology); Physics and Mathematics (either combined or separate); Chemistry; Nursing. The major should be selected during the freshman year.

Requirements of the General Science program (other than those for nursing majors, whose program is described hereafter) are as follows:

1. Chemistry 103 in the freshman year
2. English 100 or 102 in the freshman year; English 150 in the sophomore year
3. Two years of physical education in the freshman and sophomore years
4. Six or more credits each in any five of the following groups:
   Anthropology 150-Sociology 151
   Botany 100-Zoology 100
   Chemistry 103
   Economics 150-151
   Geology 150, 151
   Mathematics (1) 149-150
   (2) 150-151
   (3) 152-153
   Physics 102
   Zoology 100, 151

5. 66 credits in either the Group A (Physical Sciences) electives or the Group B (Biological Sciences) electives listed on the following pages

6. a. For majors in Botany, Zoology (other than premedical), Chemistry, or Physics and/or Mathematics, 30 hours of credit in this major
   b. For premedical Zoology majors, 20 hours of chemistry and 12 hours of zoology.

Lists of courses to make up the 30 hours in (6a) and the 32 hours in (6b) are available to interested students.

Certain single courses are counted as meeting more than one of the foregoing requirements.

Students whose major is Chemistry are required to take the following courses in Chemistry: 103, 149, 150, 171, 211, 212, and 230. One year of college physics and one of mathematics are strongly advised.

The selection of a major and the choice between the Physical Sciences and Biological Sciences groups referred to in (3) should be made during the first year.
Since a working knowledge of French and German is essential for advanced work in chemistry, zoology, and botany, students who plan to major in those subjects should take French or German in the freshman year.

During his last four semesters the student must devote most of his time to his major and to closely related courses in the other fields named in (6).

Students who plan to meet the entrance requirements of medical schools by two or three years of resident collegiate work and students who plan to obtain a B.S. degree before going to medical school should register for this General Science program. The subjects they choose must, to a large extent, correspond to the admission requirements prescribed by the American Medical Association (see Requirements of Medical Schools) and by the schools they expect to enter. Such students who do not enter with credit in algebra through quadratics, plane geometry, and trigonometry must take either Mathematics 149 and 150 or 150 and 151 in the freshman year.

Courses from which the Physical Science and Biological Science electives must be selected are as follows:

**GROUP A—PHYSICAL SCIENCES**

<table>
<thead>
<tr>
<th>FIRST YEAR</th>
<th>SECOND YEAR</th>
<th>THIRD AND FOURTH YEARS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drawing</td>
<td>Chemistry 149, 150, 171</td>
<td>Chemistry 211, 212, 230, 260, 262, 263, 317, 320, 350</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>Civil Engineering 101</td>
<td>Civil Engineering 252, 253, 255</td>
</tr>
<tr>
<td>Geography 150, 151</td>
<td>Foreign Language</td>
<td>Mathematics 252-253</td>
</tr>
<tr>
<td>Government 150</td>
<td>Geology 150, 151</td>
<td>Mechanical Engineering 202, 203, 282</td>
</tr>
<tr>
<td>History 100</td>
<td>Mathematics 154, 155</td>
<td>Physics 152, 202, 255, 261, 275</td>
</tr>
<tr>
<td>Mathematics 149, 150, 151, 152, 153, 156</td>
<td>Physical Drawing 152</td>
<td>Sugar Technology 201, 250</td>
</tr>
</tbody>
</table>

First-year electives may be taken by sophomores.

Second-year electives may be taken by juniors and seniors.

**GROUP B—BIOLOGICAL SCIENCES**

<table>
<thead>
<tr>
<th>FIRST YEAR</th>
<th>SECOND YEAR</th>
<th>THIRD AND FOURTH YEARS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Botany 100-Zoology 100</td>
<td>Bacteriology 151, 156</td>
<td>Agriculture 250, 254, 256, 261</td>
</tr>
<tr>
<td>Drawing</td>
<td>Botany 102, 173</td>
<td>Bacteriology 260, 360</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>Chemistry 149, 150, 171</td>
<td>Botany 200, 202</td>
</tr>
<tr>
<td>Geography 150, 151</td>
<td>Foreign Language</td>
<td>Chemistry 230, 260, 262, 263, 317</td>
</tr>
<tr>
<td>Government 150</td>
<td>Geology 150, 151, 152-153</td>
<td>Economics 150, 151</td>
</tr>
<tr>
<td>History 100</td>
<td>Household Science 102</td>
<td>Geology 260, 262</td>
</tr>
<tr>
<td>Zoology 151</td>
<td>Psychology 150</td>
<td>Household Science 200, 272</td>
</tr>
<tr>
<td></td>
<td>Physics 102</td>
<td>Physics 255, 275</td>
</tr>
</tbody>
</table>

First-year electives may be taken by sophomores.

Second-year electives may be taken by juniors and seniors.

**NURSING MAJORS**

Students intending to enter the Queen's Hospital School for Nurses will register in the General Science program. The School admits to its three-year program
only students who are, or have been, regular students in the College of Applied Science.

Prior to entering the Queen's Hospital School for Nurses, the following University courses must be completed:

- English 100 or 102
- Chemistry 103
- Bacteriology 151, 156
- Household Science 150, 155

This work may be completed in two semesters by a student who devotes full time to it. Such a student may then enter the Queen's Hospital School for Nurses and spend the remaining three years of her program at the Hospital School. However, if the student did not have Psychology 150 and Anthropology 150-Sociology 151 while at the University, she must make some arrangements to take these courses during the time she is at the School.

After completing the three-year program of the School, a student may, if she wishes, return to the University and continue as a candidate for the B.S. degree. The work completed at the Hospital is accepted by the University as meeting the requirement of a major in Nursing and 30 credits are granted for it, provided the student has maintained at least an average of C for the work previously completed at the University. The additional work in the University is planned to meet the individual needs and desires of each student, but must be arranged in consultation with the dean and the student's adviser, and must, in general, follow the requirements of the Biological Sciences group. A total of 136 credits is required for graduation. The student must complete a second year of college English (English 150). In addition, she must acquire at least 6 credits each in at least five of the following fields:

- Botany
- Chemistry
- Economics or Anthropology-Sociology
- Geology
- Mathematics
- Nutrition
- Physics
- Zoology

PUBLIC HEALTH NURSING

In cooperation with Palama Settlement, the Territorial Board of Health, and other agencies, the University offers a one-year program in Public Health Nursing. Enrollment is strictly limited to registered nurses. Upon successful completion of this program the student receives a certificate in public health nursing.

Credits earned in this program may be applied, by those who are eligible, toward the degree of bachelor of science.

Detailed information about the program is contained in a pamphlet available on request. (See Public Health Nursing under Courses of Instruction.)
Teachers College prepares its students to teach in the public schools of Hawaii, and affords persons already teaching an opportunity to improve themselves professionally.

Administratively, Teachers College is organized in four departments, each with a special function. These departments are as follows:

1. The Education Department, which is responsible for the college program of professional education;
2. The Teacher Training Department, which is designed to provide experiential education for prospective teachers in the laboratory schools;
3. The Adult Education Department, which is responsible for the development of all phases of adult education service to the community. (See page 31.)
4. The Health and Physical Education Department, which has, in the main, three functions:
   a. Service to the entire University student personnel through courses in physical education;
   b. Health aid for all student personnel, through courses and the maintenance of medical and nursing service;
   c. Professional course service to prospective teachers of physical education and to prospective recreation leaders. (For further information see page 77.)

TEACHERS COLLEGE LABORATORY SCHOOLS

Two laboratory schools, for service in the teacher education program, are located on the campus. One of these, the Preschool Unit, housed in the new Castle Memorial Hall, is temporarily discontinued due to war conditions. The other, Teachers College Elementary and Intermediate School, continues to operate. The purpose of these two laboratories is primarily to provide practice and intern teaching facilities for prospective teachers under skilled supervision. They also serve as experimental laboratories in educational practice. In both units, an attempt is made to set up conditions as nearly ideal as possible, with small classes, selected children, and the best possible quarters and equipment. A strong supervisory staff, assisted by specialists in health, physical education, music, library science, and art, provides a rich educational experience for the children enrolled and sets a high standard of achievement for the prospective teacher.

PROGRAM OF WORK

The minimum preparation for teaching positions in the Territory's public schools consists of four years of undergraduate work and a postgraduate year. The College confers the bachelor of education degree upon students who complete the four-year program. For a year of prescribed postgraduate work the College offers a five-year diploma. Candidates for the five-year diploma include recipients of the bachelor of education degree and those holders of the bachelor of science degree who have specialized in Vocational Education while taking undergraduate work in the College.
of Applied Science. (See Vocational Education under Home Economics.) The College also offers work leading to a master's degree in the field of education. (See Master of Education Degree.)

ADMISSION

Students entering the College must meet certain standards of health, personality and oral English, in addition to the general University requirements for admission. Teachers College restricts the number allowed to enroll as freshmen in order that those who complete their preparation may be reasonably certain of obtaining positions in the schools of the Territory.

REQUIREMENTS FOR THE BACHELOR OF EDUCATION DEGREE

To be eligible for the bachelor of education degree, students must have at least 130 credits and at least 264 grade points (see Baccalaureate Degrees). The College offers two programs for the acquisition of the 130 credits, one for those who specialize in elementary education and one for those who specialize in secondary education. During the war emergency these two curricula have been largely merged. In the new temporary program there are 109 semester hours of required work. Students who have been preparing for secondary school teaching can, if they desire, fulfill the requirements as previously set up for two teaching majors. The following table details the prescribed work required for the Ed.B. degree.

<table>
<thead>
<tr>
<th>SEMESTER HOURS OF PRESCRIBED WORK</th>
</tr>
</thead>
<tbody>
<tr>
<td>SUBJECTS</td>
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<tr>
<td>-----------------------------------</td>
</tr>
<tr>
<td>Participation and practice teaching</td>
</tr>
<tr>
<td>Other education courses</td>
</tr>
<tr>
<td>Psychology</td>
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<tr>
<td>Philosophy</td>
</tr>
<tr>
<td>English</td>
</tr>
<tr>
<td>Social Science</td>
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<tr>
<td>Natural Science</td>
</tr>
<tr>
<td>Health and Physical Education</td>
</tr>
<tr>
<td>Art and Music</td>
</tr>
<tr>
<td>Agriculture</td>
</tr>
</tbody>
</table>

THE PROGRAM, YEAR BY YEAR

During the first two (the freshman and sophomore) years, the study programs are virtually identical for all students. They vary only in the few semester hours of electives that may be taken in addition to the required work.

The third-year program is set up to furnish the special professional information and background necessary for public school service. For the present there is no break-down into specialized curricula, although it is still possible for students to prepare for secondary school teaching by appropriate selection from courses offered.

The content of the fourth year program is related essentially to professional education. One semester is devoted to practice teaching and allied educational courses; the off-setting semester provides opportunity for other needed professional course experiences. While one group of students carries the practice teaching work, the other group carries the courses of the off-setting semester.

[49]
COURSES AND CREDIT HOURS REQUIRED OF ALL TEACHERS COLLEGE STUDENTS

<table>
<thead>
<tr>
<th>FIRST SEMESTER</th>
<th>SECOND SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 100 or 102</td>
<td>3</td>
</tr>
<tr>
<td>History 100</td>
<td>3</td>
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<td>Anthropology 150</td>
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</tr>
<tr>
<td>Botany 100</td>
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<tr>
<td>Physical Education 100 or 102</td>
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<tr>
<td>Electives</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>17</strong></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>SECOND YEAR</th>
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</thead>
<tbody>
<tr>
<td>English 152</td>
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<tr>
<td>History 110</td>
</tr>
<tr>
<td>Psychology 150</td>
</tr>
<tr>
<td>Survey</td>
</tr>
<tr>
<td>Health and Physical Education 135</td>
</tr>
<tr>
<td>Electives</td>
</tr>
<tr>
<td><strong>Total</strong></td>
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</table>

<table>
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<tr>
<th>THIRD YEAR</th>
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</thead>
<tbody>
<tr>
<td>Education 235</td>
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<tr>
<td>Education 285</td>
</tr>
<tr>
<td>English 290 or 292</td>
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<tr>
<td>Music 251</td>
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<tr>
<td>Sociology 250</td>
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<tr>
<td>Health and Physical Education 221</td>
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<tr>
<td>Electives</td>
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</table>

<table>
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<tr>
<th>FOURTH YEAR</th>
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</thead>
<tbody>
<tr>
<td>Education 250 or 283</td>
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<tr>
<td>Education 261</td>
</tr>
<tr>
<td>English 240</td>
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<tr>
<td>English 294</td>
</tr>
<tr>
<td>Psychology 292</td>
</tr>
<tr>
<td>Agriculture 271</td>
</tr>
<tr>
<td>Electives</td>
</tr>
<tr>
<td><strong>Total</strong></td>
</tr>
</tbody>
</table>

REQUIREMENTS FOR THE FIVE-YEAR DIPLOMA

Candidates for the five-year diploma must be holders of a bachelor of education degree, or holders of a bachelor of science degree who have specialized in vocational education in the College of Applied Science.
The fifth-year work consists of two parts: (1) one semester of interne 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 interne teaching.

COURSES AND CREDITS REQUIRED OF FIFTH-YEAR STUDENTS

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credit Hours Required in SEM. I</th>
<th>SEM. II</th>
</tr>
</thead>
<tbody>
<tr>
<td>Education 340</td>
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<tr>
<td>Education 350</td>
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<td>Education 354</td>
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<tr>
<td>Education 390</td>
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<tr>
<td>Education 395</td>
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<td></td>
</tr>
<tr>
<td>Psychology 351</td>
<td>2</td>
<td>....</td>
</tr>
<tr>
<td>Electives</td>
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<td></td>
</tr>
<tr>
<td>Totals</td>
<td>16</td>
<td>16</td>
</tr>
</tbody>
</table>

MASTER OF EDUCATION DEGREE

Candidates for the master of education degree must have met the essential requirements of the bachelor of education degree, including practice teaching. The candidate must complete a graduate program of 30 semester hours and present an acceptable thesis. For matriculation the candidate must pass a comprehensive examination in the fields of philosophy of education, educational psychology, history of education, and educational administration. The matriculation examination may not be taken until the candidate can present graduate course credit in the four fields covered. Interne teaching or successful teaching experience is also prerequisite to matriculation. Graduate education course requirements for the five-year diploma, with the exception of Education 354 and 395, are acceptable in partial fulfillment of requirements for the master of education degree. For further details of the graduate program, see the Graduate Study section in this catalogue.

VOCATIONAL EDUCATION

Prospective vocational agriculture and home economics teachers obtain their undergraduate preparation as registrants in the College of Applied Science, receiving the bachelor of science degree (see College of Applied Science). Basic professional education courses and practice teaching are required. Selective standards, including those in English, used in Teachers College apply to prospective vocational teachers. The 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.
GRADUATE STUDY

Graduate study in the University is under the supervision of a Graduate Study Committee, which serves to coordinate such work in the various colleges. Consequently, 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 the certificate in social case work, and graduate students taking work to be applied to advanced degrees at other institutions.

THE MASTER'S DEGREE

The reduction, due to the war emergency, in the University staff and in the number and variety of courses limits the opportunities for graduate work leading to advanced degrees. In certain fields, however, there continue to be adequate provisions for graduate study, and a limited number of candidates for the master's degree will be accepted.

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-weeks 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 6 hours, but a greater number may be allowed in the natural and physical sciences. At least 8 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 6 to 10 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 8 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 a 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.

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 the master's degree in June must notify the chairman of the Committee on Graduate Study not later than February 20 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 copy of the thesis and a carbon copy, 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 employment of the Department who complete the following work: a total of 30 semester hours of graduate work, 15 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.

SCHOOL OF SOCIAL WORK TRAINING

Admission. Admission to the one-year program of Social Work Training in the College of Arts and Sciences 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 30 semester hours of social science, including at least 5 semester hours in each of the following fields: economics, government, psychology, and sociology; and 12 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 case work. The University offers juniors and seniors an orientation course in social work, and it is expected that students entering the Social Work Training program 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 procured from the University registrar.

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.** Regularly enrolled students are required to engage in two semesters of field work, and it is expected that they will take the field work course concurrently with the course in theory of case work. Field work consists of 225 clock hours a semester of supervised case work in an approved social agency.
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 the 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, the transition being 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 station is closely associated with the university or the agricultural college, the facilities of the Station including the research staff, the field laboratory, and the flocks and herds may be 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 of the experiment stations maintained with the Hawaiian Sugar Planters' Association and the Pineapple Producers Cooperative Association 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) Because the two major agricultural industries of the Territory of Hawaii, sugar and pineapples, 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 may have broad application, for both individual farmers and the large plantations may receive benefit. 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 Experiment Station is contributing much to the immediate war effort. Certain pieces of scientific apparatus have been loaned to the armed forces and technicians trained in their use. Special problems have been undertaken in connection
with the preservation of blood plasma. The nutrition department has furnished
service and basic information to the Red Cross, the armed forces, and other agencies.
Of especial importance, however, have been the contributions of the agriculturists
to the defense food program. The research of the station has formed the basis for
a rapid expansion of production of all food and feed 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 equip­
ment in planting, cultivation, irrigation, and harvesting of the major food crops,
is proving of greatest 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, conducted jointly by the University and the United States Department of Agriculture, is devoted to the advancement of agriculture in Hawaii and to the improvement of rural home life.

The Agricultural Extension Service maintains personal contacts with the rural population through its field staff of county farm agents, home demonstration agents, and their assistants. This staff, 35 in number, operates out of nine centers located as follows:

- On Kauai—Lihue
- On Oahu—Honolulu, Kaneohe, Wahiawa
- On Hawaii—Hilo, Captain Cook, Kohala
- On Maui—Kahului
- On Molokai—Kaunakakai

Instruction in modern farm and home practices is given 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 home visits and personal conferences on farm and home problems.

To carry to the rural population the results of scientific experiments conducted by the University of Hawaii Agricultural Experiment Station is an important phase of extension work.

Bulletins and circulars containing varied, timely information pertaining to farming and rural home life are issued from time to time by the sixteen specialists at the headquarters on the University campus. From this office the specialists also direct the activities of the agents in the field.

The Agricultural Extension Service in Hawaii is part of a nationwide service operating throughout the United States. Since its inception in 1928, the efforts of the staff members have been largely directed toward developing a greater degree of self-sufficiency in the food economy of the Territory. To this end the home demonstration agents have always given particular attention to teaching island housewives the uses and nutritive values of island produced foods.

After the establishment of martial law on December 7, 1941, extension workers were given the added responsibility of implementing and interpreting the orders of the military governor as they apply to the rural population. Five of the staff of specialists are now serving temporarily in the office of food control of the military government.

Funds for the maintenance of the Agricultural Extension Service are derived jointly from federal and territorial legislative appropriations.
ANNOUNCEMENT OF COURSES
OF INSTRUCTION
FOR THE YEAR 1942-43

Courses numbered 100 to 199 are lower division courses, intended primarily for freshmen and sophomores. Those numbered 200 to 299 are upper division courses, primarily for juniors and seniors but open to graduate students. Courses numbered 300 and higher are primarily for graduate students, but, unless otherwise stated, are open to seniors who obtain instructors' consent.

A schedule stating the time and place of meeting of all courses is issued by the registrar in mid-September for the first semester, in mid-January for the second semester, and in mid-May for the summer session.

Persons wishing to audit courses should see the statement on Admission of Auditors.

AGRICULTURE

100 ORIENTATION COURSE

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

151 ANIMAL HUSBANDRY

Second semester only; 3 credits.
A general study of the important breeds of horses, cattle, sheep, and swine; their care and management. Lectures, assigned readings, and laboratory work. Laboratory fee $1.

152 POULTRY HUSBANDRY

First semester only; 3 credits.
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.

162 TROPICAL POMOLOGY

First semester only; 3 credits. (Alternates with Agriculture 164.)
Origin, description, and cultural requirements of the principal fruit and nut crops of Hawaii. Two lectures and one laboratory period a week. Prerequisites: Chemistry 103, Botany 100, and Zoology 100. Laboratory fee $1. (Not to be given in 1942-43)

164 TRUCK CROP PRODUCTION

First semester only; 3 credits. (Alternates with Agriculture 162.)
Origin, description, and cultural requirements of the more important vegetable crops in Hawaii. Two lectures and one laboratory period a week. Prerequisites: Chemistry 103, Botany 100, and Zoology 100.
AGRICULTURE

250 SOILS Mr. Wadsworth
First semester only; 4 credits.
Origin and physical properties of local soils. Texture, structure, and moisture relations. Three lectures or recitations and one laboratory period a week. Prerequisites: Chemistry 103, Physics 102. Laboratory fee $2.

252 SUGAR CANE PRODUCTION Mr. Wadsworth and H.S.P.A. Expt. Sta. Staff
First semester only; 4 credits. (Alternates with Agriculture 260.)
Varieties of cane, their planting, irrigation, fertilization, and harvesting. Visits to experimental fields and plantations. Students keep Fridays as free as possible for field trips. Lectures, assigned readings, and laboratory periods. Taught with cooperation of staff of Hawaiian Sugar Planters’ Association experiment station. Prerequisites: Agriculture 250, 254. Laboratory fee $2. (Not to be given in 1942-43)

253 DAIRYING Mr. Work
Second semester; 3 credits. (Alternates with Agriculture 261.)
A study of dairy cows; production and marketing of milk and milk products; milk testing, separating, etc. Two lectures or recitations and one laboratory period a week. Laboratory fee $1.

254 PRINCIPLES OF GENETICS Mr. Storey
First semester only; 3 credits.
Fundamentals of genetics, including principles of Mendelian and Neo-Mendelian inheritance, physical basis of heredity, variation, and an introduction to biometric methods. Two lectures and one laboratory period a week. Prerequisites: Botany 100 and Zoology 100.

255 POULTRY HUSBANDRY Mr. Bice
Second semester only; 3 credits. (Alternates with Agriculture 264.)
Problems and management on a commercial poultry farm. Assigned readings, discussions, and an hour report on one phase of the poultry industry. Two lectures and one recitation a week. Prerequisites: Agriculture 152 and sophomore standing. Laboratory fee $1. (Not to be given in 1942-43)

256 PRINCIPLES OF AGRONOMY Mr. Ripperton
Second semester only; 3 credits. (Alternates with Agriculture 257.)
Field crops, their distribution, character, culture, utilization, and improvement. Two lectures and one laboratory period a week. Prerequisites: Chemistry 103, Botany 100, and Zoology 100. Laboratory fee $1.

257 FEEDS AND FEEDING Mr. Henke
Second semester only; 3 credits. (Alternates with Agriculture 256.)
Principles of feeding and their application to farm and plantation animals. (Not to be given in 1942-43)

259 POULTRY HUSBANDRY Mr. Bice
First semester, and continued into second semester upon consent of instructor; credit by arrangement. Special problems in poultry husbandry research; individual work.

260 PINEAPPLE PRODUCTION Mr. Wadsworth and Pineapple Research Institute Staff
First semester only; 3 credits. (Alternates with Agriculture 252.)
A general study of pineapple production. Taught with the cooperation of staff of Pineapple Research Institute. Prerequisites: Botany 100 and Zoology 100, Chemistry 103, Agriculture 250. Laboratory fee $1.
261 **Beef and Swine Production**  
*Second semester only; 3 credits. (Alternates with Agriculture 253.)*  
The breeds, care, management, and feeding of beef cattle and swine, with particular reference to Hawaiian conditions. Two lectures or recitations, and one laboratory or study period a week. Laboratory fee $1. (Not to be given in 1942-43)

264 **Seminar in Animal Nutrition**  
*Second semester only; 1 credit. (Alternates with Agriculture 255.)*  
Recent investigations in animal nutrition; oral reports by students on special topics after a review of literature. Prerequisites: Agriculture 257, sufficient training in chemistry, and consent of instructor.

265 **Agricultural Thesis**  
*Credit by arrangement.*  
Advanced individual work in field, laboratory, and library.

267 **Agricultural Chemistry**  
*Second semester; 3 credits. (Alternates with Agriculture 291.)*  
Lectures, reading, and problems concerning the chemistry of soil composition, soil fertility, fertilizers, and feeds. May be supplemented by laboratory exercises in Agriculture 268. Prerequisite: Agriculture 250. (Not to be given in 1942-43)

268 **Agricultural Chemistry Laboratory**  
*Second semester only; 2 credits. (Alternates with Agriculture 291.)*  
Analysis of soils, fertilizers, and feeds. Prerequisites: Chemistry 230, Agriculture 250, and credit for concurrent registration in Agriculture 267. Laboratory fee $2. (Not to be given in 1942-43)

271 **School and Home Gardening**  
*First semester; 2 credits; repeated second semester.*  
Designed to develop ability to conduct home and school gardens; study of fertilizers, insect control, and plant propagation. For prospective elementary school teachers.

275 **Forage Crops**  
*First semester only; 3 credits. (Given in alternate years.)*  
Principal forage species in Hawaii; their identification, value, and management. Two lectures and one laboratory period a week. Prerequisite: Agriculture 256. (Not to be given in 1942-43)

291 **Irrigation Practice**  
*Second semester only; 4 credits. (Alternates with Agriculture 267-268.)*  
Irrigation in its relation to crop production; development, distribution, and measurement of water; soil-moisture and its effect on plant growth. Three recitations, one laboratory period a week. Prerequisite: junior standing. Laboratory fee $1.

299 **Comparative Agriculture**  
*Second semester only; 2 credits.*  
The crops, cultural practices, and agricultural institutions of the principal agricultural countries of the world.

300 **Directed Research**  
*First semester; credit by arrangement; repeated second semester.*  
Directed research in (a) genetics—Mr. Storey, (b) soil chemistry—Mr. Dean, (c) soil physics—Mr. Wadsworth, (d) tropical horticulture—Mr. Jones.
ANTHROPOLOGY

Certain courses in sociology may receive anthropology credit.

150 INTRODUCTION TO THE STUDY OF MAN AND SOCIETY Mr. Hörmann
First semester only; 3 credits.
The development of man; race and race relations; the growth of culture; communication. No credit for students who have had Anthropology or Sociology 170 and 171.

300 ADVANCED READING AND RESEARCH Mr. Hörmann
Credit by arrangement.
Prerequisite: consent of instructor.

ART

Certain of these courses may be repeated for credit if the consent of the instructor is obtained.
The University reserves the right to retain any student work which may be needed for exhibition or for the art department files.

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

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

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

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

180-181 PAINTING Mr. Luquiens
Year course; 2 credits each semester.
Study of form, color, and design in oils or water color. Prerequisites: Art 150-151, 154-155, or consent of instructor. Studio fee $3 second semester.

254-255 ORIENTAL ART Mr. Lee
Year course; 2 credits each semester.
The arts of different periods in India, China, Korea, and Japan. Illustrated lectures, assigned readings, and visits to Honolulu Academy of Arts.

262 CREATIVE ART FOR THE UPPER ELEMENTARY YEARS Mrs. Fisher
Second semester only; 2 credits.
Designed to provide a working knowledge of tools, materials, and processes in the work of the upper elementary years. Limited to 30 students. Laboratory fee $1.
COURSES OF INSTRUCTION

263 CREATIVE ART FOR THE SECONDARY SCHOOL YEARS
Mrs. Fisher
First semester, 2 credits; repeated second semester.
Similar to Art 262 but with emphasis upon the work of the secondary school years. Limited to 30 students. Laboratory fee $1.

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

BACTERIOLOGY

151 GENERAL BACTERIOLOGY
Mr. Allen
First semester, 4 credits; repeated second semester.
The physiology, culture, and differentiation of bacteria. Emphasis upon medical aspects. Recommended for students who are preparing for nursing, medicine, and technical laboratory work. Two lectures and 2 laboratory periods a week. Prerequisites: Botany 100 and Zoology 100. Laboratory fee $5.

156 PUBLIC HEALTH BACTERIOLOGY
Mr. Allen
First semester, 2 credits; repeated second semester.
Basic principles of bacteriology in relation to dairying, water sanitation, sewage disposal, disinfection, communicable diseases, and immunity. Two lectures a week. No credit for students who have taken Bacteriology 151.

260 MEDICAL BACTERIOLOGY
Mr. Allen, Mr. Sia
First semester only, 4 credits.
Relation of microorganisms to disease: major groups of pathogenic bacteria, yeasts, and molds; a detailed study of the major communicable diseases of man and animals. Two lectures and two laboratory periods a week. Recommended for students who are preparing for nursing and medicine. Prerequisite: Bacteriology 151. Laboratory fee $5.

360 IMMUNOLOGY
Mr. Allen, Mr. Sia
Second semester only, 3 credits.
Natural, active, and passive types of immunity; sera, vaccines, and antitoxins. Technique of major diagnostic serological reactions. Two lectures and one laboratory period a week. Prerequisite: Bacteriology 260. Laboratory fee $5.

BOTANY

100 BOTANY
Mr. Engard
First semester, 4 credits; repeated second semester.
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 a semester.

102 SYSTEMATIC BOTANY OF FLOWERING PLANTS
Mr. St. John
First semester only, 3 credits.
Native and exotic Hawaiian flowering plants, their classification, history, distribution, use; synopsis of Monocotyledons; preparation of a herbarium. One lecture and 2 laboratory periods a week. Prerequisites: Botany 100 and Zoology 100 or the equivalent. Laboratory fee $2.
BOTANY—BUSINESS

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

161 PLANT GEOGRAPHY  Mr. St. John
First semester only; 2 credits.
Plant distribution throughout the world; vegetation of forests, grasslands, deserts,
tundra, mountains, and oceans; special attention to origin, development, ecology,
and economic importance. One 1½-hour lecture period a week.

173 ELEMENTARY PLANT PHYSIOLOGY  Mr. Engard
Second semester only; 4 credits.
Introduction to plant physiology; osmosis, absorption of water, transpiration, mine­
real utilization, photosynthesis, storage, digestion, respiration, growth, photoperiod­
ism. Three lectures and one laboratory period a week. Prerequisites: Chemistry
103, Botany 100 and Zoology 100, or the equivalent. Laboratory fee $3.

200 BOTANICAL PROBLEMS  Staff
First semester; credit by arrangement; repeated second semester.
Pursuit of any advanced botanical problem; reading and laboratory work. May be
taken repeatedly. Prerequisite: consent of instructor. Laboratory fee $1.

202 TAXONOMY AND EXPLORATION  Mr. St. John
Second semester only; 3 credits.
Taxonomy of Hawaiian vascular plants, their occurrence and use; account of botan­
ical exploration of Hawaii; literature on Pacific floras. One lecture and 2 labora­
tory periods a week. Prerequisite: Botany 102. Laboratory fee $2.

300 BOTANICAL RESEARCH  Staff
Credit by arrangement.
Prerequisites: graduate standing and consent of instructor. Laboratory fee $1 each
semester.

351 PLANT PHYSIOLOGY SEMINAR  Mr. Clements
Second semester only; 1 credit.
Discussion of topics of particular interest to the group. May be repeated several
times.

BUSINESS

150-151 ELEMENTARY ACCOUNTING  Mr. Graham
Year course; 3 credits each semester.
Fundamental principles, including the accounting problems of single proprietor­
ships, partnerships, and corporations. Prerequisite: sophomore standing in the
Department, or consent of instructor.

161 ELEMENTARY BUSINESS LAW  Mr. Hoeber
First semester only; 3 credits.
Nature and sources of law; judicial procedure; brief survey of business law, empha­
sizing contracts and the historical, social, and preventive aspects of principles dis­
cussed. Prerequisite: sophomore standing.

250-251 INTERMEDIATE ACCOUNTING  Mr. Graham
Year course; 3 credits each semester.
The balance sheet; form, content, and such related problems as depreciation and
valuation of assets; mergers and the construction of consolidated statements. Pre­
requisites: Economics 150-151, and a grade of C or better in Business 150-151.
264 Principles of Business  
Mr. Cameron  
First semester only; 3 credits.  
Choosing goods to handle; time to enter, location, size, and legal form of organization; selecting, handling, and promoting of executives; choosing selling policies; promoting good public relations. Prerequisite: Economics 150-151, or consent of instructor.

273 Economics of Advertising  
Mr. Hoeber  
Second semester only; 3 credits.  
History and present importance; methods and media; agencies and campaigns; costs and their measurement; evaluation from social and economic points of view. Prerequisite: Economics 150-151, or consent of instructor.

276 Economics of Retail Merchandising  
Mr. Hoeber  
First semester only; 2 credits.  
Analysis of the buying habits of consumers; history of retailing; store organization and management; sales promotion. Prerequisite: Economics 150-151, or consent of instructor.

286 Law of Sales and Negotiable Instruments  
Mr. Hoeber  
First semester only; 3 credits.  
Formation of, and rights and duties growing out of, contracts for the sale of personal property; law of bank checks, bills of exchange, promissory notes. Prerequisite: C or better in Business 161, or consent of instructor.

288 Law of Partnerships and Corporations  
Mr. Hoeber  
Second semester only; 3 credits.  
Nature, formation, and powers of partnerships and corporations; rights and duties of partners, stockholders, and creditors. Prerequisite: C or better in Business 161, or consent of instructor.

292 Law of Real Property  
Mr. Hoeber  
Second semester only; 2 credits.  
Nature of; estates in; dower, curtesy, and homestead; easements; adverse possession; deeds; recording acts; land court and registration; leases; rights and duties of landlord and tenant. Prerequisite: C or better in Business 161, or consent of instructor.

299 Independent Study  
Staff  
Year course; 3 credits each semester.  
Prerequisite: consent of instructor.

Chemistry

103 General Chemistry  
Mr. Bilger  
Year course; 4 credits each semester.  
A comprehensive survey designed for students who have or have not had high school work in chemistry. Three lectures or discussions and one laboratory period a week. Laboratory fee $7 each semester. (When this course is listed as a prerequisite for other courses, it corresponds to the former courses, Chemistry 101 and 102.)

149 Organic Chemistry  
Mrs. Bilger  
Year course; 4 credits each semester.  
A survey of the chemistry of the carbon compounds including aliphatic and aromatic divisions and applications to practical problems of industry, nutrition, and medicine. Three lectures and one 3-hour laboratory period per week. Prerequisite: Chemistry 103. Laboratory fee $9 each semester.
150 **Qualitative Analysis**  
*First semester only; 4 credits.*  
Systematic qualitative analysis covering detection of common basic and acidic ions by macro and semi-micro methods, principles of analysis, and theory of solutions. Two lectures and 2 laboratory periods a week. Prerequisite: Chemistry 103. Laboratory fee $8.

171 **Colloid Chemistry**  
*Second semester only; 3 credits.*  
A study of the colloidal state of matter, with laboratory demonstrations and practices. Designed to follow Chemistry 150. Two lectures and one laboratory period a week. Prerequisite: Chemistry 150. Laboratory fee $6.

203 **Fundamentals of Chemistry Applied to Problems of War and Defense**  
*First semester only; 3 credits.*  
Chemical weapons, war gases, smokes and incendiaries, poisons, water, foods, and sanitation. Three lectures a week. Prerequisite: one semester of Chemistry 149.

206 **Instrumental Methods**  
*First semester only; 2 credits.*  
Theory and practice in the use of physical instruments for analyzing and identifying materials; colorimeter, spectroscope, viscosimeter, turbidimeter, polariscope, fluorophotometer, dilatometer, polarographic and potentiometric instruments. One lecture and one laboratory period a week. Prerequisite: Chemistry 230. Laboratory fee $6.

207 **Chemical Analysis of Poisons and Certain War Gases**  
*Second semester only; 1 credit.*  
One laboratory period a week. Prerequisite: Chemistry 150. Laboratory fee $6.

211 **Physical Chemistry**  
*Year course; 3 credits each semester.*  
An advanced course in fundamental theories and principles of chemistry. Prerequisites: Chemistry 149, 230, concurrent registration in Chemistry 212.

212 **Physical Chemistry Laboratory**  
*Year course; 1 credit each semester.*  
Physical chemistry methods. One laboratory period a week. Prerequisite: Credit or concurrent registration in Chemistry 211. Laboratory fee $6 each semester.

230 **Quantitative Analysis**  
*Year course; 4 credits each semester.*  
Principles of gravimetric and volumetric analysis, colorimetric and electrometric methods of pH determinations. Two lectures and 2 laboratory periods a week. Prerequisites: Chemistry 103, 150. Laboratory fee $8 each semester.

260 **Biological Chemistry**  
*Any semester; 3 credits.*  
Lectures, recitations, and supplementary reading on chemistry of food constituents, plant and animal life, and nutrition. Prerequisites: Chemistry 103, 149.

262 **Biological Chemistry Laboratory**  
*Any semester; 1 credit.*  
Experimental studies of proteins, fats, carbohydrates, enzymes, milk, urine. One laboratory period a week. Prerequisites: Chemistry 103, 149. Laboratory fee $5.
COURSES OF INSTRUCTION

263 Food Analysis  Mr. Dillingham
Any semester; 3 credits.
Chemistry of food; food laws, food preservation, and methods of food analysis. One lecture-recitation and 2 laboratory periods a week. Prerequisite: Chemistry 260. Laboratory fee $6.

316 Advanced Quantitative Analysis  Mr. Dillingham
Any semester; hour and credits to be arranged.
Primarily a laboratory course covering analysis of such materials as foodstuffs, fertilizers, water, urine, sugar-house products. Prerequisites: Chemistry 103, 149, 150, 230. Laboratory fee $6 each semester.

317 Advanced Organic Chemistry  Mrs. Bilger
First semester only; 4 credits.
Special classes of organic substances including dyes, alkaloids, terpenes, steroids, carbohydrates, and pigments; laboratory preparations selected to illustrate methods and unit processes. Two lectures and two 3-hour laboratory periods a week. Prerequisites: Chemistry 149, 230. Laboratory fee $9.

319 Inorganic Microanalysis  Mr. Fujimoto
Second semester only; 2 credits.
Typical methods of inorganic microanalysis. Prerequisite: Chemistry 230. Laboratory fee $8.

320 Theoretical Organic Chemistry  Mrs. Bilger
Second semester only; 2 credits.
Modern theories of valence, the chemical link, and chemical change; Ingold and Pauling systems, resonance, new physical methods of investigation, molecular rearrangements, dipole moments. Designed to follow the lectures of Chemistry 317. Prerequisite: Chemistry 317, senior or graduate standing.

350 Organic Analysis  Mrs. Bilger
Second semester only; 3 credits.
The technique of qualitative and quantitative organic analysis including macro, semi-micro, and micro methods. Three laboratory periods a week. Designed to follow the laboratory work of Chemistry 317. Prerequisite: Chemistry 317. Laboratory fee $9.

CHEMISTRY AS APPLIED TO SUGAR TECHNOLOGY

Sugar Technology courses in addition to those that follow are listed under Chemistry and Agriculture.

201 Sugar Analysis  Mr. Dillingham
Year course; 3 credits each semester.
Apparatus for and methods of analysis of sugarhouse products and by-products. One lecture and 2 laboratory periods a week. Prerequisites: previous or concurrent registration in Chemistry 103, 150, 230. Laboratory fee $7 each semester.

250 Sugarhouse Calculations  Mr. Dillingham
First semester only; 1 credit.
Instruction in sugarhouse calculations and in making out laboratory reports such as those required by plantations in Hawaii. Prerequisites: Sugar Technology 201, 253.
252 **Sugar Manufacture**

*First semester only; 3 credits.*

Manufacture of sugar, with particular reference to Hawaiian principles and practice. Prerequisites: Sugar Technology 201, 253. (Not offered in 1942-43)

253 **Summer Factory Practice.**

*Mr. Dillingham*

*Summer following completion of junior year; 6 credits.*

A minimum of 4 weeks in a sugar factory under the direction of the plantation management; a comprehensive technical report must be submitted in duplicate. Prerequisite: Sugar Technology 201. Students ordinarily register for this course in the second semester of the junior year.

255 **Field Practice**

*Mr. Dillingham*

*Second semester only; 16 credits.*

Practical work as a student assistant at the experiment station of the Hawaiian Sugar Planters' Association. Prerequisites: all other courses required for graduation in sugar technology. Ordinarily taken during the second semester of the senior year; if prerequisites have not been met by that time, arrangements may be made to take this course in the first semester of the following year.

256 **Heat in the Sugar Factory**

*Second semester only; 3 credits.*

Calculations and lectures on heat relations and the influence of variables on the heat balance of cane sugar factories. Prerequisite: previous or concurrent registration in Sugar Technology 201. (Not offered in 1942-43)

257 **Factory Practice**

*Mr. Dillingham*

*Second semester only; 16 credits.*

Practical work as an apprentice in a sugar factory during the second semester of the senior year. Prerequisites: all other courses required for graduation in sugar technology.

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**CHINESE**

100 **First-Year Chinese**

*Year course; 3 credits each semester.*

Study of 250 basic characters each semester; construction of characters, reading, simple conversation, and translation.

101 **Second-Year Chinese**

*Year course; 3 credits each semester.*

Study of 250 additional basic characters each semester; sentence construction, conversation, and translation.

240-241 **Religious Literature of the Orient**

*Mr. Lee*

*Year course; 3 credits each semester.*

Study of selections from the Bibles of Confucianism, Taoism, Buddhism, and other living religions and their contributions.

293-294 **Methods and Bibliography in Chinese Studies**

*Mr. Taam*

*Year course; 3 credits each semester.*

Designed to familiarize the student with the main fields of Chinese research in China and abroad, the special methods evolved, and the principal sources of bibliographical information. Prerequisite: junior standing.
ECONOMICS

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

150-151 PRINCIPLES OF ECONOMICS Mr. Cameron

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

223 HISTORY OF ECONOMIC INSTITUTIONS Mr. Cameron

Year course; 3 credits each semester.
Population and agricultural changes; labor and manufacturing systems; transportation, trade, money, banking, and credit developments from earliest times, emphasizing causes and effects of changes. Prerequisite: junior standing, or consent of instructor.

256 MONEY, CREDIT, AND PRICES Mr. Cameron

First semester only; 3 credits.
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.

257 BANKING Mr. Cameron

Second semester only; 3 credits.
Nature and history of banking; the banking system of the United States, including commercial banks, trust companies, savings banks, and related banking institutions. Required of all majors.

261 PUBLIC FINANCE Mr. Hoeber

Second semester only; 3 credits.
Public expenditures: extent, purposes, determinants, effects; public revenue; public domains, and industries, fees, assessments, charges, taxation, public credit; fiscal administration.

267 BUSINESS CYCLES AND BUSINESS FORECASTING Mr. Hoeber

First semester only; 3 credits.
Analysis of the business cycle, and proposed remedies; assumptions, methods involved, and statistical data used in business forecasting; forecasting services; applicability of forecasts to specific cases.

273 OCEAN TRANSPORTATION Mr. Cameron

Second semester only; 3 credits.
Economic characteristics, history, and vehicles of ocean transportation; services, organization, and rate-making theories and practices of ocean carriers; subsidies and government control.

299 INDEPENDENT STUDY Staff

Year course; 3 credits each semester.
Prerequisite: consent of instructor.

300 READING AND RESEARCH Staff

Year course; 3 credits each semester.
Prerequisites: graduate standing and consent of instructor.
Enrollment in courses in Education is restricted to students in Teachers College except through special permission of the Dean of Teachers College.

200 DIRECTED READING
Credit by arrangement.
Individual reading in the field of Education. Consent of instructor and Dean of Teachers College required.

235 PARTICIPATION TEACHING
Year course; 1 credit each semester.
Students assigned as assistants to classroom teachers in public schools; practical experience, observation, and illustrative material for Education 250 and 285-286.

250 SECONDARY EDUCATION
First semester; 3 credits; repeated second semester.
Background and development; adolescence; functions and objectives; curricula; teaching techniques; organization and planning of materials; statistical techniques and evaluation; principles of organization and administration.

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

254 PRACTICE TEACHING
First semester; 10 credits; repeated second semester.
Teaching duty supervised by staff members of Teachers College Elementary and Intermediate School.

255 PRACTICE TEACHING CONFERENCE
First semester; 2 credits; repeated second semester.
Discussion of problems arising from immediate experience as classroom teachers.

256 AUDIO AND VISUAL AIDS IN EDUCATION
First semester; 2 credits; repeated second semester.
The study of the use of such instructional aids as pictures, charts, lantern slides, silent and sound films, electrical transcriptions, and radio broadcasts in teaching.

257 THE ROLE OF THE SCHOOL IN THE WAR
First semester; 2 credits; repeated second semester.
Consideration of necessary adjustments of the educational system to wartime conditions. Discussions led by persons representing various phases of the war effort as they relate to school organization.

261 EDUCATIONAL MEASUREMENTS
First semester; 2 credits; repeated second semester.
Use of informal and standardized tests in school work; practice in scoring such tests and interpreting the results.

283 CHILD DEVELOPMENT
First semester; 3 credits; repeated second semester.
The physical, mental, emotional, and social aspects of the development of young children.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Credits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>285-286</td>
<td>Elementary Education</td>
<td>Mr. Sayers</td>
<td>3</td>
<td>Year course; 3 credits each semester. Problems of elementary education arising from contrasting views and practices.</td>
</tr>
<tr>
<td>296</td>
<td>History of Education in Hawaii</td>
<td>Mr. Wist</td>
<td>2</td>
<td>First semester only; 2 credits. Review of the socio-economic influences that brought about an American public school system in Hawaii previous to annexation.</td>
</tr>
<tr>
<td>297</td>
<td>Hawaiian Educational History in Modern Times</td>
<td>Mr. Wist</td>
<td>2</td>
<td>Second semester only; 2 credits. Events of the present century that have influenced education in Hawaii; industry and immigration; Organic Act and Legislation; secondary education; teacher preparation; higher education.</td>
</tr>
<tr>
<td>300</td>
<td>Reading or Research</td>
<td>Staff</td>
<td></td>
<td>Credit by arrangement. Individual reading or research. Prerequisites: graduate standing and consent of Dean of Teachers College and of instructor concerned.</td>
</tr>
<tr>
<td>340</td>
<td>Philosophy of Education</td>
<td>Mr. Sayers</td>
<td>4</td>
<td>First semester; 4 credits; repeated second semester. Philosophy and science in education; the American democratic social tradition; basic views of human behavior; improvement of life; reconstruction in education.</td>
</tr>
<tr>
<td>345</td>
<td>Seminar in Philosophy of Education</td>
<td>Mr. Sayers</td>
<td>2</td>
<td>First semester; 2 credits; repeated second semester. Social and psychological theory involved in controversial educational issues. Prerequisites: Education 340 or equivalent, and consent of instructor. May be repeated for credit if permission of instructor is obtained.</td>
</tr>
<tr>
<td>350</td>
<td>History of Education</td>
<td>Mr. Scott</td>
<td>4</td>
<td>First semester; 4 credits; repeated second semester. Survey of educational thought as a basis for the study of modern school practices.</td>
</tr>
<tr>
<td>354</td>
<td>Intern Teaching</td>
<td>Mr. Sayers</td>
<td>14</td>
<td>First semester; 14 credits; repeated second semester. Full-time teaching under special supervision in selected public schools. Restricted to fifth-year students.</td>
</tr>
<tr>
<td>380</td>
<td>Research and Thesis Writing</td>
<td>Mr. White</td>
<td>2</td>
<td>First semester; 2 credits; repeated second semester. Research techniques and thesis development; designed to assist students in thesis preparation. Prerequisite: consent of instructor.</td>
</tr>
<tr>
<td>390</td>
<td>Public School Administration</td>
<td>Mr. Wist</td>
<td>2</td>
<td>First semester; 2 credits; repeated second semester. State and territorial organization for administrative control of public education; federal relations; Hawaiian school law and Department of Public Instruction regulations.</td>
</tr>
<tr>
<td>395</td>
<td>Seminar for Intern Teaching</td>
<td>Mr. Sayers</td>
<td>2</td>
<td>First semester; 2 credits; repeated second semester. Problems arising from immediate experiences as classroom teachers. Restricted to fifth-year students.</td>
</tr>
</tbody>
</table>
C.E. 101 PLANE SURVEYING

Mr. Webster

Year course; 3 credits each semester.

Use of chain, tape, level, and transit; map platting and computations; lectures on Hawaiian land descriptions. One lecture and 2 field or drafting periods weekly. Prerequisites: credit or concurrent registration in Mechanical Drawing 101, Mathematics 151. Laboratory fee $2 each semester.

C.E. 151 GRAPHICAL STATICS

Mr. Keller

Second semester only; 2 credits.

Determination of stresses in framed structures by the graphical method; stresses in roof and bridge trusses under vertical and inclined loads. Prerequisite: Mechanical Drawing 101.

C.E. 153 ROADS AND PAVEMENTS

Mr. Webster

Second semester only; 2 credits.

Construction and maintenance of various types of city streets and rural highways. Prerequisites: Civil Engineering 101, Mechanical Drawing 101.

C.E. 227 ROUTE SURVEYING

Mr. Webster

Year course; 3 credits each semester.

Reconnaissance; preliminary survey; paper location; curve computations; field location; platting profiles; determining grade lines; earthwork computations for location of railroad or highway. One 7-hour continuous period a week. Prerequisites: Civil Engineering 101, 153, Mathematics 155.

C.E. 252 ANALYTICAL AND APPLIED MECHANICS

First semester; 4 credits.

Effect of forces on bodies, both at rest and in motion. Prerequisite: Mathematics 155.

C.E. 253 STRUCTURAL MECHANICS

Mr. Keller

Second semester; 4 credits.

Action and effect of internal stresses in bodies and members of structures. Prerequisite: Civil Engineering 252.

C.E. 255 HYDRAULICS

Mr. Keller

Year course; 3 credits each semester.

Water pressure, strength of pipe, stability of gravity dams; water flow through orifices, nozzles, and weirs; manometers, Pitot tubes and Venturi meters; steady flow in pipes and open channels. Prerequisites: credit or concurrent registration in Civil Engineering 252, 253.

C.E. 276 STRUCTURAL DESIGN

Mr. Keller

First semester; 3 credits.

Stress computation and design of plate girders and steel building trusses and other structural members; complete detail drawings and specifications, carefully supervised and checked. Prerequisite: Civil Engineering 253. (Not given in 1942-43)

C.E. 277 BRIDGE DESIGN

Mr. Keller

Second semester only; 3 credits.

Design of a single track through bridge for a given conventional loading, including all computations, drawings, and specifications. Prerequisite: Civil Engineering 276.
COURSES OF INSTRUCTION

C.E. 279 CONCRETE AND MASONRY STRUCTURES
Mr. Keller
Year course; 3 credits each semester.
Elementary theory of reinforced concrete, beams, columns, footings, retaining walls; in the second semester, design of floor systems for buildings, bins, reservoirs, combined footings, highway bridges, miscellaneous structures. Prerequisites: Civil Engineering 252, 253. (Second half given in first semester, 1942-43)

M.D. 101 MECHANICAL DRAWING
Mr. Okubo
Year course; 2 credits each semester.
Elements of drafting, sketching, lettering; isometric, oblique, and cabinet drawing; working drawings, conventions, standards, tracing, and blueprinting. Two 3-hour, or three 2-hour laboratory periods a week. Cost of instruments and materials about $30.

M.D. 152 DESCRIPTIVE GEOMETRY
Mr. Watanabe
First semester; 2 credits.
Geometry of engineering drawing; analysis and design of structures; intersections and development of surfaces. Prerequisite: Mechanical Drawing 101.

M.E. 202 MATERIALS OF ENGINEERING AND LABORATORY
Mr. Keller
First semester; 3 credits.
Properties of cements, lines, and plasters, plain and reinforced concrete; methods of manufacture and standard tests for quality; testing cements, concretes, reinforced concrete, and aggregates used in making concrete; operation and calibration of testing machines. Prerequisite: Mathematics 155, Mechanical Drawing 152. Laboratory fee $2.50.

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

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

M.E. 285 CONTRACTS AND SPECIFICATIONS
Second semester; 2 credits.
Elementary thermodynamics of the Diesel engine; comparison of various types; mechanical and thermodynamic characteristics of commercial Diesels from the literature of the manufacturers. Prerequisite: Mechanical Engineering 282, or consent of instructor.

ENGLISH

English 100 or 102 is prerequisite to all other English courses except English 130, 134, and 160.

English 150 or the equivalent is prerequisite to all Literature courses numbered 200 or higher.

100 COMPOSITION
Staff
Year course; 3 credits each semester.
Principles and practice of composition; conferences for personal criticism. Required of all freshmen in the University.
102 COMPOSITION Mr. LeRoy, Miss Schwartz  
Year course; 3 credits each semester.  
Parallels English 100, but stresses writing and reading rather than the mechanics of composition; restricted to students making high scores in entrance examination.

120-121 WRITING FOR PUBLICATION Mr. Orne  
Year course; 2 credits each semester.  
Reader-interest the basis of successful newspaper and magazine writing; making readers see, feel, understand; speeches, interviews, personal sketches. Prerequisite: B in English composition, or consent of instructor. Entry in second semester is permitted if consent of instructor is obtained.

130 FUNDAMENTALS OF PUBLIC SPEAKING Mr. Ernst  
First semester; 3 credits; repeated second semester.  
The fundamentals of action projection, self-control before audiences; outlining and speech organization. Platform speaking throughout the course.

134 VOICE AND DICTION Mr. Ernst  
Year course; 2 credits each semester.  
Intensive training in speech fluency, speech-tune, rhythm, articulation, and enunciation, and the oral interpretation of poetry and prose.

135 ORAL EXPRESSION Mrs. Bukeley  
First semester; 3 credits; repeated second semester.  
Designed to develop fluency and expressiveness in various speech situations. Emphasis upon voice production and the sounds and rhythm of English speech. Open only to students in Teachers College.

150 INTRODUCTION TO ENGLISH LITERATURE Mr. LeRoy, Miss Schwartz  
Year course; 3 credits each semester.  
A survey of English literature from Beowulf to Wells; required of English majors. Prerequisite: English 100 or 102.

152 INTRODUCTION TO LITERATURE Mr. Coale  
Year course; 3 credits each semester.  
Development of critical standards in literature; knowledge of reading resources; literature as an interpretation of life. Open only to Teachers College students.

160 LITERATURE OF THE PACIFIC ISLANDS Mr. Stroven  
Year course; 1 credit each semester.  
A survey of literature of the South Seas, including narratives by Melville, Stevenson, London, Maugham, and Nordhoff and Hall.

200 DIRECTED READING Staff  
Year course; credit by arrangement.

240 SPEECH IMPROVEMENT LABORATORY Miss Henderson  
First semester; 1 credit; repeated second semester.  
Observation of speech classes and training in classroom techniques. Open only to students in Teachers College.

250-261 AMERICAN LITERATURE Mr. Stroven  
Year course; 3 credits each semester.  
A chronological survey of American literature from colonial times to the 20th century; special attention to the main currents of American thought and culture.

262-263 CONTEMPORARY AMERICAN LITERATURE Mr. Stroven  
Year course; 2 credits each semester.  
A critical survey of 20th century American literature.
COURSES OF INSTRUCTION

276-277  SHAKESPEARE

Year course; 3 credits each semester.
First semester, Shakespeare's histories and comedies; second semester, Shakespeare's tragedies.

Mr. Ernst

284-285  THE 19TH CENTURY

Year course; 3 credits each semester.
First semester, poetry and prose of the Romantic Movement; second semester, later 19th century writers.

Mr. LeRoy

290-291  ENGLISH IN THE ELEMENTARY SCHOOL

Year course; 3 credits each semester.
Reading and the creative phases of expression; problems of usage and speech, especially as found in Hawaii. Open only to Teachers College students.

Mr. Coale

292-293  ENGLISH IN THE SECONDARY SCHOOL

Year course; 3 credits each semester.
Reading and literature emphasized during first semester, language and composition during second semester. Open only to Teachers College students.

Mr. Coale

294  LITERATURE FOR THE ELEMENTARY SCHOOL

First semester; 2 credits; repeated second semester.
Literature suitable for children in grades 1 to 6; first semester, emphasis upon materials for primary years; second semester, for upper elementary years.

Mrs. Geiser

299(a)  TECHNIQUES OF SPEECH IMPROVEMENT

IN THE ELEMENTARY SCHOOLS

First semester; 2 credits.
The general speech problems of schools in Hawaii, the materials adapted to primary and elementary grades, and techniques for their application.

Miss Henderson

300  DIRECTED RESEARCH

Year course; credit by arrangement.
Directed research in (a) American literature, (b) English literature, (c) Speech. May be repeated until an aggregate of 6 credits has been earned.

Staff

302  THE SPEECH CLINIC

Year course; 2 credits each semester.
Supervised practice in the correction of defective speech. Prerequisites: English 297 and 299(a) or 299(b), or their equivalent. May be repeated until an aggregate of 6 credits has been earned.

Miss Henderson

FRENCH

100  ELEMENTARY FRENCH

Year course; 3 credits each semester.
Grammar, phonetics, diction, reading of easy prose and poetry.

Mr. Pecker

101  INTERMEDIATE FRENCH

Year course; 3 credits each semester.
Review of grammar, composition, reading from selected modern authors. Prerequisite: one year of French in college or 2 years in preparatory school.

Mr. Pecker

200  MODERN FRENCH LITERATURE

Year course; 3 credits each semester.
Novel, biography, drama; composition and diction. Prerequisite: 2 years of college French or equivalent.
250 CLASSIC DRAMA
First semester only; 2 credits.
Masterpieces of Corneille, Racine and Moliere. Lectures in French upon the literary history of the period. Additional outside reading.

251 ROMANTIC SCHOOL
Second semester only; 2 credits.
Readings from Lamartine, de Musset, Hugo, etc. Lectures in French upon the significance and influence of the Romantic Movement. Individual research and reports on assigned topics.

260-261 INDIVIDUAL RESEARCH
Year course; credit by arrangement.
Individual research in the latest French publications. Prerequisite: consent of instructor.

GEOGRAPHY

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

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

GEOLOGY

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

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

152-153 LABORATORY GEOLOGY
Year course; 1 credit each semester.
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 each semester.

260 PHYSIOGRAPHIC REGIONS OF THE UNITED STATES
First semester only; 3 credits.
Two recitations and one laboratory period a week. Prerequisite: Geology 151.

262 VOLCANOLOGY
Second semester only; 2 credits.
Classification, eruptive types, products, structures, distribution and periodicity of volcanoes. Two lectures a week. Prerequisite: Geology 151 and credit or concurrent registration for a year of college physics.
COURSES OF INSTRUCTION

GERMAN

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

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

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

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

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

250 READINGS IN GERMAN LITERATURE Mrs. Hörmann
     Year course; 1 or 2 credits each semester.
     Prerequisite: German 200 or 201.

GOVERNMENT

150 AMERICAN GOVERNMENT Mr. Bachman
     Second semester only; 3 credits.
     The organization and functions of the national government; American citizenship; protection of rights; the party system; contemporary political issues.

200 DIRECTED READING Mr. Bachman
     Credit by arrangement.
     Prerequisites: Government 150 and consent of instructor.

254 MUNICIPAL GOVERNMENT Mr. Sakamaki
     First semester only; 3 credits.
     The city as a political subdivision; forms of city government; consolidation of city and county; municipal politics.

256 AMERICAN POLITICAL PARTIES Mr. Hunter
     First semester only; 3 credits.
     The organization, methods, and principles of American political parties.

260 CONTEMPORARY INTERNATIONAL POLITICS Mr. Bachman
     First semester only; 3 credits.
     Basic forces in international relations; war aims and policies of the Axis and United Nations; problems of post-war reconstruction.

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HEALTH AND PHYSICAL EDUCATION

266 Dictatorships and Democracies
Year course; 3 credits each semester.
A comparative study of the governmental organization and policies of Great Britain, Soviet Russia, Germany, Italy, Japan and China.

282 Public Administration
Second semester only; 3 credits.
Relationship of administration to policy-forming agencies; organization of administrative staffs; centralization of responsibility.

300 Directed Reading and Research
Credit by arrangement.
Prerequisites: graduate standing and consent of instructor.

HAWAIIAN

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

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

250-251 Great Leaders of Hawaii
Year course; 1 credit each semester.
A biographical approach to the study of Hawaiian history.

HEALTH AND PHYSICAL EDUCATION

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

Freshman and sophomore men and women under 25 years of age who are registered for 10 or more semester hours of academic work must take at least 1 credit hour of health and physical education each semester.

A special corrective-work course (104) is provided for students whose physical examinations indicate, in the opinion of the head of the Department, that more active exercise is inadvisable.

All freshman men are required to take Health and Physical Education 100. Freshman women take 102. Sophomore men and women must take 105, either the first or the second semester. During the offsetting semester, men are required to take 135, women 136. The lower division health and physical education courses (100 to 199) may not be taken by juniors and seniors except where needed to fulfill graduation requirements, or by special permission of the dean of the college concerned.

A student engaged in a varsity sport may be excused from health and physical education class attendance during the season of that sport.
COURSES OF INSTRUCTION

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

102 INDIVIDUAL AND TEAM SPORTS (WOMEN)  
Staff  
Year course; 1 credit each semester.  
Similar to 100, designed for women students. Activities engaged in are basketball, volleyball, hockey, soccer, tennis, and swimming.

104 CORRECTIVE WORK  
Miss Bucklin  
First semester; 1 credit; repeated second semester.  
Light and corrective exercises for students whose physical examinations indicate the inadvisability of more active exercise.

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

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

136 PHYSICAL ACTIVITIES FOR WOMEN  
Staff  
First semester; 1 credit; repeated second semester.  
A required course for all sophomore women. Similar to 135.

200 FIRST AID  
Staff  
First semester; 2 credits; repeated second semester.  
Prevention and treatment; emergency care of accidental injury; special reference to school playground; practical work in the use of bandage and splints. Red Cross Certificate.

201 ADVANCED FIRST AID  
Staff  
First semester; 2 credits; repeated second semester.  
Continuation of training in first-aid, leading to advanced Red Cross certification. The course includes some preparation in home nursing.

221 PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOL YEARS  
Mrs. Bennett  
First semester only; 2 credits.  
Methods, materials, and activities for the elementary school. Four class periods a week.

223 PUBLIC SCHOOL HEALTH  
Miss Jones  
Second semester only; 2 credits.  
The field of health education; principles governing health; methods and materials for teaching health; problems of administration of the health program. Three class periods a week.

227 THEORY OF INDIVIDUAL ATHLETICS (WOMEN)  
Miss Gay  
First semester only; 2 credits.  
Teaching of technique in archery, badminton, bowling, golf, swimming, diving, tennis. One lecture, 2 laboratory periods a week.
228 THEORY OF GROUP ATHLETICS (WOMEN) Miss Gay
Second semester only; 2 credits.
Technique of play and organization of team sports for junior and senior high schools. One lecture, 2 laboratory periods a week.

252 PRINCIPLES OF PUBLIC HEALTH Mr. Sia
Second semester only; 2 credits.
Problems of public health; sanitation, the program of local and federal agencies.

HISTORY

100 HISTORY OF WESTERN CIVILIZATION Mr. Bachman
Year course; 3 credits each semester.
Development of modern culture and institutions, including the classical heritage, medieval contributions, expansion overseas, and present-day tendencies in Europe and America.

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

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

211 CONSTITUTIONAL HISTORY OF ENGLAND Mr. Hunter
First semester only; 3 credits.
Anglo-Saxon institutions, Norman innovations, development under the Angevins; the limitation of the royal power; rise of the cabinet system.

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

226 HISTORY OF JAPAN Mr. Sakamaki
Year course; 3 credits each semester.
General survey of Japanese history; development of institutions; impact of western culture upon Japanese civilization.

242-243 HISTORY OF THE UNITED STATES Mr. Hunter
Year course; 3 credits each semester.
A detailed political, economic, and social survey of the history of the United States, 1789-1942.

245 DIPLOMATIC HISTORY OF THE UNITED STATES Mr. Hunter
Second semester; 3 credits.
International relationships of the United States since the Civil War.

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

250 HISTORY OF EARLY CIVILIZATION IN THE FAR EAST Mr. Sakamaki
First semester only; 3 credits.
A general survey of the development of civilization in eastern Asia.
251 History of Thought in Japan
Second semester only; 3 credits.
The major schools of thought and important thinkers, social reformers, economists, statesmen, and educators of the Far East.

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

277 The Pacific Region in Modern Times
Year course; 2 credits each semester.
First contact of East and West; discovery and exploration; activities of traders and missionaries; development of European and American interests; origin of current problems.

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

HOME ECONOMICS

GENERAL COURSES (H.E.)

H.E. 100 Orientation in Home Economics
First semester only; 1 credit.
Application of social ethics to daily life; position of women in the family and community; choice of a vocation; vocational opportunities in home economics.

H.E. 101 Hygiene and Home Nursing
Second semester only; 3 credits.
A practical study of personal and community health; the acquisition of skill in basic home nursing procedures. Two lectures and one laboratory period a week.

H.E. 201 Consumer Buying
Second semester only; 2 credits.
Problems of consumers in purchasing foods, clothing, cosmetics, drugs, furniture, and equipment; brief survey of market structure, advertising agencies, testing bureaus, and consumer buying habits. Prerequisite: junior standing.

H.E. 250 Household Management
First semester; 3 credits.
Contribution of home maker and family members to better home living; management of time and money; arrangement, selection, cost, and care of equipment. Two lectures and one laboratory period a week. Prerequisite: junior standing.

H.E. 251 Home Economics Education
Second semester only; 3 credits.
Curriculum content, teaching procedures, and current educational philosophies and practices as they apply to home economics education. Prerequisite: junior standing.

H.E. 252 Child Training
Second semester only; 2 credits; with laboratory period, 3 credits.
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. Laboratory period may be arranged. Prerequisite: Psychology 150.
H.E. 253 CHILD CARE
First semester only; 2 credits.
Mrs. Childs
Reproduction, prenatal care, childbirth, infant and preschool care, growth, minor ailments, and common diseases.

H.E. 262 EDUCATION FOR FAMILY LIFE
First semester; 2 credits.
Miss Douglass
Relationship problems within the family; special emphasis upon the factors contributing toward satisfying parent-child, child-child, and husband-wife relationships.

H.E. 291 PRACTICE COURSE IN HOME MANAGEMENT
Second semester only; 4 credits.
Miss Douglass
Living with a group of 4 to 6 students in a supervised practice house for 8 weeks; practical application of training in home economics; meal preparation, time and money management, human relationships. Conferences and laboratory period. Students share subsistence cost.

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

HOUSEHOLD ART (H.A.)

H.A. 110 ELEMENTS OF CLOTHING CONSTRUCTION
First semester only; 2 credits.
Use of commercial patterns; fundamentals of cutting, fitting, and constructing a simple school dress; study of cloth adapted to use in such a garment; class work centering about the use of cotton, flax, and rayon fibers; proper use and care of the sewing machine. Two laboratory periods a week. Laboratory fee $3.

H.A. 111 CLOTHING AND TEXTILES
Second semester only; 3 credits.
Children's clothing project; problem in renovating a garment for some member of the family; textile study continuing work of first semester; selection of cloth for various clothing uses; continued use of commercial patterns; clothing budget. Three laboratory periods a week. Prerequisite: Household Art 110. Laboratory fee $3.

H.A. 114 CLOTHING DESIGN AND CONSTRUCTION
Year course; 2 credits each semester.
Design and construction of costumes suitable to the individual student; use of foundation pattern in flat pattern designing; study of rayon and silk textiles. Two laboratory periods a week. Prerequisites: Household Art 110, 111; credit or concurrent registration in Household Art 150-151. Laboratory fee $3 each semester.

H.A. 150-151 CLOTHING SELECTION
Year course; 1 credit each semester.
Color, design, suitability, quality, and cost of clothing and accessories. Laboratory fee $1 each semester.

HOUSEHOLD SCIENCE (H.S.)

H.S. 102 FOOD ECONOMICS
Year course; 3 credits each semester.
Miss Weaver, Mrs. Bartow
Economic conditions related to food purchase; selection, preparation, and comparison of foods; composition, cost, and season; meal planning and serving. One lecture and 2 laboratory periods a week. Prerequisites: Chemistry 103; Household Science 150. Laboratory fee $5 each semester.
COURSES OF INSTRUCTION

H.S. 150 ELEMENTARY FOOD PREPARATION

First semester; 3 credits; repeated second semester.

Fundamental processes of food preparation; meal planning and serving; production, manufacture, and composition of common foods. One lecture and 2 laboratory periods a week. Laboratory fee $5.

H.S. 155 ELEMENTARY NUTRITION FOR NURSING STUDENTS

Second semester only; 3 credits.

Principles of nutrition in relation to health and disease; emphasis on nutritive value and use of foods grown or used in Hawaii. One lecture and 2 laboratory periods a week. Prerequisites: Household Science 150, one semester of Chemistry 103. Laboratory fee $5.

H.S. 200 NUTRITION

Year course; 3 credits each semester.

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 149, Chemistry 103; credit or concurrent registration in Chemistry 260, 262. Laboratory fee $5 each semester.

H.S. 250 DIET AND DISEASE

First semester only; 3 credits.

Diet therapy under abnormal conditions; reading, conferences, and laboratory. Two lectures and one laboratory period a week. Prerequisites: Household Science 102, 200. Laboratory fee $2. (Not offered in 1942-43)

H.S. 260 QUANTITY COOKERY

First semester only; 2 credits.

Food problems of institutions; preparation and serving of food in large quantities, menu planning, and food costs. Two 2½-hour laboratory periods a week. Prerequisite: Household Science 102. Laboratory fee $2.

H.S. 261 INSTITUTIONAL MANAGEMENT

Second semester only; 2 credits.

Organization and administration of food departments of institutions such as college cafeterias, school cafeterias, college residence halls, and hospitals. Prerequisite: Household Science 260.

H.S. 263 INSTITUTIONAL BUYING

Second semester only; 2 credits.

Selection and purchase of foods and equipment for an institution. Prerequisite: Household Science 260.

H.S. 264 PROBLEMS IN HOSPITAL DIETETICS AND MANAGEMENT

Second semester only; 4 credits.

Field practice for senior and graduate student dietitians in the Queen's Hospital or other approved hospital. Prerequisites: Household Science 200, 260, 261, 263, 265.

H.S. 265 INSTITUTIONAL ACCOUNTS

Second semester only; 3 credits.

Principles of accounting applied to management of school cafeterias, tearooms, residence halls, and other food service units. One lecture and 2 laboratory periods a week. Prerequisite: Household Science 260.
H.S. 266 PROBLEMS IN RESIDENCE HALL MANAGEMENT
First semester; credits arranged; repeated second semester.
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, 265.

H.S. 272 ELEMENTARY NUTRITION
First semester only; 4 credits.
Nutrition in relation to health of the individual and the family; planning of adequate diets utilizing foods available in Hawaii. Two lectures and 2 laboratory periods a week. Prerequisite: Household Science 102, or consent of instructor. Laboratory fee $5.

H.S. 273 RACIAL FOOD HABITS IN HAWAII
Second semester only; 4 credits.
The planning and preparation of meals for various racial groups at different income levels; emphasis on adequate diets at minimum cost. Two lectures and 2 laboratory periods a week. Prerequisite: Household Science 200 or 272. Laboratory fee $5.

JAPANESE

D102 BEGINNING JAPANESE
Year course; 3 credits each semester.
Intended especially for Occidental beginners and military personnel. Basic grammar; simple conversation and translation.

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

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

D203 JAPANESE TRANSLATION AND INTERPRETATION
Year course; 3 credits each semester.

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

300 ADVANCED READING AND RESEARCH
Credit by arrangement.

MATHEMATICS

149 ALGEBRA
First semester; 3 credits; repeated second semester.
Second-year algebra. Six hours a week. Prerequisites: One year of high school algebra, one year of plane geometry.
COURSES OF INSTRUCTION

150 PLANE TRIGONOMETRY  
Mr. Okubo  
First semester; 3 credits; repeated second semester.  
Prerequisites: Mathematics 149, or 2 years of high school algebra and one year of plane geometry.

151 COLLEGE ALGEBRA  
Mr. Webster  
First semester; 3 credits; repeated second semester.  
Prerequisites: Mathematics 150, or 2 years of high school algebra, one year of plane geometry, and one semester of trigonometry.

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

153 DIFFERENTIAL CALCULUS  
Mr. Webster  
Second semester only; 3 credits.  
Prerequisite: Mathematics 152.

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

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

156 SPHERICAL TRIGONOMETRY  
Mr. Webster  
Second semester only; 2 credits.  
Prerequisite: Mathematics 150 or equivalent. Desirable preparation: solid geometry.

252-253 ADVANCED CALCULUS AND DIFFERENTIAL EQUATIONS  
Mr. Watanabe  
Year course; 3 credits each semester (alternate years).  
Theory and application of ordinary, total, and partial differential equations. Fourier and other series, hyperbolic functions. Prerequisite: Mathematics 155 or equivalent.

283 GENERAL ASTRONOMY  
Mr. Watanabe  
Second semester only; 3 credits.  
A study of the earth's atmosphere, the tides, the solar system, and the galaxies; measurement of time and the positions of stars; use of telescope. Prerequisite: Mathematics 150 or equivalent.

MUSIC

152 ELEMENTS OF MUSICIANSHP  
Mrs. Kahananui  
Second semester only; 2 credits.  
Music reading, with attention to diction and phrasing. Elementary theory and conducting, with practice in the latter, using patriotic and simple assembly music.

210 MUSICAL FORM AND ANALYSIS  
Mrs. Kahananui  
First semester only; 2 credits.  
A study of the development of form in music, both vocal and instrumental, through analyses of musical selections.
251 MUSIC FOR THE ELEMENTARY YEARS
First semester only; 2 credits.
Mrs. Kahananui
Discussion of and practice in the organization and direction of the musical experiences of children on the elementary school level. This will include a survey of suitable materials and procedures. Prerequisite: Music 152, or consent of instructor.

262 MUSIC HISTORY AND APPRECIATION
First semester only; 2 credits.
Mrs. Kahananui
An examination of romantic and nationalistic trends in music as influenced by trends in human development. Listening to music of outstanding composers of these periods constitutes an important phase of the course.

263 MUSIC HISTORY AND APPRECIATION
Second semester only; 2 credits.
Mrs. Kahananui
Twentieth century social trends and their effects on the arts, with emphasis on the development of music.

264 CHORAL CONDUCTING
First semester only; 1 credit.
Mrs. Kahananui
A survey of suitable materials and procedures for elementary and junior high choral groups. Seating the chorus, assembly singing, choral interpretation. Registration for University Chorus advised but not required. Prerequisite: Music 152, or consent of instructor.

270 UNIVERSITY CHORUS
Year course; 1 credit each semester.
Mrs. Kahananui
Choral singing in unison and parts, with special emphasis on morale building materials.

PHILOSOPHY

150 HISTORY OF PHILOSOPHY
First semester; 4 credits; repeated second semester.
Mr. Moore
Western philosophy from era of great Greek thinkers to modern times; basic course in philosophy. Prerequisite: sophomore standing.

200 PHILOSOPHIES OF LIFE
First semester only; 3 credits.
Mr. Moore
Western philosophies and typical theories of the nature of the good life; some comparative consideration of eastern philosophies; advised as preparation for Philosophy 201.

201 PROBLEMS OF CONDUCT
Second semester only; 3 credits.
Mr. Moore
Practical problems of individual and social life; social and economic justice; crime and punishment; happiness; sex life; the family; etc. Desirable preparation: Philosophy 200.

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

PHYSICS

102 College Physics

Mr. Omer

Year course; 4 credits each semester.

Three lectures and one laboratory period a week. Prerequisite: Mathematics 150 or equivalent. Laboratory fee $4 each semester.

152 General Physics

Mr. Miyake

First semester only; 3 credits.

Two lectures and one laboratory period a week. Prerequisite: Physics 150. Laboratory fee $4.

202 Electrical Engineering

Mr. Eller

Year course; 3 credits each semester.

Theory, construction, and operation of direct and alternating current electrical machinery and equipment. Two lectures and one laboratory period a week. Prerequisite: Physics 152. Laboratory fee $4 each semester.

255 Light

Mr. Omer

First semester only; 3 credits.

Principles of geometrical and physical optics. Prerequisite: Physics 102 or equivalent.

256 Optics Laboratory

Mr. Omer

First semester only; 1 credit.

Experiments in geometrical and physical optics. One laboratory period a week. Prerequisite: credit or concurrent registration in Physics 255. Laboratory fee $4.

261 Reading or Laboratory Work in Advanced Physics

Staff

Credit by arrangement.

Reading, consultations, and written reports; or supervised experimental work. Prerequisites: Physics 102 or equivalent, Mathematics 154 or equivalent.

275 Electricity and Magnetism

Mr. Eller

Second semester only; 3 credits.

Fundamental theory of electric and magnetic phenomena. Prerequisites: Physics 102 or equivalent, Mathematics 154 or equivalent.

300 Directed Reading or Research

Staff

Credit by arrangement.

Reading, consultation and written reports; or supervised experimental work. Prerequisite: graduate standing or consent of instructor.

PSYCHOLOGY

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

150 General Psychology

Mr. Livesay

First semester; 4 credits; repeated second semester.

Introductory course surveying human behavior. Three lectures and one laboratory period a week. Prerequisite: sophomore standing. Laboratory fee $2 each semester.

200 Directed Reading

Credit by arrangement.

Prerequisite: consent of instructor.
250 **APPLIED PSYCHOLOGY**  
Mr. Livesay  
*First semester only; 3 credits.*  
Application of psychological principles to practical life situations; special attention to industrial, business, legal, and medical fields.

267 **PSYCHOLOGY AND TREATMENT OF EXCEPTIONAL CHILDREN**  
Miss Smith  
*First semester only; 2 credits.*  
Psychological and educational aspects of problems presented by various types of exceptional children; methods desirable in work with such children.

275 **SYSTEMS OF PSYCHOLOGY**  
Mr. Livesay  
*Second semester only; 3 credits.*  
The various systems of psychology; existentialism, functionalism, behaviorism, purposivism, and *Gestalt.*

280 **SOCIAL PSYCHOLOGY**  
Mr. Herrick  
*First semester only; 2 credits.*  
The psychology of human relations; psychological factors that determine behavior of an individual in his social relationships.

292 **MENTAL HYGIENE**  
Miss Smith  
*First semester only; 3 credits.*  
Conditions requisite to mental health and satisfactory social adjustment; causes and means of preventing maladjustments and neuroses.

295 **ABNORMAL PSYCHOLOGY**  
Miss Smith  
*Second semester only; 3 credits.*  
The nature and causes of psychoneuroses and insanity; incipient abnormal traits manifested in everyday life; psychotherapy.

297 **CLINICAL PSYCHOLOGY**  
Mr. Porteus  
*Second semester only; 2 credits.*  
Methods of diagnosis and treatment in psychological clinic practice.

300 **READING OR RESEARCH**  
Staff  
*Credit by arrangement.*  
Research or intensive reading in some field of psychology. Prerequisites: graduate standing and consent of instructor.

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

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**PUBLIC HEALTH NURSING**

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

156 **CHILD HYGIENE**  
*First semester only; 3 credits.*  
The physiology and hygiene of pregnancy, labor, and the puerperium; development, growth, and physical and mental hygiene of childhood from fetus through school age; history and present status of maternity and child health work.
COURSES OF INSTRUCTION

158 NUTRITION  Miss Weaver
*First semester only; 3 credits.*
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 2½-hour laboratory period a week.

160 PUBLIC HEALTH ADMINISTRATION  Special Lecturers
*First semester only; 2 credits.*
Methods of protection and promotion of community health; epidemiology and control of communicable diseases; modern public health organization and administration; statistical methods in health work. Three recitations a week.

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

171 FIELD PROGRAM  Miss Jones and Field Supervisors
*Second semester only; 10 credits.*
Instruction and guided experience in home visiting for both bedside and instructive care, in school health work, in maternal and child health conferences, and in chest and other clinics. Thirty-two hours a week.

200 SOCIAL WORK FOR PUBLIC HEALTH NURSES  Miss Wood
*Second semester only; 3 credits.*
The social work aspects of public health nursing, coordinating field experience with social case work principles. For students in public health nursing.

RELIGION

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

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

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

200 OLD TESTAMENT SURVEY  Mr. Mark
*First semester only; 2 credits.*
The Old Testament from the literary and philosophical points of view; emphasis on practical values of the book for life today.

201 NEW TESTAMENT SURVEY  Mr. Mark
*Second semester only; 2 credits.*
The New Testament from the literary and philosophical viewpoints; emphasis on practical values for life today.

240-241 CHRISTIAN CHURCH IN HISTORY  Mr. Hughes
*Year course; 3 credits each semester.*
Survey of the history of the Church as an institution; its relationship to other lines of human development.
250-251 COMPARATIVE STUDY OF RELIGIONS

Year course; 3 credits each semester.
Origin, development, literature, practices, and major ideas of the great religions.

SOCIAL WORK TRAINING

Consent of the instructor is a prerequisite to registration in Social Work Training courses numbered 300 or higher.

200 INTRODUCTION TO SOCIAL WORK

First semester only; 3 credits.
The origins, philosophy, scope, aims, and methods of contemporary social work; typical problems and agencies. Open only to majors in sociology or psychology. Prerequisite: junior or senior standing.

201 SOCIAL WORK IN HAWAII

Second semester only; 3 credits.
Designed to familiarize the student with the social agencies of Hawaii and the problems with which they deal. Prerequisite: Social Work Training 200.

300 SOCIAL CASE WORK

First semester only; 3 credits.
An introductory course; principles of social case work and their application; an approach to the individual and his social situation.

310 DYNAMICS OF HUMAN BEHAVIOR

First semester only; 2 credits.
The composition, development, and function of personality.

315 COMMUNITY ORGANIZATION

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

325 CHILD WELFARE

Second semester only; 3 credits.
Social aspects of child welfare problems and programs; methods and agencies for the prevention and treatment of maladjusted childhood.

330 HEALTH AND DISEASE

First semester only; 2 credits.
Diseases and disease groups; their medical and hospitalization aspects and their social implications.

340 ADVANCED CASE WORK

Second semester only; 3 credits.
Lectures and case discussions emphasizing the psychiatric approach to social case work; evaluation of case studies in terms of cause and effect relationships.

350 INTRODUCTION TO PUBLIC WELFARE

First semester only; 3 credits.
The history, functions, and organization of local, state, and federal governments as related to individuals who need special care.
COURSES OF INSTRUCTION

352 Social Research

Mr. Lind

Second semester only; 3 credits.

The accepted methods of social research; values and limitations of each for various types of studies. Laboratory. Prerequisite: consent of instructor.

360-361 Supervised Field Work

Miss Frisbee, Miss Wood

Year course; 5 credits each semester.

Training in the application of case work principles in local welfare agencies.

370 Juvenile Delinquency

Mr. Laune

First semester; 2 credits.

A study of the background of delinquent behavior and community responsibility for its control.

SOCIOLOGY

151 Introduction to the Study of Man and Society

Mr. Lind, Mr. Hörmann

Second semester only; 3 credits.

An orientation course. The basic social relationships and the corresponding social structures. No credit for students who have had Sociology 170 and 171. Prerequisite: Anthropology 150.

250-251 Social Forces

Mr. Lind, Mr. Hörmann

Year course; 2 credits each semester.

The basic factors and forces operating in contemporary society, with special attention to Hawaii. Required of Teachers College students. Others may register by consent of instructor.

253 Rural Sociology

Mr. Hörmann

Second semester only; 3 credits.

Organization of life in the rural environment. A comparative study of rural community types, with special reference to Hawaii. Field trips, if the war situation permits. Prerequisites: Anthropology 150 and Sociology 151, or Sociology 252.

255 Social Disorganization

Mr. Hörmann

Second semester only; 3 credits.

The factors in contemporary society that condition personal and social disorganization; an introduction to problems of delinquency, dependency, and degeneracy. Field trips, if the war situation permits.

259 Folk and Peasant Community

Mr. Hörmann

First semester only; 3 credits.

A study of the social organization and culture of preliterate and peasant peoples. Special reference to the villages of Japan and China. May count as credit in Anthropology. Prerequisites: Anthropology 150 and Sociology 151, or Sociology 252.

272 Collective Behavior

Mr. Lind

First semester only; 3 credits.

Elementary and spontaneous forms of group behavior; social unrest; social contagion; the crowd and the public; mass and social movements; fashion, reform, and revolution. Prerequisites: Anthropology 150, Sociology 151.

300 Advanced Reading and Research

Staff

Credit by arrangement.

Prerequisite: consent of instructor.
352 Social Research

   Second semester only; 3 credits.

Mr. Lind

The accepted methods of social research; values and limitations of each method for various types of studies. Laboratory. Prerequisite: consent of instructor.

SPANISH

100 Elementary Spanish

   Year course; 3 credits each semester.

Mr. Aguiar

Conversation, essentials of grammar, Spanish and Latin American readings; emphasis upon the oral aspect of the language.

101 Modern Spanish Literature

   Year course; 3 credits each semester.

Mr. Aguiar

Works of Glados, Valera, Pereda, Ibanez, and others; conversation and composition; review of grammar; commercial correspondence. Prerequisite: a year of Spanish in college or 2 years in preparatory school.

252 Modern Spanish Novel

   First semester only; 2 credits.

Mr. Pecker

Rapid reading; advanced work in composition and conversation; review of grammar. Prerequisite: two years of college Spanish or the equivalent.

253 Modern Spanish Drama

   Second semester only; 2 credits.

Mr. Pecker

Rapid reading of modern Spanish plays; continued work in composition, diction, and conversation. Prerequisite: Spanish 252.

SURVEY

100 A Survey of the Natural Sciences

   Year course; 3 credits each semester.

Mr. Palmer

Items from various fields of natural science, selected to illustrate what is known and how it has been learned. Primarily for freshmen in Groups I and II of the College of Arts and Sciences. Admission for the second semester only by consent of instructor.

250 History of Science

   First semester; 2 credits; repeated second semester.

Mr. St. John

Progress and discoveries in physical and biological science from ancient to modern times. Readings and reports. Prerequisites: junior standing and 2 semesters of biological or physical science, one of which must include laboratory work.

ZOOLOGY

For students majoring in zoology, Zoology 100, 151, 170, 180, 181, 191, 261, Agriculture 254, and fundamental courses in chemistry and physics are recommended. For premedical students Zoology 100, 151, 191, 260, 262, Botany 100, Bacteriology 151, 24 credits in chemistry, and 8 credits in physics are suggested.

A biological laboratory at Waikiki provides excellent opportunity for marine biological research.
COURSES OF INSTRUCTION

100 ZOOLOGY  Mr. Hamre, Mr. Bonnet
First semester; 4 credits; repeated second semester.
Zoological principles; studies of structure, development, relationship, and distribution of animals. This course and Botany 100 comprise an introduction to the biological sciences. Two lectures and 2 laboratory periods a week. Laboratory fee $3.

151 COMPARATIVE ANATOMY OF THE VERTEBRATES  Mr. Hamre, Mr. Ostergaard
First semester only; 4 credits.
Comparative study of the organ systems of typical vertebrates and the structure and relationships of vertebrate groups. Two lectures and 2 laboratory periods a week. Prerequisites: for premedical students and prospective psychology majors, Zoology 100; for all others, Zoology 100 and Botany 100. Laboratory fee $5.

160 MAMMALIAN ANATOMY  Mr. Ostergaard
Second semester only; 3 credits.
A laboratory course primarily for premedical students; careful dissection of a typical mammal. Three laboratory periods a week. Prerequisite: Zoology 151. Laboratory fee $6.

170 GENERAL ENTOMOLOGY  Mr. Holdaway
First semester only; 3 credits.
An introductory course; insects, their structure, habits, biology, and classification; emphasis on insects characteristic of Hawaii. Two lectures and one laboratory period a week. Prerequisites: Zoology 100 and Botany 100. Laboratory fee $3.

173 AGRICULTURAL ENTOMOLOGY  Mr. Holdaway
Second semester only; 3 credits.
The important insects of Hawaiian crops; chemical, cultural, and biological control. Two lectures and one laboratory period a week; field trips and reference work. Prerequisite: Zoology 170. Laboratory fee $3.

180 INVERTEBRATE ZOOLOGY  Mr. Bonnet
First semester only; 3 credits.
Morphology, physiology, development, ecology, and distribution of invertebrate animals. One lecture and 2 laboratory periods a week. Prerequisites: Zoology 100, Botany 100. Laboratory fee $3.

191 PHYSIOLOGY  Mr. Bonnet
Second semester only; 3 credits.
Functions of the systems of organs of the human body. Prerequisite: either (1) Zoology 100 and Botany 100 or (2) a year of chemistry.

260 HISTOLOGY  Mr. Hamre
First semester only; 3 credits.
Studies of tissues, principles of histology, and microscopic anatomy of a limited number of vertebrate animals. One lecture and 2 laboratory periods a week. Prerequisite: one of the following—Zoology 151, 170, 180. Laboratory fee $3.

261 VERTEBRATE EMBRYOLOGY  Mr. Hamre
Second semester only; 3 credits.
Principles of embryology illustrated by a detailed study of the development of the frog and the chick. One lecture and 2 laboratory periods a week. Prerequisite: one of the following—Zoology 151, 170, 180. Laboratory fee $3.

262 MICROTECHNIQUE  Mr. Hamre
Second semester only; 2 credits.
The fixing, staining, and mounting of animal tissues and entire animals and organs. Two laboratory periods a week. Prerequisite: Zoology 260. Laboratory fee $8.
285  **Evolution and Eugenics**  
*First semester only; 2 credits.*

Mr. Bonnet

The doctrine of organic evolution; the historical development, supporting evidence, theories, and applications; human genetics and evolution and their social import.  
Prerequisite: one year of zoology or botany.

290  **Independent Study**  
*Credit by arrangement.*

Prerequisite: consent of instructors.

300  **Research**  
*Credit by arrangement.*

Staff

Directed Research in (a) marine zoology—Mr. Bonnet, (b) anatomy and histology—Mr. Hamre, (c) entomology—Mr. Holdaway. Prerequisites: graduate standing and consent of instructor.
## SUMMARY OF ENROLLMENT 1941-1942

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