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# UNIVERSITY OF HAWAII BULLETIN

Volume XXIII

Number 3

June 1944

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CATALOGUE NUMBER  
FOR 1944-45  
SESSIONS

# UNIVERSITY OF HAWAII BULLETIN

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## UNIVERSITY CALENDAR

1944

Sept. 12, Tuesday } Freshman Orientation Period  
Sept. 13, Wednesday }  
Sept. 14, Thursday.....Registration of Sophomores,  
Juniors, and Seniors  
Sept. 15, Friday.....Registration of Freshmen  
Sept. 16, Saturday..Registration of all other students  
Sept. 18, Monday.....Instruction begins  
Oct. 7, Saturday\*.....Primary Election Day  
Nov. 7, Tuesday\*.....General Election Day  
Nov. 11, Saturday\*.....Armistice Day  
Nov. 30, Thursday.....Thanksgiving Day (holiday)  
Dec. 20, Wednesday....Last day of instruction before  
Christmas recess

1945

Jan. 4, Thursday.....Instruction resumes  
Jan. 23, Tuesday.....Last day of instruction  
Jan. 25, Thursday.....Final examinations begin  
Jan. 30, Tuesday.....First Semester ends  
Feb. 5, Monday.....Registration of all students for  
Second Semester  
Feb. 6, Tuesday.....Instruction begins  
Feb. 12, Monday\*.....Lincoln's Birthday  
Feb. 22, Thursday\*.....Washington's Birthday  
Mar. 30, Friday } Easter recess  
Mar. 31, Saturday }  
May 29, Tuesday.....Last day of instruction  
May 30, Wednesday\*.....Decoration Day  
June 1, Friday.....Final examinations begin  
June 6, Wednesday.....Second Semester ends  
June 12, Tuesday.....Thirty-fourth annual  
Commencement  
June 13, Wednesday.....Registration for  
Summer Session

\* Territorial holidays if so designated by the Governor.

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## BOARD OF REGENTS

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<b>WILLIAM P. ALEXANDER</b> Manager, Grove Farm Co., Kauai.....	1947
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<b>MRS. WILLOWDEAN C. HANDY</b> Ethnologist, Honolulu.....	1945
<b>DR. FRED K. LAM</b> Physician and Surgeon, Honolulu.....	1947
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### INSTRUCTION

- ISABELLA A. ABBOTT, M.S., Assistant in Botany—B.A., Univ. of Hawaii, 1941; M.S., Univ. of Michigan, 1942.  
OSCAR N. ALLEN, Ph.D., Professor of Bacteriology—B.A., Univ. of Texas, 1927, M.A., 1927; Ph.D., Univ. of Wisconsin, 1930.  
ESTHER M. ANDERSON, B.S., Instructor in Education—B.S., Univ. of Iowa, 1943.  
ARTHUR L. ANDREWS, Ph.D., L.H.D., Professor Emeritus of English—B.L., Cornell Univ., 1893, M.L., 1895, Ph.D., 1902; L.H.D., Tufts College, 1926.  
CARL B. ANDREWS, M.S., Professor Emeritus of Engineering—B.S., Rose Polytechnic Institute, 1908, M.S., 1909, C.E., 1917; M.S., Massachusetts Institute of Technology, 1928.  
FRED E. ARMSTRONG, Ph.D., Professor of Agricultural Education—B.S., Clemson College, 1916; M.S., Univ. of Minnesota, 1921; Ph.D., Pennsylvania State College, 1940.  
GENEVIEVE ARNOLD, M.A., Instructor in English—B.A., Univ. of Minnesota, 1934, M.A., 1936.

## INSTRUCTIONAL STAFF

- ROBERT K. ATKINSON, M.A., Lecturer in Social Work—B.A., Pacific College, 1899; M.A., New York Univ., 1931.
- PAUL S. BACHMAN, Ph.D., Professor of History and Government—B.S., Ohio State Univ., 1922; M.A., Univ. of Washington, 1925, Ph.D., 1927.
- MARY L. BARTOW, B.A., Instructor in Home Economics—B.A., Washington State College, 1919.
- HELEN M. BAUKIN, Lecturer in Dental Hygiene—R.D.H., Eastman School of Dental Hygiene, 1920.
- ALLADINE BELL, M.A., Instructor in English—B.S., Northwestern Univ., 1935; M.A., Stanford Univ., 1941.
- LAVERNE M. BENNETT, M.A., Instructor in Health and Physical Education—B.A., Fresno State College, 1934; M.A., Univ. of California, 1936.
- MURIEL J. BERGSTROM, M.A., Instructor in English—B.A., Univ. of Michigan, 1909; M.A., Stanford Univ., 1910.
- AGNES C. BICKERTON, M.A., Instructor in Dental Hygiene—Diploma, Honolulu Dental Infirmary School of Dental Hygiene, 1921; B.A., Univ. of Hawaii, 1932, M.A., 1935.
- HELENE B. BIGGS, B.A., Lecturer in French—B.A., Oberlin College, 1917.
- EARL M. BILGER, Ph.D., 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.
- ARTHUR P. BOUVIER, Ph.D., Assistant Professor of English—B.A., Univ. of Minnesota, 1921, Ph.D., 1943.
- ROBERT C. BRASTED, Ph.D., Instructor in Chemistry—B.S., George Washington Univ., 1938, M.A., 1939; Ph.D., Univ. of Illinois, 1942.
- THETIS M. BUCKLIN, M.S., Instructor in Health and Physical Education—B.S., Battle Creek College, 1935; M.S., Indiana Univ., 1936.
- ELIZABETH K. BUSHNELL, Ph.D., Assistant Professor of Bacteriology—B.A., Univ. of Wisconsin, 1935, M.S., 1936, Ph.D., 1939.
- MERTON K. 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.
- ELIZABETH B. CARR, M.A., Instructor in English—B.A., Univ. of Oklahoma, 1924, M.A., 1940.
- BERT CHAN WA, Ed.B., Instructor in Health and Physical Education—Ed.B., Univ. of Hawaii, 1941.
- LILY PAO-HU CHONG, B.A., Lecturer in Chinese—B.A., Yenching Univ., 1937.
- ADNA G. CLARKE, LL.B., Professor Emeritus of Police Administration—LL.B., Kansas Univ., 1897, B.A., 1900.
- HARRY F. CLEMENTS, Ph.D., Professor of Botany—B.S., Univ. of Wisconsin, 1924, M.S., 1925; Ph.D., Univ. of Chicago, 1929.
- ROBERT W. CLOPTON, Ed.M., Assistant Professor of Education—B.A., Maryville College, 1926; Ed.M., Univ. of Hawaii, 1941.
- WILLIS B. COALE, Ph.D., Associate Professor of English—B.A., Oberlin College, 1912; M.A., Columbia Univ., 1927, Ph.D., 1929.
- HARRY COLLINS, M.A., Associate Professor of English—B.A., Univ. of Minnesota, 1912; M.A., Columbia Univ., 1917.
- MERVYN I. CONNER, D.D.S., Lecturer in Dental Hygiene—D.D.S., Univ. of California, 1926.
- JOHN DAWE, L.D.S., Lecturer in Dental Hygiene—D.D.S., Washington Univ., 1915; L.D.S., Univ. of Saskatchewan, 1918.

## FACULTY AND STAFF

---

- FRANK T. DILLINGHAM, M.A., Professor Emeritus of Chemistry—B.S., Worcester Polytechnic Institute, 1901; M.A., Yale Univ., 1916.
- CATHERINE DOERR, M.A., Assistant Professor of Home Economics—B.A., Michigan State College, 1932; M.A., Teachers College, Columbia Univ., 1938.
- JOHN S. DONAGHHO, M.A., Professor Emeritus of Mathematics and Astronomy—B.A., Marietta College, 1889, M.A., 1897.
- RUTH DOUGLASS, M.S., Assistant Professor of Home Economics—B.A., Pomona College, 1925; M.S., Oregon State College, 1932.
- CARROLL I. DRAPER, Ph.D., Associate Professor of Agriculture—B.S., Utah State Agricultural College, 1939; Ph.D., Iowa State Agricultural College, 1941.
- CHARLES H. EDMONDSON, Ph.D., Professor Emeritus of Zoology—Ph.B., Univ. of Iowa, 1903, M.S., 1904, Ph.D., 1906.
- WILLARD H. ELLER, Ph.D., Professor of Physics—B.S., Univ. of California, 1914; M.S., Univ. of Washington, 1925; Ph.D., Univ. of California, 1928.
- CHARLES J. ENGARD, Ph.D., Associate Professor of Botany—B.S., Washington State College, 1935, M.S., 1937; Ph.D., Univ. of Chicago, 1938.
- JESSIE S. FISHER, Ed.B., Instructor in Art—Ed.B., Univ. of Hawaii, 1936.
- LORRAINE F. FITZSIMMONS, M.A., Instructor in Education—B.A., Colorado State Teachers College (now Colorado State College of Education), 1929, M.A., 1931.
- WILLIAM A. FRAZIER, Ph.D., Professor of Agriculture—B.S., Agricultural and Mechanical College of Texas, 1930; M.S., Univ. of Maryland, 1931, Ph.D., 1933.
- MARGARETTA FRISBEE, M.A., Assistant Professor of Social Work—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.
- DAVID T. FULLAWAY, M.A., Lecturer in Entomology—B.A., Stanford Univ., 1908, M.A., 1910.
- MAY K. GAY, M.A., Assistant Professor of Health and Physical Education—B.A., Univ. of Hawaii, 1923; M.A., Columbia Univ., 1925.
- CYNTHIA B. GEISER, M.A., Instructor in Education—B.A., Western State College, Colorado, 1926; M.A., Univ. of Hawaii, 1929.
- WILLIAM H. GEORGE, Ph.D., Professor Emeritus of History and Political Science—B.A., Harvard Univ., 1902; M.A., Princeton Univ., 1906; Ph.D., Harvard Univ., 1921.
- MATTHEW M. GRAHAM, C.P.A., Professor of Accounting—C.A., Institute of Accountants and Actuaries, Glasgow, Scotland, 1906; C.P.A., Hawaii Territorial Board of Accountancy.
- CHRISTOPHER GREGORY, Ph.D., Instructor in Mathematics and Engineering—B.S., California Institute of Technology, 1938, M.S., 1939, Ph.D., 1941.
- KATHERINE B. GRUELLE, M.A., Assistant Professor of Home Economics—B.S., Ohio State Univ., 1917; M.A., Teachers College, Columbia Univ., 1925.
- CHRISTOPHER J. HAMRE, Ph.D., Professor of Zoology—B.A., St. Olaf College, 1923; M.S., Univ. of Wisconsin, 1927, Ph.D., 1930.
- EVA R. HARTZLER, M.S., Lecturer in Home Economics—B.S., Juniata College, 1932; M.S., Pennsylvania State College, 1933.
- AKIYOSHI HAYASHIDA, M.A., Lecturer in Japanese—B.A., Univ. of Hawaii, 1928, M.A., 1933.
- LOUIS A. HENKE, M.S., Professor of Agriculture—B.S., Univ. of Wisconsin, 1912, M.S., 1923.

INSTRUCTIONAL STAFF

- ROBERT W. HIATT, Ph.D., Assistant Professor of Zoology—B.A., San Jose State College, 1936; Ph.D., Univ. of California, 1941.
- RALPH C. HOEBER, J.D., Associate Professor of Economics and Business—B.A., Univ. of Oregon, 1921, M.A., 1923; J.D., Stanford Univ., 1927.
- EDWARD C. HOEY, D.M.D., Lecturer in Dental Hygiene—D.M.D., Harvard Univ., 1917.
- FREDERICK G. HOLDAWAY, Ph.D., Professor of Zoology—B.S., Univ. of Queensland, Australia, 1923, M.S., 1925; Ph.D., Univ. of Minnesota, 1928.
- BERNHARD L. HÖRMANN, M.A., Assistant Professor of Sociology—B.A., Univ. of Hawaii, 1927, M.A., 1931.
- MARIA HÖRMANN, B.A., Assistant Professor of German—B.A., Univ. of Hawaii, 1923.
- MARTHA W. HOSCH, M.S.S., Assistant Professor of Social Work—B.A., Sweet Briar College, 1928; M.S.S., Smith College, 1935.
- CHARLES H. HUNTER, Ph.D., Associate Professor of History—B.A., Stanford Univ., 1927, M.A., 1928, Ph.D., 1935.
- JANANCY JACKSON, B.A., Assistant in English—B.A., Univ. of California at Los Angeles, 1931.
- THOMAS A. JAGGAR, Ph.D., D.Sc., Research Associate in Volcanology—B.A., Harvard Univ., 1893, M.A., 1894, Ph.D., 1897; D.Sc., Dartmouth College, 1938.
- VIRGINIA A. 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.
- HENRY P. JUDD, B.A., Professor of Hawaiian—B.A., Yale Univ., 1901.
- DOROTHY M. KAHANANUI, Ed.M., Instructor in Music—B.S., New York Univ., 1931; Ed.M., Univ. of Hawaii, 1936.
- ARTHUR R. KELLER, D.Sc., Professor of Engineering—C.E., Cornell Univ., 1903; LL.B., National Univ., 1906; M.S. Harvard Univ., 1916; M.S., Massachusetts Institute of Technology, 1916; D.Sc., Univ. of Hawaii, 1942.
- HENRIETTA C. KRANTZ, B.A., Instructor in English—B.A., Milwaukee Teachers College, 1922.
- FREDERICK G. KRAUSS, D.Sc., Professor Emeritus 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.
- KATHARINE LACKEY, M.A., Instructor in English—B.A., Flora MacDonald College, 1935; M.A., Univ. of North Carolina, 1943.
- FERRIS F. LAUNE, Ph.D., Professor of Social Work—B.A., Univ. of Nebraska, 1914; Ph.D., Northwestern Univ., 1935.
- RICHARD K. C. LEE, Dr.P.H., Lecturer in Public Health Nursing—M.D., Tulane Medical School, 1933; Dr.P.H., Yale Univ., 1938.
- GILBERT G. LENTZ, Ph.D., Professor of Public Administration—Ed.B., Southern Illinois State Teachers College, 1931; M.A., Univ. of Illinois, 1932, Ph.D., 1938.
- JAMES Y. T. LEONG, M.B.A., Lecturer in Business—B.A., Univ. of Hawaii, 1932; M.B.A., Harvard Univ., 1934.
- ANDREW W. LIND, Ph.D., Professor of Sociology—B.A., Univ. of Washington, 1924, M.A., 1925; Ph.D., Univ. of Chicago, 1931.
- THAYNE M. LIVESAY, Ph.D., Professor of Psychology—B.A., Pacific Univ., 1917; M.A., Univ. of Washington, 1921, Ph.D., 1931.
- HUC-MAZELET LUQUIENS, B.F.A., Professor of Art—B.A., Yale Univ., 1902, B.F.A., 1908.

## FACULTY AND STAFF

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- MAYBELLE McCLEERY, Ed.B., Instructor in Education—Ed.B., Univ. of Hawaii, 1933.
- ALBERT J. MCKINNEY, M.A., Assistant Professor of Education—Ed.B., Univ. of Hawaii, 1938, Ed.M., 1940; M.A., Yale Univ., 1942.
- WARD MADDEN, Ed.M., Instructor in Education—Ed.B., Univ. of Hawaii, 1939, Ed.M., 1941.
- EVANGELINE MARSHALL, B.A., Instructor in Home Economics—B.A., Mills College, 1931.
- CHARLOTTE E. MEES, M.S., Instructor in Home Economics—B.S., Univ. of Wisconsin, 1938, M.S., 1944.
- CAREY D. MILLER, M.S., Professor of Foods and Nutrition—B.A., Univ. of California, 1917; M.S., Columbia Univ., 1922.
- CAROL MITCHELSON, M.S., Instructor in Home Economics—B.S., Kansas State College, 1938, M.S., 1940.
- IWAO MIYAKE, M.S., Assistant Professor of Physics—B.S., Univ. of Hawaii, 1926, M.S., 1929.
- CHARLES A. MOORE, Ph.D., Associate Professor of Philosophy—B.A., Yale Univ., 1926, Ph.D., 1932.
- BERTHA MUELLER, Ph.D., Assistant Professor of English and German—B.A., Northwestern Univ., 1926; M.A., Univ. of Wisconsin, 1929, Ph.D., 1935.
- LOWELL E. NOLAND, Ph.D., Visiting Professor of Zoology—B.A., DePauw, 1917; M.A., Univ. of Wisconsin, 1921, Ph.D., 1923.
- HISAKO OGAWA, B.S., Assistant in Zoology—B.S., Univ. of Hawaii, 1943.
- SUMI W. OKAWA, Ed.M., Instructor in English—Ed.B., Univ. of Hawaii, 1938, Ed.M., 1940.
- SHIGEO OKUBO, M.S., Instructor in Engineering and 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.
- DORRIT C. O'NEAL, B.S., Assistant in Education—B.S., Univ. of Hawaii, 1932.
- DREW B. PALLETTE, M.A., Instructor in English—B.A., Univ. of California at Los Angeles, 1933; M.A., Univ. of Southern California, 1934; M.A., Harvard Univ., 1937.
- HAROLD S. PALMER, Ph.D., Professor of Geology—B.A., Yale Univ., 1912, Ph.D., 1923.
- IRVING O. PECKER, B.A., Professor of Romance Languages—B.A., Boston Univ., 1912.
- EDNA L. PEGRAM, M.A., Instructor in Education—B.A., Meredith College, 1936; M.A., Univ. of Iowa, 1940.
- MYRTLE F. PETERSON, B.A., Assistant in Education—B.A., Univ. of Hawaii, 1936.
- LYLE G. PHILLIPS, M.D., Lecturer in Dental Hygiene—B.S., Univ. of Wisconsin, 1921; M.D., Rush Medical College, 1923.
- HEDDEN D. PORTEUS, LL.B., Lecturer in Social Work—B.A., Univ. of Hawaii, 1933; LL.B., Harvard Univ., 1936.
- ANTON POSTL, M.S., Instructor in Chemistry—B.S., Univ. of Hawaii, 1940, M.S., 1942.
- JOHN RADEMAKER, Ph.D., Assistant Professor of Sociology—Ph.D., Univ. of Washington, 1938.
- SHUNZO SAKAMAKI, Ph.D., Assistant Professor of History—B.A., Univ. of Hawaii, 1927, M.A., 1928; Ph.D., Columbia Univ., 1939.
- GILBERT SANDRITTER, M.D., Lecturer in Social Work—M.D., Univ. of Nebraska, 1935.
- F. VERN SAYERS, Ph.D., Professor 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.

- WILLIAM M. SHANAHAN, M.D., Lecturer in Public Health Nursing—B.S., Univ. of Wisconsin, 1934, M.D., 1936.
- RICHARD H. P. SIA, M.D., University Physician and Lecturer in Health Education—B.S., Boone Univ., China, 1914; M.D., Western Reserve Univ., 1918.
- GREGG M. SINCLAIR, M.A., Professor of English—B.A., Univ. of Minnesota, 1912; M.A., Columbia Univ., 1919.
- ETHEL E. SMITH, Ph.D., Assistant Professor of Education—B.S., State Teachers College, Cape Girardeau, Missouri, 1926; M.A., Univ. of Chicago, 1931; Ph.D., Northwestern Univ., 1943.
- JANET SMITH, Ph.D., Associate Professor of Education and Principal of Teachers College Preschool Unit—B.A., Ohio Wesleyan Univ., 1928; M.A., State Univ. of Iowa, 1940, Ph.D., 1942.
- VERNON E. SMITH, D.D.S., Lecturer in Dental Hygiene—D.D.S., Univ. of Southern California, 1933.
- LOUISE S. SPRADO, Ed.B., Assistant in Education—Ed.B., Univ. of Hawaii, 1940.
- HALLYE SPURKEL, B.A., Assistant in Art—B.A., Univ. of Hawaii, 1930.
- PAULINE G. STITT, M.D., Lecturer in Social Work—M.D., Univ. of Michigan, 1933.
- WILLIAM B. STOREY, Ph.D., Assistant Professor of Horticulture—B.S., Univ. of Hawaii, 1935, M.S., 1937; Ph.D., Cornell Univ., 1940.
- CARL G. STROVEN, Ph.D., Associate Professor of English—B.A., Stanford Univ., 1926, M.A., 1928; Ph.D., Duke Univ., 1939.
- 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.
- YOSHINORI TANADA, B.S., Assistant in Zoology—B.S., Univ. of Hawaii, 1940.
- DORIS TILDEN, B.S., Assistant in Education—B.S., Univ. of Nebraska, 1941.
- JOEL TRAPIDO, Ph.D., Instructor in English—B.A., Cornell Univ., 1935; M.A., New York Univ., 1936; Ph.D., Cornell Univ., 1942.
- GLADYS M. TRAUT, M.A., Instructor in Education—B.A., Univ. of Michigan, 1927; M.A., Univ. of Hawaii, 1929.
- YUKUO UYEHARA, M.A., Assistant Professor of Japanese—B.A., Univ. of Hawaii, 1931, M.A., 1936.
- DONALD L. VAN HORN, Ph.D., Assistant Professor of Agriculture—B.S., Univ. of Nebraska, 1939; M.S., Cornell Univ., 1940, Ph.D., 1943.
- HAROLD A. WADSWORTH, B.S., Professor of Agriculture—B.S., Univ. of California, 1916.
- FRED W. WAGNER, Ph.D., Lecturer in Economics and Business—B.A., Univ. of Washington, 1930, M.B.A., 1931, Ph.D., 1937.
- JAMES M. WAHL, Lecturer in English.
- VANDALIA B. WALL, M.A., Instructor in English—B.A., Russell Sage College, 1940; M.A., Univ. of Michigan, 1941.
- 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—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.
- CHARLES L. WILBAR, JR., M.D., Lecturer in Public Health Nursing—B.A., Univ. of Pennsylvania, 1928, M.D., 1932.

- ELWIN L. WILLETT, Ph.D., Associate Professor of Agriculture—B.S., Michigan State College, 1937; M.S., Univ. of Nebraska, 1938; Ph.D., Cornell Univ., 1941.
- JULIA S. WILSON, M.A., Instructor in Mathematics—B.A., Park College, 1905; M.A., Univ. of California, 1926.
- JANET B. WIMBERLY, B.A., Instructor in English—B.A., Univ. of Washington, 1939.
- SAMUEL WISHIK, M.D., Lecturer in Social Work and Home Economics—B.A., Columbia Univ., 1926, M.D., 1929.
- BENJAMIN O. WIST, Ph.D., Professor of Education—B.A., Spokane College, 1910; M.A., Univ. of Hawaii, 1924; Ph.D., Yale Univ., 1937.
- HELENE WONG, M.A., Instructor in English—B.A., Stanford Univ., 1942, M.A., 1944.
- JOHN M. YOUNG, M.M.E., Professor Emeritus of Engineering—B.S., Univ. of Florida, 1898; M.E., Cornell Univ., 1902, M.M.E., 1904.
- HARLEY H. ZEIGLER, Ph.D., Professor of Religion—M.A., Boston Univ., 1932, S.T.B., 1933, Ph.D., 1940.

### PSYCHOLOGICAL AND PSYCHOPATHIC CLINIC

- LEONA CHIDESTER, Ph.D., Assistant Psychologist (for outer islands)—B.A., Univ. of Kansas, 1930; M.A., Ohio State Univ., 1931; Ph.D., Univ. of Kansas, 1937.
- LUCILLE ERWIN, B.A., Junior Psychologist—B.A., Univ. of California, 1927.
- COLIN J. HERRICK, Ph.D., Associate Psychologist—B.A., Haverford College, 1924; M.A., Univ. of Pennsylvania, 1934, Ph.D., 1939.
- MILDRED C. MENDENTHAL, Ph.D., Associate Psychologist (for outer islands)—B.A., Univ. of North Carolina, 1920; M.A., Univ. of Rochester, 1934; Ph.D., Univ. of North Carolina, 1939.
- HENRY N. PETERS, Ph.D., Associate Psychologist—B.A., Univ. of Arkansas, 1930; M.A., Univ. of Missouri, 1931; Ph.D., Univ. of Chicago, 1933.
- STANLEY D. PORTEUS, D.Sc., Director—D.Sc., Univ. of Hawaii, 1933.

### HAWAII AGRICULTURAL EXPERIMENT STATION

- ERNEST K. AKAMINE, M.S., Junior Plant Pathologist—B.S., Univ. of Hawaii, 1935, M.S., 1941.
- JOSEPH E. ALICATA, Ph.D., Parasitologist—B.A., Grand Island College, 1927; M.A., Northwestern Univ., 1928; Ph.D., George Washington Univ., 1934.
- JOHN H. BEAUMONT, Ph.D., Director and Horticulturist—B.S., West Virginia Univ., 1917; Ph.D., Univ. of Minnesota, 1925.
- HARRY F. CLEMENTS, Ph.D., Plant Physiologist—B.S., Univ. of Wisconsin, 1924, M.S., 1925; Ph.D., Univ. of Chicago, 1929.
- CARROLL I. DRAPER, Ph.D., Associate Poultry Husbandman—B.S., Utah State Agricultural College, 1939; Ph.D., Iowa State Agricultural College, 1943.
- WILLIAM A. FRAZIER, Ph.D., Horticulturist—B.S., Agricultural and Mechanical College of Texas, 1930; M.S., Univ. of Maryland, 1931, Ph.D., 1933.
- CHARLES K. FUJIMOTO, B.S., Assistant in Chemistry—B.S., Univ. of Hawaii, 1943.
- EVA R. HARTZLER, M.S., Associate Nutritionist—B.S., Juniata College, 1932; M.S., Pennsylvania State College, 1933.
- J. WALTER HENDRIX, M.F., Assistant Plant Pathologist—B.S., North Carolina State College, 1937; M.F., Yale Univ., 1940.

## FACULTY AND STAFF

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- LOUIS A. HENKE, M.S., Assistant Director and Animal Husbandman—B.S., Univ. of Wisconsin, 1912, M.S., 1923.
- FREDERICK G. HOLDAWAY, Ph.D., Entomologist—B.S., Univ. of Queensland, Australia, 1923, M.S., 1925; Ph.D., Univ. of Minnesota, 1928.
- EDWARD Y. HOSAKA, M.S., Assistant Agronomist—B.S., Univ. of Hawaii, 1931, M.S., 1935.
- WARREN S. IKEDA, B.S., Assistant in Horticulture—B.S., Univ. of Hawaii, 1939.
- DILWORTH D. JENSEN, Ph.D., Assistant Entomologist—B.S., Utah State College, 1935; M.S., Univ. of California, 1936, Ph.D., 1943.
- YOSHINORI KANEHIRO, B.S., Assistant in Chemistry—B.S., Univ. of Hawaii, 1942.
- KAZUO KIKUTA, B.S., Associate in Plant Pathology—B.S., Univ. of Hawaii, 1936.
- HAROLD W. KIRCH, Junior Horticulturist.
- WILLIAM C. LOOK, B.S., Associate in Entomology—B.S., Univ. of Hawaii, 1938.
- JOHN S. MCFARLANE, Ph.D., Assistant Horticulturist—B.S., Montana State College, 1938; Ph.D., Univ. of Wisconsin, 1942.
- CHARLES I. MARUYAMA, B.S., Junior Animal Husbandman—B.S., Univ. of Hawaii, 1935.
- MINORU MATSUURA, B.S., Assistant in Plant Pathology—B.S., Univ. of Hawaii, 1938.
- CAREY D. MILLER, M.S., Nutritionist—B.A., Univ. of California, 1917; M.S., Columbia Univ., 1922.
- NOBUYUKI NAKASONE, B.S., Assistant in Chemistry—B.S., Univ. of Hawaii, 1943.
- TOSHIYUKI NISHIDA, B.S., Assistant in Entomology—B.S., Univ. of Hawaii, 1941.
- ROBERT K. PAHAU, B.S., Superintendent of University Farm, Kona, Hawaii—B.S., Univ. of Hawaii, 1918.
- JOHN C. RIPPERTON, 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.
- GORDON T. SHIGEURA, B.S., Assistant in Plant Physiology—B.S., Univ. of Hawaii, 1939.
- WILLIAM B. STOREY, Ph.D., Associate Horticulturist—B.S., Univ. of Hawaii, 1935, M.S., 1937; Ph.D., Cornell Univ., 1940.
- MAKOTO TAKAHASHI, M.S., Junior Agronomist—B.S., Univ. of Hawaii, 1928, M.S., 1937.
- TAKUMA TANADA, B.S., Assistant in Chemistry—B.S., Univ. of Hawaii, 1942.
- DONALD L. VAN HORN, Ph.D., Assistant Agronomist—B.S., Univ. of Nebraska, 1939; M.S., Cornell Univ., 1940, Ph.D., 1943.
- ELWIN L. WILLET, Ph.D., Associate Animal Husbandman—B.S., Michigan State College, 1937; M.S., Univ. of Nebraska, 1938; Ph.D., Cornell Univ., 1941.

## COOPERATIVE EXTENSION SERVICE IN AGRICULTURE AND HOME ECONOMICS

- DOUGLAS E. BALDWIN, Acting County Agricultural Agent, Kauai.
- CHARLES M. BICE, B.S., Specialist in Poultry Husbandry—B.S., Univ. of Wisconsin, 1927.
- JOSEPH H. BOYD, B.S., Specialist in Truck Crops—B.S., West Virginia Univ., 1918.
- HENRY N. CHIKASUE, B.S., Assistant County Agricultural Agent, West Oahu—B.S., Univ. of Hawaii, 1941.
- EDWIN Y. CHUN, B.S., County Agricultural Agent, South Oahu—B.S., Univ. of Hawaii, 1933.
- MARTHA L. EDER, B.S., County Home Demonstration Agent, Molokai—B.S., Iowa State College, 1927.
- RALPH C. ELLIOTT, B.S., Specialist in Agricultural Economics—B.S., Univ. of Minnesota, 1922.
- RUTH A. EYRES, B.S., County Home Demonstration Agent, East Hawaii—B.S., Iowa State Teachers College, 1926.
- GENEVIEVE M. FEAGIN, B.S., County Home Demonstration Agent, West Hawaii—B.S., Mary Hardin Baylor College, 1935.
- FLORENCE C. FERNANDEZ, B.S., Assistant County Home Demonstration Agent, Kauai—B.S., Univ. of Hawaii, 1937.
- PAUL A. GANTT, M.S., Specialist in Animal Husbandry—B.S., Iowa State College, 1922, M.S., 1926.
- ROY A. GOFF, B.S., Acting Director of Agricultural Extension—B.S., Lombard College, 1913; B.S., Univ. of Illinois, 1915.
- BARON Y. GOTO, B.S., Specialist in Agricultural Club Work—B.S., Univ. of Hawaii, 1924.
- ALICE B. HANCOCK, B.S., County Home Demonstration Agent, North Hawaii—B.S., Iowa State College, 1927.
- ELSIE H. HARA, B.S., Assistant County Home Demonstration Agent, East Hawaii—B.S., Univ. of Hawaii, 1934.
- HERBERT M. HIROSHIGE, B.S., Assistant Specialist in Economics—B.S., Univ. of California, 1934.
- HARUO H. HONMA, B.S., Assistant Specialist in Economics—B.S., Univ. of Hawaii, 1940.
- JOHN IWANE, B.S., Assistant County Agricultural Agent, West Hawaii—B.S., Univ. of Hawaii, 1940.
- KIKUE KIYABU, B.S., Assistant County Home Demonstration Agent, Maui—B.S., Univ. of Hawaii, 1940.
- BUNKI KUMABE, B.S., Assistant County Agricultural Agent, Maui—B.S., Univ. of Hawaii, 1942.
- CLARENCE LYMAN, M.S., Acting County Agricultural Agent, West Hawaii—B.S., Univ. of Hawaii, 1938, M.S., 1941.
- RICHARD LYMAN, JR., B.S., Extension Farm Forester and County Agricultural Agent, Molokai—B.S., Univ. of Hawaii, 1925.
- DOLORES McCARTY, B.A., County Home Demonstration Agent, Kauai—B.A., Bluffton College, 1933.
- TSUMIKA MANEKI, B.S., Assistant County Agricultural Agent, East Hawaii—B.S., Univ. of Hawaii, 1922.
- 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.
- KEICHI MIHATA, B.A., Assistant County Agricultural Agent, North Hawaii—B.A., Univ. of Hawaii, 1935.

- DOROTHY M. MOUNTS, B.A., County Home Demonstration Agent, Maui—B.A., Univ. of California, 1929.
- FRANK T. MURPHY, B.S., County Agricultural Agent, Maui—B.S., Oregon State College, 1917.
- YUKIO NAKAGAWA, B.S., Assistant County Agricultural Agent, South Oahu—B.S., Univ. of Hawaii, 1940.
- SYLVIA C. NEWEL, B.S., County Home Demonstration Agent, East Oahu—B.S., Iowa State College, 1924.
- MOTO M. OKAWA, B.S., Assistant County Home Demonstration Agent, Maui—B.S., Univ. of Hawaii, 1932.
- RALPH H. OKUMOTO, B.S., Assistant County Agricultural Agent, West Oahu—B.S., Univ. of Hawaii, 1939.
- FUYUKI OKUMURA, B.A., County Agricultural Agent, West Oahu—B.A., Yale Univ., 1923.
- ROBERT M. OTA, Assistant County Agricultural Agent, Kauai.
- MERRIL K. RILEY, M.S., County Agricultural Agent, East Oahu—B.S., Colorado College, 1927; M.S., South Dakota State College, 1929.
- ESTHER R. RUGLAND, B.A., County Agent at Large—B.A., Concordia College, 1933.
- LILLIAN R. SCHWARTZ, B.S., County Home Demonstration Agent, South Oahu—B.S., Hastings College, 1931.
- KATHRYN SHELLHORN, M.A., Assistant Director in Home Economics and Specialist in Foods and Nutrition—B.S., Univ. of Nebraska, 1920; M.A., Columbia Univ., 1926.
- Y. RICHARD SUMIDA, B.S., Assistant County Agricultural Agent, South Oahu—B.S., Univ. of Hawaii, 1936.
- FRANK G. SUTHERLAND, B.S., Assistant Specialist in Animal Husbandry—B.S., Oregon State Agricultural College, 1917.
- SHOKYO TACHIKAWA, B.S., Assistant County Agricultural Agent, East Oahu—B.S., Univ. of Hawaii, 1938.
- FRANCIS T. TAKAHASHI, Associate County Agricultural Agent, Kauai.
- FRANCIS M. TAKISHITA, Assistant County Agricultural Agent, Maui.
- ALICE P. TRIMBLE, B.S., Specialist in Home Management—B.S., Utah State College, 1924.
- LILLIAN M. TUBB, B.S., County Home Demonstration Agent, West Oahu—B.S., Montana State College, 1931.
- HARVEY M. VOLLRATH, B.S., County Agricultural Agent, East Hawaii—B.S., Colorado College of Agriculture, 1929.
- WINIFRED H. WATANABE, B.S., Assistant County Home Demonstration Agent, Kauai—B.S., Univ. of Hawaii, 1943.
- HARVEY F. WILLEY, County 4-H Club Agent, Maui.
- WARREN Y. J. YEE, B.S., Assistant County Agricultural Agent, Maui—B.S., Univ. of Hawaii, 1942.

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## GENERAL INFORMATION

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### The University in Wartime

The University of Hawaii was probably the first American institution of higher learning to be directly affected by the war. It was closed for two months immediately following December 7, 1941. When the reopening date arrived, it was found that more than 50 per cent of the student body and faculty had entered war work or military service. There has been some increase in enrollment since that time, but the totals are still far below prewar days.

The general program has been modified to meet changed conditions. Course offerings have been adapted to war conditions wherever possible. The work of the Agricultural Experiment Station and the Agricultural Extension Service is now mainly directed toward improving food production for military and civilian needs.

The University is cooperating in every possible way with the military services in making faculty personnel and buildings available for their needs. The Physics Department, with all of its facilities, has been utilized, until recently, by the Army Radio Technicians School—a branch of the Army District Signal Office. Several hundred men have been trained by this school and sent back to active duty. Farrington Hall, a small auditorium, has been turned over to the Entertainment Section, Special Services Division, under Captain Maurice Evans, noted Shakespearean actor, for the training of men who are to produce shows in the field. From 80 to 100 soldiers are in constant attendance at this center. The personnel of this school live on the campus and eat at the University cafeteria. Considerable office space has been allotted to the Hawaiian Branch, United States Armed Forces Institute, and instructors have been provided for the correspondence courses which it offers to men of the services. In addition, well over 200 war workers and members of the Armed Forces are enrolled each semester in regular University courses.

The present catalogue pictures the University of Hawaii as a wartime institution subject to further adjustment as the emergency may dictate, but subject likewise to expansion when the war is over. Course offerings and faculty personnel have necessarily been reduced, but the standards of the institution and the needs of the students have been zealously protected.

### Description

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

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

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

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

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

*DIVISIONS OF THE ACADEMIC YEAR.*—The University divides its academic year into two semesters of eighteen weeks each and a summer session of six weeks. The semester beginning in the autumn is known as the First Semester, and that beginning in the winter is known as the Second Semester. As a war emergency measure, the Summer Session has been lengthened 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 mailing address of the University is P. O. Box 18, Honolulu 10, Territory of Hawaii.

## Organization

Since July 1, 1943, the University has operated under a new plan of organization, unanimously endorsed by the University Senate and adopted by the Board of Regents on February 23, 1943. This plan continues the College of Arts and Sciences, the College of Applied Science, Teachers College, the Agricultural Experiment Station, the Agricultural Extension Service, the Psychological Clinic, and the Library as separate entities, and in addition provides for a Graduate Division and an Office of Student Personnel to coordinate the work of admissions, counselling, and registration.

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

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

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### Related Services

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

*THE PSYCHOLOGICAL AND PSYCHOPATHIC CLINIC.*—This Clinic is a territorial agency under the management of the University. It was established by act of the Legislature in 1921, with the dual purpose of psychological investigation and of individual clinical examinations. The Act gives wide scope to the work of the Clinic, making its service in examination available to every institution and to all social and educational agencies in the Territory. Through 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.

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

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

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

### Cooperating Institutions

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

*BERNICE PAUAAHI 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 facilities of this Association's experiment station 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.

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

### Campus and Buildings

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

Hawaii Hall is the administration building. The biological sciences are housed chiefly in Dean Hall. The physical sciences are centered in Gartley Hall. Farrington Hall, an auditorium with a backstage extension, is well equipped for work in dramatics. The engineering laboratories and classrooms are in the four buildings composing the Engineering Quadrangle. On 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 156,678 volumes and 361,866 parts and 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 make the University of Hawaii an excellent place to study international relations with emphasis in the Pacific area. 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 bookstore and a cafeteria are maintained.

Residence accommodations on or near the campus include the Charles H. Atherton House for men and Hale Laulima for women students. 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, under normal conditions, as an integral part

## GENERAL INFORMATION

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of the University's plant resources for physical education and athletics. It is owned and managed by the Honolulu Stadium Corporation.

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

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

### Classification of Students

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

Undergraduate students, comprising about three-fourths of the student body, are designated as *regular* or *unclassified*.

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

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

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

Most of the other graduate students—candidates for neither degrees nor diplomas—are teachers seeking professional improvement by taking graduate courses. Some of them are following a program leading to the Professional Certificate awarded by the Department of Public Instruction.

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

### Admission

Candidates for admission must present satisfactory evidence of ability to do university work.

Those who desire to become regular or unclassified students and who have not previously earned credits in an institution of higher learning must apply to the Office of Admissions. A high school senior who plans to enter the University within a year should

file his application during the final semester of his high school course. In any case, application should be filed at least one month before the opening of the semester in which enrollment is desired. Requests for application forms and questions about admission should be addressed to the Office of Admissions.

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

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

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

Every applicant for admission as a regular student who has not previously earned credits in an institution of higher learning must take college aptitude and English examinations and must submit evidence that he has satisfactorily completed at least fifteen units of work in a four-year high school or at least twelve units of work in a three-year senior high school.

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 forty-five 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.

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### MINIMUM UNIT REQUIREMENTS FOR ADMISSION

FROM A 4-YEAR HIGH SCHOOL	SUBJECT	FROM A 3-YEAR HIGH SCHOOL
3	ENGLISH	3
1	ALGEBRA	1 (Not required if the student had ninth-year general mathematics in intermediate, i.e., junior high, school)
6	ENGLISH (in addition to the 3-unit minimum requirement in English) SCIENCES—Physical, biological, and social MATHEMATICS (in addition to the 1-unit minimum requirement in mathematics) 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.)	4 (If applicant offers ninth-grade mathematics, this requirement is 5 units.)
5	Any other subjects credited by the high school toward its diploma (no less than $\frac{1}{2}$ 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.	4
15	TOTAL	12

Students desiring to study mathematics in the University or to take subjects for which college mathematics is a prerequisite should have had high school algebra through quadratics and plane geometry. This applies particularly to prospective students in Agriculture and premedical work, who must take college mathematics in preparation for physics.

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

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

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

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

*ADMISSION OF UNCLASSIFIED STUDENTS.*—Mature persons, ordinarily at least twenty-one years of age, who present satisfactory evidence of their ability to do college work, may register as unclassified students and take a limited program. Persons less than twenty-one years of age 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 AUDITORS.*—Persons desiring the privilege of attending classes as auditors must have the written consent of the Chairman of the Committee on Admissions and the chairman of the department concerned.

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

## Registration, Withdrawal, and Other Changes

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

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

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

*ARRANGEMENT OF CREDITS IN ADVANCE.*—The number of credits obtainable in most courses is announced in the catalogue and in the time schedule. However,

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certain courses in which students carry on individual work are marked "credit by arrangement." Such statements do not signify that the credits are to be determined at the end of the semester. The student registers for a definite number of credits and may earn no more than that number.

**LATE REGISTRATION.**—The University permits registration 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

## REQUIREMENTS FOR GRADUATION

this time in non-laboratory courses is one hour in the classroom and two hours in preparatory work, but the division of this time is usually left to the instructor in charge.

*Grades* given in undergraduate courses are *A, B, C, D, E, F,* and *I*. The lowest passing grade is *D*. A grade of *E* is a conditional failure and a grade of *I* is incomplete. An *E* or an *I* may be removed, but students 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 Health and Physical Education. They are computed as follows: for each credit received in a course 4 grade points are granted if the grade is *A*, 3 if the grade is *B*, 2 if the grade is *C*, and 1 if the grade is *D*.

Students entering as undergraduates with advanced standing are not given grade points upon work done elsewhere; but on work done in the University of Hawaii such students must gain grade points in the same proportion to credit hours required for graduation as that demanded of other students.

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

**TRANSFERS TO OTHER INSTITUTIONS.**—Accredited American institutions of higher learning, including the University of Hawaii, give transfer students credit toward graduation only in subjects in which the grade received was *C* or better. (See "Tuition and Fees" for further information about transfers.)

### Requirements for Advancement Toward Graduation

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

Further registration is denied to the following classes of students:

(1) those who have failed to pass in any semester (or who, when withdrawing from the University during a semester, are not passing) in 50 per cent of their registered credits;

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(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, in other words, a *C* average. Failure to comply with the grade-point rule may result in refusal to permit further registration.

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

Warnings of low scholarship are given by instructors and deans, usually at the end of the first and second six-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 and Honors.

### Undergraduate Degree Requirements

**CREDIT AND GRADE-POINT REQUIREMENTS.**—The minimum credit requirements for the Baccalaureate (Bachelor) degree are as follows: College of Arts and Sciences, 128; College of Applied Science, 130; Teachers College, 130.

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 thirty grade points in some one semester, or a minimum of fourteen grade points in a six-week summer session, or a minimum of twenty grade points in a nine-week 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 thirty semester hours in residence (that is, in class or laboratory work on the University of Hawaii campus) and who in addition do one of the following :

- (1) take a minimum of fourteen credit hours a semester in the University during the two semesters just preceding the granting of the degree ; or
- (2) earn a minimum total of twenty-four residence credits during any four of five consecutive summer sessions just preceding the granting of the degree ; or
- (3) earn a minimum total of twenty-four residence credits by carrying not less than two credit hours per semester and six credit hours per summer in any three of four consecutive years just preceding the granting of the degree.

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

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

## Medical School Requirements

Premedical students expecting to enter the University of Hawaii may apply for entrance to the College of Arts and Sciences or the College of Applied Science. The programs during the first two years are based upon the requirements of the American Medical Association and are very similar, but differ in the upper years according to degree requirements of the colleges.

Medical schools generally have adopted the entrance requirements of the American Medical Association, although there is considerable variation. Each prospective student of medicine should inform himself of the requirements of the institution to which he expects to go.

### AMERICAN MEDICAL ASSOCIATION ENTRANCE REQUIREMENTS

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

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

	<i>Semester Hours</i>	<i>University of Hawaii Equivalent</i>
Chemistry . . . . .	15	Chemistry 103, 149 (4 credits), 230 (4 credits)
Physics . . . . .	8	Physics 102
Biology . . . . .	10	Zoology 100, 151, 160
English Composition . . . . .	6	English 100 or 102
French, German, or Spanish . . . . .	6	
Total . . . . .	45	

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

Because of the increased demand for medical service during the emergency, medical schools are accepting students who have completed two years of university work. Accelerated schedules have been adopted and students will be graduated after three years of continuous study. For details of this policy, current catalogues and announcements of medical schools should be consulted.

### Tuition and Fees

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

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

All fees must be paid in full at the time of registration and no registration card will be finally accepted until it is endorsed showing payment.

Laboratory and special course fees are stated in the descriptions of courses. If the instructor feels it is justified, students may be charged for excessive breakage of equipment.

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

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

#### Withdrawal during

first two weeks of instruction . . . . .	100%	fifth week of instruction . . . . .	40%
third week of instruction . . . . .	80%	sixth week of instruction . . . . .	20%
fourth week of instruction . . . . .	60%	remainder of semester . . . . .	0%

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 \$5.00.

A graduate student receiving an advanced degree must pay, before the degree is awarded, a fee of \$4.00 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 \$1.00 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 \$1.00, 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 \$1.00 a year and the A.S.U.H. annual membership fee for undergraduates taking ten or more semester hours. For other students the A.S.U.H. fee is optional. These fees are not collected for the Summer Session. Privileges that these fees purchase are described in the *A.S.U.H. Handbook*, which is available to all students.

### **Military Training**

For the period of the emergency, or until further notice, military training will not be offered. It is assumed that such training will again be available after the war, in accordance with the laws governing federal aid to land-grant colleges. The basic (freshman and sophomore) courses in military science must be taken by every physically fit male student who is an American citizen, who is at least fourteen years old, whose twenty-sixth birthday has not passed at the time of enrollment in the University, who (1) is (or was at the time of entering the University) a Freshman or a Sophomore, or (2) is an unclassified student carrying more than nine credit hours of work and having fewer than sixty-four college credits. Military training in the junior and senior years is optional for selected students who have completed the basic courses, provided the number of such students does not exceed the quota authorized by the War Department.

### **Health, Physical Education, and Sports**

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

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

The University also offers instruction in health and conducts a program of recreation and sports designed to promote the health of students. Freshman and sophomore men and women under twenty-five years of age who are registered for ten or more semester hours of academic work must take at least one credit hour in Health and Physical Education courses each semester (see "Health and Physical Education" under "Courses of Instruction"). All students are required to take Health and Physical Education 105, Personal Hygiene.

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

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

Varsity sports are conducted independently of the activities of the Health and Physical Education Department. They are governed by a Board of Athletic Control, acting in cooperation with the University administration and the Faculty. This Board has seven members, three selected by the Associated Students of the University of Hawaii, two by

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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 program provides non-credit courses on and off the campus, and credit courses off the campus at times and places convenient for the persons thus served. A program of correspondence courses carrying university credit is made available to those who cannot attend classes. Through cooperation with the United States Armed Forces Institute, these correspondence courses are made available to service personnel at half rate.

Visiting lecturers and resident faculty members are scheduled for public appearances on the campus, in Honolulu, and in outlying communities. For a nominal rental charge, educational films, both sound and silent, are lent to schools and organizations. A free Play Loan Library service is maintained 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.

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

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

### Summer Session

The 1944 Summer Session will be nine weeks in length and many of the courses required in the curriculums of the colleges will be offered. Student programs will be limited to a maximum of ten credit hours, except in the case of Freshmen and Sophomores who may carry in addition the required one-credit course in Health and Physical Education. Tuition for the Summer Session is \$50 for a credit load of ten or more semester hours. For fewer than ten hours a charge of \$5.00 per credit is made. No registration fee is charged. The *Summer Session Announcement* may be obtained from the Office of Publications and Publicity.

### Student Life

Student life at the University is necessarily altered by 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. Student projects typical of normal university life will be continued, subject to the necessary limitations of wartime conditions. These projects 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 direct undergraduate extracurricular student activities and to cooperate with the University administration in student affairs. Its members include all regular students who pay A.S.U.H. fees. An elected council directs its activities. The *A.S.U.H. Handbook* describes the organization and functions in detail.

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

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

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

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

### Living Accommodations and Expenses

All possible assistance 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 Office of Student Personnel.

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.

Thirty women students are housed at Hale Laulima, a cooperative women's dormitory. The rent is \$31.50 each semester, payable at the time of registration. Rent for an eight-week Summer Session is \$15.50.

Each young woman shares a double room, assists in cooking and housekeeping, and shares living expenses, including the cost of food. Total current living expenses on this plan approximate \$22 per person per month.

Most residents of Atherton House take their meals at Hemenway Hall, where food is served cafeteria style at 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 payment of tuition costs until after graduation. Students wishing to make use of these funds should consult the college dean or the Dean of Student Personnel with respect to the proper procedure for application and the conditions under which the various loans are granted. Loan funds include the following:

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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  
ter 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 assistance to students in the form of scholarships. Scholarship awards are made by the faculty Scholarship Committee or upon the recommendation of other agencies. In general, scholarships are awarded on the basis of (1) scholastic achievement as demonstrated by previous records, (2) promise of success as judged by recommendations and aptitude test scores, (3) character, and (4) financial need. A scholarship award implies recognition of achievement. Unless otherwise specified all scholarships are awarded annually and may be withdrawn from individuals if a good standard of scholastic work is not maintained.

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

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

**GENERAL SCHOLARSHIPS.**—(1) Open to men and women: (a) *Honolulu Civic Association*, amount varies from year to year; (b) *Mary Dillingham Frear*, not exceeding \$150, awarded to a meritorious student; (2) open only to men: (a) *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; (3) open to women: (a) *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; (b) *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; (c) *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.

**SCHOLARSHIPS IN SPECIFIC FIELDS OF STUDY.**—(1) Open to men and woman: (a) *Hawaiian Sugar Planters' Association*, five scholarships of \$150 each; these are held for four years and are open to students majoring in agriculture; recipients are selected by a committee named by the H.S.P.A.; (b) *Edison B. K. Tan Memorial*, a scholarship of \$50 a semester given by the friends of Edison Tan, '38, to a worthy upper-classman, preferably an economics or business major; (2) open to men: (a) *Alonso Gart-*

ley, 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.

**SCHOLARSHIPS OPEN ONLY TO GRADUATES OF FARRINGTON HIGH SCHOOL.**—Open to men and women: *Wallace Rider Farrington*, established by the *Honolulu Star-Bulletin* in honor of the late Wallace Rider Farrington, its former editor and publisher; awarded annually to a graduate of Farrington High School, selected by the Wallace Rider Farrington Scholarship Committee; recipients given \$150 a year for four years.

**SCHOLARSHIPS WHOSE DONORS LIMIT THEM TO PERSONS OF SPECIFIC RACIAL ANCESTRIES.**—(1) Open to men and women: (a) *Chinese Community*, a fund of about \$3000 given to the University of Hawaii to endow scholarships for Juniors and Seniors of Chinese ancestry; (b) *Chinese Students' Alliance*, a general scholarship fund maintained by the Chinese Students' Alliance; (c) *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 upper-classman; (d) *Korean American Cultural Association*, \$2500 to be used in maintaining an annual scholarship of \$150 for either a Korean or an American of Korean ancestry; the recipient is required to assist the University in collecting and maintaining the Korean collection in the University Library; (e) *Korean National Association of Hawaii*, a scholarship of \$100 awarded annually to one or two students of Korean ancestry above freshman standing; (f) *Korean University Club*, a scholarship of \$50 a semester awarded to a student of Korean ancestry; (2) open to men: (a) *Chinese University Men*, a scholarship of \$50 awarded to a deserving and needy man student of Chinese ancestry above freshman standing; (b) *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; (3) open to women: (a) *Chinese University Women*, a scholarship of \$50 awarded to a deserving and needy woman student of Chinese ancestry above freshman standing; (b) *Chinese Women's Club*, a scholarship of \$50 awarded to a deserving and needy woman of Chinese ancestry above freshman standing; (c) *Yang Chang Hui*, a scholarship of \$50 awarded to a woman student of Chinese ancestry above freshman standing.

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

## 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.

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**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. (These awards have been discontinued until after the war.)

**REAL DEANS AWARDS OF HONOR.**—The Associated Students of the University of Hawaii annually awards medals to student 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. (These awards have been discontinued until after the war.)

**WARRIOR OF THE PACIFIC TROPHY.**—Since 1928 the United States War Department has supervised an annual rifle marksmanship competition among Reserve Officers' Training Corps infantry units in American universities and colleges for the possession of a bronze statuette of a native Hawaiian soldier. Residents of Hawaii offered the trophy for the competition. (These awards have been discontinued until after the war.)

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## COLLEGE OF ARTS AND SCIENCES

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In keeping with the liberal arts tradition, the College of Arts and Sciences aims to give a comprehensive acquaintance with those fields of thought and achievement upon which our present civilization is based, with the objective of developing in its students those ideals, interests, and attitudes characteristic of cultured people, and the ability to think intelligently.

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

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

### Admission

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

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

### Degree Requirements

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

- (1) meet certain basic requirements of the first two years;
- (2) complete a major of 24 semester hours, and a minor of 12 semester hours;
- (3) have at least 50 semester hours of credit in other than introductory courses;
- (4) have an aggregate of at least 128 semester hours of credit; and
- (5) have an aggregate of at least 264 grade points (see "Credits, Grades, Grade Points, Honors").

### Curriculum

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

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

# COLLEGE OF ARTS AND SCIENCES

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## BASIC REQUIREMENTS

*First Year*  
English 100 or 102  
Foreign language  
Health and Physical Education  
100 or 102  
History 100  
Science

*Second Year*  
English 150  
Foreign language  
Government 150\*  
Health and Physical Education  
105, 135 or 136  
History 110\*

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

## MAJORS

Because of war conditions which have greatly reduced the faculty, and consequently the number of courses offered, it is not possible to major in all departments. The following list comprises the major subjects at this time:

Art  
Bacteriology  
Business  
Chemistry  
Chinese  
Economics

French  
German  
History  
Japanese  
Literature  
Mathematics

Physics  
Psychology  
Religion  
Sociology  
Zoology

## MINORS

Minors are permissible in any of the major subjects and in Botany, Composition, Geology, Government, Hawaiian, Music, Philosophy, Spanish, and Speech.

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

## Preprofessional Preparation

### SUGGESTED PRELEGAL PROGRAM

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

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

### SUGGESTED PREMEDICAL PROGRAM

*First Year*  
Chemistry 103  
English 100 or 102  
French 100 or German 100  
Health and Physical Education  
100 or 102  
Mathematics 149, 150; or 150, 151  
Zoology 100, 151  
*Summer Session*  
Chemistry 150  
History 110  
Government 150

*Second Year*  
Chemistry 149  
English 150  
French 101 or German 101 or 102  
Health and Physical Education  
105, 135 or 136  
Physics 102  
Zoology 160, 191  
*Summer Session*  
Chemistry 230  
Economics 150 or 151  
Psychology 150

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\* May be taken in the first year.

## PREPROFESSIONAL PREPARATION

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This program meets medical school requirements as outlined by the American Medical Association (see page 27), and also most of the basic requirements of the College of Arts and Sciences. Completion of the further required work of the College entitles the student to the Bachelor of Arts degree. This arrangement of courses is suggestive rather than arbitrary and it may be altered to meet the preparation or needs of the student.

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

### SUGGESTED PRESOCIAL WORK PROGRAM

Students who plan to enter the School of Social Work (see p. 50) should complete their major and minor requirements in Psychology and Sociology. Whichever is selected as the major, the other should be the minor. In addition, certain undergraduate courses are required and others recommended. Required: Psychology 250, 292, 295, Social Work 200-201, Sociology 255, 267, 269. Recommended: Economics 281, Government 282, Home Economics 250, 253, Religion 250-251, Zoology 191.

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

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## COLLEGE OF APPLIED SCIENCE

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The principal function of the College of Applied Science is to prepare for the professions of agriculture, engineering, home economics, and sugar technology. In addition, however, it offers preprofessional preparation for dentistry, medicine, medical technology, and nursing and a limited program in public health nursing. The four-year programs lead to the Bachelor of Science degree.

### Admission

The requirements for admission to this college are, in general, the same as those for admission to the University as a whole, but some of the curriculums require additional preparation. (See p. 22.) Students who are lacking some of this required special preparation are unable to follow the regular programs and usually need more than four years to complete the degree requirements.

### Degree Requirements

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

- (1) meet certain basic requirements of the first two years;
- (2) complete the required courses of each curriculum;
- (3) have an aggregate of at least 130 semester hours of credit; and
- (4) have an aggregate of at least 264 grade points (see "Credits, Grades, Grade Points, Honors").

### Curriculums

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

<i>First Year</i>	<i>Second Year</i>
Chemistry 103	English 150
English 100 or 102	History 110 (second or third year)
Health and Physical Education 100 or 102	Health and Physical Education 105, 135 or 136

Additional requirements are stated for each curriculum.

### AGRICULTURAL CURRICULUM

The program in Agriculture is designed to give a knowledge of the fundamental principles underlying agriculture as a science and a profession, with a view to effective service in this general field. The program is broadly conceived to give a background not only in the biological and physical sciences, but in the social sciences as well. Provision is made for a wide choice of electives, but at least eighteen credits should be in agricultural subjects.

The major objective is to teach the general laws governing the relationship of growing crops and living animals to soil, climate, and environment.

## GENERAL CURRICULUM

### ADDITIONAL REQUIRED COURSES

<i>First Year</i>	<i>Second Year</i>
Agriculture 100, 151, 152	Agriculture 162 or 164
Botany 100, Zoology 100	Bacteriology 151
Mathematics 149, 150; or 150, 151	Botany 173
	Physics 102
	Zoology 170, 173
<i>Third Year</i>	<i>Fourth Year</i>
Agriculture 162 or 164, 250, 254, 256	Agriculture 299

### ENGINEERING CURRICULUM

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

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 upon the interest of the student and must be so chosen that they make up a well coordinated program.

### ADDITIONAL REQUIRED COURSES

<i>First Year</i>	<i>Second Year</i>
Civil Engineering 101	Economics 150-151
Mathematics 151, 152, 153, 156	Mathematics 154, 155
Mechanical Drawing 101	Physics 102
<i>Third Year</i>	<i>Fourth Year</i>
Civil Engineering 252, 253, 255	Business 161 or Mechanical
History 110	Engineering 285
Mechanical Engineering 202, 203	Civil Engineering 276, 277, 279
Physics 275	Physics 202

### SUGGESTED ELECTIVES

<i>Second Year</i>	<i>Third Year</i>
Anthropology 150-Sociology 151	Chemistry 230, 260
Chemistry 149, 150, 151	Civil Engineering 227
or	Geology 150, 151
Civil Engineering 151, 153	History or Government
Mechanical Drawing 152	Mathematics 252-253 or 254-255
	<i>Fourth Year</i>
	Chemistry 211, 212
	Mechanical Engineering 282

### GENERAL CURRICULUM

The general curriculum provides preprofessional preparation for dentistry, medicine, medical technology, and nursing, or a general preparation in science for those who have not yet decided upon a profession or who lack certain basic requirements for the professional curriculums.

### ADDITIONAL (DEGREE) REQUIREMENTS

- (1) Six or more semester hours in any four of the following groups:
  - Botany 100-Zoology 100
  - Economics 150-151 or Anthropology 150-Sociology 151
  - Geology 150, 151
  - Mathematics (a) 149-150; (b) 150-151; (c) 152-153
  - Physics 102
  - Zoology 100, 151

## COLLEGE OF APPLIED SCIENCE

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(2) Thirty semester hours in a specific field, and not less than twelve semester hours in closely allied fields.

### SUGGESTED PREMEDICAL PROGRAM

#### *First Year*

Chemistry 103  
English 100 or 102  
French 100 or German 100  
Health and Physical Education  
100 or 102  
Mathematics 149, 150; or 150, 151  
Zoology 100, 151

#### *Summer Session*

Chemistry 150  
Economics 150 or 151  
History 110

#### *Second Year*

Chemistry 149  
English 150  
French 101 or German 101 or 102  
Health and Physical Education  
105, 135 or 136  
Physics 102  
Zoology 160, 191

#### *Summer Session*

Chemistry 230  
Psychology 150  
Zoology 261

This program meets medical school requirements as outlined by the American Medical Association (see p. 27), as well as the basic requirements of the College of Applied Science. Completion of the further required work of the College entitles the student to the Bachelor of Science degree. Necessary alterations of this program may be made to suit the preparation or needs of the student.

Pre dental students follow this general program but should elect more work in Organic Chemistry and Qualitative and Quantitative Analysis.

### SUGGESTED MEDICAL TECHNOLOGY PROGRAM

#### *First Year*

Chemistry 103  
English 100 or 102  
Health and Physical Education  
100 or 102  
Zoology 100, 151

#### *Suggested Electives*

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

#### *Third Year*

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

#### *Suggested Electives*

Anthropology 150  
Economics 150-151  
Physics 102  
Sociology 151  
Zoology 160, 261, 265, 285

#### *Second Year*

Bacteriology 151  
Chemistry 149, 150  
English 150  
Health and Physical Education  
105, 135 or 136  
History 110

#### *Suggested Electives*

Anthropology 150  
Foreign language  
Government 150  
Philosophy 150  
Psychology 150  
Sociology 151

#### *Fourth Year*

During the fourth year the student attends certain special classes at the University (Bacteriology 266, Chemistry 266, Zoology 266), and spends the remainder of the time as a student technician in training, working in one of the cooperating laboratories in the city.

### SUGGESTED PRENURSING PROGRAM

Prospective applicants for the Queen's Hospital School for Nurses must spend a year in a university and complete certain prescribed courses before they will be admitted. In most cases this program requires at least two semesters and a summer session at the University of Hawaii. Detailed information is presented in a circular issued by the Queen's Hospital.

Prenursing students may take one or two years to complete the requirements.

## HOME ECONOMICS CURRICULUM

### ONE YEAR PROGRAM

#### *Summer Session*

Bacteriology 156  
Health and Physical Education 102  
Household Science 150  
Sociology 151

#### *First Year*

Bacteriology 151  
Chemistry 103  
English 100  
Health and Physical Education 102, 105  
Household Science 155  
Psychology 150

#### *Suggested Electives*

Anthropology 150  
History 110  
Zoology 100, 151

### TWO YEAR PROGRAM

#### *First Year*

Bacteriology 151, 156  
Chemistry 103  
English 100  
Health and Physical Education 100  
Household Science 150

#### *Suggested Electives*

History 100  
Zoology 100, 151

#### *Second Year*

Anthropology 150  
English 150  
Health and Physical Education 105, 136  
Psychology 150  
Sociology 151

#### *Suggested Electives*

Bacteriology 260  
Chemistry 149  
Government 150  
History 110  
Zoology 100, 151, 191

Graduates of the Hospital School may return to the University of Hawaii and complete the requirements for the Bachelor of Science degree. Such students major in Nursing Administration and Education or Public Health Nursing, and must complete a minimum of thirty semester hours in the University major. Thirty semester hours of credit are allowed for the Hospital work.

## HOME ECONOMICS CURRICULUM

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

Students who expect to teach must complete the four-year program in Vocational Home Economics and the fifth-year work of Teachers College. Art 171, Education 235, 250-251, 253, 255, English 126, 127, 227, 240, Home Economics 251, Household Art 114, and Psychology 150 should be included in the undergraduate program, and Art 172 and 175 and English 130 are suggested as electives.

Those who plan to enter the fields of Institutional Management or Hospital Dietetics should include Art 172 and Household Science 260, 261, 263, 264, 265, 266 in their programs. In order to satisfy the requirements of the American Dietetics Association for hospital dieticians, Chemistry 149 and 260, Home Economics 251, and Household Science 200 and 250 should be elected.

### ADDITIONAL REQUIRED COURSES

#### *First Year*

Art 150-151  
Home Economics 100  
Household Art 110, 111, 150  
Household Science 150

#### *Second Year*

Bacteriology 156  
Economics 150-151  
Home Economics 101  
Household Art 114\*  
Household Science 102

\* Not required for Institutional Management or Hospital Dietetics.

## COLLEGE OF APPLIED SCIENCE

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### *Suggested Electives*

Art 154-155, 171, 172  
Chemistry 149, 150  
Philosophy 150  
Psychology 150

### *Third Year*

Anthropology 150  
History 110  
Home Economics 201, 250, 252, 253  
Household Science 200 or 272  
Zoology 191

### *Fourth Year*

Home Economics 262, 291  
Household Science 273

### *Suggested Electives*

Art 171, 172, 175  
Chemistry 260  
Education 250, 253, 255  
English 130, 134  
Government 150  
Home Economics 251  
Household Science 260

## 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 limited strictly to registered nurses. Successful completion of this program entitles the student to a Certificate in Public Health Nursing.

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

Detailed information about the program is contained in a pamphlet available upon request. (See "Public Health Nursing" under "Courses of Instruction.")

## SUGAR TECHNOLOGY

The work in Sugar Technology, as described in previous catalogues, will not be given in 1944-45. Students interested in the agricultural part of sugar production should register in the Agricultural Curriculum, while those interested in the chemical, factory or engineering aspects should register in the Engineering Curriculum.

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## TEACHERS COLLEGE

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The function of Teachers College is to prepare teachers for the public schools of Hawaii and to afford those already in service an opportunity to improve themselves professionally. Standard preparation for teaching positions in the public schools of the Territory requires four years of undergraduate work and a postgraduate year. The four-year program leads to the Bachelor of Education degree, and the year of postgraduate work to the five-year diploma. Admission to the fifth year requires professional preparation equivalent to that represented by the Bachelor of Education degree, or the Bachelor of Science degree in Vocational Education. (See "Vocational Education.")

### Admission

In addition to the general University admission requirements, students admitted to Teachers College must meet certain standards of health, personality, and oral English. The number is restricted in order that those who complete the program may be reasonably certain of employment.

### Degree Requirements

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

- (1) have an aggregate of at least 130 semester hours of credit;
- (2) have an aggregate of at least 264 grade points (see "Credits, Grades, Grade Points, Honors");
- (3) complete one of the four curriculums; and
- (4) meet the following specific requirements:

<i>Subject</i>	<i>Semester Hours</i>
Participation and practice teaching.....	12
Other Education courses.....	14
Psychology .....	9
Philosophy .....	3
English .....	25
Social Science .....	22
Natural Science .....	11
Health and Physical Education.....	8
Art and Music (Except in Dental Hygiene and Secondary Curriculums) .....	6
Agriculture (Except in Dental Hygiene and Secondary Curriculums)	2

### Curriculums

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

During the third year special attention is given to the professional information and background necessary for public school service.

The fourth year program consists largely of professional education. One semester is devoted to practice teaching and allied educational courses; the offsetting semester provides opportunity for other needed professional course experiences. While one group of

# TEACHERS COLLEGE

students carries the practice teaching work, the other carries the courses of the offsetting semester. A modification in this procedure is made for students specializing in dental hygiene. In that curriculum the clinical practice, corresponding to practice teaching and representing about one-third of the senior load, is spread over the full year.

## BASIC REQUIREMENTS FOR ALL STUDENTS\*

### First Semester

### Second Semester

#### FIRST YEAR

Anthropology 150 .....	3	English 100 or 102 .....	3
Botany 100 .....	4	English 126 .....	1
English 100 or 102 .....	3	Health and Physical Education	
English 126 .....	1	100 or 102 .....	1
Health and Physical Education		History 100 .....	3
100 or 102 .....	1	Sociology 151 .....	3
History 100 .....	3	Zoology 100 .....	4
Electives .....	2	Electives .....	2
<b>Total.....</b>	<b>17</b>	<b>Total.....</b>	<b>17</b>

#### SECOND YEAR

English 127 .....	1	English 127 .....	1
English 152 .....	3	English 152 .....	3
Health and Physical Education		Government 150 .....	3
135 or 136 .....	1	Health and Physical	
History 110 .....	3	Education 105 .....	1
Psychology 150 .....	3	Music 152 .....	3
Survey 100 .....	3	Psychology 185 .....	3
Electives .....	3	Electives .....	3
<b>Total.....</b>	<b>17</b>	<b>Total.....</b>	<b>17</b>

## PRESCHOOL-PRIMARY CURRICULUM

#### THIRD YEAR

Art 261 .....	2	Education 236 .....	2
Education 236 .....	2	Education 284 .....	3
Education 283 .....	3	English 227 .....	1
English 227 .....	1	English 253 .....	3
English 253 .....	3	Health and Physical	
Health and Physical		Education 223 .....	2
Education 220 .....	2	Household Science 275 .....	3
Household Science 272 .....	3	Music 250 .....	2
Electives .....	2		
<b>Total.....</b>	<b>18</b>	<b>Total.....</b>	<b>16</b>

\* Except for Dental Hygiene Curriculum. See p. 46.

# CURRICULUMS

## First Semester

Agriculture 271 .....	2
Education 261 .....	2
English 240 .....	1
English 256 .....	2
Philosophy 150 .....	3
Psychology 292 .....	3
Electives .....	4

Total..... 17

## Second Semester

### FOURTH YEAR

Education 254 .....	10
Education 255 .....	3
Education 258 .....	3

Total..... 16

### ELEMENTARY CURRICULUM

#### THIRD YEAR

Education 235 .....	1
Education 285 .....	3
English 227 .....	1
English 253 .....	3
Health and Physical Education 221 .....	2
Music 251 .....	2
Sociology 250 .....	2
Electives .....	3

Total..... 17

Art 262 .....	2
Education 235 .....	1
Education 286 .....	3
English 227 .....	1
English 253 .....	3
Health and Physical Education 223 .....	2
Sociology 251 .....	2
Electives .....	3

Total..... 17

#### FOURTH YEAR

Agriculture 271 .....	2
Education 261 .....	2
English 240 .....	1
English 255 .....	2
Philosophy 150 .....	3
Psychology 292 .....	3
Electives .....	4

Total..... 17

Education 254 .....	10
Education 255 .....	3
Education 258 .....	3

Total..... 16

### SECONDARY CURRICULUM

#### THIRD YEAR

Education 235 .....	1
Education 250 .....	3
English 227 .....	1
English 254 .....	3
Sociology 250 .....	2
Electives* .....	7

Total..... 17

Education 235 .....	1
Education 251 .....	3
English 227 .....	1
English 254 .....	3
Health and Physical Education 223 .....	2
Sociology 251 .....	2
Electives* .....	5

Total..... 17

\* As advised to meet teaching field requirements, two fields of 24 credits each required.

# TEACHERS COLLEGE

## First Semester

## Second Semester

### FOURTH YEAR

Education 261 .....	2	Education 254 .....	10
English 240 .....	1	Education 255 .....	3
Philosophy 150 .....	3	Education 258 .....	3
Psychology 292 .....	3		
Electives* .....	8		
<b>Total.....</b>	<b>17</b>	<b>Total.....</b>	<b>16</b>

### DENTAL HYGIENE CURRICULUM

#### FIRST YEAR

Chemistry 103 .....	4	Chemistry 103 .....	4
English 100 or 102 .....	3	English 100 or 102 .....	3
English 126 .....	1	English 126 .....	1
Health and Physical		Health and Physical	
Education 102 .....	1	Education 102 .....	1
History 100 .....	3	History 100 .....	3
Household Science 150 .....	3	Home Economics 101 .....	3
Electives .....	2	Electives .....	2
<b>Total.....</b>	<b>17</b>	<b>Total.....</b>	<b>17</b>

#### SECOND YEAR

Botany 100 .....	4	English 127 .....	1
English 127 .....	1	English 150 or 152 .....	3
English 150 or 152 .....	3	Government 150 .....	3
Health and Physical		Health and Physical	
Education 136 .....	1	Education 105 .....	1
History 110 .....	3	Psychology 185 .....	3
Psychology 150 .....	3	Zoology 100 .....	4
Electives .....	2	Electives .....	2
<b>Total.....</b>	<b>17</b>	<b>Total.....</b>	<b>17</b>

#### THIRD YEAR

Dental Hygiene 200 .....	1	Dental Hygiene 200 .....	1
Dental Hygiene 235 .....	2	Dental Hygiene 235 .....	2
Education 235 .....	1	Dental Hygiene 251 .....	3
Education 285 .....	3	Dental Hygiene 252 .....	1
English 227 .....	1	Education 235 .....	1
Health and Physical		Education 286 .....	3
Education 223 .....	2	English 130 .....	3
Household Science 272 .....	3	English 227 .....	1
Zoology 265 .....	3	Household Science 273 .....	4
Electives .....	2		
<b>Total.....</b>	<b>18</b>	<b>Total.....</b>	<b>19</b>

\* As advised to meet teaching field requirements, two fields of 24 credits each required.

## LABORATORY SCHOOLS

*First Semester*

*Second Semester*

### FOURTH YEAR

Bacteriology 151 .....	4	Bacteriology 156 .....	2
Dental Hygiene 254 .....	5	Dental Hygiene 254 .....	5
Dental Hygiene 260 .....	1	Dental Hygiene 256 .....	2
Dental Hygiene 262 .....	2	Dental Hygiene 258 .....	1
Dental Hygiene 264 .....	2	Dental Hygiene 290 .....	1
English 240 .....	1	Zoology 191 .....	3
Electives .....	2	Electives .....	3
Total.....	17	Total.....	17

### Requirements for the Five-Year Diploma

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

COURSES	<i>Credit Hours Required in</i>	
	<i>First</i>	<i>Second</i>
	<i>Semester</i>	<i>Semester</i>
Education 340 .....	4	....
Education 350 .....	4	....
Education 354 .....	....	14
Education 390 .....	2	....
Education 395 .....	....	2
Psychology 351 .....	2	....
Electives* .....	4	....
Totals.....	16	16

### Laboratory Schools

Practical experience in teaching situations is given in Teachers College laboratory schools. These schools provide practice teaching facilities for prospective teachers and serve as experimental laboratories in educational practice. In order to insure a rich experience for the children enrolled and to set a high standard of achievement for the student teachers, conditions are made as nearly ideal as possible, with small classes, selected children, excellent quarters and equipment, and a strong supervisory staff assisted by specialists in art, health, library science, physical education, and music.

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

\* Dental Hygienists take Bacteriology 260.

### **Vocational Education**

Prospective Vocational Agriculture and Home Economics teachers obtain their undergraduate preparation in the College of Applied Science (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. 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."

### **Master of Education Degree**

In order to qualify for admission to candidacy for the Master of Education degree the candidate must have:

- (1) the Bachelor of Education degree or its equivalent;
- (2) credit for Education 340, 350, 390, and Psychology 351 (or equivalents);
- (3) credit for Education 380 (Research and Thesis Writing) and the approval by a qualifying committee of a research project developed in this course;
- (4) passed a written examination in the major field of study; and
- (5) satisfied a qualifying committee in the selection of a thesis project.

The general requirements for graduate study are stated under "Graduate Division."

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## GRADUATE DIVISION

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Graduate study in the University is under the supervision of a Committee on Graduate Study, which serves to coordinate advanced work in the various colleges. The chairman of this Committee should be consulted concerning programs of study. This regulation applies to all students with bachelor degrees from accredited institutions of higher learning, including candidates for advanced degrees, candidates for advanced teaching certificates, candidates for the Certificate in Social 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. However, some departments are adequately staffed to offer graduate work, 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-week summer sessions.

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

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

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

No credit is granted in thesis research courses (number 400 in each field) until the thesis has been accepted. Failure to make satisfactory progress on a thesis is not a basis for 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. Additional requirements are stipulated for the Master of Education degree. (See page 48.)

## GRADUATE DIVISION

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

### The School of Social Work

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

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

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

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

*FIELD WORK.*—Two semesters of field work are required of regularly enrolled students, and it is expected that they will take the field work course concurrently with the course in the theory of case work. Field work consists of 225 clock hours a semester of supervised case work in an approved social agency.

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## THE HAWAII AGRICULTURAL EXPERIMENT STATION

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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. This transition was completed in 1938. The history of the federal station is an inseparable part of the history of the Hawaii Agricultural Experiment Station, and the latter may also be said to share in the history and accomplishments of all the state land-grant colleges and experiment stations.

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

The function of the Experiment Station is "to promote scientific investigation and experiments respecting the principles and applications of agricultural science" (Hatch Act of 1887). Because the two major agricultural industries of the Territory of Hawaii—sugar and pineapple—support their own experiment stations, little attention is given to these crops. Emphasis is placed upon animal husbandry, poultry production, agronomy, and horticulture—fields which are considered extremely important in themselves. Investigations cover the physiology of plants and animals; diseases, insects, and parasites; soils and soil chemistry; human and animal nutrition; breeding and genetics; as well as other research in culture or production. Scientific facts discovered have broad application since both individual farmers and the large plantations may receive 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 lent to the armed forces, and technicians have been trained in their use. 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 equipment 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.

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## COOPERATIVE EXTENSION SERVICE IN AGRICULTURE AND HOME ECONOMICS

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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, thirty-eight 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 farm visits and personal conferences on farm and home problems.

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

Bulletins and circulars containing varied, timely information pertaining to farming and rural home life are issued from time to time by the thirteen 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 nation-wide 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.

The Extension Service has for many years collected and published crop and market statistics. Since the outbreak of the war, Extension workers have aided both the territorial and federal governments by interpreting government orders to rural people, advising selective service boards regarding draft classification of agricultural workers, and helping to allot equitably certain scarce materials needed by farmers.

Funds for the maintenance of the Agricultural Extension Service are derived jointly from federal and territorial legislative appropriations.

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## ANNOUNCEMENT OF COURSES FOR 1944-45

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

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

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

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### Agriculture

**100 Orientation Course.** Lectures to acquaint the student with the fields of agriculture in Hawaii and to help him select a major field of study.

*First semester; no credit.*

Mr. Wadsworth

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

*Second semester; 3 credits.*

Mr. Henke

**152 Poultry Husbandry.** Elementary anatomy of digestive and reproductive systems, genetics of egg production, and principles of poultry husbandry. Two lectures and one laboratory period a week. Laboratory fee \$1.00.

*First semester; 3 credits.*

Mr. Draper

**162 Tropical Pomology.** Origin, description, and cultural requirements of the principal fruit and nut crops of Hawaii. Two lectures and one laboratory period a week. Prerequisites: Chemistry 103, Botany 100, and Zoology 100. Laboratory fee \$1.00.

*First semester; 3 credits.*

Mr. Storey

**164 Truck Crop Production.** Origin, description, and cultural requirements of the more important vegetable crops in Hawaii. Two lectures and one laboratory period a week. Prerequisites: Chemistry 103, Botany 100, and Zoology 100.

*First semester; 3 credits. (Alternate years; not offered 1944-45.)*

Mr. Frazier

**250 Soils.** Origin and physical properties of local soils. Texture, structure, and moisture relations. Three lectures and one laboratory period a week. Prerequisites: Chemistry 103 and Physics 102. Laboratory fee \$2.00.

*First semester; 4 credits.*

Mr. Wadsworth

**253 Dairying.** The breeding, feeding, and management of dairy animals; care and sale of dairy products, with emphasis upon the handling of milk to insure good quality. Two lectures and one laboratory period a week. Laboratory fee \$1.00.

*Second semester; 3 credits.*

Mr. Willett

**254 Principles of Genetics.** Fundamentals of genetics, including principles of Mendelian and Neo-Mendelian inheritance, physical basis of heredity, variation, and an introduction to biometric methods. Two lectures and one laboratory period a week. Prerequisites: Botany 100 and Zoology 100.

*First semester; 3 credits.*

Mr. Storey

## ANNOUNCEMENT OF COURSES

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**256 Principles of Agronomy.** Field crops; their distribution, character, culture, utilization, and improvement. Two lectures and one laboratory period a week. Prerequisites: Chemistry 103, Botany 100, and Zoology 100. Laboratory fee \$1.00.  
*Second semester; 3 credits.* Mr. Van Horn

**257 Feeds and Feeding.** Principles of feeding and their application to farm and plantation animals.

*First semester; 3 credits. (Alternate years; not offered 1944-45.)* Mr. Henke

**259 Poultry Husbandry.** Special problems in poultry husbandry research; individual work. May be continued in second semester by consent of instructor.

*First semester; credit by arrangement. (Alternate years; not offered 1944-45.)* Mr. Draper

**261 Beef and Swine Production.** The breeds, care, management, and feeding of beef cattle and swine, with particular reference to Hawaiian conditions. Two lectures and one laboratory or study period a week. Laboratory fee \$1.00.

*Second semester; 3 credits. (Alternate years; not offered 1944-45.)* Mr. Willett

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

*First semester; 2 credits; repeated second semester.* Mr. Armstrong

**291 Irrigation Practice.** Irrigation in its relation to crop production; development, distribution, and measurement of water; soil moisture and its effect on plant growth. Three lectures and one laboratory period a week. Prerequisite: junior standing. Laboratory fee \$1.00.

*Second semester; 4 credits.* Mr. Wadsworth

**295 Comparative Agriculture.** The crops, cultural practices, and agricultural institutions of the principal agricultural countries of the world.

*Second semester; 2 credits.* Mr. Wadsworth

**298 Seminar in Animal Nutrition.** Recent investigations in animal nutrition; oral reports by students on special topics after a review of literature. Prerequisites: Agriculture 257, sufficient training in chemistry, and consent of instructor.

*Second semester; 1 credit.* Mr. Henke

**299 Agriculture Thesis.** Advanced individual work in field, laboratory, and library.  
*Credit by arrangement.* Staff

**300 Directed Research.** Directed research in (a) genetics—Mr. Storey, (b) soil physics—Mr. Wadsworth, (c) tropical horticulture—Mr. Beaumont.

*First semester; credit by arrangement; repeated second semester.* Staff

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### Anthropology

**150 Introduction to the Study of Man and Society.** The development of man; race and race relations; the growth of culture; communication.

*Second semester; 3 credits.* Mr. Hörmann

**270 Folk Society in Japan and China.** Peasant life in Japan and China. Village organization, festival and seasonal calendar. Family systems. Parallels and relationships of folk society in the two countries.

*First semester; 3 credits.* Mr. Rademaker

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### Art

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

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

**150-151 Beginning Design.** Elements of design and composition; line, mass, color, etc.; exercises in various design styles to stimulate appreciation and to provide background for advanced work. This course, or the equivalent in experience, is prerequisite to all advanced study.

*Year course; 2 credits each semester.*

Mr. Luquiens, Mrs. Fisher

**154-155 Freehand Drawing and Beginning Painting.** First semester: freehand perspective. Second semester: three-dimensional form in charcoal and water color.

*Year course; 2 credits each semester.*

Mr. Luquiens

**171 Art in the Home.** Primarily an appreciation course; the application of design to the everyday arrangements and furnishings of the household. Lectures and some drawing. Prerequisite: Art 150-151.

*First semester; 2 credits.*

Mrs. Fisher

**172 Interior Decoration.** Design, arrangement, and color of furniture, hangings, etc., in relation to wall and floor space. Shop and museum excursions. Prerequisite: Art 150-151.

*Second semester; 2 credits. (Alternate years; not offered 1944-45.)*

Mrs. Fisher

**175 Textile Decoration.** Advanced problems in tie dye, batik, block printing, etc. Prerequisite: Art 150-151.

*Second semester; 2 credits.*

Mrs. Fisher

**180-181 Painting.** Study of form, color, and design in oils or water color. Prerequisites: Art 150-151 and 154-155, or consent of instructor. Studio fee \$3.00 second semester.

*Year course; 2 credits each semester.*

Mr. Luquiens

**261 Creative Art for the Preschool and Primary Years.** Designed to provide a working knowledge of tools, materials, and processes in the work of the primary years. Limited to 30 students. Laboratory fee \$1.00.

*First semester; 2 credits.*

Mrs. Spurkel

**262 Creative Art for the Upper Elementary Years.** Designed to provide a working knowledge of tools, materials, and processes in the work of the upper elementary years. Limited to 30 students. Laboratory fee \$1.00.

*Second semester; 2 credits.*

Mrs. Spurkel

**263 Creative Art for the Secondary School Years.** Similar to Art 262 but with emphasis upon the work of the secondary school years. Limited to 30 students. Laboratory fee \$1.00.

*First semester; 2 credits; repeated second semester.*

Mrs. Spurkel

**280-281 Painting.** Continuation of Art 180-181. Studio fee \$3.00 second semester.

*Year course; 2 credits each semester.*

Mr. Luquiens

**286-287 Modern Painting and Design.** Criticism and guidance in work of the advanced student's own choosing, subject to the instructor's advice. Prerequisite: consent of instructor.

*Credit by arrangement.*

Staff

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### Bacteriology

**151 General Bacteriology.** The physiology, culture, and differentiation of bacteria. Emphasis upon medical aspects. Recommended for students who are preparing for nursing, medicine, and technical laboratory work. Two lectures and two laboratory periods a week. Prerequisite: Botany 100 or Zoology 100. Laboratory fee \$5.00.

*First semester; 4 credits; repeated second semester.*

Mr. Allen, Mrs. Bushnell

**156 Public Health Bacteriology.** Basic principles of bacteriology in relation to dairying, water sanitation, sewage disposal, disinfection, communicable diseases, and immunity.

*First semester; 2 credits; repeated second semester.*

Mr. Allen

## ANNOUNCEMENT OF COURSES

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**260 Medical Bacteriology.** The role of microorganisms in the communicable diseases of man and animals with emphasis upon modes of transmission, prophylactic, therapeutic, and epidemiological aspects. Recommended for students who are preparing for nursing, medicine, and public health work. Prerequisite: Bacteriology 151 or its equivalent. *First semester; 3 credits.* Mr. Allen

**262 Laboratory in Medical Bacteriology.** A detailed study of the important bacteriological techniques concerned in the diagnosis of communicable diseases. Recommended for those students planning for technical laboratory positions. Two laboratory periods a week. Prerequisite: credit or concurrent registration in Bacteriology 260. Laboratory fee \$5.00. *First semester; 2 credits.* Mrs. Bushnell

**264 Immunology.** 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 \$5.00. *Second semester; 3 credits.* Mrs. Bushnell

**266 Clinical Bacteriology.** A practical course designed to integrate medical bacteriology and immunology in terms of hospital and public health laboratory procedures. Two laboratory periods a week. Prerequisite: Bacteriology 264. Laboratory fee \$5.00. *First semester; 3 credits.* Mr. Allen, Mrs. Bushnell

**299 Bacteriological Problems.** Pursuit of any advanced bacteriological problem; reading and laboratory work. May be taken repeatedly. Prerequisites: junior or senior standing and consent of instructor. Laboratory fee \$1.00. *First semester; credit by arrangement; repeated second semester.* Mr. Allen

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### Botany

**100 General Botany.** Survey of the plant kingdom, with emphasis upon structure in relation to function, function in relation to habitat, habitat and heredity in relation to evolution, attributes of plant life in relation to man. This course and Zoology 100 comprise an introduction to the biological sciences. Two lectures and two laboratory periods a week. Laboratory fee \$3.00 a semester. *First semester; 4 credits; repeated second semester.* Mr. Engard, Mrs. Abbott

**173 Elementary Plant Physiology.** Introduction to plant physiology; osmosis, absorption of water, transpiration, mineral utilization, photosynthesis, storage, digestion, respiration, growth, photoperiodism. Three lectures and one laboratory period a week. Prerequisites: Chemistry 103, Botany 100, and Zoology 100, or the equivalent. Laboratory fee \$3.00. *Second semester; 4 credits.* Mr. Engard

**269 Plant Anatomy.** Structure of vascular plants; origin and differentiation of tissues; relation of structure to function. One lecture and two laboratory periods a week. Prerequisites: Botany 100 and Zoology 100. Desirable preparation: Botany 268 or Zoology 262. Laboratory fee \$4.00. *First semester; 3 credits.* Mr. Engard

**299 Botanical Problems.** Pursuit of any advanced botanical problem; reading and laboratory work. May be taken repeatedly. Prerequisite: consent of instructor. Laboratory fee \$1.00. *First semester; credit by arrangement; repeated second semester.* Mr. Engard

**300 Directed Research.** Prerequisites: graduate standing and consent of instructor. Laboratory fee \$1.00 each semester. *Credit by arrangement.* Staff

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### Business

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

**160-161 Elementary Business Law.** First semester: law as an agency of social control; nature, sources, and growth of the law; fundamental legal conceptions; law of contracts. Second semester: law of private property, sales, negotiable instruments, security devices, fair trade, and labor. Prerequisite: sophomore standing.

*Year course; 3 credits each semester.*

Mr. Hoerber

**250-251 Intermediate Accounting.** The balance sheet: form, content, and such related problems as depreciation and valuation of assets; mergers and the construction of consolidated statements. Prerequisites: C or better in Business 150-151 and one of the following: (1) Economics 150-151, (2) consent of the instructor or Department chairman.

*Year course; 3 credits each semester.*

Mr. Graham

**254 Cost Accounting.** Elementary discussion of such aspects of cost accounting as sources of costs, cost units, cost gathering, and use of cost data. Prerequisites: credit or concurrent registration in Business 250-251 and one of the following: (1) Economics 150-151, (2) consent of the instructor or Department chairman.

*First semester; 3 credits.*

Mr. Graham

**255 Analysis of Financial Statements.** Analysis of the balance sheet and profit and loss account from the standpoint of the data to be derived from them bearing on the financial standing of business units as investment and credit possibilities. Prerequisites: (1) credit or concurrent registration in Business 150-151, and (2) Economics 150-151 or consent of instructor.

*First semester; 3 credits. (Alternate years; not offered 1944-45.)*

Mr. Graham

**256 Income Tax Problems.** Elementary study of the federal and territorial income tax laws and related accounting problems; individual, fiduciary, partnership, and corporation returns are prepared. Prerequisites: Business 150-151 and Economics 150-151.

*Second semester; 3 credits.*

Mr. Graham

**264 Principles of Business.** Choosing goods to handle, time to enter, location, size, and legal form of organization; selecting, handling, and promoting executives; choosing selling policies; promoting good public relations. Prerequisite: Economics 150-151 or consent of the instructor.

*First semester; 3 credits.*

Mr. Cameron

**265 Corporation Finance.** Determination of capital requirements; sources and devices used to procure capital; marketing securities; control of capital disbursements; credit and income. Prerequisites: Economics 150-151 and Business 150-151, or consent of instructor.

*Second semester; 3 credits. (Alternate years; not offered 1944-45.)*

Mr. Wagner

**266 Investments and Investment Banking.** Economic theory and tests of investment; personnel of investors; investment credit-analysis; mathematics of investment; tools of investment; types of investment institution and their functioning. Prerequisites: Economics 150-151 and Business 150-151, or consent of instructor.

*First semester; 3 credits. (Alternate years; not offered 1944-45.)*

Mr. Wagner

**270-271 Principles of Marketing.** A study of consumption followed by a general survey of the marketing structure, emphasizing marketing functions and channels, market analysis and research, and marketing policies. Prerequisites: (1) Economics 150-151 and (2) Business 150-151, or consent of the instructor.

*Year course; 3 credits each semester.*

Mr. Hoerber

**273 Economics of Advertising.** History and present importance; methods and media; agencies and campaigns; costs and their measurement; evaluation from the social and economic points of view. Prerequisite: Economics 150-151 or consent of the instructor.

*Second semester; 3 credits.*

Mr. Hoerber

**276 Economics of Retail Merchandising.** Buying habits of retail customers; history of retailing; store organization and management; sales promotion. Prerequisite: Economics 150-151 or consent of the instructor.

*First semester; 3 credits.*

Mr. Hoerber

## ANNOUNCEMENT OF COURSES

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**280 Elements of Selling.** Types of salesmanship; buying motives; personal sales methods; sales management—product, market, marketing methods, sales force, sales promotion, and adjustment of product to market. Prerequisites: Economics 150-151 and credit or concurrent registration in Business 270-271, or consent of instructor.

*First semester; 3 credits. (Alternate years; not offered 1944-45.)* Mr. Hoerber

**282 Business Statistics.** The study of statistical techniques and their applications to business forecasting, budgeting, marketing analysis, and other business problems.

*Second semester; 3 credits. (Alternate years; not offered 1944-45.)* Mr. Hoerber

**299 Directed Reading.** Prerequisite: consent of instructor.

*Credit by arrangement.* Staff

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### Chemistry

**103 General Chemistry.** A comprehensive survey of chemistry with emphasis upon fundamental laws, principles, and methods. Laboratory fee \$7.00 each semester.

*Year course; 4 credits each semester.* Mrs. Bilger, Mr. Fujimoto, Mr. Brasted, Mr. Postl

**149 Organic Chemistry.** A survey of the chemistry of carbon compounds, their classification, and structure; training in the special techniques of organic laboratory methods. Prerequisite: Chemistry 103. Laboratory fee \$9.00 each semester.

*Year course; 4 credits each semester.* Mr. Bilger, Mrs. Bilger

**150 Qualitative Analysis.** Systematic qualitative analysis covering detection of common basic and acidic ions by macro and semi-micro methods; theory of analytical procedures. Two lectures and two laboratory periods a week. Prerequisite: Chemistry 103. Laboratory fee \$8.00.

*First semester; 4 credits.* Mr. Postl

**171 Colloidal Chemistry.** A study of the colloidal state of matter with applications to industry, agriculture, medicine, and foods. Two lectures and two laboratory periods a week. Prerequisite: Chemistry 150. Laboratory fee \$8.00.

*Second semester; 4 credits.* Mr. Bilger

**203 Chemistry Applied to Problems of War and Defense.** Chemical weapons, war gases, smokes and incendiaries, poisons, water, foods, sanitation. Prerequisite: one semester of Chemistry 149.

*Second semester; 2 credits.* Mrs. Bilger

**220 Biochemistry.** A study of the chemistry of biological systems, animal and plant, with emphasis upon the chemistry of foods, their digestion and metabolism; laboratory techniques of handling and analysing biological materials. Designed for students majoring in Biology, Home Economics, Agriculture, or Chemistry. Prerequisite: one semester of Chemistry 149. Laboratory fee \$6.00.

*First semester; 4 credits.* Mr. Bilger

**230 Quantitative Analysis.** Principles of gravimetric and volumetric analysis, colorimetric and electrometric pH determinations. Two lectures and two laboratory periods a week. Prerequisites: Chemistry 103 and 150. Laboratory fee \$8.00 each semester.

*Year course; 4 credits each semester. (First semester only may be taken to meet premedical requirements.)* Mr. Fujimoto, Mr. Brasted

**236 Agricultural Chemistry.** A quantitative analytical course in the chemistry of the products and materials of Hawaiian agriculture including sugar cane, pineapples, soils, fertilizers, stock feeds, insecticides, and poultry, dairy, and vegetable products. The course is designed so that major emphasis may be laid upon special subjects, such as soils. Prerequisites: Chemistry 149 and one semester of Chemistry 230. Laboratory fee \$8.00.

*Second semester; 5 credits.*

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

*First semester; 4 credits.*

Mrs. Bilger

**250 Organic Analysis.** The technique of qualitative and quantitative organic analysis, including macro, semi-micro, and micro methods. Two lectures and two laboratory periods a week. Prerequisites: Chemistry 149 and 230. Laboratory fee \$9.00.  
*Second semester; 4 credits.* Mrs. Bilger

**255 Physical Chemistry.** An advanced course in theories and principles of chemistry; physico-chemical laboratory methods and practice in the use of physical instruments including the colorimeter, turbidimeter, viscosimeter, spectroscope, polariscope, refractometer, fluorophotometer, dilatometer, polarograph, and potentiometer. Prerequisites: Chemistry 149 and 230. Laboratory fee \$6.00 each semester.  
*Year course; 4 credits each semester.* Mr. Bilger, Mr. Postl

**266 Clinical Chemistry.** Theory and laboratory technique in the chemical analysis of urine, blood, gastric juices, feces, and sputum; toxicological analysis. Two laboratory periods a week. Prerequisites: Chemistry 220 and one semester of Chemistry 230. Laboratory fee \$6.00 each semester.  
*First semester; 2 credits.*

**290 Independent Study.** Independent reading and laboratory work on a specific problem in chemistry. Prerequisites: Chemistry 149, 171, 230; credit or concurrent registration in Chemistry 255; approval by the chairman of the Department.  
*Year course; 2 or 3 credits each semester.* Mr. Bilger, Mrs. Bilger

**300 Directed Research.** Research in pure and applied chemistry. Prerequisites: completion of an undergraduate major in chemistry; approval by chairman of the Department.  
*Year course; credit by arrangement.* Mr. Bilger, Mrs. Bilger

**355 Theoretical Organic Chemistry.** Modern theories of the character of the chemical link and the nature of chemical change; new physical methods of investigation in chemistry, resonance, and the Pauling system. Prerequisites: Chemistry 249 and credit or concurrent registration in Chemistry 255.  
*Second semester; 2 credits.* Mrs. Bilger

**400 Research and Thesis.** Designed for students admitted to candidacy for the master's degree. Prerequisites: completion of an undergraduate major in Chemistry and approval by chairman of the Department.  
*Credit by arrangement.* Mr. Bilger, Mrs. Bilger

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### Chinese

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

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

**200 Third-Year Chinese.** Reading of short stories, novels, and modern plays; letter writing, composition, and translation.  
*Year course; 3 credits each semester.*

**293-294 Methods and Bibliography in Chinese Studies.** Study of the main fields of Chinese research, the special methods evolved, and the principal sources of bibliographical information. Prerequisite: junior standing.  
*Year course; 3 credits each semester.* Mr. Taam

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### Dental Hygiene

**200 Tooth Morphology.** Designed to provide the student with an opportunity to carve a full complement of models; anterior and posterior teeth showing general form, cusps, planes, and angles.  
*Year course; 1 credit each semester.* Mrs. Bickerton

## ANNOUNCEMENT OF COURSES

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**235 Dental Operative Technique.** Instruction and practice work on manikin heads in the technique of instrumentation and polishing. Training in the proper manipulation of instruments for the removal of accretions, deposits, and stains, and the use of all instruments in the field of dental hygiene.

*Year course; 2 credits each semester.*

Mrs. Bickerton

**251 Dental Anatomy.** A study of the anatomical and chemical structure of the teeth, anatomy of bones forming the oral cavity, soft palate, throat, muscles of mastication, lip, tongue, floor, and other boundaries of the oral cavity.

*Second semester; 3 credits.*

Mr. Smith

**252 Dental Prophylaxis.** A study of the prophylactic treatment of the mouth with special attention to those measures which can be employed to prevent or arrest dental caries and adjacent-tissue degeneration. The tooth brush, its selection, sterilization, and use are also considered.

*Second semester; 1 credit.*

Mr. Conner

**254 Clinical Practice.** Clinical prophylactic practice under supervision.

*Year course; 5 credits each semester.*

Mrs. Bickerton

**256 Dental Caries.** A consideration of the causation, progress, and sequelae of caries. Preventive measures. Composition, location, differentiation, and causes of accretions, deposits, and stains found upon the teeth; their harmful results and preventive measures.

*Second semester; 2 credits.*

Mr. Conner

**258 Dental Histology.** A course embracing the sequential steps in the formation of the primary tissues. Special consideration will be given to the study of the origin and classification of dental tissues, enamel, dentine, cementum, pulp, and all the soft tissues of the oral cavity.

*Second semester; 1 credit.*

Mr. Dawe

**260 Oral Pathology.** The fundamentals of general pathology and its specific application to the diseases of the mouth. Mouth manifestations of communicable diseases. Alveolar abscess, fistulae, glandular involvement. Granulomas and systemic involvement—pyorrhea, gingivitis; diagnosis, causes, and prognosis.

*First semester; 1 credit.*

Mr. Dawe

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

*First semester; 2 credits.*

Mr. Phillips

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

*First semester; 2 credits.*

Mr. Hoey

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

*Second semester; 1 credit.*

Miss Baukin

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### Economics

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

**150-151 Principles of Economics.** Principles underlying consumption, production, exchange, and distribution of wealth; analysis of important current economic problems. Prerequisite: sophomore standing or consent of instructor.

*Year course; 3 credits each semester.*

Mr. Cameron

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

**256 Money, Credit, and Prices.** Nature, history, and kinds of money; characteristics of credit; monetary system of the United States; monetary standards; value of money; relation of money and credit to prices. Required of all majors in Economics and Business.  
*First semester; 3 credits.* Mr. Cameron

**257 Banking.** Nature and history of banking; the banking system of the United States including commercial banks, trust companies, savings banks, and related savings institutions. Required of all majors in Economics and Business. Prerequisite: Economics 256 or consent of instructor.  
*Second semester; 3 credits.* Mr. Cameron

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

**266 War and Postwar Economic Problems.** Economic causes of war; economic organization during war; demobilization; postwar problems of population, resources, production, consumption, taxes, and public debt.  
*First semester; 3 credits.* Mr. Hoerber

**267 Business Cycles and Business Forecasting.** Analysis of the business cycle and proposed remedies; assumptions, methods involved, and statistical data used in business forecasting; forecasting services; applicability of forecasts.  
*Second semester; 3 credits.* Mr. Wagner

**270 Public Utilities.** The economic nature and history of public utilities, excluding railroads, followed by a critical discussion of their control by the state.  
*Second semester; 3 credits. (Alternate years; not offered 1944-45.)* Mr. Cameron

**273 Ocean Transportation.** Economic characteristics, history, and vehicles of ocean transportation; services, organization, and rate-making theories and practices of ocean carriers; subsidies and government control.  
*Second semester; 3 credits.* Mr. Cameron

**276 Trusts and Industrial Combinations.** The movement toward industrial combination; devices used to effect combination; advantages and disadvantages of concentration, and regulation by state and federal authorities.  
*First semester; 3 credits. (Alternate years; not offered 1944-45.)* Mr. Cameron

**281 Labor Problems and Legislation.** Unemployment, industrial accidents and diseases, wages, hours, unionism, personnel management, unemployment exchanges, social security, wages and hours legislation, National Labor Relations Act.  
*First semester; 3 credits.* Mr. Wagner

**299 Directed Reading.** Prerequisite: consent of instructor.  
*Year course; 3 credits each semester.* Staff

**300 Directed Reading or Research.** Prerequisites: graduate standing and consent of instructor.  
*Year course; 3 credits each semester.* Staff

### Education

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

**235 Participation Teaching.** Students assigned as assistants to teachers in public schools; practical experience, observation, and illustrative material for Education 250-251 and 285-286.  
*Year course; 1 credit each semester.* Mr. Clopton, Miss E. Smith

## ANNOUNCEMENT OF COURSES

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**236 Preschool-Primary Participation Teaching.** A laboratory course accompanying Education 283-284.  
*Year course; 2 credits each semester*

Miss J. Smith

**250-251 Secondary Education.** Basic course dealing with major problems of secondary education.  
*Year course; 3 credits each semester.*

Mr. Clopton

**253 Practice Teaching in Home Economics.** Observation, supervised teaching, and conferences. Prerequisites: senior standing and credit or concurrent registration in Home Economics 251.  
*First semester; 6 credits; repeated second semester.*

Miss Douglass

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

**255 Practice Teaching Conference.** Discussion of problems arising from immediate experience as classroom teachers.  
*First semester; 2 credits; repeated second semester.*

Mr. Sayers

**257 Principles of Counselling.** Counselling as the teacher's work in individual guidance. Need; objectives; available guidance services. Psychological bases of counselling; procedures.  
*First semester; 3 credits; repeated second semester.*

Mr. McKinney

**258 Materials of Instruction.** Study and organization of resources available for use in teaching.  
*First semester; 3 credits; repeated second semester.*

Miss Caro, Miss J. Smith, and Staff

**261 Evaluation in Education.** Theory and techniques of evaluation in education: practice in the use of testing devices.  
*First semester; 2 credits; repeated second semester.*

Mr. McKinney

**270 Agricultural Project Work.** The project as an education device in agriculture: home projects; classroom correlation; plans, records, reports, and accounts.  
*Second semester; 3 credits.*

Mr. Armstrong

**271 Principles of Vocational Education.** Development of vocational education, with special reference to agriculture, organizations adapted to this type of work; organization for Hawaii.  
*Second semester; 3 credits.*

Mr. Armstrong

**272 Teaching Agricultural Related Subjects.** Correlating general school subjects with vocational agriculture in Hawaii.  
*First semester; 3 credits.*

Mr. Armstrong

**274 Teaching Vocational Agriculture.** Long-time program; annual plan of work; methods of teaching; references, equipment, supplies, records, reports.  
*First semester; 3 credits.*

Mr. Armstrong

**275 Practice Teaching in Vocational Agriculture.** Full-time teaching under supervision for three weeks in a selected center.  
*Second semester; 3 credits.*

Mr. Armstrong

**283-284 Preschool-Primary Education.** Basic course dealing with major problems in the education of children of ages two to seven.  
*Year course; 3 credits each semester.*

Miss J. Smith

**285-286 Elementary Education.** Basic course dealing with major problems in the education of children of ages six to twelve.  
*Year course; 3 credits each semester.*

Miss E. Smith

**299 Directed Reading.** Individual reading in the field of Education. Prerequisite: consent of chairman of the Department and of the instructor concerned. Reading in (a) Preschool Education, (b) Elementary Education, (c) Secondary Education, (d) History of Education, General and United States, (e) History of Education, Hawaiian, (f) Philosophy of Education, (g) Administration and Supervision, (h) Adult Education, (i) Agricultural Education, (j) Home Economics Education.  
*Credit by arrangement.*

Staff

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

**340 Philosophy of Education.** Philosophy and science in education; the American democratic social tradition; basic views of human behavior; improvement of life; reconstruction in education. *First semester; 4 credits; repeated second semester.* Mr. Sayers

**345 Seminar in Philosophy of Education.** Social and psychological theory involved in controversial educational issues. Prerequisites: Education 340 or equivalent, and consent of instructor. May be repeated for credit by permission of instructor. *First semester; 2 credits; repeated second semester.* Mr. Sayers

**350 History of Education.** Survey of educational thought and practice as a basis for the study of modern school problems. *First semester; 4 credits; repeated second semester.* Mr. Clopton

**354 Interne Teaching.** Full-time teaching under special supervision in selected public schools. Restricted to fifth-year students. *First semester; 14 credits; repeated second semester.* Mr. Sayers

**376 Seminar in Vocational Education.** Individual study of special problems in vocational education. *First semester; 2 credits.* Mr. Armstrong

**380 Research and Thesis Writing.** Research techniques and thesis development; designed to assist students in thesis preparation. Prerequisite: consent of instructor. *First semester; 2 credits; repeated second semester.* Mr. White

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

**395 Seminar for Interne Teachers.** Problems arising from the classroom experiences of interne teachers. Restricted to fifth-year students. *First semester; 2 credits; repeated second semester.* Mr. Sayers

## Engineering

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

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

**CE 153 Roads and Pavements.** Construction and maintenance of various types of city streets and rural highways. Prerequisites: Civil Engineering 101 and Mechanical Drawing 101. *Second semester; 2 credits.* Mr. Webster

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

## ANNOUNCEMENT OF COURSES

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**CE 229 Municipal Engineering.** City water supply, waterworks, fire protection, methods of treating water used for public supply, sewage and garbage disposal, sewage treatment, and disposal of storm water.  
*Year course; 3 credits each semester.*

**CE 231 Soil Mechanics.** Physical factors in earth pressure phenomena, soil phenomena in earthwork operations, and foundation work.  
*Year course; 2 credits each semester.*

**CE 252 Analytical and Applied Mechanics.** Effect of forces on bodies, both at rest and in motion. Prerequisite: Mathematics 155.  
*First semester; 4 credits.* Mr. Okubo

**CE 253 Structural Mechanics.** Action and effect of internal stresses in bodies and members of structures. Prerequisite: Civil Engineering 252.  
*Second semester; 4 credits.* Mr. Okubo

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

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

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

**CE 279 Concrete and Masonry Structures.** Elementary theory of reinforced concrete, beams, columns, footings, retaining walls. In the second semester: design of floor systems for buildings, bins, reservoirs, combined footings, highway bridges, miscellaneous structures. Prerequisites: Civil Engineering 252 and 253.  
*Year course; 3 credits each semester.* Mr. Keller

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

**MD 152 Descriptive Geometry.** Geometry of engineering drawing; analysis and design of structures; intersections and development of surfaces. Prerequisite: Mechanical Drawing 101.  
*First semester; 2 credits.* Mr. Watanabe

**ME 202 Materials of Engineering and Laboratory.** Properties of cements, limes, plasters, and plain and reinforced concrete; methods of manufacture and standard tests for quality; testing cements, concretes, reinforced concrete, and aggregates used in making concrete; operation and calibration of testing machines. Prerequisites: Mathematics 155 and Mechanical Drawing 152. Laboratory fee \$2.50.  
*First semester; 3 credits.* Mr. Keller

**ME 203 Materials of Engineering and Laboratory.** A continuation of Mechanical Engineering 202; properties and requirements of wood, iron, steel, and other metals; various tests of timber and metals. Prerequisite: Mechanical Engineering 202. Laboratory fee \$2.50.  
*Second semester; 3 credits.* Mr. Keller

**ME 282 Steam Machinery.** Fundamental laws governing transformation of heat into work; properties of gases, laws of expansion, heat measurement, mechanical equivalent of heat, properties of steam, steam tables. Prerequisites: Mathematics 155 and Physics 102.  
*First semester; 3 credits.* Mr. Keller

- 276-277 Shakespeare.** First semester: Shakespeare's histories and comedies. Second semester: Shakespeare's tragedies.  
*Year course; 3 credits each semester.* Miss Schwartz
- 280 Restoration and Eighteenth-Century Literature.** A study of the ideas of the principal English writers of the period 1660-1780.  
*First semester; 3 credits.* Miss Schwartz
- 282 Poetry and Prose of the Romantic Movement in England.** An intensive study of the principal writers of the period 1780-1832.  
*Second semester; 3 credits.* Miss Schwartz
- 284 Victorian Literature (exclusive of the novel).** A study of the principal English authors and works of the period 1832-1900.  
*First semester; 3 credits. (Alternate years; not offered 1944-45.)*
- 285 The Victorian Novel.** A brief survey of the history of the novel, and a study of the principal English writers of the novel and their works, in Nineteenth-Century England.  
*Second semester; 3 credits. (Alternate years; not offered 1944-45.)*
- 287 Dramatic Literature.** First semester: European drama to Ibsen. Second semester: contemporary European and American drama.  
*Year course; 3 credits each semester. (Alternate years; not offered 1944-45.)* Mr. Trapido
- 288 Contemporary European and American Literature.** Representative works of the leading European and American novelists and poets since 1890.  
*Year course; 3 credits each semester. (Alternate years; not offered 1944-45.)* Miss Schwartz
- 300 Directed Research.** Graduate study in (a) American literature, (b) English literature, (c) speech. May be repeated until an aggregate of six credits has been earned. Prerequisites: an undergraduate major, or its equivalent, in one of the three fields listed above, and permission of the chairman of the Department.  
*Year course; credit by arrangement.* Staff

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### French

- 100 Elementary French.** Grammar, phonetics, diction, reading of easy prose and poetry.  
*Year course; 3 credits each semester.* Mrs. Biggs
- 101 Intermediate French.** Review of grammar, composition, reading from selected modern authors. Prerequisite: one year of French in college or two years in preparatory school.  
*Year course; 3 credits each semester.* Mrs. Biggs
- 200 Modern French Literature.** Novel, biography, drama; composition and diction. Prerequisite: two years of college French or equivalent.  
*Year course; 3 credits each semester.* Mr. Pecker
- 299 Directed Reading.** Reading of the latest French publications. Prerequisite: consent of instructor.  
*Year course; credit by arrangement.* Mr. Pecker

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### Geography

- 150 Elements of Geography.** Relationship of people to their natural environment.  
*First semester; 3 credits.* Mr. Palmer
- 151 Economic Geography.** Relationship of production and distribution of industrial raw materials to natural environment.  
*Second semester; 3 credits.* Mr. Palmer

## ANNOUNCEMENT OF COURSES

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### *Geology*

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

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

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

**254 Economic Geology.** Distribution, nature, and origin of deposits of metallic and nonmetallic minerals. Three lectures a week. Prerequisite: Geology 150.  
*First semester; 3 credits. (Alternate years; not offered 1944-45.)* Mr. Palmer

**255 Geology of Ground Water.** Origin, amount, circulation, recovery, and quality of ground water. Two lectures, with demonstrations, a week. Prerequisite: Geology 150. Course fee \$1.00.  
*Second semester; 2 credits. (Alternate years; not offered 1944-45.)* Mr. Palmer

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### *German*

**100 Elementary German.** For beginners. Grammar developed from easy reading material; exercises in reading and translating.  
*Year course; 3 credits each semester.* Mrs. Hörmann, Miss Mueller

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

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

**200 Classical German Literature.** Reading supplemented by exercises in composition.  
*Year course; 3 credits each semester.* Mrs. Hörmann

**201 Contemporary Literature.** Reading supplemented by exercises in composition.  
*Year course; 3 credits each semester. (Alternate years; not offered 1944-45.)* Mrs. Hörmann

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

**299 Directed Reading.** Prerequisite: German 200 or 201.  
*Year course; 1 or 2 credits each semester.* Mrs. Hörmann

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### *Government*

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

- 256 **American Political Parties.** The organization, methods, and principles of American political parties.  
*First semester; 3 credits.* Mr. Hunter
- 260 **Contemporary International Politics.** Basic forces in international relations; war aims and policies of the Axis and United Nations; problems of postwar reconstruction.  
*First semester; 3 credits.* Mr. Bachman
- 282 **Public Administration.** Relationship of administration to policy-forming agencies; organization of administrative staff; centralization of responsibility.  
*First semester; 3 credits.* Mr. Lentz
- 300 **Directed Reading or Research in International Relations.** Prerequisites: graduate standing and consent of instructor.  
*Credit by arrangement.* Mr. Bachman

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*Hawaiian*

- 100 **Elementary Hawaiian.** Elements of the language.  
*Year course; 3 credits each semester.* Mr. Judd
- 101 **Intermediate Hawaiian.** Review of Hawaiian grammar.  
*Year course; 3 credits each semester.* Mr. Judd
- 200 **Third-Year Hawaiian.** Reading of old Hawaiian documents and legends.  
*Year course; 3 credits each semester.* Mr. Judd
- 250-251 **Great Leaders of Hawaii.** A biographical approach to the study of Hawaiian history.  
*Year course; 1 credit each semester.* Mr. Judd
- 252-253 **Old and New Hawaii.** A course in Hawaiiiana; origin, migration, population, industries, tabu system, etc.  
*Year course; 2 credits each semester.* Mr. Judd

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*Health and Physical Education*

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

Freshman and Sophomore men and women under twenty-five years of age who are registered for ten or more semester hours of academic work must take at least one credit hour of Health and Physical Education each semester.

A special corrective-work course (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.

## ANNOUNCEMENT OF COURSES

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**100 Individual and Team Sports (Men).** A basic course required of all Freshman men, with participation in six activities: football, basketball, baseball, volleyball, tennis, and swimming. The order of these activities varies among the sections of the course. Two class periods a week.  
*Year course; 1 credit each semester.*

Mr. Chan Wa

**102 Individual and Team Sports (Women).** Required of all Freshman women. Activities engaged in are: basketball, softball, soccer, swimming, volleyball, and dancing (folk and social). Two class periods a week.  
*Year course; 1 credit each semester.*

Staff

**104 Restricted Activities.** For persons who need modification of the regular activity. Admittance only on University doctor's recommendation.  
*First semester; 1 credit; repeated second semester.*

Miss Bucklin

**105 Personal Hygiene (Men and Women).** Emphasis upon scientific health information as a basis for hygienic living; personal health problems. One lecture and one personal conference period a week.  
*First semester; 1 credit; repeated second semester.*

Miss Jones, Mr. Sia

**135 Physical Activities for Men.** A required course for all Sophomore men. Emphasis is placed on physical activities conducive to physical fitness. During the war emergency this course takes the place of the special activities courses previously offered (110-133).  
*First semester; 1 credit; repeated second semester.*

Mr. Chan Wa

**136 Physical Activities for Women.** Activities engaged in are: archery, badminton, swimming, tennis, and recreational games such as ping pong, horseshoes, etc.  
*First semester; 1 credit; repeated second semester.*

Staff

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

Staff

**220 Physical Education in the Primary Grades.** Methods, materials, and activities for the primary grades of the elementary school. Three class periods a week.  
*First semester; 2 credits.*

Mrs. Bennett

**221 Physical Education in the Upper Elementary Grades.** Similar to HPE 220, with emphasis upon work in the upper elementary grades. Three class periods a week.  
*Second semester; 2 credits.*

Miss Gay

**223 School Health Problems.** Health needs of school age child; principles governing organization and administration of school health program; principles, methods, and materials of health education.  
*Second semester; 2 credits.*

Miss Jones

**227 Theory of Individual Athletics (Women).** Teaching of technique in archery, badminton, bowling, golf, swimming, diving, tennis. One lecture, two laboratory periods a week.  
*First semester; 2 credits.*

Staff

**228 Theory of Group Athletics (Women).** Technique of play and organization of team sports for junior and senior high schools. One lecture, two laboratory periods a week.  
*Second semester; 2 credits.*

Staff

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### History

**100 History of Western Civilization.** Development of modern culture and institutions, including the classical heritage, medieval contributions, expansion overseas, and present-day tendencies in Europe and America.  
*Year course; 3 credits each semester.*

**110 Introduction to American History.** The religious, cultural, and social backgrounds of the American people.  
*First semester; 3 credits.*

Mr. Hunter

- 201 **History of the Far East.** Survey of the political, social, and economic history of the Far East as a unit.  
*Year course; 3 credits each semester.* Mr. Sakamaki
- 204 **Diplomatic and Colonial History of Modern Europe.** Background of World War I; the Postwar period; World War II.  
*Year course; 2 credits each semester.*
- 208 **Expansion of European Civilization.** Survey of cultural changes and developments in Europe, the Western Hemisphere, and Asia resulting from European expansion.  
*First semester; 3 credits.* Mr. Sakamaki
- 211 **Constitutional History of England.** Anglo-Saxon institutions, Norman innovations, development under the Angevins; limitation of the royal power; rise of the cabinet system.  
*First semester; 3 credits.* Mr. Hunter
- 225 **History of China.** General survey of Chinese history; development of institutions; impact of western culture upon Chinese civilization.  
*Year course; 3 credits each semester.* Mr. Taam
- 226 **History of Japan.** Historical survey of Japanese culture, government, economics, institutions.  
*Year course; 3 credits each semester.* Mr. Sakamaki
- 242-243 **History of the United States.** A detailed political, economic, and social survey of the history of the American people, 1789-1945.  
*Year course; 3 credits each semester.* Mr. Hunter
- 245 **Diplomatic History of the United States.** History of American foreign policy since the Civil War.  
*Second semester; 3 credits.* Mr. Hunter
- 246 **American Thought and Culture.** An advanced course on American social customs and institutions.  
*Second semester; 3 credits.* Mr. Hunter
- 250 **History of Early Civilization in the Far East.** Study of the origins of peoples and cultures in Eastern Asia.  
*First semester; 3 credits.* Mr. Sakamaki
- 251 **History of Thought in Japan.** Major schools of thought and important thinkers, social reformers, economists, statesmen, and educators of Japan.  
*Second semester; 3 credits.* Mr. Sakamaki
- 252 **Constitutional History of the United States.** The genesis, drafting, ratification, and development of the federal constitution.  
*Second semester; 3 credits.* Mr. Hunter
- 257 **Europe, 1500 to 1815.** A survey of the development of society and institutions of Western Europe.  
*First semester; 3 credits.*
- 258 **Europe Since the Congress of Vienna.** Political and economic movements in Europe since 1815.  
*Second semester; 3 credits.*
- 277 **The Pacific Region in Modern Times.** First contact of East and West; discovery and exploration; activities of traders and missionaries; development of European and American interests; origin of present problems.  
*Year course; 2 credits each semester.* Mr. Kuykendall
- 300 **Directed Research.** Individual research in (a) American history—Mr. Hunter; (b) Pacific and Hawaiian history—Mr. Kuykendall; (c) Japanese history—Mr. Sakamaki.  
*Year course; credit by arrangement.*
- 310 **Seminar in Historical Method.** Training in the evaluation of sources and the preparation of theses. Open to Seniors and graduate students.  
*First semester; 2 credits.* Mr. Hunter

## ANNOUNCEMENT OF COURSES

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**313 Seminar in Historiography.** The history of history and historians. Open to Seniors and graduate students.  
*Second semester; 2 credits.* Mr. Hunter

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

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### Home Economics

#### GENERAL COURSES (HE)

**HE 100 Orientation in Home Economics.** Application of social ethics to daily life; personal problems of the Freshman student; choice of a vocation; vocational opportunities in home economics.  
*First semester; 1 credit.* Mrs. Gruelle

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

**HE 201 Consumer Buying.** Problems of 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.  
*Second semester; 2 credits.* Miss Weaver

**HE 250 Household Management.** Contribution of homemaker and family members to better home living; management of time and money; arrangement and care of equipment. Two lectures and one laboratory period a week. Prerequisite: junior standing.  
*First semester; 3 credits.* Mrs. Gruelle

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

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

**HE 253 Child Care.** Reproduction, prenatal care, childbirth, infant and preschool care, growth, minor ailments, and common diseases.  
*First semester; 2 credits.*

**HE 262 Education for Family Life.** Relationship problems within the family; special emphasis upon the factors contributing toward satisfying parent-child, child-child, and husband-wife relationships.  
*First semester; 2 credits.* Miss Douglass

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

**HE 360 Special Problems in Home Economics.** Class and individual problems selected according to the needs of fifth-year students preparing to teach vocational home-making.  
*First semester; 2 credits; repeated second semester.* Miss Douglass

## HOUSEHOLD ART (HA)

**HA 110 Clothing and Textiles.** Inventory of the student's wardrobe; clothing plan and budget; use of commercial patterns; fundamentals of cutting, fitting, and constructing a simple school dress; study of textiles in relation to clothing selection. Three laboratory periods a week. Laboratory fee \$2.00.

*First semester; 3 credits.*

Miss Mees

**HA 111 Clothing and Textiles.** Children's clothing; problems in clothing renovation; continued study of textiles and clothing economics. Two laboratory periods a week. Prerequisite: Household Art 110. Laboratory fee \$2.00.

*Second semester; 2 credits.*

Miss Mees

**HA 114 Clothing Design and Construction.** Design and construction of costumes suitable to the individual student; use of foundation pattern in flat pattern designing; study of textiles. Two laboratory periods a week. Prerequisites: Household Art 110 and 111; credit or concurrent registration in Household Art 150. Laboratory fee \$3.00 each semester.

*Year course; 2 credits each semester.*

Miss Doerr

**HA 150 Clothing Selection.** Color, design, suitability, quality, and cost of clothing and accessories. Laboratory fee \$1.00 each semester.

*Year course; 1 credit each semester.*

Miss Doerr

## HOUSEHOLD SCIENCE (HS)

**HS 102 Food Economics.** Economics of food selection; experimental food preparation; meal planning and serving. One lecture and two laboratory periods a week. Prerequisites: Chemistry 103 and Household Science 150. Laboratory fee \$5.00 each semester.

*Year course; 3 credits each semester.*

Miss Weaver

**HS 150 Elementary Food Preparation.** Fundamental processes of food preparation; practical applications; good food habits. One lecture and two laboratory periods a week. Laboratory fee \$5.00. (First semester for Prenursing students only; second semester for Home Economics students only.)

*First semester; 3 credits; repeated second semester.*

Mrs. Bartow

**HS 155 Elementary Nutrition for Nursing Students.** Principles of nutrition in relation to health; emphasis on nutritive value and use of foods grown or used in Hawaii. One lecture and two laboratory periods a week. Prerequisites: Household Science 150 and one semester of Chemistry 103. Laboratory fee \$5.00.

*Second semester; 3 credits.*

Miss Weaver

**HS 200 Nutrition.** Nutritive requirements of man; function of food in the body; nutritive value of foods and their place in the diet. Two lectures and one laboratory period a week. Prerequisites: Chemistry 103 and 149; credit or concurrent registration in Chemistry 260. Laboratory fee \$5.00 each semester.

*Year course; 3 credits each semester. (Alternate years; not offered 1944-45.)*

Miss Miller

**HS 250 Diet and Disease.** Diet therapy under abnormal conditions; reading, conferences, and laboratory. Two lectures and one laboratory period a week. Prerequisites: Household Science 102 and 200. Laboratory fee \$2.00.

*First semester; 3 credits.*

Miss Weaver

**HS 260 Quantity Cookery.** 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.

*First semester; 2 credits.*

Miss Marshall

**HS 261 Institutional Management.** Organization and administration of food departments of institutions such as college cafeterias, school cafeterias, college residence halls, and hospitals. Prerequisite: Household Science 260.

*Second semester; 2 credits.*

Miss Mitchelson

**HS 263 Institutional Buying.** Selection and purchase of foods and equipment for an institution. Prerequisite: Household Science 260.

*Second semester; 2 credits.*

Miss Mitchelson

## ANNOUNCEMENT OF COURSES

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**HS 264 Problems in Hospital Dietetics or Institutional Management.** Field practice for Senior and graduate student dietitians in an approved institution. Prerequisites: Household Science 200, 260, 261, 263, and 265.

*First semester; 4 credits; repeated second semester.*

Miss Mitchelson

**HS 265 Institutional Accounts.** Principles of accounting applied to management of school cafeterias, tearooms, residence halls, and other food service units. One lecture and two laboratory periods a week. Prerequisite: Household Science 260.

*Second semester; 3 credits.*

Miss Mitchelson

**HS 266 Problems in Residence Hall Management.** Planning and directing preparation of meals in a university women's residence hall; directing of housekeeping in residence hall. Prerequisites: Household Science 200, 260, 261, 263, and 265.

*First semester; credits arranged; repeated second semester.*

Miss Marshall

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

*First semester; 4 credits.*

Miss Miller, Miss Weaver

**HS 273 Racial Food Habits in Hawaii.** The planning and preparation of meals for various racial groups at different income levels; emphasis on adequate diets at minimum cost. Two lectures and two laboratory periods a week. Prerequisite: Household Science 200 or 272. Laboratory fee \$5.00.

*Second semester; 4 credits.*

Mrs. Gruelle

**HS 275 Preparation of Food for Children.** Planning meals for children; problems involved in planning, selecting, buying, preparing, and serving the noon lunch.

*Second semester; 3 credits.*

**HS 300 Directed Research in Nutrition.** Problems according to preparation of each student; nutritional investigations; animal and human feeding experiments. Prerequisites: Household Science 200 and consent of instructor. Laboratory fee \$5.00 each semester.

*Credit by arrangement.*

Miss Miller, Miss Hartzler

**HS 350-351 Seminar in Nutrition.** Review of current literature; preparation of reports; reviews of articles on assigned topics. One 1½-hour meeting a week. Prerequisite: consent of instructor.

*Year course; 1 credit each semester.*

Miss Miller, Miss Hartzler

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## Japanese

**D102 Beginning Japanese.** Intended especially for occidental beginners and military personnel. Basic grammar; simple conversation and reading.

*Year course; 3 credits each semester.*

Mr. Hayashida

**102 First-Year Japanese.** Reading and translation of language readers. Study of *Katakana*, *Hiragana*, and simple Chinese characters; composition and oral exercises.

*Year course; 3 credits each semester.*

Mr. Ueyehara

**103 Second-Year Japanese.** Reading and translation of language readers. Study of more Chinese characters; composition; advanced oral exercises.

*Year course; 3 credits each semester.*

Mr. Ueyehara

**D103 Second-Year Japanese.** Intended especially for occidentals and military personnel. Conversation and reading.

*Year course; 3 credits each semester.*

Mr. Hayashida, Mr. Ueyehara

**203 Japanese Translation and Interpretation.** Lectures and exercises in Japanese-English translation and interpretation; English-Japanese translation and interpretation.

*Year course; 3 credits each semester.*

Mr. Ueyehara

**260 Japanese Literature in English.** Historical analysis of Japanese thought through literature. Study of classics and contemporary works; drama; poetry; etc.

*Year course; 2 credits each semester.*

Mr. Ueyehara

300 Directed Reading or Research.  
Credit by arrangement.

Mr. Uyehara

### Mathematics

149 Algebra. Second-year Algebra. Six hours a week. Prerequisites: one year of high school algebra and one year of plane geometry.

First semester; 3 credits; repeated second semester.

Mrs. Wilson

150 Plane Trigonometry. Prerequisites: Mathematics 149, or two years of high school algebra and one year of plane geometry.

First semester; 3 credits; repeated second semester.

Staff

151 College Algebra. Prerequisites: Mathematics 150, or two years of high school algebra, one year of plane geometry, and one semester of trigonometry.

First semester; 3 credits; repeated second semester.

Staff

152 Plane Analytical Geometry. Prerequisite: credit or concurrent registration in Mathematics 151.

First semester; 3 credits; repeated second semester.

Staff

153 Differential Calculus. Prerequisite: Mathematics 152.

First semester; 3 credits; repeated second semester.

Staff

154 Integral Calculus. Prerequisite: Mathematics 153.

First semester; 3 credits; repeated second semester.

Mr. Watanabe

155 Calculus Applications. Prerequisite: Mathematics 154.

Second semester; 3 credits.

Mr. Watanabe

156 Spherical Trigonometry. Prerequisite: Mathematics 150 or equivalent.

Second semester; 2 credits.

Mr. Watanabe

252-253 Advanced Calculus and Differential Equations. Theory and application of ordinary, total, and partial differential equations. Fourier and other series, hyperbolic functions. Prerequisite: Mathematics 155 or equivalent.

Year course; 3 credits each semester.

Mr. Watanabe

299 Directed Reading. Prerequisite: consent of instructor.

Credit by arrangement.

Mr. Watanabe

### Music

152 Elements of Musicianship. Music reading, with attention to diction and phrasing. Elementary theory and conducting, with practice in the latter, using patriotic and simple assembly music.

Second semester; 3 credits.

Mrs. Kahananui

250 Music for Early Childhood. Music materials and procedures for the preschool and primary years. Prerequisite: Music 152.

Second semester; 2 credits.

Mrs. Kahananui

251 Music for Later Childhood. Discussion of and practice in the organization and direction of the musical experiences of children on the elementary school level. Includes a survey of suitable materials and procedures. Prerequisite: Music 152 or consent of instructor.

First semester; 2 credits.

Mrs. Kahananui

262 Music History and Appreciation. 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.

First semester; 2 credits.

Mrs. Kahananui

263 Music History and Appreciation. Twentieth century social trends and their effects on the arts, with emphasis on the development of music.

Second semester; 2 credits.

Mrs. Kahananui

## ANNOUNCEMENT OF COURSES

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**291 Survey of Recorded Music for the Elementary School.** An examination of recorded music appropriate for use at the different age levels of elementary school children.  
*First semester; 2 credits.* Mrs. Kahananui

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### Philosophy

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

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

**200 Philosophies of Life.** Western philosophies and typical theories of the nature of the good life and of the basic values of human living; frequent comparative consideration of Eastern philosophies of life.  
*First semester; 3 credits.* Mr. Moore

**201 Problems of Conduct.** Practical problems of individual and social life: social and economic justice, crime and punishment, happiness, marriage and the family, etc. Desirable preparation: Philosophy 200.  
*Second semester; 3 credits.* Mr. Moore

**252 Types of Philosophy.** The fundamental and persistent types of philosophy: materialism (or naturalism), idealism, realism, dualism, mysticism, pragmatism, skepticism, etc. Prerequisite: Philosophy 150 or 200.  
*First semester; 3 credits. (Alternate years; not offered 1944-45.)* Mr. Moore

**253 Problems of Philosophy.** The fundamental and persistent problems of philosophy: existence of God, status of evil, nature and extent of human knowledge, existence of soul, freedom of the will, immortality, etc. Prerequisite: Philosophy 150 or 200. Philosophy 252 desirable but not required.  
*Second semester; 3 credits. (Alternate years; not offered 1944-45.)* Mr. Moore

**270-271 Oriental Philosophies.** Fundamental philosophical movements of Arabia, China, India, Japan, and Persia. Frequent comparisons with Western philosophy.  
*Year course; 3 credits each semester.* Mr. Moore

**280 Logic and Scientific Method.** Valid forms of reasoning; common fallacies: methods, validity, and difficulties of scientific reasoning.  
*First semester; 3 credits.* Mr. Moore

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

**300 Directed Reading.** Prerequisite: consent of instructor.  
*Credit by arrangement.* Mr. Moore

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### Physics

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

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

**255 Light.** Principles of geometrical and physical optics. Prerequisite: Physics 102 or equivalent.  
*First semester; 3 credits. (Alternate years; not offered 1944-45.)* Mr. Eller

**256 Optics Laboratory.** Experiments in geometrical and physical optics. One laboratory period a week. Prerequisite: credit or concurrent registration in Physics 255. Laboratory fee \$4.00.  
*First semester; 1 credit. (Alternate years; not offered 1944-45.)* Mr. Eller

**275 Electricity and Magnetism.** Fundamental theory of electric and magnetic phenomena. Prerequisites: Physics 102 or equivalent, and Mathematics 154 or equivalent.  
*Second semester; 3 credits.* Mr. Eller

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

**299 Reading or Laboratory Work in Advanced Physics.** Reading, consultations, and written reports; or supervised experimental work. Prerequisites: Physics 102 or equivalent, and Mathematics 154 or equivalent.  
*Credit by arrangement.* Mr. Eller

**300 Directed Reading or Research.** Reading, consultation, and written reports; or supervised experimental work. Prerequisite: graduate standing or consent of instructor.  
*Credit by arrangement.* Mr. Eller

### Psychology

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

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

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

**185 Developmental Psychology.** Emotional, mental, physical, and social development of the child from infancy through adolescence; interests and abilities at the different age levels.  
*Second semester; 3 credits.* Miss E. Smith, Miss J. Smith

**250 Applied Psychology.** Application of psychological principles to practical life situations; special attention to industrial, business, legal, and medical fields.  
*First semester; 3 credits. (Alternate years; not offered 1944-45.)* Mr. Livesay

**260 Statistical Techniques in Psychology.** Use of statistical techniques in psychological problems: measures of central tendency and variability; graphic methods; reliability of measures and scores; methods of correlation.  
*First semester; 3 credits.* Mr. Livesay

**275 Systematic Psychology.** The various systems of psychology: existentialism, functionalism, behaviorism, purposivism, and *Gestalt*.  
*Second semester; 3 credits. (Alternate years; not offered 1944-45.)* Mr. Livesay

**280 Social Psychology.** The psychology of human relations; psychological factors that determine the behavior of an individual in his social relationships.  
*Second semester; 3 credits.* Mr. Livesay

**292 Mental Hygiene.** Conditions requisite to mental health and satisfactory social adjustment; causes and means of preventing maladjustments and neuroses.  
*First semester; 3 credits.* Mr. Livesay

## ANNOUNCEMENT OF COURSES

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**295 Abnormal Psychology.** The nature and causes of psychoneuroses and insanity; incipient abnormal traits manifested in everyday life; psychotherapy.  
*Second semester; 3 credits.* Mr. Livesay

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

**351 Advanced Educational Psychology.** Application of experimental evidence in psychology to major educational problems; the bearing of recent psychological theories upon education.  
*First semester; 2 credits; repeated each semester.* Mr. White

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### Public Health Nursing

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

**156 Child Hygiene.** The physiology and hygiene of pregnancy, labor, and the puerperium; development, growth, and physical and mental hygiene of childhood from fetus through school age; standards and procedures of maternity, infant, school, and adolescent health work.  
*First semester; 3 credits.* Mr. Wishik

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

**160 Public Health Organization and Administration.** Principles of public health and their application in protecting and promoting the health and welfare of citizens through organized community effort.  
*First semester; 2 credits.* Mr. Wilbar

**162 Teaching in Public Health Nursing.** Basic principles underlying teaching and learning; selection and organization of materials used in health teaching; methods used with groups and individuals.  
*First semester; 2 credits.* Miss Jones

**164 Preventive Medicine.** The public health aspects of certain preventable conditions.  
*First semester; 2 credits.* Mr. Lee

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

**PH 200 Mental Hygiene for Public Health Nurses.** The mental hygiene movement; the mental hygiene program of the Territory of Hawaii; mental hygiene of the individual; child guidance; practical aspects of clinical psychiatry; facilities in Hawaii for dealing with mental disease and how to use them.  
*First semester; 2 credits.* Mr. Shanahan

**PH 201 Social Work Concepts and Relationships.** Methods of applying mental hygiene concepts to the work of public health nurses through the use of actual case material. Orientation to the field of social work with the study of agency relationships involving referral and conference procedures.  
*Second semester; 3 credits.* Staff

### *Religion*

- 150 Introduction to the Study of Religion.** The nature of religion and its relationship to other areas of life and thought.  
*First semester; 3 credits.* Mr. Zeigler
- 151 Problems in Religious Thought.** The manner in which religious faith has been undergirded by rational thought; emphasis upon modern developments.  
*Second semester; 3 credits.* Mr. Zeigler
- 200 Old Testament Survey.** The Old Testament from the literary and philosophical points of view; emphasis on practical values of the book for life today.  
*First semester; 3 credits.* Mr. Zeigler
- 201 New Testament Survey.** The New Testament from the literary and philosophical viewpoints; emphasis on practical values for life today.  
*Second semester; 3 credits.* Mr. Zeigler
- 240-241 Christian Church in History.** Survey of the history of the Church as an institution; its relationship to other lines of human development.  
*Year course; 3 credits each semester.*
- 250-251 Comparative Study of Religions.** A study of the major religions of the world in terms of their comparative relationship to human life.  
*Year course; 3 credits each semester.* Mr. Zeigler
- 275-276 The Philosophy of Religion.** Analysis of religious experience to show its basic element; emphasis upon the significance of this for a constructive philosophical position.  
*Year course; 3 credits each semester.* Mr. Zeigler

### *Social Work*

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

- 200-201 Introduction to Social Work.** The origins, philosophy, scope, aims, and methods of contemporary social work; typical problems and agencies in case work, group work, and community organization. Field trips to local social agencies. Prerequisite: junior standing.  
*Year course; 3 credits each semester.* Miss Frisbee
- 305 Social Case Work.** Principles of social case work and their application; an approach to the individual and his social situation.  
*First semester; 3 credits.* Mrs. Hosch
- 310 Dynamics of Human Behavior.** The composition, development, and function of personality.  
*First semester; 2 credits.*
- 315 Community Organization.** Analysis of the larger social welfare program, including the functioning of public and private agencies and their relationship to other phases of the community organization.  
*Second semester; 2 credits.* Mr. Laune
- 325 Child Welfare.** Social aspects of child welfare problems and programs; methods and agencies for the prevention and treatment of maladjustments.  
*Second semester; 3 credits.* Miss Frisbee
- 330 Health and Disease.** Diseases and disease groups; their medical and hospitalization aspects and their social implications.  
*First semester; 2 credits.*
- 340 Advanced Case Work.** Case discussions emphasizing the psychiatric approach to social case work; evaluation of case studies in terms of cause and effect relationships.  
*Second semester; 3 credits.* Mrs. Hosch

## ANNOUNCEMENT OF COURSES

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**350 Introduction to Public Welfare.** The history, functions, and organization of local, state, and federal governments as related to individuals needing special care.  
*First semester; 3 credits.* Miss Frisbee

**353 Legal Aspects of Social Work.** The elements of law and of legal procedures with reference to the legal-social field.  
*Second semester; 2 credits.* Mr. H. Porteus

**360-361 Supervised Field Work.** Training in the application of case work principles in local welfare agencies.  
*Year course; 5 credits each semester.* Miss Frisbee, Mrs. Hosch

**370 Juvenile Delinquency.** A study of the background of delinquent behavior and community responsibility for its control.  
*First semester; 2 credits.* Mr. Laune

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### Sociology

**151 Introduction to the Study of Society.** An orientation course. The basic social relationships and the corresponding social structures.  
*First semester; 3 credits.* Mr. Lind

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

**253 Rural Sociology.** Organization of life in the rural environment. A comparative study of rural community types, with special reference to Hawaii. Field trips if the war situation permits. Prerequisites: Anthropology 150 and Sociology 151.  
*Second semester; 3 credits. (Alternate years; not offered 1944-45.)* Mr. Hörmann

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

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

**267 The Family.** The family as a universal institution; human nature and the family; changing structure and functions in the Orient and the Occident; courtship and marriage in the immigrant family. Prerequisite: Sociology 151.  
*Second semester; 3 credits. (Alternate years; not offered 1944-45.)* Mr. Lind

**269 Personality and Culture.** The origin and development of personality as the subjective aspect of culture; the function of communication; human nature and the mores; personal life organization and disorganization. Prerequisites: Anthropology 150 and Sociology 151.  
*First semester; 3 credits.* Mr. Lind

**270 Population and Society.** Society analyzed in terms of the quantitative and qualitative aspects of population. Sociological aspects of birth and death rates, natural increase, and mobility. Prerequisite: Sociology 151.  
*Second semester; 3 credits.* Mr. Hörmann

**272 Collective Behavior.** Elementary and spontaneous forms of group behavior; social unrest; social contagion; the crowd and the public; mass and social movements; fashion, reform, and revolution. Prerequisites: Anthropology 150 and Sociology 151.  
*First semester; 3 credits. (Alternate years; not offered 1944-45.)* Mr. Lind

## ZOOLOGY AND ENTOMOLOGY

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**274 Social Change.** The nature of and the major factors affecting social change; war as illustrating social change; the role of invention and science; social forecasting. *First semester; 3 credits. (Alternate years; not offered 1944-45.)* Mr. Hörmann

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

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

**350 Seminar in Sociology.** Open to Seniors and graduate students. Prerequisite: consent of instructor. *Year course; 2 credits each semester. (Alternate years; not offered 1944-45.)* Mr. Lind

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### Spanish

**100 Elementary Spanish.** Conversation, essentials of grammar, Spanish and Latin American readings; emphasis upon the oral aspect of the language. *Year course; 3 credits each semester.* Mr. Pecker

**101 Modern Spanish Literature.** Works of Galdós, Valera, Pereda, Ibáñez, and others; conversation and composition; review of grammar; commercial correspondence. Prerequisite: a year of Spanish in college or two years in preparatory school. *Year course; 3 credits each semester.* Mr. Pecker

**252 Modern Spanish Novel.** Rapid reading; advanced work in composition and conversation; review of grammar. Prerequisite: two years of college Spanish or the equivalent. *First semester; 2 credits. (Alternate years; not offered 1944-45.)* Mr. Pecker

**253 Modern Spanish Drama.** Rapid reading of modern Spanish plays; continued work in composition, diction, and conversation. Prerequisite: Spanish 252. *Second semester; 2 credits. (Alternate years; not offered 1944-45.)* Mr. Pecker

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### Survey Course

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

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### Zoology and Entomology

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

**151 Comparative Anatomy of the Vertebrates.** Study of the structure and relationship of the vertebrate groups and the discussion of typical vertebrates. Two lectures and two laboratory periods a week. Prerequisite: Zoology 100. Laboratory fee \$5.00. *Second semester; 4 credits.* Mr. Hamre

**160 Mammalian Anatomy.** A laboratory course primarily for premedical and pre-dental students; careful dissection of a typical mammal. Three laboratory periods a week. Prerequisite: Zoology 151. Laboratory fee \$6.00. *First semester; 3 credits.* Mr. Hiatt

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