General Catalogue
UNIVERSITY of HAWAII
1958·1959
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The Hawaiian tapa pattern on the cover is reproduced photographically from one of the 110 pieces of tapa bound into the Catalogue of Specimens of Tapa-Cloth from Various Islands of the Pacific, in the Bernice P. Bishop Museum, Honolulu, and believed to have been collected by Captain James Cook in the 18th century.
UNIVERSITY OF HAWAII
1958-1959 Calendar

First Semester
September 15–16, Monday and Tuesday .... Orientation of freshmen
September 16, Tuesday ........................ Registration of seniors
September 17, Wednesday ....................... Registration of juniors
September 18, Thursday ........................ Registration of sophomores
September 19, Friday .......................... Registration of freshmen
September 20, Saturday ........................ 8:00 A.M. to 1:00 P.M. Registration of graduate
and unclassified students and auditors
September 22, Monday .......................... 2:30 to 5:00 P.M. Registration of graduate
and unclassified students and auditors
September 22, Monday ........................ Instruction begins
September 29, Monday ........................ Last day of registration for credit
October 4, Saturday ........................... Primary Election Day (holiday)
October 13, Monday ............................ Last day of withdrawal from courses
without "grade" penalty
October 31, Friday ............................. First deficiency reports due
November 4, Tuesday .......................... General Election Day (holiday)
November 11, Tuesday ........................ Veterans' Day (holiday)
November 26, Wednesday ...................... Last day for removal of "Incompletes"
November 27–29, Thursday through Saturday .... Thanksgiving recess
December 3, Friday .............................. Second deficiency reports due
December 8, Monday .......................... Last day of withdrawal from courses
December 20, Saturday ........................ Last day of instruction before Christmas recess
January 5, Monday ............................. Instruction resumes
January 17, Saturday ........................... Last day of instruction, first semester
January 19, Monday .......................... Final examinations begin
January 29, Thursday ........................ First semester ends

Second Semester
February 4, Wednesday ....................... Registration of seniors and juniors
February 5, Thursday ........................ Registration of sophomores
February 6, Friday ............................ Registration of freshmen
February 7, Saturday ........................ 8:00 A.M. to 1:00 P.M. Registration of graduate
and unclassified students and auditors
February 9, Monday .......................... 2:30 to 5:00 P.M. Registration of graduate
and unclassified students and auditors
February 9, Monday ........................ Instruction begins
February 16, Monday ........................ Last day of registration for credit
February 23, Monday ........................ Holiday following Presidents' Day
March 2, Monday ............................. Last day of withdrawal from courses
without "grade" penalty
March 20, Friday .............................. First deficiency reports due and last day
for removal of "Incompletes"
March 23–28, Monday through Saturday .... Easter recess
May 1, Friday ................................. Second deficiency reports due
May 4, Monday .............................. Last day of withdrawal from courses
May 26, Tuesday ............................. ROTC graduation exercises
May 29, Friday ............................... Last day of instruction
May 30, Saturday ............................. Memorial Day (holiday)
June 1, Monday ............................... Final examinations begin
June 11, Monday ............................ Second semester begins
June 14, Sunday ............................... Commencement
The University's Manoa campus (boxed area of photograph) has the Koolau Mountains as a backdrop. To the left, beyond camera range, is Honolulu's business center. Waikiki is shown in the foreground. Hawaii's well-known landmark, Diamond Head, is just out of sight to the right.
BOARD OF REGENTS

REYNOLDS G. BURKLAND ................................................. 1959
   Assistant Treasurer, Alexander & Baldwin, Ltd.
   Honolulu

HUNG WAI CHING .......................................................... 1959
   Realtor
   Honolulu

LESLIE A. HICKS ............................................................ 1961
   President, Hawaiian Electric Company, Ltd.
   Honolulu

KATSUYUKI IZUMI ............................................................ 1961
   Physician and Surgeon
   Wailuku, Maui

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   Teacher, Farrington High School
   Honolulu

FRED K. LAM ................................................................. 1959
   Physician and Surgeon
   Honolulu

JACK H. MIZUHA ............................................................. 1959
   Attorney at Law
   Lihue, Kauai

RICHARD PENHALLOW .................................................... 1959
   Assistant Manager, Parker Ranch
   Kamuela, Hawaii

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   Chairman of the Board, Hawaiian Electric Company, Ltd.
   Honolulu

OFFICERS OF THE BOARD

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FRED K. LAM .............................................................. Vice-Chairman
AKIKO TAIARA ............................................................. Secretary

FORMER PRESIDENTS

JOHN W. GILMORE, 1908–1913
   B.S.A. 1898, M.S.A. 1906, Cornell

ARTHUR L. DEAN, 1914–1927
   B.A. 1900, Harvard; Ph.D. 1902, Yale; LL.D. 1947, Hawaii

DAVID L. CRAWFORD, 1927–1941
   B.A. 1911, LL.D. 1933, Pomona; M.A. 1912, Stanford; LL.D. 1957, Hawaii

GREGG M. SINCLAIR, 1942–1955
   B.A. 1912, LL.D. 1949, Minnesota; M.A. 1919, LL.D. 1954, Columbia; LL.D. 1951,
      Ohio State; LL.D. 1955, California; HH.D. 1956, Hawaii

PAUL S. BACHMAN, July 1, 1955–January 9, 1957
   B.S. 1922, Ohio State; M.A. 1925, Ph.D. 1927, University of Washington
FACULTY AND STAFF
1957-1958

Administration

WILLARD WILSON, Ph.D., Acting President
WILFRED J. HOLMES, M.S., Vice-President and Dean of Administration
BRUCE E. WHITE, Ph.D., Acting Vice-President and Dean of the Faculties
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ALLAN F. SAUNDERS, Ph.D., Dean of the College of Arts and Sciences
WILLIAM M. WACHTER, M.S., Dean of the College of Applied Science*
OSWALD A. BUSHNELL, Ph.D., Acting Dean of the College of Applied Science
HUBERT V. EVERLY, Ph.D., Acting Dean of Teachers College
HAROLD A. WADSWORTH, B.S., Dean of the College of Agriculture
HAROLD S. ROBERTS, Ph.D., Dean of the College of Business Administration†
EDMUND F. SPELLACY, Ph.D., Dean of the College of General Studies
HAROLD M. BITNER, Ph.D., Dean of Student Personnel
SHUNZO SAKAMAKI, Ph.D., Dean of Summer Session
CARL G. STROVEN, Ph.D., Librarian
AMOS P. LEIB, M.A., Veterans' Adviser*
THOMAS H. IGE, Ph.D., Acting Veterans' Adviser
JOSEPH M. SKORPEN, B.A., Treasurer
EDWARD T. WHITE, M.A., Director, Office of Admissions and Records
THOMAS NICKERSON, B.A., Director, Office of Publications and Information
ROBERT M. KAMINS, Ph.D., Director, Legislative Reference Bureau
KATHARINE N. HANDLEY, M.S.W., Director, School of Social Work
VIRGINIA A. JONES, M.Ed., Director, School of Nursing
ROGER L. MOSELEY, M.B.A., Director, Hilo Branch
MORTON M. ROSENBERG, Ph.D., Director, Agricultural Experiment Station
Y. BARON GOTO, B.S., Director, Agricultural Extension Service

Emeriti

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

*On leave.
†Also designated as Director of the Industrial Relations Center.
Armstrong, Fred E., Professor Emeritus of Vocational Education
B.S. 1916, Clemson; M.S. 1921, Minnesota; Ph.D. 1940, Pennsylvania State

Bennett, J. Gardner, Professor Emeritus of Engineering
B.S. 1912, Cornell College; B.S. in C.E. 1918, C.E. 1925, Wisconsin

Edmondson, Charles H., Professor Emeritus of Zoology
Ph.B. 1903; M.S. 1904, Ph.D. 1906, Iowa

Graham, Matthew M., Professor Emeritus of Accounting

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

Keller, Arthur R., Dean Emeritus
C.E. 1903, Cornell; L.L.B. 1906, National University; M.S. 1916, Massachusetts Institute of Technology; M.S. in C.E. 1916, Harvard; Sc.D. (Hon.) 1942, Hawaii

Krauss, Frederick G., Professor Emeritus of Agriculture
Sc.D. (Hon.) 1921, Hawaii

Kuykendall, Ralph S., Professor Emeritus of History
B.A. 1910, College of the Pacific; M.A. 1921, California; L.H.D. 1956, Hawaii

Leebrick, Karl C., Professor Emeritus of Government
B.S. 1911, M.S. 1913, Ph.D. 1916, California

Luquiens, Huc-Mazelet, Professor Emeritus of Art
B.A. 1902, B.F.A. 1908, Yale

Palmer, Harold S., Professor Emeritus of Geology
B.A. 1912, Ph.D. 1923, Yale

Pecker, Irving O., Professor Emeritus of Romance Languages
B.A. 1912, Boston

Porteus, Stanley D., Professor Emeritus of Psychology
Sc.D. (Hon.) 1933, Hawaii

Ripperton, John C., Professor Emeritus of Agriculture
B.S. 1913, Municipal University of Wichita; M.S. 1916, Kansas State

Sinclair, Gregg M., President Emeritus

Instruction

Abbott, Agatin T., Associate Professor of Geology
B.A. 1939, Minnesota; Ph.D. 1952, University of Washington

Abel, James W., Assistant Professor of Speech
B.A. 1931, M.A. 1936, Indiana; Ph.D. 1949, Louisiana State (second semester only)

Abrums, Tom E., Instructor in English
B.A. 1932, M.A. 1933, Colorado

Adam, Leona R., Assistant Professor of Nursing
B.S. 1944, Indiana

Adler, Jacob, Associate Professor of Business
B.S. 1933, Chicago; M.S. 1956, Columbia

Agpalsa, Elaine E. (Mrs. Maximo), Instructor in Education
B.Ed. 1952, Hawaii
Akiyoshi, Rudolph S., Lecturer in Engineering
B.B.A. 1953, Hawaii

Alden, Robert P., Lecturer in Business

Allen, Master Sergeant Oliver V., Instructor in Military Science

Alm, Julie N. (Mrs. Richard S.), Instructor in Education
B.S. 1943, M.A. 1947, Minnesota (first semester only)

Alm, Richard S., Assistant Professor of Education
B.S. 1942, M.A. 1948, Ph.D. 1954, Minnesota (on leave second semester)

Amato, Anthony J., Assistant Professor of Education

Amioka, Shiro, Assistant Professor of Education
B.Ed. 1949, M.Ed. 1952, Hawaii

Ansberry, Merle, Professor of Speech
B.A. 1929, M.A. 1931, California; Ph.D. 1937, Wisconsin

Aoki, Mitsuo, Assistant Professor of Religion
B.A. 1940, Drury College; B.D. 1943, Chicago Theological Seminary

Arakawa, Clarence M., Lecturer in Music
B.M. 1954, M.M. 1956, Indiana

Arakawa, Kiyoshi, Assistant Professor of Physics
B.S. 1941, Ph.D. 1955, Hokkaido Imperial University

Arkoff, Abe, Associate Professor of Psychology
B.A. 1946, M.A. 1948, Ph.D. 1951, Iowa

Asato, James K., Instructor in Health and Physical Education
B.S. 1952, Hawaii; M.S. 1956, Illinois

Aspinwall, Dorothy B. (Mrs. Albion N.), Associate Professor of European Languages
B.A. 1933, M.A. 1939, Alberta; Ph.D. 1948, University of Washington

Atkinson, Phillip S., Assistant Professor of Economics and Business

Austin, Thomas S., Associate Professor of Botany
B.S. 1938, Grove City College; M.A. 1940, Buffalo; M.S. 1942, Yale

Avery, Don E., Assistant Professor of Engineering
B.S. 1937, M.E. 1950, University of Washington

Avery, Donald M., Lecturer in Business
B.A. 1943, Stanford (second semester only)

Banner, Albert H., Professor of Zoology
B.S. 1935, Ph.D. 1943, University of Washington; M.S. 1940, Hawaii

Bartos, Otomar J., Instructor in Sociology
B.A., M.A. 1954, Colorado

Bartow, Mary L. (Mrs.), Instructor in Home Economics
B.A. 1919, Washington State

Beamer, Martha F. (Mrs. Milton D., Jr.), Instructor in Health and Physical Education
B.Ed. 1952, Hawaii
Bell, Donald W., Assistant Professor of Economics
B.S. 1943, Montana State (on leave 1957-58)

Bennett, Hannah L., Instructor in Education
B.S. 1939, Northwest Missouri State College; M.A. 1947, Ohio State

Bentley, Lucie F., Assistant Professor of Speech and of Drama and Theatre
B.A. 1928, Stanford; M.A. 1933, Cornell

Berk, Morton E., Lecturer in Nursing
B.A. 1938, M.D. 1942, University of Louisville

Bernatowicz, Albert J., Assistant Professor of Botany
B.A. 1948, Clark; M.A. 1952, Ph.D. 1953, Michigan

Bess, Henry A., Senior Professor of Entomology
B.S. 1927, Alabama Polytechnic Institute; M.S. 1931, Florida; Ph.D. 1934, Ohio State

Beyers, Otto J., Professor of Education

Bice, Charles M., Professor of Agriculture
B.S. 1927, Wisconsin

Bilger, Earl M., Professor of Chemistry
B.S. 1920, M.A. 1921, Wesleyan; Ph.D. 1925, Yale

Bilger, Leonora N. (Mrs. Earl M.), Senior Professor of Chemistry
B.A. 1913, M.A. 1914, Ph.D. 1916, Cincinnati

Bilous, Carolyn B. (Mrs. Nicholas), Assistant Professor of Education and Principal, Preschool
B.S. 1938, Temple; M.A. 1949, Columbia

Bilsborrow, Eleanor J., Assistant Professor of Speech
B.A. 1937, Colorado State College of Education; M.A. 1942, Stanford; Ph.D. 1957, Denver

Bitner, Harold M., Professor of Psychology
B.S. 1941, State Teachers College, Shippensburg, Pennsylvania; M.A. 1945, Duke; Ph.D. 1951, Ohio State

Black, A. Duane, Instructor in Speech
B.S. 1954, Northwestern; M.A. 1958, Hawaii (second semester only)

Boatman, Elsie M. (Mrs.), Associate Professor of Home Economics and Director of Food Service
B.S. 1924, M.S. 1931, Iowa State

Bonk, William J., Instructor in Anthropology and Sociology (Hilo Branch)
B.A. 1951, M.A. 1954, Hawaii

Boroughs, Howard, Associate Professor of Zoology
B.A. 1949, Southern California; Ph.D. 1952, California Institute of Technology

Bouslog, Charles S., Professor of English
B.A. 1934, Indiana; M.A. 1948, Ph.D. 1951, Harvard

Bowers, Neal M., Professor of Geography
B.S. 1938, Western Michigan College of Education; M.A. 1939, Ph.D. 1951, Michigan

Bowers, Rohma L. (Mrs. Neal M.), Instructor in Geography
B.S. 1932, Detroit Teachers College; M.A. 1939, Wayne

Breneman, Lucille (Mrs. A. D.), Instructor in Speech
B.A. 1935, Baylor; M.A. 1949, Hawaii

Brenneisen, Elizabeth K. (Mrs. Leo S.), Instructor in English
B.A. 1940, Kansas; M.A. 1950, Arizona; M.A. 1957, Hawaii
Britten, Edward J., Associate Professor of Agriculture
B.S. 1940, M.S. 1941, Saskatchewan; Ph.D. 1944, Wisconsin (on leave first semester)

Brown, Dorothy S. (Mrs.), Assistant Professor of English
B.A. 1934, Hawaii; M.A. 1935, Stanford; Ph.D. 1956, University of Washington

Brown, Hubert E., Professor of Health and Physical Education
B.P.E. 1920, M.P.E. 1927, Springfield College; Ph.D. 1940, New York (first semester only)

Bruhn, William J., Jr., Assistant in Health and Physical Education
B.Ed. 1957, Hawaii

Bruyere, Lieutenant Colonel Walter R., Associate Professor of Military Science
B.S. 1939, Rutgers

Bucklin, Thetis M., Associate Professor of Health and Physical Education
B.S. 1935, Battle Creek College; M.S. 1936, Indiana; Ed.D. 1950, Columbia

Burack, Captain Emanuel, Assistant Professor of Military Science
B.S. 1950, College of the City of New York

Burke, Thomas H., Instructor in Music
B.M. 1951, Drake; M.M. 1952, Manhattan School of Music

Burkett, George I., Instructor in European Languages
B.A. 1941, M.A. 1950, Oklahoma; Diploma 1948, Paris

Buscheck, Alfred J., Lecturer in Business
B.A. 1913, LL.B. 1915, Wisconsin; J.S.D. 1931, Yale

Bushnell, Oswald A., Professor of Bacteriology
B.S. 1934, Hawaii; M.S. 1935, Ph.D. 1937, Wisconsin

Cabral, Master Sergeant Manuel P., Instructor in Military Science

Caesar, Master Sergeant Daniel, Instructor in Military Science

Cagle, Technical Sergeant Thomas E., Instructor in Air Science

Camara, Anne C. (Mrs. Edward), Lecturer in Nursing
B.S. 1948, St. Louis University

Campbell, Robert L., Instructor in Education
B.S. 1946, Illinois Institute of Technology; M.Ed. 1951, Louisiana State

Canfield, Claire, Assistant Professor of Nursing
B.S. 1947, Wayne; M.A. 1950, Columbia

Carmody, Constance E., Instructor in Nursing
B.A. 1930, Mount Mary College; M.S. 1944, Michigan

Carpenter, Regan, Instructor in Education
B.S. 1930, Texas; M.S. 1933, Texas College of Arts and Industries

Carr, Elizabeth B. (Mrs.), Associate Professor of Speech
B.A. 1924, M.A. 1940, Oklahoma; Ph.D. 1953, Louisiana State

Carroll, Philip S., Instructor in Speech (Hilo Branch)
B.A. 1954, M.A. 1956, Denver

Carter, Walter, Professor of Entomology
B.S. 1923, Montana; M.S. 1924, Ph.D. 1928, Minnesota

Castille, Master Sergeant Alfred, Instructor in Military Science

Castro, Evelyn H. (Mrs. William C.), Instructor in English
B.A. 1938, San Jose State College; M.A. 1948, Hawaii
Chang, Chia-Ling, Assistant Professor of Education  
B.A. 1948, M.Ed. 1950, Smith College

Chang, Raymond M., Instructor in Physics  
B.A. 1951, Hawaii; M.S. 1953, New York

Chang, Winona L. (Mrs. Charles K. C.), Instructor in Education  
B.Ed. 1949, Hawaii; M.Ed. 1957, Boston

Charlot, Jean, Senior Professor of Art  
D.F.A. 1946, Grinnell College; LL.D. 1956, St. Mary’s College

Cheng, Ch’eng-K’un, Associate Professor of Sociology  
B.A. 1932, Yenching; M.A. 1937, Ph.D. 1945, University of Washington

Ching, James C., Instructor in Speech  
B.A. 1951, Wabash College; M.A. 1953, Hawaii

Ching, Quan Y., Lecturer in Engineering  
B.S. 1932, Hawaii (first semester only)

Chiu, Arthur N. L., Assistant Professor of Engineering  
B.A., B.S. 1952, Oregon State; M.S. 1953, Massachusetts Institute of Technology

Cho, Samuel S., Lecturer in Business  
B.S. 1937, M.B.A. 1947, California (first semester only)

Chong, Lily Pao-Hu (Mrs.), Assistant Professor of Chinese  
B.A. 1937, Yenching; M.A. 1950, Hawaii

Chow Hoy, Rose L., Instructor in Education  
B.Ed. 1935, Hawaii

Chu, George W., Professor of Bacteriology and Zoology  
B.A. 1928, Lingnan; M.S. 1929, Yenching; Sc.D. 1934, Johns Hopkins

Chui, Edward F., Assistant Professor of Health and Physical Education  
B.S. 1917, M.A. 1948, Iowa

Chun, Dai Ho, Associate Professor of Education  
B.A. 1930, M.A. 1937, Hawaii; Ph.D. 1947, Ohio State (on leave 1957-58)

Clark, Richard H., Assistant Professor of Mathematics  
B.S. 1940, Yale; M.A. 1949, Michigan

Clopton, Robert W., Professor of Education  
B.A. 1926, Maryville College; M.Ed. 1941, Hawaii; Ph.D. 1946, Northwestern

Cochran, Evelyn H., Associate Professor of Social Work  
B.A. 1927, Mississippi; M.A. 1932, Tulane

Comba, Paolo, Assistant Professor of Mathematics  
B.A. 1947, Bluffton College; Ph.D. 1951, California Institute of Technology

Congdon, Charles F., Assistant Professor of Business  
B.S. 1934, State Teachers College, West Chester, Pennsylvania; M.Ed. 1940, Hawaii; M.B.A. 1953, Columbia

Connor, Angie, Lecturer in Nursing  
B.S. 1933, Northwestern; M.D. 1937, Women’s Medical College of Pennsylvania (first semester only)

Cooil, Bruce J., Professor of Agriculture  
B.S. 1936, Washington State; M.S. 1939, Hawaii; Ph.D. 1942, California

Corba, Nicholas B., Assistant Professor of Engineering  
B.S. 1940, State Teachers College, California, Pennsylvania; M.Ed. 1952, Pittsburgh
<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Degrees and Institutions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cowing, Cedric B.</td>
<td>Assistant Professor of History</td>
<td>B.A. 1948, M.A. 1950, Stanford; Ph.D. 1956, Wisconsin</td>
</tr>
<tr>
<td>Cox, J. Halley</td>
<td>Associate Professor of Art</td>
<td>B.A. 1933, San Jose State College; M.A. 1937, California</td>
</tr>
<tr>
<td>Cranch, D. Eleanor</td>
<td>Instructor in Nursing</td>
<td>B.S. 1952, Pittsburgh; M.S. 1954, Yale</td>
</tr>
<tr>
<td>Crawford, Carolyn</td>
<td>Assistant Professor of Education</td>
<td>B.A. 1933, B.A. in L.S. 1934, Michigan; M.S. 1936, Western Reserve</td>
</tr>
<tr>
<td>Crooker, Elizabeth P.</td>
<td>Instructor in Education</td>
<td>B.A. 1931, Smith; M.A. 1933, Columbia</td>
</tr>
<tr>
<td>Cross, Robert F.</td>
<td>Lecturer in Agriculture</td>
<td>D.V.M. 1946, M.S. 1950, Ohio State (First semester only)</td>
</tr>
<tr>
<td>Crossley, John B.</td>
<td>Associate Professor of Education</td>
<td>B.A. 1929, Pomona; M.A. 1940, Claremont; Ed.D. 1950, California at Los Angeles</td>
</tr>
<tr>
<td>Crowell, David H.</td>
<td>Associate Professor of Psychology</td>
<td>B.A. 1941, Drew; Ph.D. 1948, Iowa (on leave 1957-58)</td>
</tr>
<tr>
<td>Crutchfield, Barbara E.</td>
<td>Instructor in Economics and Business</td>
<td>B.A. 1954, Bennett College; J.D. 1957, Iowa</td>
</tr>
<tr>
<td>Daniel, L. Scott</td>
<td>Professor of Engineering</td>
<td>B.S. 1946, Montana State</td>
</tr>
<tr>
<td>Davis, First Lieutenant Donald D.</td>
<td>Assistant Professor of Military Science</td>
<td>B.S. 1951, Oregon</td>
</tr>
<tr>
<td>Davis, Frances E.</td>
<td>Assistant Professor of Mathematics</td>
<td>B.S. 1936, Michigan State; M.A. 1941, Michigan</td>
</tr>
<tr>
<td>Davis, Orrel</td>
<td>Instructor in Education</td>
<td>B.A. 1927, M.A. 1941, Northwestern</td>
</tr>
<tr>
<td>Dawe, John H.</td>
<td>Lecturer in Dental Hygiene</td>
<td>D.D.S. 1915, Washington University; L.D.S. 1918, University of Saskatchewan (second semester only)</td>
</tr>
<tr>
<td>Day, A. Grove</td>
<td>Professor of English</td>
<td>B.A. 1926, M.A. 1943, Ph.D. 1944, Stanford (on leave 1957-58)</td>
</tr>
<tr>
<td>Derstine, Virginia</td>
<td>Instructor in English</td>
<td>B.S. 1949, Pittsburgh; M.A. 1951, Hawaii (on leave 1957-58)</td>
</tr>
<tr>
<td>Desilet, Captain Alvin U.</td>
<td>Assistant Professor of Air Science</td>
<td>B.S. 1950, Kansas State College</td>
</tr>
<tr>
<td>Desmond, Beverly J.</td>
<td>Instructor in Home Economics and Assistant Food Supervisor</td>
<td>B.S. 1953, North Dakota Agricultural College</td>
</tr>
<tr>
<td>Diamond, A. Leonard</td>
<td>Associate Professor of Psychology</td>
<td>B.A. 1947, Cincinnati; M.A. 1949, Ph.D. 1951, Columbia</td>
</tr>
<tr>
<td>Digman, John M.</td>
<td>Associate Professor of Psychology</td>
<td>B.A. 1948, Ph.D. 1951, Ohio State (on leave 1957-58)</td>
</tr>
<tr>
<td>Dobbins, Ralph S.</td>
<td>Lecturer in Business (Hilo Branch)</td>
<td>B.S. 1941, West Virginia Wesleyan</td>
</tr>
<tr>
<td>Doggett, Joseph M.</td>
<td>Associate Professor of English</td>
<td>B.A. 1930, Wofford; M.A. 1937, Ph.D. 1950, George Peabody (on exchange 1957-58 from University of Houston)</td>
</tr>
</tbody>
</table>
Doi, Edith H., Assistant Professor of Education
B.Ed. 1944, Hawaii; M.A. 1949, Columbia; Ed.D. 1957, Colorado

Dole, Arthur A., Assistant Professor of Psychology
B.A. 1946, Antioch College; M.A. 1949, Ph.D. 1951, Ohio State (on leave second semester)

Doty, Maxwell S., Professor of Botany
B.S. 1939, M.S. 1941, Oregon State; Ph.D. 1945, Stanford (on leave 1957-58)

Douty, Helen I., Assistant Professor of Home Economics
B.S. 1942, M.S. 1948, Cornell

Downs, James B. T., Professor of Engineering
M.E. 1934, M.S. 1938, Stevens Institute of Technology

Droste, Howard M., Instructor in Art (Hilo Branch)
B.A. 1952, M.F.A. 1954, University of Washington

Durand, Loyal, Jr., Professor of Geography
B.A. 1924, M.A. 1925, Ph.D. 1930, Wisconsin

Eagers, Captain Joseph A., Jr., Assistant Professor of Military Science
B.S. 1949, United States Military Academy

Easley, John A., Assistant Professor of Science (Hilo Branch)
B.S. 1943, Wake Forest; M.Ed. 1952, Hawaii; Ph.D. 1955, Harvard

Ecke, Gustav E. W., Professor of Art
Ph.D. 1922, Erlangen

Edgar, Katherine J., Lecturer in Nursing
B.A. 1926, M.D. 1931, Oregon; M.P.H. 1956, California (first semester only)

Elbert, Samuel H., Associate Professor of Pacific Languages and Linguistics
B.A. 1928, Grinnell College; B.Lit. 1931, Columbia; Ph.D. 1930, Indiana (on leave 1957-58)

Eller, Willard H., Professor of Physics
B.S. 1914, Ph.D. 1928, California; M.S. 1925, University of Washington (first semester only)

Emory, Kenneth P., Professor of Anthropology
B.A. 1920, Dartmouth; M.A. 1923, Harvard; Ph.D. 1946, Yale

Engman, Charles A., Jr., Associate Professor of Engineering
B.S. 1949, Hawaii; M.S. 1950, Illinois

Erickson, Yvonne B. (Mrs. John A.), Instructor in Education
B.Ed. 1949, Hawaii; M.A. 1952, George Peabody College for Teachers

Ernst, Earle, Professor of Drama and Theatre
B.A. 1933, Gettysburg College; M.A. 1937, Ph.D. 1940, Cornell

Esch, Technical Sergeant Frederick H., Instructor in Air Science
B.S. 1950, M.S. 1952, Utah

Evans, John R., Associate Professor of Engineering
B.S. 1941, M.S. 1947, Michigan State

Everly, Hubert V., Professor of Education
B.Ed. 1934, M.Ed. 1938, Hawaii; Ph.D. 1946, Ohio State

Ewing, Claude H., Professor of Education
Ph.B. 1933, Chicago; M.A. 1936, Colorado State College of Education; Ph.D. 1946, Northwestern (on leave 1957-58)

Feigl, Herbert, Carnegie Visiting Professor of Philosophy
Ph.D. 1927, University of Vienna (second semester only)
FACULTY

Ferguson, John B., Associate Professor of Economics and Business
B.A. 1933, M.B.A. 1935, Stanford

Feusse, Floyd A., Instructor in Education
B.S. 1950, Central Michigan College; M.A. 1956, Colorado State College of Education

Fisher, Rosalie J. (Mrs. H. W.), Assistant Professor of Physics
B.A. 1948, Barnard; Ph.D. 1953, Columbia (first semester only)

Fitzsimmons, Lorraine F. (Mrs.), Assistant Professor of Education
B.A. 1929, M.A. 1931, Colorado State College of Education

Fleece, Jeffrey A., Junior Supervisor (General Studies)
B.A. 1941, Central College, Missouri; M.A. 1942, Vanderbilt; Ph.D. 1952, Iowa

Fletcher, Ralph V., Assistant Professor of Education
B.A. 1948, California (Santa Barbara); M.A. 1950, Columbia

Frierson, James W., Assistant Professor of English
B.A. 1929, L.L.B. 1933, Tulane; Ph.D. 1953, Stanford

Frojden, Olga B., Assistant Professor of Nursing
B.A. 1941, Marquette; M.A. 1944, New York

Fujimura, Thomas H., Associate Professor of English
B.A. 1942, California; M.A. 1943, Nebraska; Ph.D. 1950, Columbia (on leave second semester)

Fujioi, Norito, Instructor in Japanese
B.A. 1948, M.A. 1952, Hawaii

Furukawa, Fred M., Assistant in Health and Physical Education
B.S. 1955, Hawaii

Garner, Jewell L. (Mrs. Jack W.), Instructor in Education
B.S. 1952, M.Ed. 1956, Oregon

Gay, May K., Assistant Professor of Health and Physical Education
B.A. 1923, Hawaii; M.A. 1925, Columbia

Geiser, Cynthia B. (Mrs. Ralph G.), Assistant Professor of Education
B.A. 1926, Western State College of Colorado; M.A. 1929, Hawaii

Gelfand, Miriam J. (Mrs. Lawrence E.), Instructor in European Languages
B.A. 1946, St. John's University, Shanghai

George, Dorothy I., Associate Professor of English
B.A. 1936, Louisiana State Normal College; M.A. 1937, Ph.D. 1950, Louisiana State (on exchange 1957–58 at University of Houston)

Gibson, Lillian R., Instructor in Health and Physical Education
B.S. 1930, State Teachers College, La Crosse, Wisconsin

Gilbert, James C., Assistant Professor of Agriculture
B.A. 1931, Pomona; M.A. 1933, Southern California; M.S. 1952, Hawaii

Gilgash, Curtis A., Assistant Professor of Psychology (Hilo Branch)
B.A. 1949, Washington College; M.A. 1953, Ph.D. 1956, American University

Gillespie, Evan L., Assistant in Science
B.A. 1952, Hawaii

Gillespie, Margaret C. (Mrs. Charles J.), Instructor in Education
B.Ed. 1952, M.Ed. 1957, Hawaii
Gillett, Dorothy K. (Mrs. Milton A.), Instructor in Music
B.A. 1940, Ohio State

Gillette, Erma M. (Mrs. Glenn), Assistant in Education
R.N. 1937, Thomas D. Dee Memorial Hospital School of Nursing

Gipson, E. Harriet, Instructor in English
B.A. 1934, Oberlin; M.A. 1943, Bread Loaf School of English (first semester only)

Glick, Clarence E., Professor of Sociology
B.A. 1927, De Pauw; M.A. 1928, Ph.D. 1938, Chicago

Glover, Lee, Lecturer in Business
B.S. 1925, Alabama; M.A. 1928, Chicago

Gordon, Betty F. (Mrs. Morton J.), Instructor in Speech
B.A. 1948, Cornell; M.A. 1949, Northwestern (on leave second semester)

Gordon, Morton J., Instructor in Speech
B.S. 1949, M.A. 1951, Columbia; M.A. 1955, Iowa

Gosline, William A., Professor of Zoology
B.S. 1938, Harvard; Ph.D. 1941, Stanford

Goto, Shosuke, Assistant Professor of Agriculture
B.S. 1941, M.S. 1943, University of Alberta; Ph.D. 1953, Minnesota

Goto, Y. Baron, Professor of Agriculture
B.S. 1924, Hawaii

Graf, William, Lecturer in Entomology and Zoology
B.S. 1937, M.A. 1939, Ph.D. 1943, Oregon State

Green, Carleton, Professor of English and University Marshal
B.A. 1930, M.A. 1933, Ph.D. 1936, Harvard

Greene, Colonel Edward C., Jr., Professor of Air Science
Ph.B. 1928, M.F. 1932, Yale

Gregory, Christopher, Professor of Mathematics
B.S. 1938, M.S. 1939, Ph.D. 1941, California Institute of Technology

Gross, Yukie T. (Mrs. Bertram), Assistant Professor of Nursing

Gruelle, Katherine B. (Mrs. Laurence N.), Associate Professor of Home Economics
B.S. 1917, Ohio State; M.A. 1925, Columbia

Gurian, Jay P., Instructor in English
B.A. 1951, Syracuse; M.A. 1958, Hawaii

Gustuson, Donald I., Assistant Professor of Health and Physical Education
B.A. 1934, Whittier College; M.Ed. 1950, Hawaii; Ed.D. 1954, California at Los Angeles (on leave first semester)

Haehnlen, Frederick P., Jr., Instructor in Education
B.A. 1949, Gettysburg College; M.Ed. 1955, Western Maryland College

Haertig, Elmer W., Lecturer in Nursing and Social Work
M.D. 1939, Chicago

Hamilton, Richard A., Associate Professor of Agriculture
B.S. 1937, North Dakota Agricultural College; M.S. 1940, Ohio State; Ph.D. 1953, Minnesota

Handley, Katharine N. (Mrs.), Professor of Social Work
B.A. 1923, Pomona; M.A. 1928, Stanford; M.S.W. 1942, Southern California
Hardy, D. Elmo, Professor of Entomology
B.A. 1937, Brigham Young; Ph.D. 1941, Kansas

Harloe, Bartley M., Professor of Engineering and Mathematics and Director, Advanced Management Program
B.S. 1917, United States Military Academy; C.E. 1922, Rensselaer

Hayes, Eloise D. (Mrs.), Assistant Professor of Education
B.Ed. 1939, State Teachers College, St. Cloud, Minnesota; M.A. 1951, Ph.D. 1953, North Carolina

Hazama, Dorothy O. (Mrs. Richard), Instructor in Education
B.Ed. 1952, Hawaii; M.A. 1955, New York

Heffner, Hubert C., Carnegie Visiting Professor of Drama and Theatre
B.A. 1921, M.A. 1922, North Carolina (second semester only)

Heiser, Merrill F., Associate Professor of English
B.A. 1934, M.A. 1935, Oberlin; Ph.D. 1947, Wisconsin

Henderson, Dorothy I., Instructor in Home Economics
B.S. 1944, Georgia State College for Women; M.S. 1951, Tennessee

Hendrickson, Albert W., Lecturer in Business
B.S. 1930, M.A. 1941, Pennsylvania (second semester only)

Herrick, Colin J., Professor of Psychology
B.A. 1924, Haverford College; M.A. 1934, Ph.D. 1939, Pennsylvania

Hertlein, Fred, Lecturer in Physics
B.S. 1956, Nevada (second semester only)

Hervey, Wesley D., Instructor in Speech
B.A. 1949, California; M.A. 1951, Hawaii

Hiatt, Robert W., Senior Professor of Zoology
B.A. 1936, San Jose State College; Ph.D. 1941, California (on leave 1957-58)

Hines, Colonel John B. R., Professor of Military Science
B.S. 1937, United States Military Academy

Hiratzka, Amy, Instructor in Education
B.S. 1945, Utah; M.A. 1949, Columbia

Hirschy, Ira D., Lecturer in Nursing
B.S. 1927, Jamestown College; M.A. 1929, M.D. 1933, M.P.H. 1942, Michigan (first semester only)

Hiu, Dawes N., Instructor in Chemistry
B.A. 1950, Southern California

Holmes, Wallace E., Assistant Professor of Agriculture
B.S. 1952, North Dakota Agricultural College; M.S. 1954, Ph.D. 1955, Wisconsin

Holmes, Wilfred J., Senior Professor of Engineering and Mathematics
B.S. 1922, United States Naval Academy; M.S. 1929, Columbia (on leave first semester)

Horan, Claude F., Professor of Art
B.A. 1942, San Jose State College; M.A. 1946, Ohio State

Hormann, Bernhard L., Professor of Sociology
B.A. 1927, M.A. 1931, Hawaii; Ph.D. 1949, Chicago

Hoshor, John P., Associate Professor of Speech
B.A. 1938, M.A. 1940, University of Washington; Ph.D. 1947, Iowa (on leave second semester)
Howard, Francis J., *Assistant Professor of Physics*
B.A. 1944, California at Los Angeles; M.S. 1950, California

Hsiao, Sidney C., *Associate Professor of Zoology*
B.A. 1928, Shanghai; M.A. 1933, Yenching; Ph.D. 1938, Harvard

Hughes, Captain Leonard A., Jr., *Assistant Professor of Air Science*
B.A. 1947, College of the Pacific

Hulten, John J., *Lecturer in Business*
(Second semester only)

Hunt, Lieutenant Colonel Robert F., *Associate Professor of Air Science*
B.S. 1936, Norwich

Hunter, Charles H., *Professor of History*
B.A. 1927, M.A. 1928, Ph.D. 1935, Stanford

Huntsberry, William E., *Assistant Professor of English*
B.A. 1942, Michigan State Normal College; M.A. 1949, Hawaii

Ige, Thomas H., *Associate Professor of Economics and Business*
B.A. 1940, Hawaii; M.A. 1942, Ph.D. 1950, Wisconsin

Ihrig, Judson L., *Assistant Professor of Chemistry*
B.S. 1949, Haverford College; M.A. 1951, Ph.D. 1952, Princeton

Ikeda, Hiroko, *Assistant Professor of Japanese*
B.A. 1936, Women's Christian College of Japan; Ph.D. 1956, Indiana

In, Andrew W. S., *Assistant Professor of Education and Acting Principal, High School*
B.Ed. 1941, Hawaii; M.A. 1949, Ph.D. 1951, New York

Inn, Agnes M. S., *Assistant Professor of Education*
B.Ed. 1940, Hawaii; M.A. 1952, New York

Inouye, Frank T., *Associate Professor of History*
B.A. 1945, M.A. 1946, Cincinnati; Ph.D. 1951, Southern California (on leave second semester)

Inouye, Margaret A. (Mrs. Daniel K.), *Instructor in Education*
B.Ed. 1946, Hawaii; M.A. 1947, Columbia

Iwanaga, Isaac I., *Instructor in Agriculture*
B.S. 1928, Hawaii

Iwanaga, Richard R., *Assistant Professor of Engineering*
B.S. 1942, M.S. 1944, Illinois

Jambor, Harold A., *Associate Professor of Social Work*
B.A. 1935, Reed College; M.A. 1939, Chicago

Jay, Robert R., *Assistant Professor of Anthropology*
B.A. 1949, M.A. 1953, Ph.D. 1957, Harvard

Jenkins, Esther C. (Mrs.), *Assistant Professor of Education*
B.A. 1931, Alderson-Broaddus College; M.A. 1947, Ohio State

Jenkins, Rose C. (Mrs. Lucius F.), *Assistant in Education*
R.N. 1933, Queen's Hospital School of Nursing

Jenson, Clara A., *Assistant Professor of European Languages*
B.A. 1926, M.A. 1927, Wisconsin

Johnson, Donald D., *Associate Professor of History*
B.A. 1938, California at Los Angeles; M.A. 1941, Ph.D. 1946, Southern California (on leave first semester)
Johnson, Harriet L., Instructor in Education
B.S. 1938, M.A. 1948, Ohio State (on leave first semester)

Jones, Virginia A., Professor of Nursing
R.N. 1920, Reid Memorial Hospital School of Nursing; B.S. 1933, Indiana; M.Ed. 1944, Hawaii (on leave first semester)

Kagawa, Grace O. (Mrs. Nelson), Lecturer in Medical Technology
B.A. 1941, Kansas

Kagehiro, George K., Instructor in Education
B.Ed. 1951, Hawaii

Kahananui, Dorothy M. (Mrs.), Assistant Professor of Music
B.S. 1931, New York; M.Ed. 1936, Hawaii

Kalish, Richard A., Assistant Professor of Psychology
B.A. 1951, Antioch; M.A. 1953, Maryland; Ph.D. 1957, Western Reserve

Kanemoto, Haruyuki, Associate Professor of Agriculture
B.S. 1944, M.S. 1947, Hawaii; Ph.D. 1950, Cornell

Kamins, Robert M., Professor of Economics
B.A. 1940, M.A. 1948, Ph.D. 1950, Chicago

Kanehiro, Yoshinori, Assistant Professor of Agriculture
B.S. 1942, M.S. 1948, Hawaii

Kanemitsu, Daniel Y., Instructor in English (Hilo Branch)
B.A. 1948, Hawaii; M.A. 1952, Columbia

Kay, Elizabeth A., Assistant Professor of Science
B.A. 1950, M.A. 1956, Mills College; B.A. 1952, Cambridge; Ph.D. 1957, Hawaii

Keala, Samuel A., Lecturer in Hawaiian

Keeler, Joseph T., Assistant Professor of Agriculture
B.S. 1951, California; M.S. 1953, Illinois

Keller, Homer T., Lecturer in Music
B.M. 1937, M.M. 1938, Eastman School of Music

Keller, Robert J., Carnegie Visiting Professor of Education
B.Ed. 1937, State Teachers College, Winona, Minnesota; M.A. 1940, Ph.D. 1947, Minnesota (first semester only)

Kentzler, Ruth P., Assistant Professor of Speech
B.A. 1917, M.A. 1926, Wisconsin

Kerr, Marian, Lecturer in Music
B.M. 1929, M.M. 1949, Oberlin

Kimura, Sueko M. (Mrs. Keichi), Assistant Professor of Art
B.A. 1936, Hawaii

Kinch, Donald M., Professor of Agriculture
B.S. 1938, Nebraska; M.S. 1940, Minnesota; Ph.D. 1953, Michigan State

Kingrey, Kenneth G., Associate Professor of Art
B.Ed. 1940, M.A. 1942, California at Los Angeles

Kinney, Rubellite K., Lecturer in Hawaiian
B.A. 1954, Hawaii

Kirkpatrick, Arthur L., Assistant Professor of Economics
Klineberg, Otto, Carnegie Visiting Professor of Psychology  
B.A. 1919, M.D. 1925, McGill University; M.A. 1920, Harvard; Ph.D. 1927, Columbia (second semester only)

Knowlton, Edgar C., Assistant Professor of European Languages  
B.A. 1941, M.A. 1942, Harvard

Koga, Yoshi H. (Mrs. Kenneth K.), Instructor in Dental Hygiene  
B.Ed. 1951, Hawaii; M.A. 1953, Columbia

Korn, Alfonso L., Associate Professor of English  
B.A. 1927, Oregon; B.A. 1930, Oxford; M.A. 1937, California (on leave first semester)

Kosaki, Richard H., Assistant Professor of Government  
B.A. 1949, Hawaii; M.A. 1952, Ph.D. 1956, Minnesota

Koshi, James H., Associate Professor of Agriculture  
B.S. 1948, Colorado State; Ph.D. 1955, Minnesota

Krivoy, Glade A. (Mrs. Harold L.), Instructor in English  
B.A. 1943, Utah

Krock, Betty T., Instructor in Home Economics and Assistant Food Supervisor  
B.S. 1946, Ursuline College

Kueffer, Ruth E., Instructor in Education and Home Economics  
B.A. 1927, Santa Barbara State College

Kushi, Masanori, Lecturer in Business (Hilo Branch)  
B.A. 1952, LL.B. 1953, Michigan

Lambert, Ronald T., Instructor in Education  
B.S. 1950, M.A. 1956, Minnesota

Lampard, William D., Associate Professor of Education  

Lane, Irwin E., Instructor in Botany  
B.S. 1948, Cornell; M.S. 1950, Hawaii

Langhans, Edward A., Assistant Professor of Drama  
B.A. 1948, M.A. 1949, Rochester; M.A. 1951, Hawaii; Ph.D. 1955, Yale

Larm, Edwin, Instructor in Education  
B.Ed. 1950, Hawaii

Larson, Valentine G. (Mrs.), Instructor in Speech  
B.A. 1935, Fresno State College; M.A. 1942, Southern California

Lau, Kenneth K., Associate Professor of Business  
B.A. 1938, Hawaii; J.D. 1941, Michigan; LL.M. 1951, Harvard

Lavy, William F., Instructor in Spanish and Music (Hilo Branch)  
B.M. 1928, M.M. 1929, Arrillaga Musical College

Lawrence, Frances M., Assistant Professor of Economics and Business  
B.S. 1942, Michigan State Normal College; M.A. 1945, Michigan

Lee, Bessie B. S., Instructor in Business  
B.B.A. 1955, Hawaii

Lee, Samuel S. O., Instructor in Economics and Business  
B.B.A. 1952, Hawaii
Lee, T. Samuel, *Lecturer in Korean*
B.A. 1940, Parsons College; B.D. 1943, Louisville Presbyterian Seminary

Lefforge, Orland S., *Assistant Professor of Speech*
B.A. 1936, Manchester College; M.A. 1940, Ph.D. 1953, Wisconsin

Leib, Amos P., *Assistant Professor of English*
B.S. 1938, Haverford College; M.A. 1947, Hawaii (on leave 1957–58)

Leong, Cynthia F. (Mrs. Wallace T.), *Lecturer in Mathematics*
B.A. 1950, Hawaii

Leong, Yau Sing, *Professor of Economics*
B.A. 1924, Hawaii; M.A. 1925, Ph.D. 1933, Columbia

Levine, Max, *Research Associate in Bacteriology*
B.S. 1912, Massachusetts Institute of Technology; Ph.D. 1922, Iowa

Lewis, Helen M. (Mrs.), *Instructor in Speech*
B.A. 1926, Stanford; M.A. 1949, Hawaii

Lind, Andrew W., *Senior Professor of Sociology*
B.A. 1924, M.A. 1925, University of Washington; Ph.D. 1931, Chicago

Lindow, Major Rodman E., *Assistant Professor of Military Science*
B.S. 1940, Hawaii

Linn, James R. L., *Instructor in Speech*
B.A. 1949, M.A. 1950, Alberta; M.F.A. 1953, Hawaii

Livesay, Thayne M., *Senior Professor of Psychology and Editor, University Catalogue*
B.A. 1917, Pacific University; M.A. 1921, Ph.D. 1931, University of Washington

Louis, Edith L. (Mrs. James L.), *Instructor in Education*
B.A. 1931, M.Ed. 1940, Hawaii

Lowers, James K., *Associate Professor of English*
B.A. 1935, M.A. 1937, Ph.D. 1950, California at Los Angeles (on leave second semester)

Lucas, Broder F., *Lecturer in Economics*
B.S. 1923, Cornell; M.S.A. 1930, Tennessee

Luke, Kan Jung, *Lecturer in Business*
B.A. 1936, Hawaii; M.B.A. 1937, Harvard

Lum, Cheong, *Instructor in Education*
B.Ed. 1952, Hawaii (on leave 1957-58)

Lum, Lillian A. (Mrs. Hung C.), *Instructor in Education*
B.A. 1935, Hawaii

Lum, Mabel K. M., *Instructor in Education*
B.A. 1954, M.A. 1957, Hawaii

Lum, Walter B. S., *Lecturer in Engineering*
B.S. 1945, Purdue

Luomala, Katharine, *Professor of Anthropology*
B.A. 1931, M.A. 1933, Ph.D. 1936, California

Macdonald, Gordon A., *Senior Professor of Geology and Geophysics*
B.A. 1933, M.A. 1934, California at Los Angeles; Ph.D. 1938, California

Manchester, Curtis A., *Professor of Geography*
Maney, Florence A. (Mrs. J. H.), Instructor in English  
B.A. 1947, M.A. 1951, Hawaii

Marder, Arthur J., Professor of History  
B.A. 1931, M.A. 1932, Ph.D. 1936, Harvard (on leave second semester)

Mark, Shelley M., Associate Professor of Economics  
B.A. 1943, Ph.D. 1956, University of Washington; M.S. 1944, Columbia

Martin, Robert M., Associate Professor of Education  
B.S. 1937, Linfield College; M.A. 1946, Ph.D. 1949, University of Washington  
(on leave 1957–58)

Mason, Leonard E., Professor of Anthropology  
B.A. 1935, M.A. 1941, Minnesota; Ph.D. 1955, Yale

Matsuda, Fujio, Associate Professor of Engineering  
B.S. 1949, Rose Polytechnic Institute; M.S. 1951, Ph.D. 1952, Massachusetts Institute of Technology

Matsumoto, Joyce A., Assistant in Economics and Business  

Matthews, Donald C., Professor of Zoology  
B.A. 1931, Ph.D. 1935, Wisconsin

McCabe, Sumie F. (Mrs. Thomas J.), Instructor in Speech  
B.Ed. 1942, M.A. 1949, Hawaii

McCarthy, Harold E., Associate Professor of Philosophy  
B.A. 1937, M.A. 1942, Ph.D. 1947, California

McCloskey, Mary J., Instructor in Home Economics and Assistant Food Supervisor  
B.S. 1947, Seattle University

McGuire, Donald C., Associate Professor of Agriculture  
B.S. 1947, University of Washington; Ph.D. 1950, California

McIntosh, Thelma A. (Mrs. Edward L.), Assistant Professor of Education  

McVay, Harue O. (Mrs. Wade H., Jr.), Instructor in Art  
B.A. 1950, Hawaii; M.A. 1951, Ohio State

Meller, Norman, Professor of Government  
LL.B. 1936, B.A. 1942, California; M.A. 1951, Ph.D. 1955, Chicago

Merritt, Fred C., Associate Professor of Social Work  
B.A. 1941, Montana; M.S.W. 1949, Denver

Meyer, George A., Associate Professor of Education  
B.S. 1926, Washington State; M.A. 1948, Ph.D. 1950, University of Washington

Meyer, Margaret M. (Mrs. Richard E.), Instructor in Mathematics  
B.S. 1918, M.A. 1923, Arizona

Miller, Carey D., Professor of Home Economics  
B.A. 1917, California; M.S. 1922, Columbia

Miller, Virginia N. (Mrs. Kleber R.), Instructor in English  
B.A. 1934, San Diego State College; M.S.S.A. 1938, Western Reserve

Mitchell, John B., Instructor in English  
B.A. 1952, Stanford; M.A. 1956, Claremont Men’s College

Mitsuda, Tetsuichi, Assistant Professor of Engineering  
B.S. 1949, Rose Polytechnic Institute; M.S. 1952, Illinois
Miyake, Iwao, *Professor of Physics*
B.S. 1926, M.S. 1929, Hawaii

Miyake, James S., *Assistant Professor of Sociology*
B.S. 1949, M.Ed. 1950, Springfield College

Moomaw, James C., *Assistant Professor of Agriculture*
B.A. 1949, Carleton College; M.S. 1951, Idaho; Ph.D. 1957, Washington State

Moore, Charles A., *Senior Professor of Philosophy*
B.A. 1926, Ph.D. 1932, Yale

Morris, Thomas G., *Assistant Professor of Bacteriology*
B.S. 1950, M.S. 1952, Wisconsin

Moseley, Roger L., *Assistant Professor of Economics and Business* (Hilo Branch)
B.A. 1951, University of Washington; M.B.A. 1955, Harvard

Mueller, Bertha, *Professor of European Languages*
B.A. 1926, Northwestern; M.A. 1929, Ph.D. 1933, Wisconsin

Mundy, Millard C., *Instructor in Music*
B.M. 1943, College of the Pacific

Murai, Mary M., *Assistant Professor of Home Economics*
B.A. 1934, M.S. 1930, California

Murphy, Thomas D., *Professor of History*
B.A. 1933, M.A. 1934, Wesleyan; Ph.D. 1939, Yale (on leave second semester)

Nagley, Winfield E., *Associate Professor of Philosophy*
B.A. 1940, Ph.D. 1947, Southern California; B.D. 1943, San Francisco Theological Seminary
(on leave first semester)

Nakamura, Rose S. (Mrs. Paul), *Instructor in Health and Physical Education*
(Hilo Branch)
B.S. 1950, Hawaii

Nakasone, Henry Y., *Instructor in Agriculture*
B.A. 1943, M.S. 1952, Hawaii (on leave 1957–58)

Nakayama, Toshio, *Lecturer in Physics*
B.S. 1954, M.S. 1957, University of Kyoto

Namba, Ryoji, *Assistant Professor of Entomology*
B.S. 1948, M.S. 1950, Michigan State; Ph.D. 1953, Minnesota

Naughton, John J., *Professor of Chemistry*
B.S. 1956, College of the City of New York; M.S. 1940, Ph.D. 1942, New York

Nelson, Torlef, *Assistant Professor of Education*
B.S. 1942, M.S. 1947, Oregon; Ed.D. 1952, University of Washington

Newcomer, Lloyd R., *Assistant Professor of Speech*
B.A. 1935, Wyoming; M.A. 1941, Southern California

Newton, Olive C. (Mrs. George S.), *Instructor in English*
B.A. 1931, Adrian College; M.A. 1942, Ohio State

Nick, Master Sergeant John, *Instructor in Military Science*

Nightingale, Gladys G. (Mrs. Gordon T.), *Assistant Professor of Education*
B.S. 1941, M.S. 1943, California

Niimoto, Dorothy H., *Assistant Professor of Botany*
B.A. 1950, M.S. 1951, Hawaii; Ph.D. 1957, Cornell
Norris, Ben, Professor of Art  
B.A. 1931, Pomona

O'Brien, Ethel M., Assistant Professor of Education  
B.A. 1937, California; M.Ed. 1950, Hawaii

Okazaki, Myra-Jo U., Instructor in Psychology  
B.A. 1935, Hawaii; M.A. 1937, Pennsylvania

Otagaki, Kenneth K., Assistant Professor of Agriculture  
B.S. 1940, Hawaii; M.S. 1946, Iowa State; Ph.D. 1954, California

Otomo, Aiko, Instructor in Education  
B.Ed. 1947, Hawaii; M.A. 1956, New York

Ouchi, Shizuko (Mrs. Sugao), Instructor in Education  
B.A. 1934, Hawaii

Ozaki, Flora T. (Mrs. Tetsuo), Instructor in Nursing  
B.S. 1948, Hawaii; M.A. 1954, Columbia

Pavlantos, Ruth A. (Mrs. Spyro G.), Assistant Professor of Classics  
B.A. 1944, College of Wooster; M.A. 1947, Ph.D. 1951, Cincinnati

Pendleton, Edwin C., Associate Professor of Economics and Business  
B.S. 1932, M.S. 1934, Ph.D. 1950, California

Peterson, Hazel E., Associate Professor of Music  
B.Lit. 1932, Douglas College; M.A. 1942, Columbia (on exchange second semester from Bradley University)

Philipp, Perry F., Associate Professor of Agriculture  
B.S. 1940, Ph.D. 1951, California

Pierson, Kathleen W. (Mrs. Roger J.), Assistant Professor of Business  
B.A. 1934, California at Los Angeles; M.A. 1948, Hawaii (on leave first semester)

Piianaia, Abraham, Lecturer in Geography  
B.A. 1933, Hawaii

Plunkett, Mary A., Associate Professor of Chemistry  
B.A. 1941, Lynchburg College; M.A. 1943, Vassar; Ph.D. 1947, Iowa State (on exchange 1957-58 from Vassar)

Poling, Airman First Class Richard B., Instructor in Air Science

Poole, Charles F., Professor of Agriculture  
B.S. 1920, M.S. 1926, Hawaii; Ph.D. 1930, California

Porter, M. Rosemonde, Professor of Education  
B.S. 1930, M.A. 1934, Ph.D. 1938, Ohio State (on leave second semester)

Prescott, Stanley L., Lecturer in Business  
B.S. 1922, M.S. 1923, Utah State; Ph.D. 1936, Santo Tomas (second semester only)

Ramage, Colin S., Professor of Geology and Geophysics  
B.S. 1940, Victoria University College, New Zealand

Ramsey, Samuel G., Instructor in Economics and Business  
B.B.A. 1953, M.B.A. 1954, West Texas State College

Rathburn, Ione J., Instructor in Health and Physical Education  
B.Ed. 1948, Hawaii; M.P.H. 1949, Minnesota

Reddin, Mary E., Instructor in Education  
B.A. 1939, National College of Education; M.A. 1943, Northwestern
Reed, Helen C., Instructor in Education
  B.Ed. 1931, National College of Education; M.A. 1947, Columbia

Rian, Esther I. (Mrs. Norman D.), Lecturer in English
  B.A. 1936, St. Olaf College (second semester only)

Rian, Norman D., Professor of Music
  B.A. 1935, St. Olaf College; M.A. 1939, Eastman School of Music

Riffenburgh, Robert H., Assistant Professor of Mathematics
  B.S. 1951, M.S. 1953, William and Mary; Ph.D. 1957, Virginia Polytechnic Institute

Ritter, Gene, Instructor in Speech (Hilo Branch)
  B.A. 1950, William Jewell College; M.A. 1956, Missouri

Roberts, Harold S., Senior Professor of Business and Economics
  B.S.S. 1934, College of the City of New York; M.A. 1938, Ph.D. 1944, Columbia

Robinson, Hester A., Associate Professor of Art
  B.A. 1931, Miami University; M.A. 1939, Ohio State

Rogan, Major Clyde H., Assistant Professor of Air Science
  B.S. 1929, Springfield College; M.A. 1933, Ph.D. 1942, Missouri

Rosenberg, Morton M., Professor of Agriculture
  B.S. 1938, Rutgers; M.S. 1940, Texas Agricultural and Mechanical College; Ph.D. 1948, Wisconsin

Ross, Ernest, Assistant Professor of Agriculture
  B.S. 1946, Arizona; M.S. 1952, Ph.D. 1955, Ohio State

Roth, Maybelle F. (Mrs.), Instructor in European Languages
  B.S. 1921, Oregon State; B.A. 1933, California; M.Ed. 1936, Hawaii

Rowe, Chandler W., Research Associate in Anthropology
  B.A. 1939, Beloit College; M.A. 1947, Ph.D. 1951, Chicago

Saake, Alvin C., Associate Professor of Health and Physical Education

Saigo, Yoshito, Lecturer in Japanese (Hilo Branch)
  B.A. 1931, Hawaii

St. Denis, Naomi K. (Mrs.), Instructor in Education
  B.A. 1932, Iowa

St. John, Harold, Wilder Professor of Botany
  B.A. 1914, M.A. 1915, Ph.D. 1917, Harvard

Sakai, Hester K., Junior Supervisor (General Studies)
  B.B.A. 1953, M.B.A. 1954, Hawaii

Sakamaki, Shunzo, Professor of History
  B.A. 1927, M.A. 1928, Hawaii; Ph.D. 1939, Columbia

Sakamoto, Soichi, Assistant Professor of Health and Physical Education
  B.Ed. 1948, Hawaii

Sakata, Ruth M. (Mrs. Naoki), Instructor in Education
  B.Ed. 1951, Hawaii; M.Ed. 1952, Pennsylvania State

Sample, Robert C., Lecturer in Dental Hygiene
  D.D.S. 1938, Kansas City-Western Dental College (first semester only)

Sanner, Richard L., Instructor in Education
  B.S. 1949, Iowa State; M.A. 1953, Iowa
Sato, Jessie J. (Mrs. Shigeji), Instructor in Education and in Home Economics  
B.S. 1944, Hawaii; M.A. 1950, Columbia (on leave 1957-58)

Saunders, Allan F., Professor of Government  
B.A. 1918, Amherst; M.A. 1920, Ph.D. 1927, Wisconsin

Scheuer, Paul J., Associate Professor of Chemistry  
B.S. 1943, northeastern University; M.A. 1947, Ph.D. 1950, Harvard

Schmidt, Amelia L., Instructor in Nursing  
B.A. 1949, Bluffton College; M.S. 1952, Western Reserve

Schmutz, Norma, Instructor in Speech  
B.S. 1947, Utah; M.A. 1956, Minnesota (on leave second semester)

Schuman, Robert C., Instructor in Education  
B.F.A. 1950, Pratt Institute

Scott, Frank S., Associate Professor of Agriculture  
B.S. 1943, Oregon State; M.A. 1947, Missouri; Ph.D. 1953, Illinois

Scott, Robert L., Instructor in English  
B.S. 1950, Willamette; M.A. 1953, Hawaii

Scully, Niall M., Lecturer in Nursing  
B.S. 1943, Dayton; M.D. 1947, St. Louis

Serbousek, Maynard O., Instructor in Engineering  
B.S. 1952, Oregon State; M.S. 1956, Minnesota

Shade, Master Sergeant William W., Instructor in Military Science

Sherman, Benjamin A., Lecturer in Dental Hygiene  
B.S. 1942, California; D.D.S. 1950, Southern California (first semester only)

Sherman, G. Donald, Senior Professor of Agriculture  
B.S. 1933, M.S. 1937, Minnesota; Ph.D. 1940, Michigan State

Sherman, Martin, Associate Professor of Entomology  
B.S. 1941, M.S. 1942, Rutgers; Ph.D. 1948, Cornell

Shinoda, Minoru, Assistant Professor of History  
B.A. 1937, Hawaii; Ph.D. 1957, Columbia

Shoji, Kobe, Associate Professor of Agriculture  
B.A. 1947, Pomona; Ph.D. 1950, California at Los Angeles

Sigler, Harriet K. (Mrs. Wallace R.), Instructor in Education  
B.A. 1951, Pacific University

Simerson, Master Sergeant John C., Instructor in Military Science

Sinclair, Marjorie P. (Mrs. Gregg M.), Instructor in English  
B.A. 1935, M.A. 1937, Mills College

Singer, Elisabeth B. (Mrs. Allen O.), Instructor in European Languages  
B.A. 1953, Hawaii

Singleton, Vernon L., Associate Professor of Chemistry  
B.S. 1947, M.S. 1949, Ph.D. 1951, Purdue

Siu, James K. M., Instructor in Mathematics  
B.A. 1953, Hawaii

Slate, Daniel M., Assistant Professor of Economics and Business  
B.S. 1952, M.A. 1956, University of Washington
Smith, Barbara B., Associate Professor of Music  
B.A. 1942, Pomona; M.M. 1943, Eastman School of Music  

Smith, Captain Donald R., Assistant Professor of Air Science  
B.A. 1941, St. Bonaventure University  

Smith, Elbert G., Associate Professor of Chemistry  
B.A. 1936, Oregon State; Ph.D. 1943, Iowa State  

Smith, Elsie R. (Mrs. W. Wayne), Assistant Professor of Nursing  
B.S. 1940, M.S. 1942, Idaho  

Smith, Jimmie B., Instructor in Botany  
B.S. 1950, Oklahoma State; M.S. 1952, North Carolina College of Agriculture and Engineering  

Smith, Joseph F., Professor of Speech  
B.A. 1918, Utah; M.A. 1926, Illinois  

Snow, Isabel L., Instructor in Education  
B.A. 1922, Wellesley; M.A. 1927, Columbia (on leave 1957–58)  

Spellacy, Edmund F., Professor of Government  
B.A. 1927, M.A. 1931, Stanford; Ph.D. 1935, Harvard  

Spoehr, Alexander, Research Associate in Anthropology  
B.A. 1934, Ph.D. 1940, Chicago  

Sproul, Major Donald N., Assistant Professor of Military Science  
B.A. 1947, California at Los Angeles  

Stalker, John N., Associate Professor of History  
B.A. 1943, College of Wooster; M.A. 1948, Ph.D. 1950, Wisconsin  

Stasack, Edward A., Instructor in Art  

Stauffer, Robert B., Assistant Professor of Government  
B.S. 1942, State Teachers College, West Chester, Pennsylvania; M.A. 1947, Oklahoma; Ph.D. 1954, Minnesota  

Steed, Louis M., Instructor in Speech  
B.A. 1950, M.A. 1954, Hawaii  

Steiger, Walter R., Assistant Professor of Physics  
B.S. 1948, Massachusetts Institute of Technology; M.S. 1950, Hawaii; Ph.D. 1953, Cincinnati  

Stempel, Daniel, Associate Professor of English  
B.A. 1941, College of the City of New York; M.A. 1942, Ph.D. 1949, Harvard  

Stroven, Carl G., Senior Professor of English  
B.A. 1926, M.A. 1928, Stanford; Ph.D. 1939, Duke  

Stubblefield, Esther M. (Mrs. Charles H.), Coordinator of Public Health Education  
B.S. 1934, Oregon; B.S. 1955, Hawaii  

Stubbs, Darrel W., Assistant Professor of Music  
B.M. 1949, Eastman School of Music; M.M. 1952, Indiana (on leave 1957–58)  

Suedoka, Toshiko I. (Mrs. George H.), Assistant Professor of Education  
B.Ed. 1943, M.Ed. 1948, Hawaii  

Takasaki, Richard S., Lecturer in Social Work  
B.A. 1940, Hawaii; M.A. 1949, Columbia (second semester only)  

Tamashiro, Kimie, Supervisor in Public Health Nursing  
B.S. 1953, Hawaii; M.A. 1954, Columbia
Tanaka, Tokushi, *Instructor in Agriculture*
B.S. 1948, M.S. 1953, Hawaii

Tatsuoka, Maurice M., *Assistant Professor of Science and Mathematics* (Hilo Branch)
B.S. 1945, Nagoya University; M.A. 1951, George Peabody College for Teachers; Ed.D. 1956, Harvard

Teevan, T. Foster, *Instructor in English*
B.A. 1936, College of Puget Sound; M.A. 1949, Ph.D. 1957, University of Washington

Tilden, Irvin L., *Director, Medical Technology Program*
B.S. 1932, M.D. 1935, Nebraska

Tinker, Spencer W., *Assistant Professor of Education*
B.S. 1931, University of Washington; M.S. 1934, Hawaii

Tinniswood, William W., *Professor of Engineering*
B.S. 1938, California; M.S. 1948, Idaho

Tominaga, Henry K., *Instructor in Education*
B.S. 1953, Springfield College; M.S. 1954, Pennsylvania State

Topham, Helen A., *Instructor in English*
B.A. 1935, Rutgers; M.A. 1950, Hawaii

Townes, Stanmore B., *Associate Professor of Mathematics*
B.A. 1921, M.A. 1923, Oklahoma; Ph.D. 1930, Chicago

Townesley, Sidney J., *Assistant Professor of Marine Zoology*
B.A. 1948, California; M.S. 1950, Hawaii; Ph.D. 1954, Yale

Trapido, Joel, *Associate Professor of Drama and Theatre*
B.A. 1935, Ph.D. 1942, Cornell; M.A. 1936, New York

Traut, Gladys M., *Assistant Professor of Education and Principal, Elementary School*
B.A. 1927, Michigan; M.A. 1929, Hawaii

Tull, Christine L. (Mrs.), *Associate Professor of Home Economics*
B.S. 1928, William and Mary; M.A. 1939, New York

Turnbull, Murray, *Associate Professor of Art*
B.F.A. 1941, Nebraska; M.A. 1949, Denver

Tutchill, Leonard D., *Professor of Entomology*
B.A. 1929, M.A. 1930, Kansas; Ph.D. 1941, Iowa State

Tuttle, Daniel W., *Assistant Professor of Government*
B.A. 1945, Illinois College; M.A. 1946, Minnesota

Umbel, Oma, *Associate Professor of Home Economics*
B.S. 1932, West Virginia; M.S. 1933, New York

Uyehara, Yukuo, *Professor of Japanese*
B.A. 1931, M.A. 1936, Hawaii

van der Veur, Paul W. J., *Assistant Professor of Government*
B.A. 1949, Swarthmore; M.A. 1951, Minnesota; Ph.D. 1954, Cornell

van Weel, Pieter B., *Professor of Zoology*
Ph.D. 1937, State University of Utrecht

van't Woudt, Bessel D., *Assistant Professor of Agriculture*
B.S. 1948, M.S. 1949, Victoria University College, New Zealand; Ph.D. 1952, Massey Agricultural College, New Zealand

Vasconcellos, Henry B., *Assistant Professor of Health and Physical Education*
B.A. 1941, San Jose State College
Vaught, Kathryn K. (Mrs. Raymond), Lecturer in Music  
B.S. 1935, Idaho; M.A. 1938, North Carolina

Vaught, Raymond, Assistant Professor of Music  
B.A. 1935, M.A. 1938, Idaho; M.M. 1946, Eastman School of Music

Vinacke, W. Edgar, Professor of Psychology  
B.A. 1939, Cincinnati; Ph.D. 1942, Columbia

Vine, Richard W., Associate Professor of Music  
B.M. 1936, St. Olaf College; M.M. 1938, MacPhail College of Music (on exchange second semester at Bradley University)

Wadsworth, Harold A., Senior Professor of Agriculture  
B.S. 1916, California

Wakayama, Shuku, Instructor in Nursing  
B.S., M.A. 1954, Columbia

Walker, Ernest K., Assistant Professor of Engineering  
B.E. 1952, M.S. 1957, Southern California

Walsh, Letty M., Instructor in Education  
B.A. 1952, Augustana College (second semester only)

Walsh, Winifred A., Associate Professor of Social Work  
B.A. 1936, Nevada; M.A. 1943, Chicago

Walter, Don C., Assistant Professor of Music  

Warsh, Louis P., Assistant Professor of History and Government (Hilo Branch)  
B.A. 1947, California (Santa Barbara); M.A. 1950, California

Watanabe, Kenichi, Professor of Physics  
B.S. 1936, Ph.D. 1940, California Institute of Technology

Waugh, John L. T., Associate Professor of Chemistry  
B.S. 1943, Ph.D. 1949, University of Glasgow

Wayman, Oliver, Professor of Agriculture  
B.S. 1947, Utah State; Ph.D. 1951, Cornell

Weaver, Herbert B., Professor of Psychology  
B.A. 1933, M.A. 1934, Ph.D. 1942, Pennsylvania

White, Bruce E., Senior Professor of Education  
B.A. 1923, Willamette; M.A. 1932, Ph.D. 1935, University of Washington

White, Grace F. (Mrs. Bruce E.), Instructor in Mathematics  
B.A. 1923, Willamette

White, John A., Professor of History  
B.A. 1933, California; M.A. 1940, Columbia; Ph.D. 1947, Stanford

Williams, Robin M., Jr., Carnegie Visiting Professor of Sociology  
B.S. 1933, M.S. 1935, North Carolina State; M.A. 1939, Ph.D. 1943, Harvard (second semester only)

Wilson, Talmadge G., Instructor in English  
B.A. 1948, Pomona; M.A. 1951, Claremont Graduate School

Wilson, Willard, Senior Professor of English  
B.A. 1929, Occidental College; M.A. 1936, Columbia; Ph.D. 1939, Southern California

Wimer, Benjamin R., Lecturer in Engineering  
B.S. 1929, United States Military Academy; B.S. in C.E. 1932, California (second semester only)
Winters, Lee E., Jr., Assistant Professor of English
B.A. 1947, Michigan; M.A. 1952, Ph.D. 1956, California

Wiswell, Ella L. (Mrs. Frederick J.), Assistant Professor of European Languages
Diploma 1951, Paris; B.A. 1941, Hawaii (on leave first semester)

Wolfe, Cynthia L. (Mrs. David D.), Assistant Professor of Nursing
B.S. 1950, M.A. 1951, Washington State

Wong, Carolina D. (Mrs. Ronald H. L.), University Physician
M.D. 1941, University of Santo Tomas

Wong, Helene H., Assistant Professor of Speech
B.A. 1942, M.A. 1947, Stanford; Ph.D. 1955, Louisiana State

Wong, Ruth E. M. (Mrs. Arthur K. Y.), Instructor in Education
B.Ed. 1948, Hawaii

Wood, Technical Sergeant Richard E., Jr., Instructor in Air Science

Wood, William P., Instructor in Health and Physical Education and English
(Hilo Branch)
B.S. 1950, Vermont

Wright, Master Sergeant Ephraim O., Instructor in Air Science

Wright, Joyce M., Assistant Professor of Library Science
B.A. 1938 (French), B.A. 1939 (Librarianship), University of Washington

Wyatt, Janet W. (Mrs. Clarence), Lecturer in English
B.A. 1939, B.S. 1941, New York State College for Teachers (second semester only)

Yamamoto, George K., Instructor in Sociology
B.A. 1947, M.A. 1949, Hawaii

Yamamura, Douglas S., Associate Professor of Sociology
B.Ed. 1938, M.Ed. 1941, Hawaii; Ph.D. 1949, University of Washington

Yamashita, Pearl N. (Mrs. Paul T.), Instructor in Education
B.Ed. 1942, Hawaii; M.A. 1948, Iowa (first semester only)

Yamauchi, Hiroshi, Assistant Professor of Mathematics
B.S. 1947, Hawaii; M.A. 1948, Ph.D. 1950, Harvard

Yang, Sarah L. (Mrs. Jay Y.), Assistant Professor of Education
B.A. 1951, Colorado State College of Education; M.Ed. 1952, Hawaii

Yarberry, Rodney B., Instructor in English (Hilo Branch)
B.A. 1950, Western State College of Colorado; M.A. 1951, Arizona

Young, Clifford F., Lecturer in Engineering (Architecture)
B.Arch. 1948, Michigan; M.Arch. 1949, Massachusetts Institute of Technology

Young, Master Sergeant Harold S., Instructor in Military Science

Younge, Otto R., Professor of Agriculture
B.S. 1924, M.S. 1929, Alberta; Ph.D. 1934, Minnesota

Zaloha, Anne B., Associate Professor of Social Work
Ph.B. 1925, Chicago; M.A. 1930, Northwestern

Zeitlin, Harry, Assistant Professor of Chemistry
B.A. 1937, Harvard; M.S. 1948, Ph.D. 1951, Hawaii
Hawaii Agricultural Experiment Station

Adachi, Marian S., Assistant in Fisheries Research
B.A. 1951, Hawaii

Adamson, Lucile F., Assistant Nutritionist
B.S. 1948, Kansas State; M.S. 1950, Iowa; Ph.D. 1956, California

Akamine, Ernest K., Assistant Plant Physiologist
B.S. 1935, M.S. 1941, Hawaii

Alicata, Joseph E., Parasitologist
B.A. 1927, Grand Island College; M.A. 1928, Northwestern; Ph.D. 1934, George Washington

Aragaki, Minoru, Junior Plant Pathologist
B.S. 1950, M.S. 1954, Hawaii

Awada, Minoru, Junior Plant Physiologist
B.S. 1938, M.S. 1949, Hawaii

Awai, Donald, Assistant in Entomology
B.S. 1952, Michigan State

*Bess, Henry A., Senior Entomologist

Blomberg, Norman E., Assistant in Soil Science
B.S. 1956, California

Bowers, Francis A., Junior Horticulturist
B.S. 1924, Hawaii

Boyle, W. Wayne, Assistant Entomologist
B.S. 1949, Arizona; Ph.D. 1954, Cornell

*Britten, Edward J., Associate Agronomist

Calhoun, Wendell, Agricultural Economist
B.S. 1916, Colorado State; M.S. 1926, American University

Clements, Harry F., Senior Plant Physiologist
B.S. 1924, M.S. 1925, Wisconsin; Ph.D. 1929, Chicago

Cobb, Estel H., Assistant Animal Scientist
B.S. 1948, Oklahoma State; M.S. 1952, Ph.D. 1958, Iowa State

*Coool, Bruce J., Plant Physiologist

Fujimoto, Giichi, Assistant Chemist
B.S. 1921, M.S. 1923, Hawaii

Fukunaga, Edward T., Associate Agriculturist
B.S. 1934, M.S. 1935, Hawaii (on leave first semester)

*Gilbert, James C., Assistant Olericulturist

*Goto, Shosuke, Assistant Plant Pathologist

*Hamilton, Richard A., Associate Horticulturist

Haramoto, Frank H., Junior Entomologist
B.S. 1949, M.S. 1953, Hawaii

*Hardy, D. Elmo, Entomologist

*Holmes, Wallace E., Assistant Soil Scientist

*Degrees listed under "Instruction."
Holtzmann, Oliver V., Assistant Plant Pathologist
B.S. 1950, M.S. 1952, Colorado State; Ph.D. 1955, Washington State

Ikawa, Haruyoshi, Junior Soil Scientist
B.S. 1951, M.S. 1956, Hawaii

Ishii, Mamoru, Assistant Plant Pathologist
B.S. 1947, Hawaii; Ph.D. 1953, California

*Iwanaga, Isaac I., Junior Animal Scientist

*Kamemoto, Haruyuki, Associate Horticulturist

*Kanehiro, Yoshinori, Assistant Soil Scientist

Kawano, Yoshihiko, Junior Chemist
B.S. 1943, Nihon University; M.S. 1957, Hawaii

Kee, Florence L., Assistant in Foods and Nutrition
B.A. 1948, Hunter College

*Keeler, Joseph T., Assistant Agricultural Economist

*Kinch, Donald M., Agricultural Engineer

Kondo, Allan K., Assistant in Poultry Science
B.A. 1957, Hawaii

Kosaki, Kazuo, Assistant in Horticulture
B.S. 1957, Hawaii

*Lange, Arthur H., Assistant Horticulturist

Lynch, Lawrence J., Acting Director of Food Processing Laboratory
M.F.S. 1920, University of Sydney; B.S. 1934, University of Queensland

Matsumoto, Hiromu, Assistant Chemist
B.S. 1944, M.S. 1945, Hawaii; Ph.D. 1955, Purdue

Matsusaka, Yoshito, Junior Soil Scientist
B.S. 1930, M.S. 1952, Hawaii

*McGuire, Donald C., Associate Olericulturist

*Miller, Carey D., Nutritionist

Miura, Harvey S., Assistant in Plant Physiology
B.A. 1957, Knox College

*Moomaw, James C., Assistant Agronomist

Morita, Kiyoyiichi, Assistant in Animal Science
B.S. 1953, Hawaii

Muramoto, Lester H., Assistant in Plant Physiology
B.A. 1957, Hawaii

Nakamura, Martha T. (Mrs. Edward H.), Junior Soil Scientist
B.A. 1948, M.S. 1957, Hawaii

Nakamura, Masao, Assistant in Plant Physiology
B.S. 1955, Hawaii (on leave)

*Nakasone, Henry Y., Junior Horticulturist

*Degrees listed under "Instruction."
Nakata, Shigeru, *Junior Plant Physiologist*
B.S. 1946, M.S. 1949, Hawaii (on leave 1957–58)

*Namba, Ryoji, Assistant Entomologist*

Nishida, Toshiyuki, *Assistant Entomologist*
B.S. 1941, M.S. 1947, Hawaii; Ph.D. 1953, California

Noda, Kaoru, *Junior Parasitologist*
B.A. 1950, Grinnell College; M.S. 1953, Ph.D. 1956, Iowa

Nomura, David M., *Assistant in Plant Pathology*
B.A. 1957, Hawaii (on leave second semester)

Nunns, Frederick K., *Director of Land Study Program*
B.S. 1932, North Dakota Agricultural College; M.S. 1934, Washington State; M.S. 1943, Wisconsin

Ota, Asher K., *Assistant in Entomology*
B.S. 1956, Hawaii

*Otagaki, Kenneth K., Assistant Animal Scientist*

Palafox, Anastacio L., *Assistant Poultry Scientist*
B.S. 1940, M.S. 1941, Washington State

Peters, Charles W., *Agricultural Economist*
B.S. 1932, M.S. 1939, Oregon State

*Philipp, Perry F., Associate Agricultural Economist*

*Poole, Charles F., Olericulturist*

*Rosenberg, Morton M., Director*

*Ross, Ernest, Assistant Poultry Scientist*

*Scott, Frank S., Associate Agricultural Economist*

*Sherman, G. Donald, Senior Chemist*

*Sherman, Martin, Associate Entomologist*

Shimabukuro, Paul G., *Assistant in Animal Science*
B.S. 1957, Hawaii

*Shoji, Kobe, Associate Plant Physiologist*

Takahashi, Makoto, *Assistant Agronomist*
B.S. 1928, M.S. 1937, Hawaii

Tamashiro, Minoru, *Assistant Entomologist*
B.S. 1951, M.S. 1954, Hawaii

Tanaka, Jack S., *Assistant in Olericulture*
B.S. 1951, Hawaii

*Tanaka, Tokushi, Junior Poultry Scientist*

Uyeno, Honest H., *Assistant in Agricultural Biochemistry*
B.A. 1955, Hawaii

*van't Woudt, Bessel D., Assistant Agricultural Engineer*

Walker, Mabel A., *Junior Nutritionist*
B.S. 1936, M.S. 1948, Oklahoma State

*Degrees listed under "Instruction."
*Wayman, Oliver, *Animal Scientist*

Wenkam, Nao (Mrs. R.), *Junior Nutritionist*
B.S. 1948, M.S. 1950, Chicago

*Younge, Otto R., *Agronomist*

**Agricultural Extension Service**

Abbott, Robert A., *Assistant Specialist in Agricultural Economics*
B.S. 1948, California; M.S. 1952, Oregon State

Akana, David, *County Agent, Maui*
B.S. 1932, Hawaii; M.S. 1950, California (on leave March to August 1958)

Anderson, Alta M., *County Agent, Molokai*
B.S. 1933, Mary Hardin-Baylor College

Aoki, George M., *Assistant Crop Reporter, East Hawaii*
B.S. 1950, Hawaii

Bates, Sybil D., *Specialist in Home Management and Home Furnishings*
B.S. 1924, Mary Hardin-Baylor College; M.A. 1942, Columbia

*Bice, Charles M., *Specialist in Poultry Husbandry*

Bleck, John R., *County Agent, Molokai*
B.S. 1942, M.S. 1946, Massachusetts

Chong, Wing You, *Assistant County Agent, East Hawaii*
B.S. 1943, California

Christensen, Charles C., *Assistant County Agent, North Hawaii*
B.S. 1956, Idaho

Chun, Edwin Y., *County Agent, South Oahu*
B.S. 1933, Hawaii

Clay, Horace F., *Assistant Specialist in Horticulture*
B.S. 1950, Hawaii; M.S. 1952, Massachusetts (on leave 1957-58)

Crawford, Adeline A., *County Agent, South Oahu*
B.S. 1946, Plattsburgh State Teachers College; M.S. 1950, Alabama

Dean, Elizabeth A., *Assistant County Agent, Maui*
B.S. 1954, Cornell

Doi, M. James, *Assistant County Agent, Maui*
B.S. 1942, Hawaii

Doue, Stephen M., *Junior Specialist in Agricultural Economics*
B.A. 1947, Hawaii

Fujimoto, Frederick W., *Assistant County Agent, Maui*
B.S. 1953, Hawaii

Fukui, Rodney H., *Crop Reporter*
B.S. 1947, Hawaii

Gagner, Alice M. (Mrs.), *County Agent, Kauai*
B.S. (Agriculture) 1924, B.S. (Home Economics) 1935, Montana State

Goodell, Dale N., *Assistant Director and Supervisor of County Agricultural Work*
B.S. 1942, Iowa State; M.S. 1952, Minnesota

*Degrees listed under "Instruction."
*Goto, Y. Baron, *Director*

Hansen, Harry L., *County Agent, East Oahu*
B.S. 1942, Nevada

Harrell, Gertrude P. (Mrs.), *Specialist in Clothing*
B.S. 1927, Georgia State College for Women; M.A. 1949, Columbia

Holley, Frances E., *County Agent, East Hawaii*
B.S. 1938, Alabama College

Honma, Haruo *County Agent, West Oahu*
B.S. 1940, Hawaii; M.Ed. 1951, Colorado State

Hosaka, Edward Y., *Specialist in Agronomy*
B.S. 1931, M.S. 1935, Hawaii

Ishida, Jack T., *Assistant Specialist in Agricultural Economics*
B.A. 1942, M.A. 1947, Hawaii

Ito, Mabel I. (Mrs. George T.), *County Agent, Maui*
B.S. 1941, Hawaii (on leave June to October 1958)

Iwane, John Y., *County Agent, West Hawaii*
B.S. 1940, Hawaii

Kamisato, Jane S., *Assistant County Agent, North Hawaii*
B.S. 1956, Kansas State (on leave April to September 1958)

Kaneshiro, Ethel K., *Assistant County Agent, East Oahu*
B.S. 1954, Hawaii

Kitagawa, Yukio, *Assistant County Agent, West Oahu*
B.S. 1955, Hawaii

Kogachi, Shirley Y., *Assistant County Agent, South Oahu*
B.S. 1954, Hawaii

*Koshi, James H., *Area Specialist in Dairy Science*

Kumabe, Bunki, *County Agent, Kauai*
B.S. 1942, Hawaii; M.S. 1953, Missouri

Landry, Vivian A. (Mrs. G. Hall), *Assistant Supervisor of 4-H Club Work*
B.A. 1948, San Jose State College

Lyman, Clarence, *Specialist in Soil Management*
B.S. 1938, M.S. 1941, Hawaii

MacMillan, Donald N., *Assistant County Agent, Kauai*
B.S. 1956, Clemson

Maruyama, Charles I., *County Agent, East Hawaii*
B.S. 1935, Hawaii

Masumoto, Sachiko, *County Agent, West Hawaii*
B.S. 1949, Hawaii; M.S. 1957, Pennsylvania State

Matsumoto, Dan K., *Assistant County Agent, West Hawaii*
B.S. 1951, Hawaii

Matsumoto, Eleanor A., *Assistant Specialist in Home Economics*
B.S. 1941, Hawaii; M.A. 1953, Columbia

Matsuura, Minoru, *County Agent, North Hawaii*
B.S. 1938, Hawaii

*Degrees listed under “Instruction.”*
Mihata, Keichi, *County Agent, East Oahu*  
B.A. 1935, Hawaii

Motobu, Tatsumi, *Assistant County Agent, East Hawaii*  
B.S. 1951, Hawaii

Nakagawa, Yukio, *Assistant Specialist in Horticulture*  
B.S. 1940, Hawaii

Nakasato, Masaru George, *Assistant County Agent, South Oahu*  
B.S. 1951, Hawaii

Nishiguchi, Adeline T., *Assistant County Agent, East Hawaii*  
B.S. 1954, Hawaii; M.S. 1955, Pennsylvania State

Okagawa, Tomoyuki, *Assistant County Agent, South Oahu*  
B.S. 1954, Hawaii

Okumoto, Ralph H., *County Agent, South Oahu*  
B.S. 1939, Hawaii (on leave 1957–58)

Orr, Kathryn J., *Assistant Specialist in Foods and Nutrition*  
B.S. 1945, California; M.S. 1949, Michigan State (on leave 1957–58)

Ota, Robert M., *County Agent, Honokaa*  
B.S. 1950, Colorado State

Petersen, Don R., *County Agent, West Hawaii*  
B.S. 1952, California

Riley, Merrill K., *County Agent, East Oahu*  
B.S. 1927, Colorado College; M.S. 1929, South Dakota State College

Sato, Sadao, *Assistant Crop Reporter, Kauai*  
B.S. 1954, Missouri

Schafer, Zona L. (Mrs. William P.), *Assistant in Extension*  
B.S. 1951, California

Schwartz, Lillian R. (Mrs.), *County Agent, West Oahu*  
B.S. 1931, Hastings College

Shibuya, Irene T. (Mrs. Fujio), *Assistant County Agent, West Oahu*  
B.S. 1952, Hawaii

Shigeta, Daniel T., *Assistant County Agent, Kula, Maui*  
B.S. 1950, Hawaii

Shigeta, Y. James, *Assistant Specialist in Club Work*  
B.S. 1951, Maryland (on leave 1957–58)

Shirakawa, Takumi, *Assistant County Agent, Naalehu*  
B.S. 1948, Hawaii

Stormont, John L., *Specialist in Club Work*  
B.S. 1928, Illinois; M.Ed. 1954, Cornell

Sumida, Y. Dick, *Crop Reporter*  
B.S. 1936, Hawaii

Takahashi, T. Francis, *Assistant County Agent, Kauai*

Takei, Shiro, *Assistant Specialist in Agricultural Economics*  
B.S. 1938, Hawaii

Takishita, Francis M., *Assistant Crop Reporter, Maui*
Tebo, Fortunato G., Assistant Supervisor in Visual Aids  
B.S. 1927, Hawaii

Ueda, Motoi, Assistant County Agent, East Hawaii  
B.A. 1934, California at Los Angeles

Vollrath, Harvey M., Specialist in Animal Husbandry  
B.S. 1929, Colorado State; M.S. 1948, Minnesota

Wallrabenstein, Paul P., Supervisor of Crop and Livestock Reporting  
B.S. 1931, Ph.D. 1941, Ohio State

Watanabe, Amy Y., Assistant in Extension, Honokaa  
B.S. 1957, Hawaii

Winston, Vivian A., County Agent, South Oahu  
B.S. 1932, Texas State College for Women (on leave March to September 1958)

Yamaguchi, Rokuro, Assistant Specialist in Agricultural Economics  
B.S. 1942, Hawaii; M.S. 1954, Missouri

Yamamoto, Mitsuko, Assistant County Agent, West Oahu  
B.S. 1954, Hawaii

Yamamoto, Sueki, Assistant Crop Reporter  
B.S. 1951, Hawaii

Yee, Warren Y. J., Assistant Specialist in Horticulture  
B.S. 1942, Hawaii

Yonamine, Charles N., Assistant County Agent, West Oahu  
B.S. 1951, California State Polytechnic College

Yoshikane, Mabel T., Assistant County Agent, Maui  
B.S. 1936, Hawaii

Yoshimoto, Stanley H., Assistant Crop Reporter  
B.S. 1957, Hawaii

Office of Student Personnel

*Bitner, Harold M., Dean of Student Personnel

Daniels, Susan G., Director, Bureau of Student Activities  
B.S. 1946, Rhode Island

*Dole, Arthur A., Director, Bureau of Testing and Guidance  
(on leave second semester)

Durkee, Peter E., Counselor  
B.A. 1953, M.A. 1957, Colgate

Hogle, Frances deV. (Mrs.), Head Resident, Frear Hall

Iams, Ruth W. (Mrs. James P.), Counselor, Bureau of Testing and Guidance  
Ph.B. 1933, Chicago; M.A. 1952, Hawaii

Ishimoto, Winifred H., Counselor, ASUH Executive Secretary  
B.A. 1950, M.S.W. 1952, Hawaii

Keeley, Harold J., Head Resident, Johnson Hall  
B.S. 1924, United States Military Academy

*Degrees listed under "Instruction."
Livingston, Mary Lou (Mrs. Gilbert L.), Program Counselor, Hemenway Hall
B.S. 1945, Oklahoma (on leave second semester)

McPherson, Mary Lou (Mrs.), Director, Bureau of Student Residences
B.S. 1933, Kansas State; M.A. 1955, Missouri

*Miyake, James S., Counselor and Foreign Students Adviser

Wery, Katherine H. (Mrs. Clay H.), Counselor, Student Housing and
Part-Time Employment
B.A. 1944, Westhampton College

White, Edward T., Director, Office of Admissions and Records
B.A. 1936, M.A. 1939, Columbia

Will, Caroline F. (Mrs. Richard Y.), Counselor, Bureau of Testing and Guidance
B.A. 1953, Minnesota

Legislative Reference Bureau

Awana, Henry T., Junior Researcher
B.A. 1948, Hawaii; LL.B. 1951, Denver

Holden, Margaret E., Research Librarian
B.S. 1943, M.A. 1945, Wayne; B.L.S. 1948, Chicago

*Kamins, Robert M., Director

*Lau, Kenneth K., Research Associate and Assistant Director

Tanimura, Clinton T., Assistant in Research
B.A. 1951, Hawaii

Walters, Jess H., Assistant Researcher
B.A. 1952, Richmond; M.A. 1953, Emory

Affiliate Graduate Faculty†

Anderson, E. J., Ph.D., Head, Pathology Department
Pineapple Research Institute

Ayres, A. S., Ph.D., Senior Agronomist, Experiment Station
Hawaiian Sugar Planters' Association

Baver, Leonard D., Ph.D, Director, Experiment Station
Hawaiian Sugar Planters' Association

Brock, Vernon E., M.A., Assistant Director
Pacific Oceanic Fishery Investigations

Burr, George O., Ph.D., Head, Department of Physiology and Biochemistry,
Experiment Station
Hawaiian Sugar Planters' Association

Cox, Doak C., M.A., Principal Geophysicist, Experiment Station
Hawaiian Sugar Planters' Association

Cushing, Robert L., M.S., Director
Pineapple Research Institute

*Degrees listed under "Instruction."
†Members of cooperating institutions, and available for service on graduate committees. They do not offer courses at the University.
Darroch, J. G., M.S., Principal Statistician, Experiment Station
Hawaiian Sugar Planters' Association

Dull, Gerald G., Ph.D., Associate Chemist
Pineapple Research Institute

Ekern, Paul C., Ph.D., Associate Soil Physicist
Pineapple Research Institute

Farden, Carl A., B.S., Statistician
Pineapple Research Institute

Gortner, Willis A., Ph.D., Head, Chemistry Department
Pineapple Research Institute

Gowing, Donald P., Ph.D., Plant Physiologist
Pineapple Research Institute

Gressitt, J. Linsley, Ph.D., Entomologist
Bernice P. Bishop Museum

Hanson, Noel S., Ph.D., Senior Agronomist, Experiment Station
Hawaiian Sugar Planters' Association

Hilton, H. Wayne, Ph.D., Principal Organic Chemist, Experiment Station
Hawaiian Sugar Planters' Association

Humbert, R. P., Ph.D., Principal Agronomist, Experiment Station
Hawaiian Sugar Planters' Association

Ito, K., M.S., Associate Entomologist
Pineapple Research Institute

Kerns, Kenneth R., M.S., Plant Breeder
Pineapple Research Institute

King, Joseph, M.S., Fishery Research Biologist
Pacific Oceanic Fishery Investigations

Klemmer, H. W., Ph.D., Associate Pathologist
Pineapple Research Institute

Kondo, Yoshio, Ph.D., Malacologist
Bernice P. Bishop Museum

Krauss, Beatrice, M.S., Associate Plant Physiologist
Pineapple Research Institute

Leeper, Robert W., Ph.D., Organic Chemist
Pineapple Research Institute

Mangelsdorf, A. J., Ph.D., Principal Geneticist, Experiment Station
Hawaiian Sugar Planters' Association

Martin, J. P., M.S., Principal Pathologist, Experiment Station
Hawaiian Sugar Planters' Association

Murphy, Garth, M.A., Director
Pacific Oceanic Fishery Investigations

Payne, John H., Ph.D., Principal Technologist, Experiment Station
Hawaiian Sugar Planters' Association

Sakimura, K., Associate Entomologist
Pineapple Research Institute

Sanford, Wallace G., Ph.D., Head, Agronomy Department and Plant Physiologist
Pineapple Research Institute
Schmidt, Carl T., Ph.D., Entomologist
Pineapple Research Institute

Smith, Donald H., Ph.D., Soil Chemist
Pineapple Research Institute

Spiegelberg, Carl H., Ph.D., Pathologist
Pineapple Research Institute

Warner, John N., Ph.D., Senior Geneticist, Experiment Station
Hawaiian Sugar Planters' Association

Wismer, Chester A., Ph.D., Senior Pathologist, Experiment Station
Hawaiian Sugar Planters' Association

Wortman, Sterling, Ph.D., Plant Breeder and Head, Plant Breeding Department
Pineapple Research Institute

Young, H. Y., M.S., Associate Chemist
Pineapple Research Institute
GENERAL INFORMATION

The University of Hawaii is located in Honolulu, on the island of Oahu. It is three miles from the business center and two miles from Waikiki. Manoa Valley, where the University is situated, is one of the most picturesque sections of the city. The Manoa campus and ten other tracts on the islands of Oahu, Maui, and Hawaii bring the University's landholdings to 710 acres.

The University was established by the territorial legislature in 1907. Although the University did not receive a grant of land such as that provided for state colleges under the Morrill Act of 1862, it is a federal land-grant institution and shares in benefits from the Second Morrill Act of 1890, the Nelson Amendment of 1907, and subsequent legislation. The University receives a major portion of its support from the Territory and bears the same relation to the Territory as state universities to their states.

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. It was located on the grounds now occupied by Linekona School in Honolulu until 1912 when it was moved to the 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 legislature united the Territorial Normal School with the University School of Education to form Teachers College of the University.

The College of Agriculture was established in 1946, the College of Business Administration in 1949, and the College of General Studies in 1956. Prior to 1951
all graduate work was under the Graduate Division, but in that year the name was changed to Graduate School.

**Control and Accreditation.** Government of the University resides in a Board of Regents appointed by the governor for terms of four years. Copies of statutes and bylaws of the Board of Regents are available upon request.

The University is accredited by the Western College Association. Its students may transfer to other American and to foreign universities on the same basis as students of other American universities.

**Instruction.** University classes are open to all academically qualified men and women, regardless of racial ancestry or nationality.

**Academic Year.** The academic year is divided into two 18-week semesters and a summer session.

**University Colors, Symbol, Seal, Coat of Arms.** University colors are green and white. The popular symbol traditionally used by students on campus is the rainbow. The seal is a torch and book entitled *Ma Lama Lama* (the light of knowledge) in a circle of the Pacific, with the motto of Hawaii, *UA MAU KE EA O KA AINA I KA PONO* (The Life of the Land is Preserved in Righteousness). The University coat of arms is an adaptation of the Hawaiian coat of arms and includes the motto of Hawaii.

**Communications.** Prospective students should address letters of general inquiry to the Office of Admissions and Records, University of Hawaii, Honolulu 14, Hawaii.

**Administrative Organization**

The University has six colleges: College of Arts and Sciences, College of Applied Science, Teachers College, College of Agriculture (including the Hawaii Agricultural Experiment Station and the Agricultural Extension Service), College of Business Administration, and College of General Studies. Graduate work is organized under the Graduate School. The Office of Student Personnel administers the work of admissions and registration, and, through its Bureau of Testing and Guidance, offers educational, vocational, and personal counseling, and gives aptitude, interest, and other psychological tests. Other administrative units are the Gregg M. Sinclair Library, the Legislative Reference Bureau, and the Summer Session.

Academic 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 the Administrative Council, of which the President is chairman.

The University Senate acts as an advisory body to the President on matters of instruction and related problems.
Related Services

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

**Speech and Hearing Clinic.** The Clinic staff offers speech and hearing rehabilitation services such as diagnoses, testing, and therapy for children and adults. A registration fee is charged on nonuniversity cases.

**Reading Clinic.** Diagnosis and therapy for reading disabilities is carried on by the members of classes in Education 294, 296-C, and 332, under the supervision of Clinic staff members. Small fees are charged.

**Legislative Reference Bureau.** In 1943 the legislature created the Bureau to aid in legislative and governmental problems. It is situated on the campus, but during sessions of the legislature an office is maintained in Iolani Palace. The legislature, governor, departments, institutions, and agencies of the Territory are provided with information and reports concerning legislative problems.

**Volcano Research Laboratory.** Located on the island of Hawaii, the Laboratory is conducted in cooperation with the U. S. Geological Survey, and offers research possibilities to graduate students and investigators in subjects pertaining to volcanology.

**Aquarium.** The Aquarium at Waikiki is operated by the University as a place of education and entertainment.

**Harold L. Lyon Arboretum.** The Arboretum, consisting of 124 acres in upper Manoa Valley, was donated in 1954 by the Hawaiian Sugar Planters' Association. Six thousand kinds of trees and plants are established there.

**Romanzo Adams Social Research Laboratory.** The Laboratory is staffed by members of the Sociology Department, and is concerned primarily with studies relative to the peoples of Hawaii.

**Human Relations Area Files.** This organization, supported by sixteen major universities, places basic information on various societies of the world in files at each member institution. Each file, in the Gregg M. Sinclair Library, contains facts about a people or region that are judged to be of value to students of human behavior, social life, and culture.

**Industrial Relations Center.** The Center was established to promote understanding of labor-management problems in the community. It provides a library and reference service, promotes lectures, conferences, and discussion groups, and conducts research.

**Radio Office.** Station HUOH-FM, broadcasting five days a week, is operated by the Office, which also coordinates and supervises other University radio and TV broadcasts.

**Psychological Research Center.** The Center conducts basic and applied research on problems involving the scientific approach to human behavior. It
serves as an agency to which business, education, government, industry, labor, and others may bring psychological research problems, and as a training facility for advanced students.

**Cooperating Institutions**

Through cooperative agreements with institutions listed below, the University has increased its research facilities and expanded its services to the Territory.

**Pineapple Research Institute of Hawaii.** The Institute, supported by the pineapple industry, is affiliated with the University. Offices and laboratories are in Institute buildings on the campus. Studies are carried on at Wahiawa, where the Institute maintains a 100-acre experimental farm.

**Hawaiian Sugar Planters’ Association.** In 1947 the Association provided $100,000 for a building on the campus to house the Agricultural Engineering Institute, with shop facilities for instructional and research purposes.

**Fruit Fly Laboratory.** A research laboratory is maintained on the campus by the United States Bureau of Entomology for the study of fruit fly pests.

**United States Fish and Wildlife Service.** Permanent headquarters of the Service for Pacific Oceanic Fishery Investigations are located on the campus. Certain members cooperate with the Department of Zoology and Entomology in offering advanced courses and in directing research in fishery biology. Several fellowships are available to citizen students. Requests for information or fellowship application forms should be addressed to the Director, Pacific Oceanic Fishery Investigations, University of Hawaii.

**Bernice P. Bishop Museum.** The University and the Bishop Museum reciprocate in the use of research facilities. Students may use the facilities, subject to Museum regulations.

**Pacific and Asian Affairs Council.** The Council, adjacent to the University, sponsors lectures, seminars, and meetings on international affairs, particularly on Asia and the Pacific. Its library offers research facilities for the study of world affairs.

**Honolulu Academy of Arts.** The Academy was built and endowed by Mrs. Charles M. Cooke. Its collections are available to students and instructors of the University.

Bishop Museum, the Council and the Academy of Arts offer special membership rates to students.

**Campus and Buildings**

The principal buildings on the campus are Bachman Hall, the Bookstore, the Chemistry Building, Crawford Hall, Dean Hall, the Engineering Quadrangle, Farrington Hall, Gartley Hall, Gilmore Hall, George Hall, Hawaii Hall, Hemen-
way Hall, Henke Hall, the Home Economics Building, Klum Gymnasium, the Gregg M. Sinclair Library, and Wist Hall and its laboratory centers (the Elementary School, the High School, Castle Memorial Hall, and Auditorium).

Farrington Hall, an auditorium with a backstage extension, is well equipped for work in drama. The engineering laboratories and classrooms are in the four buildings of the Engineering Quadrangle. The Arthur L. Andrews Theatre is the outdoor setting for commencement and other programs.

The Library contains 277,318 bound volumes and 715,481 unbound parts and pamphlets. Also, it serves as a depository for government publications. Extensive collections of Chinese and Japanese works and valuable books and periodicals about Hawaii and the Pacific islands make the University an excellent place to study international relations, especially those concerning the Pacific area. The Library files include local and mainland newspapers, and literary, technical, and scientific periodicals. These materials are available to all persons complying with library regulations.

Hemenway Hall is the general social center for students and faculty with quarters for student organizations. A cafeteria is maintained in the Hall.

Residence accommodations on or near the campus include the Charles H. Atherton House, Hale Laulima, Mary Dillingham Frear Hall, and John A. Johnson Hall.

A swimming pool and locker buildings are located near Hemenway Hall. Cooke Field, which is used for football, baseball, and track practice, also affords opportunities for physical education and intramural sports.

The Honolulu Stadium, with a seating capacity of 22,000, is equipped for football, baseball, and other outdoor sports, and is regarded as an integral part of the University's plant resources for physical education and athletics. It is owned and managed by the Honolulu Stadium Corporation.

The Hawaii Marine Laboratory, with branches at Waikiki and Coconut Island, is devoted to research in the marine sciences, and to teaching.

Other buildings connected with the University include the ROTC buildings, Hawaii Annex, the Nutrition Laboratory, and temporary office and classroom buildings on the campus.

A part of the campus is occupied by an experimental farm, devoted to solving problems of Hawaii's dairymen, poultrymen, and livestock raisers; instructional facilities for students of agriculture are provided.

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

STUDENTS (other than auditors and those taking correspondence courses) are classified as undergraduate and graduate.

Undergraduate students are designated as regular or unclassified.

Regular students follow organized programs of study and comply with regulations which lead to the bachelor's degree. They ordinarily carry full-time programs (12 semester hours or more), and for registration and classification purposes are divided as follows: freshmen, 1–24 credit hours completed; sophomores, 25–54; juniors, 55–88; seniors, 89 and above. Freshmen and sophomores are lower division students; juniors and seniors, upper division students.

Unclassified students are those who, although registered for credit, are not candidates for a degree. No student may use the unclassified status to evade technical or scholastic graduation requirements of a college. They usually carry only part-time programs (fewer than 12 semester hours).

Graduate students (graduates of this University or of other institutions of approved standing) are designated as degree candidates, five-year diploma candidates, and unclassified.

Degree candidates are those who are pursuing programs of study leading to advanced degrees.

*Students taking fewer than 12 semester hours in any semester are considered "part-time" students. This classification, however, has significance only in determining fees. Both regular and unclassified students may be either part time or full time.
Five-year diploma candidates are graduate students following a curriculum leading to the diploma.

Unclassified graduate students are those who, although registered for credit, are not degree candidates. Some are working toward the professional certificate of the Department of Public Instruction, and others later become candidates for advanced degrees.

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

Admission

Candidates for admission must present satisfactory evidence of ability to do university work. Prospective regular or unclassified students who have not earned credits in an institution of higher learning apply to the Director, Office of Admissions and Records. 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, applications 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 Director, Office of Admissions and Records.

Admission of Regular Students Entering the University for the First Time. Admission to first-year standing in the University depends upon performance in 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 tests are given by the University for high schools of the Territory each spring. These tests are also given at the University several times during the summer, and between semesters. Applicants should communicate with the Director, Office of Admissions and Records, as to dates.

Every applicant for admission as a regular student who has not previously earned credits in an institution of higher learning must take college aptitude examinations and submit evidence that he has satisfactorily completed at least 15 units of work in a four-year high school or at least 12 units of work in a three-year senior high school.

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

When authorized by the Office of Admissions and Records, candidates from
continental United States and certain foreign countries may take the scholastic aptitude test given by the College Entrance Examination Board (431 West 117th Street, New York City) and submit a certificate covering the results of this examination along with a complete record of work done in preparatory school. Such candidates should meet all admission requirements and await notice of acceptance before coming to Hawaii.

Admission by Examination. Veterans and other mature individuals may take entrance examinations covering preparatory school subjects. Successful performance on these and the college aptitude tests will admit these candidates. Such individuals, however, must meet all special requirements for admission to such curricula as engineering, premedical, etc.

**Minimum Unit Requirements for Admission**

<table>
<thead>
<tr>
<th>From a 4-Year High School</th>
<th>Subject</th>
<th>From a 3-Year High School</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>ENGLISH</td>
<td>3</td>
</tr>
<tr>
<td>1</td>
<td>ALGEBRA</td>
<td>1 (Not required if the student had ninth-grade general mathematics in intermediate, i.e., junior high school.)</td>
</tr>
<tr>
<td>6</td>
<td>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.)</td>
<td>4 (If applicant offers ninth-grade mathematics, this requirement is 5 units.)</td>
</tr>
<tr>
<td>5</td>
<td>Any other subjects (except physical education and ROTC) credited by the high school toward its diploma (no less than ½ nor more than 2 units in any one subject) provided that these subjects have been pursued in accordance with regular classroom procedure involving a reasonable amount of preparation in addition to the time spent in class.</td>
<td>4</td>
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<td>. . . . . . Total</td>
<td>12</td>
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</tbody>
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**Special Requirements for Certain Programs.** Candidates for admission to certain programs must meet special requirements. Each applicant should study the conditions set by the college he intends to enter and for the program he intends to pursue in that college. Special attention is directed to the following requirements.
Students who expect to study mathematics or to take subjects for which college mathematics is a prerequisite, should have had plane geometry and two years of algebra.

Prospective engineering and prearchitecture students must have had plane geometry and two years of algebra. It is strongly recommended that they also have trigonometry, solid geometry, mechanical drawing, and physics. Engineering students who have not had Mathematics 150 (trigonometry) may take it in the summer session preceding the first year or take Mathematics 150 and 151 the first semester, Mathematics 152 the second semester, and Mathematics 153 in the following summer session.

Prospective students of medicine should have had plane geometry, trigonometry, two years of algebra, two years of a foreign language, two years of history, and three years of English.

Prospective students of agriculture should have had two years of algebra. Students with only one year must complete the second year by the end of the freshman year.

Entering freshmen are expected to be on the campus during the Freshman Orientation Period, the dates of which are stated in the "University Calendar." This program is designed to give special help to incoming freshmen and to acquaint them with the University. Examinations, conferences with advisers, introductory lectures, and social events occupy the period.

Admission to Advanced Standing. Students who transfer from other accredited universities or colleges may be granted advanced standing. These students must present to the Director, Office of Admissions and Records, 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 (30 semester hours) at the University of Hawaii to qualify for a bachelor's degree.

Students transferring from other than accredited institutions must meet University of Hawaii standards of admission. Upon the completion of a year's work (30 semester hours) at the University of Hawaii with an average grade of C or better, credit will be given for courses at the previous institution. Such credit, however, will not exceed 60 semester hours, and will be granted only for courses usually considered of lower division level.

Admission of Unclassified Students. Mature persons may register as unclassified students when their backgrounds, in the opinion of the Director of the Office of Admissions and Records, qualify them for credit work. No such student, however, will be admitted to a college or allowed to become a degree candidate until he has satisfied all admission requirements.

Admission as an unclassified student in no case serves as a means of avoiding compliance with the requirements laid down for regular students.
Admission of Auditors. Persons wishing to audit classes must have the written consent of the Director, Office of Admissions and Records, of the chairman of the department concerned, and of the instructor of the course. In general, auditors are not allowed in laboratory science, mathematics, language, English composition, speech, studio art courses, or in classes limited in size where credit students might thereby be excluded. By definition auditors are "listeners" and are therefore not allowed to participate in class discussions or examinations.

Admission of Graduate Students. Graduates of accredited colleges and universities who wish to do graduate study should apply to the Dean of the Graduate School. 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

Registration dates are given in the "University Calendar." Students entering in the autumn receive a circular telling them how to proceed in registering. Courses are described under "Courses of Instruction," and a schedule stating the time and place of meeting of each course is issued by the Office of Admissions and Records in September for the first semester, and in January for the second semester. The summer session schedule is given in the summer session catalogue.

Registration of Undergraduate Students. Before they register, undergraduates must decide which of the six colleges of the University they wish to enter, and select one of the programs offered by 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. Graduate students follow the same procedure in registration as do undergraduates.

Registration of Auditors and Unclassified Students. Auditors and unclassified students register after the period assigned to the registration of regular students, and in accordance with instructions issued at the beginning of each semester.

Maximum Registration. Regular students may not register as auditors or for courses in College of General Studies in excess of the maximum registration allowed by the college in which they are enrolled.

Arrangement of Credits in Advance. The number of credits obtainable in most courses is stated in this catalogue and in the time schedule available shortly before registration. However, certain courses in which students carry on individual work are marked "credit by arrangement." Such statements do not signify that the credits are to be determined at the end of the semester. The
student registers for a definite number of credits and may earn no more than that number.

Late Registration. The University permits registration for credit after the announced registration days only in exceptional cases and for valid reasons. The following rules govern such late registration: (1) during the first seven days following the last official day of registration, written approval must be obtained from the dean concerned; (2) subsequent to the seventh day, students may register only as auditors and must have the written approval of the dean and the instructor concerned. Corresponding restrictions apply to summer session registration and are stated in the summer session bulletin.

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

Auditors need not comply with these regulations, except that they cannot change to credit status after the above late registration periods.

Withdrawal from Courses or from the University. Withdrawal is the voluntary severance from a course or from the University. To withdraw from a course an undergraduate must have the written consent of the dean of his college. Withdrawals from the University must be applied for on a form available at the Office of Admissions and Records; signatures as indicated on the form must be obtained, and the completed application returned to the office of the dean concerned.

During the first three weeks of a semester a formal withdrawal is marked W on the student’s record. After the first three weeks of a semester, a formal withdrawal is marked W if the work was passable; otherwise it is marked F (for failure). No withdrawals from individual courses are permitted during the last four weeks of instruction in a semester, but a dean may approve complete withdrawal for legitimate reasons. A student who ceases to attend a course without complying with the official procedure for withdrawing receives an F in the course. The effective date of withdrawal is the date recorded by the Business Office.

Other Changes of Students’ Programs of Study. A student may transfer from one of the University’s colleges to another at the end of either semester. Application for transfer must be made on a form supplied by the Office of Admissions and Records or one of the deans concerned. The application must be approved by the deans of the two colleges and should be returned to the Office of Admissions and Records at least two weeks before the end of the first semester, and by August 15 during the summer.

Credits, Grades, Grade Points, Grade-Point Ratios

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

A credit (also called a semester hour and a credit hour) is given to a student for work satisfactorily accomplished during three hours a week spent in the preparation and recitation of assignments in a course, or in the field or laboratory. The normal division of time in nonlaboratory courses is one hour in the classroom and two hours in preparatory work.
Grades given in undergraduate courses are A, B, C, D, F, and I. The lowest passing grade is D. 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 Thanksgiving or the Easter recess of the semester following that for which the grade was given. If the work is not thus completed, the I will stand and the student will receive neither credits nor grade points in that course. If the work is completed, the instructor will report a semester grade, taking the completed work into consideration. 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 (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.

Grade-point ratios are determined by dividing the total number of grade points by the total number of credits for which a student has been registered. Courses for which grades of W or I were recorded are not included in the computation of such ratios nor are courses for which a grade of F was recorded, if credit is subsequently obtained for these courses.

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

Requirements for Continued Registration

Scholastic accomplishment in the University of Hawaii is determined by the grade-point ratio (see above) at the end of any stated period, i.e., at the end of one semester, two semesters, etc.

Further registration is denied to the following classes of undergraduate students:

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

2. Those who have failed to earn, after two semesters’ attendance, a minimum of one and one-half times as many grade points as the total of their registered credits.
3. Those who are deficient in composition after two semesters' attendance and who have less than a 2.0 grade-point ratio in other subjects.
4. Those who have failed to earn, after four semesters' attendance, a minimum of one and eight-tenths times as many grade points as the total of their registered credits.
5. Those whose progress in speech is unsatisfactory after three semesters of speech instruction, unless they register for, and attend regularly, a speech correction course. (Failure to remove a speech deficiency constitutes failure to meet graduation requirements.)

Students who become ineligible for further registration at the close of either semester may register for any part of the succeeding summer session. Credits and grade points thus earned will then be included in determining the current grade-point average. Attendance at and credits earned in a summer session are considered but do not determine readmission.

Students who have been dropped may apply for readmission, in writing, to the chairman of the Committee on Scholastic Standing at least one month prior to the opening of the semester for which admission is requested. Usually readmission will not be granted until at least one semester has elapsed since the student was dropped. Only in unusual circumstances will a student be readmitted after having been dropped for the second time.

Whenever, in the opinion of the dean of a college, a student's work makes such action necessary, the dean may warn the student or place him on the grade-point rule. The grade-point rule is the requirement that a student earn 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 by the Committee on Scholastic Standing to permit further registration.

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

Warnings of low scholarship are given by instructors and deans, usually at the end of the first and second six-week periods of each semester, but the student should not assume that his work is of passing grade merely because he has not been warned. The University assumes no responsibility if a warning that has been mailed to a student fails to reach him.

If a student has been in attendance up to the time of the final examination but is absent from the examination, the instructor may give an "Incomplete" for the course. If within one week no satisfactory reason is given by the student for his absence from the final examination, the instructor must turn in a removal of the Incomplete, counting the final examination as F in computing the grade for the course.

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

Student Discipline

Students are expected to observe accepted University and community standards of conduct. Disciplinary authority is exercised by the Committee on Disci-
pline, composed of the deans of the several colleges, faculty members and students appointed by the President of the University, and the Dean of Student Personnel.

**Financial Obligations to the University.** Students who have not adjusted their financial obligations of whatever sort (traffic violations, library fines, locker fees, laboratory breakage charges, transcript fees, loans past due, etc.) to the satisfaction of the University Treasurer, will be denied graduation and further registration, and in the latter case their transcripts will be notated "Denied further registration. See discipline file."

**Undergraduate Degree Requirements**

**Credit and Grade-Point Requirements.** The minimum credit requirement for the baccalaureate (bachelor's) degree in all colleges is 130. In addition, the student must have earned at least twice as many grade points as the total of registered credits.

**Kinds of Baccalaureate Degrees.** Upon satisfactory completion of a regular program in the College of Applied Science and the College of Agriculture, a candidate is granted the degree of bachelor of science (B.S.); the diploma designates the particular program that has been pursued.

The degrees of bachelor of arts (B.A.) and bachelor of fine arts (B.F.A. in Art) are granted upon the satisfactory completion of the prescribed programs in the College of Arts and Sciences.

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

The degree of bachelor of business administration (B.B.A.) is granted upon the satisfactory completion of a regular program in the College of Business Administration.

**Residence Requirements.** The University grants baccalaureate degrees only to those students who earn a minimum of 30 semester hours in residence (that is, in class or laboratory work at the University of Hawaii).

Degree candidates must be registered and in attendance during the semester or summer session in which the degree is to be granted. A college dean may modify this requirement, in certain exceptional cases, by granting a leave of absence.

**Time Within Which Work Must Be Completed.** All graduation requirements for baccalaureate degrees must be completed within 10 years of the first registration. The college deans are empowered to extend this period in certain exceptional cases.

**Credit by Examination.** Undergraduate students who have attended the University of Hawaii for one semester may make application to the appropriate college dean for credit by examination if they have had the equivalent of a course through experience or training but have not received college credit for the course.
Applications must be made before the end of the first six-week period of a semester, and only one examination in any course will be given during a semester. A fee is charged for each examination. (See p. 56.) Failure to pass such an examination results in a grade of F being entered upon the student's permanent record.

Course Examinations. Final examinations are required in all undergraduate courses except directed reading, research, or seminar courses. No examinations (other than short quizzes) are allowed during the two weeks just prior to the final examination period.

Tuition and Fees

Students (including auditors) registered for 12 or more credit hours in any semester pay $85.00 for tuition and $10.00 for registration per semester. Students (including auditors) registered for fewer than 12 credit hours in regular day courses in any semester pay $8.00 per credit hour. Summer session students pay $10.00 per credit hour and an activities fee of $1.25. Students registered in the College of General Studies pay fees as indicated in the bulletins of that college.

Persons who register after the announced days of registration pay a late registration fee of $5.00.

All students registered for daytime courses pay a "Student Health Fee" of 75 cents each semester.

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.

Veterans, or orphans of veterans, registering for the first time under any of the various federal veterans' bills, should present a proper Certificate for Education and Training, or Certificate of Eligibility and Entitlement.

Laboratory fees, uniform and awards fees in military science, and special course fees are stated in the description 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 $2.00 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:

<table>
<thead>
<tr>
<th>Withdrawal during</th>
<th>Fourth week of instruction</th>
<th>Fifth week of instruction</th>
<th>Remainder of semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>First two weeks of instruction</td>
<td>80%</td>
<td>20%</td>
<td>0%</td>
</tr>
<tr>
<td>Third week of instruction</td>
<td>60%</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

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

A fee of $5.00 must be paid to the Business Office before any degree is awarded to a student. The five-year diploma fee is $2.50.

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 graduation ceremonies may be rented for $2.00. A student who requests the Office of Admissions and Records to send a transcript of his work to another institution is not required to pay for the first copy but is charged $1.00 for each subsequent copy. Transcripts of students whose records indicate indebtedness to the University carry the following statement: "Denied further registration. See discipline file."

A fee of $8.00 per credit is charged for "Credit by Examination," payable at the time of application for the examination. A fee of $10.00 is charged for any special examination in regularly constituted courses at other than the specified time.

Steel book lockers for student use are situated in Wist Hall. The use of a locker for the first and second semester may be obtained at Room 9, Hawaii Hall, for $1.00. All keys must be returned before Commencement.

At the request of the Associated Students of the University of Hawaii (ASUH) and with the consent of the Board of Regents, the Business Office collects certain ASUH fees at registration time. These fees, approximately $10.00 each semester, include membership in the ASUH for undergraduates taking 12 or more credit hours (if more than 6 are in the day program), class dues, the use of Hemenway Hall, and participation in the social, cultural, and recreational programs provided by the Hemenway Hall Board of Governors. For other students the fee is optional. These fees are not collected for the summer session. Complete details are given in the ASUH Handbook.

**Military Training**

Instruction is offered in military and air science and tactics in accordance with the requirements stipulated by Congress in legislation relating to land-grant colleges. The first two years must be taken by every male student who is an American citizen, who meets the required physical standards, whose twenty-fourth birthday has not passed at the time of enrollment in the University, who (1) is a freshman or sophomore, or (2) is an unclassified student carrying more than 11 credit hours of work and having fewer than 55 college credits. An alien or a student not physically qualified may register for the basic courses at his own expense with the consent of the department chairman. Students who have satisfactorily completed three years of training in the junior division may be excused from the first year; veterans with six months to a year of military service meet the requirements of the first year; veterans with more than one year of service may receive credit for the basic courses. All such students should clarify their status with the Military or Air Science Department prior to their first registration in the University.

Training in the advanced courses is optional for selected juniors and seniors but the number can not exceed the quotas authorized by the federal government. Students must be enrolled for 12 or more semester hours in order to take advanced military training. Completion of the advanced courses leads to a Reserve commission in the Army or Air Force.

Advanced students and certain selected freshmen and sophomores are given
Selective Service deferments within authorized quota limitations. Deferments are initially given in the second semester of the freshman year and remain in effect as long as the student is regularly enrolled (12 or more semester hours), is in good standing, and continues in military training.

Health, Physical Education, and Sports

The University expects every student to safeguard his health and offers certain aids toward that end. Before entering, every new undergraduate student must have a medical examination by a licensed physician. The student makes his own arrangements and pays the physician. The University provides a form for reporting the examination. If subsequent examinations are needed, the University makes them in its dispensary without cost to the student. Yearly chest X-ray examinations are required. These are provided free-of-charge. Failure to comply with this requirement precludes registration for the following semester.

At the dispensary a registered nurse is on duty throughout the day and a physician during certain hours. First-aid service is available for minor ills and injuries; no charge is made 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. Freshman and sophomore men and women under 25 years of age who are registered for 12 or more semester hours of academic work must take Health and Physical Education 101, 102, and 130. Veterans with one year of military service meet all health and physical education requirements.

Students engaged in varsity sports may be exempted from the health and physical education requirement during the semester of such participation upon petition to the academic dean and substantiation of such participation by the Director of Athletics.

Intramural sports are planned to supplement the regular courses.

Varsity sports are conducted independently of the Department. They are governed by a Board of Athletic Control composed of 11 members: 3 faculty members appointed by the President; 3 alumni members appointed by the Governing Board of the Alumni Association; 3 students—the president of the ASUH, and one senior and one junior appointed by the president of the ASUH, with approval of the Student Council; the Treasurer of the University, ex officio; and the Director of Athletics, ex officio. The Board forms policies for intercollegiate athletics, drafts budgets, and makes contracts and other arrangements for contests between the University and other colleges and athletic groups.

Although the University takes reasonable precautions, it assumes no responsibility for injuries received in sports or games.

Scholarships and Fellowships

Scholarship aid is provided through appropriations by the legislature and contributions from business firms and private organizations. A few scholarships
are supported by endowment funds. Awards are based, in general, on (1) character, (2) scholastic ability and achievement, and (3) financial need.

The period covered is usually one year, the chief exception being in the case of the Territorial Scholarships which cover four years. The granting of a scholarship implies that the recipient is expected to carry a regular load of college work with success. A scholarship may be withdrawn at the close of any semester in which a satisfactory academic record is not maintained.

The chief kind of aid for entering freshmen consists of the Territorial Scholarships described below. For freshman students there are few other scholarships available. However, several community organizations provide scholarships for deserving local students who wish to enter the University. Full information about scholarships offered by the University for entering freshmen is sent to the principals of all local high schools during the spring.

For undergraduate students of sophomore rank or above, numerous scholarships are available. Information may be obtained from the chairman of the Scholarship Committee.

Prospective graduate students who need financial assistance should communicate with the Dean of the Graduate School, who will give information concerning aid which can be offered.

Grants and Other Aids. The Standard Oil Company of California provides two $400 grants to outstanding students. The Sears Roebuck Foundation grants four $500 scholarships in general agriculture.

The John Fee Embree Scholarship of $300 is awarded to an outstanding upper division or graduate student in the social sciences, preferably anthropology or sociology.

Mildred and Leland Ira Doan offer three annual $500 scholarships to island students specializing in chemistry.

The Matson Navigation Company offers two $500 scholarships each year to juniors and seniors in the College of Business Administration.

The City Mill Company offers an annual $250 scholarship to an outstanding student in the College of Business Administration.

Information on the above grants may be obtained from the Scholarship Committee.

The Kekaha Sugar Company offers a four-year scholarship of $250 a year to a young man whose family is connected with the company. Information may be obtained from the chairman of the Scholarship Committee or from the company.

The Alumni Association provides tuition scholarships and loan grants for qualified junior, senior, and graduate students. Application should be made to the association's Education Aid Committee through the Alumni Office.

Territorial Scholarships. Twenty-four scholarships, divided between the six senatorial districts, are awarded annually to entering freshmen. They may be held four years, provided the beneficiary maintains a satisfactory record.
Other Scholarships Administered by the Scholarship Committee. Alonzo Garley (in agriculture); Ann Koga Mortimer Memorial; ASUH Scholarship-Leadership grants; Chinese Community; Fushiminomiya Memorial Scholarship Endowment Fund; Gamma Phi Beta; Harry H. Collins; Kam's Society; Kenji Yamaguma Memorial; Korean University Club; Leora Parmelee Dean (sponsored by the Women's Campus Club); Opti-Mrs. Club of Honolulu; Pua Memorial; Rama Watumull Memorial; Riley H. Allen; Rubi Ethel Kono; Ruth C. Scudder Memorial (sponsored by the Women's League of Central Union Church); Stephen Spaulding; Teachers College Club; Theodore R. Rhea Hawaii Cancer Society Memorial; United Chinese Society; W. A. Ridings; Wakaba Kai Sorority; Yasutaro Soga.

Scholarships Administered by Individuals and Private Organizations, with Assistance from the University Scholarship Committee. Associated Chinese University Women; Chinese Women's Club; City Mill Company; Hawaii Chinese Civic Association; Hawaiian Pineapple Company; Honolulu Japanese Chamber of Commerce; Hung Wo and Elizabeth L. Ching; Kauai High School Alumni Association; Leilehua High School Alumni Association; Music Club, University of Hawaii; Ralston Purina; Soroptimist Club; Te Chih Sheh; Wallace Rider Farrington (for graduates of Wallace Rider Farrington High School, sponsored by the Honolulu Star-Bulletin); West Honolulu Rotary; West Kauai Naturalized Citizens Club; Yang Chung Hui.

Scholarships Administered Entirely by Private Organizations. The Scholarship Committee has no direct information about the independent awards listed. American Trust Company; Buddhist Fellowship Society; Chinese University Club; "Chu" Baldwin Memorial (sponsored by Puunene Community Association); Civic Associates of Nuuanu YMCA; Easy Appliance Company; Elks (the Benevolent and Protective Order of Elks, Lodge No. 616, of Honolulu); Hawaii Federation, Young Buddhists Association; Hawaiian Civic Club of Molokai; Honolulu Chapter, National Foundation for Infantile Paralysis; Honolulu Community Chest; Honolulu Symphony; Hui Hanalike; Jack Johnson Memorial Scholarship; Kaneohe Lions Club; Kilmer Moe; Lahainaluna Alumni; Leeward Oahu Lions Club; Maui AJA Veterans Club; Molokai Lions Club; Pacific Fellowship (sponsored by the American Association of University Women); Retail Board, Honolulu Chamber of Commerce; Timaruau Club of Honolulu; Wahiawa Chamber of Commerce; Waialua Lions Club; YWCA.

General inquiries should be addressed to the Chairman of the Scholarship Committee, University of Hawaii, Honolulu 14, Hawaii.

Prizes and Awards

Dean Prize for Undergraduate Research. This prize fund, established in 1927 in honor of Dr. Arthur Lyman Dean, past President, is used to stimulate interest in undergraduate research. Any senior in the University may compete for this prize of not less than $25.00 nor more than $50.00 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 selects the thesis which is the best example of originality, independence, logic, and form of presentation. This paper is placed in the Hawaiian Room of the Library.

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

**O. C. Magistad Award of the Hawaiian Section of the American Chemical Society.** A one-year student membership in the Society, and subscriptions to several of the Society's journals, are awarded each year to the outstanding senior majoring in chemistry. The name of the winner is engraved on a bronze plaque in the Chemistry Building.

**Phi Beta Kappa Recognition Award.** An award by the University of Hawaii Alpha Chapter of Phi Beta Kappa made in recognition of high scholastic standing among sophomores in the College of Arts and Sciences.

**Phi Kappa Phi Prize.** The Hawaii chapter of Phi Kappa Phi honor society awards a $20.00 cash prize to the senior who graduates with the highest scholastic record in his class.

**Carl F. Knobloch Prize in Government.** The prize is awarded to an outstanding student in government.

**Best Soldier Awards.** The Honolulu Star-Bulletin sponsors an annual award in which two gold medals are presented to cadets of the first-year basic course of the ROTC, one to the outstanding Army cadet and one to the outstanding Air Force cadet. Judgment is based on scholastic standing in military or air science as well as leadership.

**Real Dean Awards of Honor.** The ASUH annually awards medals to students who, in the opinion of fellow students, have given time and effort willingly, untiringly, and without thought of reward to the promotion of ASUH activities.

**Berndt Prizes for Extemporaneous Public Speaking.** Medals are annually awarded by the ASUH to the students judged best in an extemporaneous speaking contest.

**University Oratory Prizes.** The ASUH annually awards medals to the students judged best in an oratorical competition.

**Theatre Group Prizes.** The Group sponsors an annual contest for undergraduates in which prizes of $50.00, $35.00, and $15.00 are awarded for original one-act plays.

**Warrior of the Pacific Trophy.** Since 1928 the United States Department of the Army has supervised an annual rifle marksmanship competition among ROTC infantry units in American universities and colleges for the possession of
a bronze statuette of a native Hawaiian soldier. Residents of Hawaii offer the trophy for the competition.

**American Society of Civil Engineers (Hawaii Section) Award.** A cash prize of $50.00 and a year's membership in the Society are awarded each year to the outstanding senior in civil engineering.

**Hawaiian Pineapple Company Summer Travel Award.** An annual award, for two juniors in home economics, based on scholarship, extracurricular activities, and ability. It provides a trip to the American Home Economics Convention, where the students assist with the Hawaiian Pineapple Company's exhibit and visit various educational institutions and commercial establishments employing home economists.

**Danforth Summer Fellowship Awards.** Awards are given by the Danforth Foundation and Ralston Purina Company of St. Louis, Missouri, to an outstanding junior in agriculture and an outstanding junior in home economics. Transportation is provided from San Francisco to St. Louis. Representatives of 48 state universities spend two weeks in classes at the Ralston plant and two weeks in leadership training at the American Youth Foundation, Shelby, Michigan.

**Major John A. Johnson Memorial Award.** An award is made to the Army ROTC student with the best scholastic record at the end of the sophomore year who is approved for advanced training.

**Captain H. Gaylord Dillingham Memorial Award.** This award is given to the Air Force ROTC student with the best scholastic record at the end of the sophomore year who is approved for advanced training.

**Hawaiian Botanical Society Award.** An annual award, customarily $50.00, is made to a senior student on the basis of a thesis on an announced topic in theoretical or applied botany.

**Das Prize in Asian History and Politics.** An annual cash prize of $50.00, offered by the Taraknath Das Foundation, is awarded to a senior selected by a faculty committee appointed by the President.

**Sigma Pi Sigma Recognition Award.** An award is made by the University chapter of Sigma Pi Sigma in recognition of high scholastic standing among sophomores in physics.

**Carey D. Miller Award.** This monetary award established by the graduates in home economics is given to a senior who has shown outstanding leadership qualities in home economics.

**Honors**

Honors may be granted at graduation to undergraduates who have a grade-point average of 3.4 or above for their undergraduate work. At least 60 semester hours of such work must have been at the University of Hawaii during a period not exceeding six years prior to graduation.
Shortly after the close of each semester the Deans' List gives the names of all full-time undergraduate students who achieved a grade-point average of 3.5 or above for the preceding semester.

In addition the University has campus chapters of six national honorary societies—Phi Beta Kappa (founded at William and Mary in 1776, encourages study in the liberal arts and sciences and recognizes high scholastic attainment in these areas; to be eligible for election a student must have pursued a broad course of study, definitely liberal in character including work in foreign languages and mathematics, leading to the bachelor of arts degree; election to Phi Beta Kappa is regarded as one of the highest undergraduate honors; Alpha Chapter was installed at the University in 1952); Phi Kappa Phi (general scholarship); Sigma Xi (sciences); Pi Gamma Mu (social sciences); Phi Delta Kappa (education); Sigma Pi Sigma (physics); and Omicron Delta Kappa (scholarship and leadership in activities); Chi Epsilon (national civil engineering honor fraternity).

**Loan Funds**

Through the generosity of various organizations and individuals, certain funds have been provided from which students may borrow—either in small amounts to meet emergencies or in larger sums to defer part of tuition costs. A student wishing to make use of these funds should consult the Dean of Student Personnel. Loan funds include the following:

- Alumni Fund—Molokai Chapter
- Carey D. Miller Fund
- Chinese Students' Alliance Fund
- Commerce Club Fund
- Edgar Wood Memorial Fund
- Future Farmers of America, Uniwai Chapter Fund
- George H. Lamy Fund
- Gruscidada Fund
- Hawaiian University Association Fund
- Helen Strong Carter Dental Fund
- Honolulu Civic Association Fund
- Inez Wheeler Westgate Fund
- Japanese Students' Alliance Fund
- Louise S. Jessen Memorial Fund
- Mary L. Kelsey Fund
- Minnesota Club Fund
- Mori-Ross Health Fund
- N.G.B. Fund
- Ruth Alexander, M.D., Student Fund
- Representatives Club Fund
- Senior Class Fund
- Student Fund of Teachers College

**Summer Session**

The University conducts a regular six-week summer session, and offers limited programs during two five-week terms and a three-week post session. In 1959 the regular session will run from June 22 through July 31.

The total enrollment for the 1957 sessions was 5,356.

Further information may be obtained from the office of the Dean of the Summer Session.
STUDENT ACTIVITIES

STUDENT ACTIVITIES are recognized as part of the University educational program. The Bureau of Student Activities is responsible for studying, encouraging, and developing student participation in leadership and fellowship, sound programming and well-balanced living.

The Associated Students, a self-governing organization, promotes and directs its undergraduate extracurricular activities and cooperates with the University administration in student affairs. All regular students who pay ASUH fees are members. An elected council directs its activities. The ASUH Handbook describes the organization and functions in detail.

Activities in which the ASUH engages are athletics, debating, dramatics, a semiweekly newspaper (Ka Leo o Hawaii), and a yearbook (Ka Palapala).

Ka Leo and Ka Palapala are integral parts of the curriculum in journalism and serve as workshops for English 120-121 (newswriting) and English 222 (publishing and editing). Students are not eligible for positions on editorial staffs unless they are taking or have taken at least one of the regular courses in journalism.

The University Theatre Group presents plays which give opportunities for participation to the maximum number of students.

All regular students of the University are eligible to try out for membership in the music organizations. Tryouts for the A Cappella Choir, Chorus, University Band, Orchestra, and vocal and instrumental ensembles are conducted at the beginning of each school year, and at other times by special appointment.

Hemenway Hall is the center of campus activities, facilities, and services.
Faculty, students, and alumni are represented on the Board of Governors, which administers the building and sponsors the programs. The Board is affiliated with the National Association of College Unions.

Student societies include some 70 scholastic, honorary, professional, religious, and social organizations.

**Living Accommodations and Expenses**

Limited housing and eating facilities are maintained on the campus. The University cafeteria serves three meals a day, six days a week, at an average cost of $2.50 per day. The Snack Bar is open during the school day for light refreshments.

**Campus Housing.** Requests for assignment to University dormitories should be addressed to the Office of Student Residences, Bachman Hall 126, University of Hawaii, Honolulu 14, Hawaii.

**MARY DILLINGHAM FREAR HALL** has double accommodations for 144 women. Rent is $100.00 per semester, and $65.00 for the summer session. Arrangements may be made for single accommodations if space is available.

**HALE LAULIMA** is a cooperative dormitory which houses 27 women in double rooms. Residents do the cooking and housekeeping. It is reserved for island girls and assignments are based largely on financial need. Rent is $85.00 per semester. On school days only breakfast and dinner are served. Living expenses approximate $60.00 per month.

**JOHN A. JOHNSON HALL,** a new residence for men, accommodates 80 in double rooms. The rooms are well furnished and each has a view of the mountains or the sea. Rent is $100.00 per semester and $65.00 for the summer session.

There are no housing facilities on the campus for married students.

**Off-Campus Housing.** To supplement campus housing, the University maintains a file of off-campus dormitories, rooming houses, single rooms in private homes, and a few apartments. The Office of Student Housing and Part-Time Employment gives all possible assistance in locating suitable accommodations after the student arrives.

**ATHERTON HOUSE,** the YMCA dormitory adjoining the campus, houses 68 men. Inquiries should be addressed to the Director, Charles Atherton House, 1810 University Avenue, Honolulu 14, Hawaii.

**Expenses.** Minimum expenses of the average student are estimated at from $1,000 to $1,500 a year for board, room, tuition, registration, course fees, class and student body fees, and books. These estimates do not include the cost of clothing, laundry, transportation, and other personal items. Students from outside the Territory should add the cost of transportation to and from Hawaii and additional items for adjustments in a new community. Some students earn part of their expenses by part-time employment.

For further information on either off-campus housing or part-time employment, address the Counselor for Student Housing and Part-Time Employment, Bachman Hall 130, University of Hawaii, Honolulu 14, Hawaii.
COLLEGE OF ARTS AND SCIENCES

The College of Arts and Sciences is dedicated to the task of giving a general education of breadth as well as depth. It moves in the liberal arts tradition and attempts to give a comprehensive acquaintance with the thought and achievement basic to civilization. Its courses are directed toward the development of ideals, interests, and attitudes characteristic of cultured people, and the ability to think clearly and act upon conviction.

Preprofessional training is provided by stipulated combinations of courses. All of the programs lead either to the bachelor of arts, the bachelor of fine arts (in art), or the bachelor of science degree.

Its geographical position midway between continental America and the Far East makes Hawaii more than ordinarily conscious of the increasing importance of the Orient. Therefore, it is logical that more than usual attention is given to the history, languages, literature, art, institutions, and philosophy of the major Asian countries and the peoples of the Pacific area.

Admission and Degree Requirements

Admission requirements, except for the premedical and predental programs, are the same as those for the University (pp. 47-50).
Each freshman in the College is admitted to one of the following groups, depending upon his interests: social sciences; languages, literature, and art; biological and physical sciences.

To be entitled to the bachelor of arts, the bachelor of fine arts, or the bachelor of science degree from the College a student must:

1. meet certain basic requirements of the first two years;
2. complete a major field of study as outlined by the major department;
3. have at least 50 semester hours of credit in other than introductory courses;
4. have an aggregate of at least 130 semester hours of credit;
5. have a 2.0 (a C average) grade-point ratio for all registered credits, and in the major field. (See "Undergraduate Degree Requirements.")

Curricula

The curricula of the College are built around the major fields of concentration. The degrees of bachelor of fine arts and bachelor of science differ from that of the bachelor of arts in requiring greater concentration in the major and in exemption from foreign language and certain other requirements. All students must meet the basic requirements of the first two years, and complete a major, with related courses, during the last two years. A major consists of 24 to 36 semester hours in one field of concentration. Related courses (generally upper division) are courses in other departments which are associated with and contribute to the major. They are not counted in the total number of hours required for the major. Twelve semester hours is the maximum which any department may require in related courses. The major must be indicated by the beginning of the third year, and for art, chemistry, meteorology, music, and the premedical program it should be indicated at the beginning of the first year.

Basic Requirements

<table>
<thead>
<tr>
<th>FIRST YEAR</th>
<th>SECOND YEAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 101 or 102</td>
<td>English 150</td>
</tr>
<tr>
<td>Foreign language (B.A. only)</td>
<td>Foreign language (B.A. only)</td>
</tr>
<tr>
<td>History 100 (B.A. and B.F.A. only)</td>
<td>Health and Phys. Ed. 130</td>
</tr>
<tr>
<td>MS 100 or AS 102</td>
<td>History 110</td>
</tr>
<tr>
<td>Science</td>
<td>MS 150 or 151 or AS 152</td>
</tr>
<tr>
<td>Speech 100</td>
<td>Speech (as required)</td>
</tr>
</tbody>
</table>

The B.F.A. curriculum requires some changes of sequence to allow for more art courses in the first two years.

In addition, six of the following must be completed: Anthropology 150, Art 140, Drama 140, Economics 140 or 150, Mathematics 120, 150 or 151, Music 110, Philosophy 100 or 150, Psychology 150, Religion 150 or 151, Sociology 151.

A number of these basic requirements may be anticipated in the secondary school program. Entering freshmen with four years of a single language at the secondary school level are excused from the foreign language requirement, and those in the social sciences, and in languages, literature, and art, with three years of science in a senior high school may be excused from the science requirement.
Qualified students, upon reporting to the Admissions Office, may also take an examination in American history to satisfy the requirement of History 110.

For students in the social sciences and in languages, literature, and art who must take a year of science, the requirement may be satisfied by 6 to 8 credits from the following courses: Bacteriology 151; Botany 100; Chemistry 103; Entomology 170; Geography 150; Geology 150, 151, 152, 153; Physics 102; Psychology 150; Zoology 100 or 110; or Introduction to Science 120-121, which if elected should be taken the entire year.

**Majors**

The following list indicates the departments in which students may major and the requirements for the major, viz., the total number of semester hours and the specific courses required by the department. A 2.0 (C average) grade-point ratio in the major is required for graduation.

**ANTHROPOLOGY. Major requirement:** 24 semester hours. **Required courses:** Anthropology 150 and a reasonable balance between regional courses (250 to 259) and systematic courses (265 to 282).

**ART. Major requirement:** 36 semester hours. **Required courses:** Art 150-151; 154-155, at least 12 hours in approved art history courses, and others as needed to complete one of the divisions—drawing and painting, applied design, ceramics, advertising art, history of art, weaving. For the B.F.A. degree the major requirement is 64 semester hours, with emphasis in one of the divisions.

**BACTERIOLOGY. Major requirement:** 24 semester hours. **Required courses:** Bacteriology 151, 251 or 252, 260, 262, 264, 285.

**BOTANY. Major requirement:** 24 semester hours. **Required courses:** Botany 100, 201, 253, 269, 279, 283; Genetics 254, or approved substitutes.

**CHEMISTRY. Major requirement:** 36 semester hours. **Required courses:** Chemistry 103, 149, 150, 230, 231, 255. A reading knowledge of scientific German is required. Students desiring certification by the American Chemical Society must take 5 additional hours (including 1 hour of laboratory) from the following: 238, 239, 248, 250, 251, 252, 272, 299.

**CHINESE. Major requirement:** 30 semester hours. **Required courses:** Chinese 100, 101, 200, 250-251, 299; History 225.

**DRAMA AND THEATRE. Major requirement:** 24 semester hours. **Required courses:** Drama 150-151; 12 hours from 210, 220-221, 230-231, 240, and 245; 6 hours from 250, 260, and 265. In addition, 6 hours in dramatic literature, 3 hours in phonetics, interpretation, radio, or playwriting, are required.

**ECONOMICS. Major requirement:** 33 semester hours. **Required courses:** Economics 150-151, 256, 264, 296. Six hours from the following courses may be counted toward the major: Business 261, 263, 265, 266, 267, 270, 282, 287.

**ENGLISH. Major requirement:** 24 semester hours of upper division courses. **Required courses:** 9 hours in "periods" of literature, 6 hours in single authors, 3 hours in American literature, 6 hours in the English language, writing, and
criticism. The language requirement should be met by an ancient or modern European language.

**ENTOMOLOGY.** Major requirement: 30 semester hours. Required courses: Zoology 100, 170, 254, 255, 273, 298.

**FRENCH.** Major requirement: 20 semester hours, exclusive of French 100. Required courses: French 101, 201, 250, 280-281 or 282-283.

**GEOGRAPHY.** Major requirement: 27 semester hours. Required courses: Geography 150, 240, three continental courses, and one systematic course.

**GEOLOGY (B.S. degree).** Major requirement: 35 semester hours. Required courses: Geology 150, 151, 152, 153, 210, 255. Related courses: Civil Engineering 101, 102; Chemistry 103, 150 (or Physics 280); Economics 140; English 210; Mathematics 150, 154; Physics 102.

**GERMAN.** Major requirement: 20 semester hours, exclusive of German 100. Required courses: German 101, 200, 201.

**GOVERNMENT.** Major requirement: 27 semester hours. Required courses: Government 150, 289, and one course from each of the following groups: comparative government, international relations, politics, public administration.

**HISTORY.** Major requirement: 24 semester hours of upper division courses. Required courses: 9 hours from each of two of the three fields—United States, Pacific and Far East, European.

**JAPANESE.** Major requirement: 26 semester hours. Required courses: Japanese 100, 101, 200, 260, 299.

**MATHEMATICS.** Major requirement: 27 semester hours. Required courses: Mathematics 151, 152, 153, 154, 155, and at least 9 hours in upper division courses.

**METEOROLOGY (B.S. degree).** Major requirement: 35 semester hours. Required courses: Geophysics 202, 204, 206, 220, 221, 225, 230, 231. Related courses: Chemistry 103 or 105; English 210; Geography 150; Geology 150; Mathematics 155; Physics 104, 151, 263, 270.

**MUSIC.** Major requirement: 36 semester hours. Required courses: Music 160-161, 170-171, 211, 260-261, 265, 268, and 6 hours in applied music, including Applied Music 269. Piano technique sufficient to play ordinary accompaniments is recommended.

**PHILOSOPHY.** Major requirement: 24 semester hours. Required courses: Philosophy 150, 151, 200, 210, 280.

**PHYSICS.** Major requirement: 31 semester hours. Required courses: Physics 102 or 104, 253, 263, 275, 277, 280, 281, and two of the following: 255, 256, 258, 262, 270. As related courses, Mathematics 153, 154, and 155 are required.

**PSYCHOLOGY.** Major requirement: 24 semester hours. Required courses: Psychology 150, 210, 260. As related courses, Mathematics 149 (or the equivalent) and Zoology 100 or 110 or 191 are required, and further work in mathematics and science recommended.

**RELIGION.** Major requirement: 24 semester hours. Required courses: Religion 151, 200, 201, 250-251 or 282-283.
Sociology. Major requirement: 24 semester hours. Required courses: Sociology 151, 282, and one each from the following two groups: 254, 268, 270, 271; 262, 269, 272, 273.


Speech. Major requirement: 27 semester hours. Required courses: Speech 100 or 150, 131, 204, 220, 221 (first semester), 250, 255, plus 3 hours in drama. For students emphasizing speech correction, in addition to the specialized courses in speech correction and audiology, Psychology 185, 270, 292 or 295 and Zoology 110 or 191 are also required.

Zoology. Major requirements: 30 semester hours. Required courses: Zoology 100, 151, 261, 291, 298.

Preprofessional and Graduate Preparation

The following programs are recommended as desirable preparation in the various fields. They are suggested rather than required, as variations are often necessary in order to meet student needs or the stipulations of a particular professional or graduate school. Student programs should follow the recommendations of the appropriate national professional organizations, provide a good background in the humanities and social sciences, and meet the requirements of the College of Arts and Sciences.

There are no dental, law, medical, ministerial, or osteopathic schools in Hawaii.

Fine Arts Program

This program is designed to provide basic preparation for a career in any one of several fields of art. Requirements include approximately twice as many semester hours in art as for the bachelor of arts degree with a consequent lessening of the credits to be taken outside the department. A major may be obtained in drawing and painting, applied design, ceramics, advertising art, history of art, and weaving.

Pacific Islands Studies Program

The University offers graduate work leading to the master of arts degree in Pacific islands studies. This program provides both a regional specialization for those who intend to continue work for the doctorate in a particular discipline, and an area background for those contemplating employment in business, government, or mission work in the Pacific islands—Polynesia (including Hawaii), Micronesia, and Melanesia.

The required undergraduate preparation is 18 semester hours of courses dealing with the Pacific islands, to be chosen from the following: Anthropology 250, 251, 252, 253, 266, 277, 278; Economics 262, 291, 292; English 263; Geography 260, 263, 265, 280, 281; Government 261, 270, 271; History 221, 273, 276, 277, 278, 279; Psychology 280, 283; Sociology 250, 256, 257, 269. A basic course in either anthropology or geography of the Pacific islands is required.
Predental Program
AMERICAN DENTAL ASSOCIATION RECOMMENDATIONS

The Council of Dental Education has established the following minimum list of requirements for admission to approved dental schools:

<table>
<thead>
<tr>
<th>Subject</th>
<th>University of Hawaii Equivalent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry</td>
<td>Chemistry 103, 159</td>
</tr>
<tr>
<td>General, and a half year of organic</td>
<td>Physics 102</td>
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<tr>
<td>Physics</td>
<td>One year</td>
</tr>
<tr>
<td>Biology or zoology</td>
<td>Zoology 100, 151</td>
</tr>
<tr>
<td>English</td>
<td>English 101</td>
</tr>
<tr>
<td></td>
<td>One year</td>
</tr>
</tbody>
</table>

Generally, at least 90 credit hours are required.

Prelegal Program

Most reputable law schools require a bachelor's degree for entrance. They do not specify major fields to be covered, but in general prefer a well-rounded background with a major in economics, English, government, history, philosophy, psychology, or sociology. A mastery of elementary logic and mathematics, together with a good grasp of scientific principles, is considered desirable and work in elementary accounting is strongly advised; but increasingly it is being stated that the best prelegal training consists of a thorough grounding in the social sciences and humanities together with extensive practice in the arts of oral and written communication.

Chemistry 103 is suggested for the science requirement, and either French or German for the language. The work of the last two years, aside from the major, is largely elective, but the following courses are especially recommended: Business 150-151; Economics 256, 261; Government 282; History 211, 252; Psychology 250, 295; Speech 150.

Premedical Program
AMERICAN MEDICAL ASSOCIATION RECOMMENDATIONS

Preparatory school requirements include a minimum of 15 units of which at least 3 must be in English, 2 in a foreign language, 2 in algebra, 1 in geometry, and 1 in history.

University requirements are a minimum of 60* credit hours as follows:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry</td>
<td>16</td>
</tr>
<tr>
<td>Physics</td>
<td>8</td>
</tr>
<tr>
<td>Biology</td>
<td>10</td>
</tr>
<tr>
<td>English composition</td>
<td>6</td>
</tr>
<tr>
<td>French, German, or Spanish</td>
<td>6</td>
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<tr>
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<table>
<thead>
<tr>
<th>Subject</th>
<th>University of Hawaii Equivalent</th>
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</thead>
<tbody>
<tr>
<td>Chemistry</td>
<td>Chemistry 103, 149 or 159, 230</td>
</tr>
<tr>
<td>Physics</td>
<td>Physics 102</td>
</tr>
<tr>
<td>Biology</td>
<td>Zoology 100, 151, 261</td>
</tr>
<tr>
<td>English composition</td>
<td>English 101</td>
</tr>
</tbody>
</table>

*A majority of medical schools now require 90 credit hours and give preference to applicants with a bachelor's degree.
Fifteen semester hours of electives from the following fields: bacteriology, botany, chemistry, economics, English, history, mathematics, psychology, sociology, and zoology.

**Preministerial Program**

Accredited schools for ministers and directors of religious education require a bachelor's degree for entrance. They prefer students with a well-rounded background. A major in religion itself is advised only when the background is particularly weak in Christian training. Majors in English, history, philosophy, psychology, or sociology are almost equally helpful.

A preministerial student should meet the basic requirements recommended by the American Association of Theological Schools and consult the catalogues of the graduate schools he is considering.

**Public Administration Program**

Students expecting to enter the field of public administration major in government and follow the program in public administration. They must complete the work required of a major in government (see p. 68) and all courses offered in public administration.

In order to insure an adequate background of preparation, the following courses are strongly recommended: Government 248, 252, 254, 259, 276; Economics 261, 265, 270, 283; English 210; and a course in statistical methods.

Enrollment in the public administration program is open to persons engaged in public service who are desirous of training in public administration, and who are able to satisfy University admission requirements.

**Preosteopathic Program**

The Osteopathic Bureau of Professional Education and Colleges recommends, and several osteopathic schools require, that preosteopathic students complete at least three years of college work. Such students are urged to emphasize general education rather than science specialization.

The minimum requirements for admission to an approved college of osteopathy are 60 semester hours (two years) from a college or university accredited by a regional or national accrediting agency. The specific subject and credit requirements, and the University of Hawaii equivalents, are identical with those of the predental program.

**Presocial Work Program**

Students who plan to enter the School of Social Work may major in any of the social sciences. They must have a minimum of 30 semester hours in social
science, with 6 semester hours each from economics, government, psychology, and sociology. In addition to the introductory course, advanced courses may be chosen from the following: Economics 261, 281, 282, 283; Government 256, 282, 283; Psychology 185, 260, 264, 280, 290, 295; Sociology 255, 256, 264, 267, 269, 280, 282. In addition, Social Work 200 must be taken in the junior or senior year.

A biological science should be elected to satisfy the lower division science requirement. A course in statistics is recommended.

Intention of preparing for social work should be indicated to the College Dean by the beginning of the third year.
THE COLLEGE OF APPLIED SCIENCE prepares students for work in engineering, medical technology, nursing, and recreation leadership. This preparation includes training in fundamental scientific principles, development of leadership and professional ethics, and the general education of the individual. These programs lead to the degree of bachelor of science. The first two years of an architectural program are offered.

Admission and Degree Requirements

The number of students admitted in engineering and nursing is limited. Selection is made from applicants best qualified on the basis of admissions tests and high school records. Some of the programs of the College require special preparation in addition to the requirements for admission to the University (pp. 47–50). Engineering students who lack the required special preparation, or who are unable to carry heavy schedules, or who elect advanced military or air science, usually need more than four years to meet degree requirements.

In order to be eligible for the bachelor of science degree from the College a student must:

(1) complete the course requirements of a curriculum;
(2) have an aggregate of at least 130 semester hours of credit;
(3) have a 2.0 grade-point ratio for all registered credits. (See "Undergraduate Degree Requirements.")

**Engineering Curricula**

These are four-year programs leading to the degree of bachelor of science in civil, electrical, or general engineering. They are designed to give broad training in the fundamental principles of engineering as well as specialization in one field. The first-year courses are common to all curricula.

### FIRST YEAR

<table>
<thead>
<tr>
<th>FIRST SEMESTER</th>
<th>CREDITS</th>
<th>SECOND SEMESTER</th>
<th>CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 103</td>
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<td>English 101</td>
<td>3</td>
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<td>English 100 or 101</td>
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<td>History 110</td>
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<td>Mathematics 151</td>
<td>3</td>
<td>Mathematics 153</td>
<td>3</td>
</tr>
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<td>MD 101 Engin. Drawing</td>
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<td><strong>Total</strong></td>
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</table>

**CIVIL ENGINEERING**

### SECOND YEAR

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<th></th>
<th>CREDITS</th>
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<td>CE 101 Surveying</td>
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<td>English 155</td>
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<td>CE 251 Statics</td>
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<td>Mathematics 155</td>
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<td><strong>Total</strong></td>
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**SUMMER SESSION**

CE 227 Structural Design—3 semester hours

### THIRD YEAR

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<th>CREDITS</th>
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<tbody>
<tr>
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<tr>
<td>CE 253 Strength of Mat.</td>
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<td>CE 255 Fluid Mech.</td>
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<td>CE 254 Mech. of Mat.</td>
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<td>CE 276 Struc. Theory</td>
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<td>Economics 140</td>
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<td><strong>Total</strong></td>
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### FOURTH YEAR

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<tbody>
<tr>
<td>CE 228 Water Supply</td>
<td>3</td>
<td>CE 229 Sewerage</td>
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</tr>
<tr>
<td>CE 257 Highway Engin.</td>
<td>3</td>
<td>CE 277 Struc. Design</td>
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### COLLEGE OF APPLIED SCIENCE

#### FOURTH YEAR (cont.)

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<tr>
<th><strong>FIRST SEMESTER</strong></th>
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<th><strong>SECOND SEMESTER</strong></th>
<th><strong>CREDITS</strong></th>
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</thead>
<tbody>
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<td>CE 278 Indet. Struc.</td>
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<td>CE 280 Reinf. Con. Des.</td>
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<td>CE 279 Reinf. Concrete</td>
<td>3</td>
<td>CE 291 Engin. Economy</td>
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<td>Physics 202</td>
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<td>CE 292 Cont. &amp; Specific.</td>
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#### ELECTRICAL ENGINEERING

##### SECOND YEAR

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<td>Physics 104</td>
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##### THIRD YEAR

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<tbody>
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<td>CE 252 Dynamics</td>
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<td>EE 234 Circuit Anal.</td>
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<td>English 210</td>
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<td>Mathematics 252</td>
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<td>Physics 253</td>
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<td>Physics 275</td>
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##### FOURTH YEAR

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<td>EE 241 Elec. Rot. Mach.</td>
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<tr>
<td>EE 249 Trans. Lines</td>
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<td>EE 261 Appl. Electron.</td>
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<td>EE 266 Elec. Eng. Lab.</td>
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#### GENERAL ENGINEERING

##### SECOND YEAR

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<td>English 155</td>
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<td>Mathematics 154</td>
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<td>Physics 104</td>
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<tr>
<td>Speech (as required)</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>18</td>
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</tbody>
</table>

**TOTAL** 18 18
Prearchitectural Program

Students intending to take a degree in architecture must transfer to another institution at the beginning of the junior year. The second year of this program may be modified to fit the requirements of any school to which the student intends to transfer.
## Medical Technology Curriculum

The medical technology curriculum provides for three years of course work on the campus and a fourth year of practical experience in hospital laboratories. Beginning with the summer session preceding the fourth year and continuing throughout the year, students register for Medical Technology 266, 267, and 268. Completion of this curriculum makes the student eligible for the bachelor of science degree and certification as a medical technologist.

### FIRST YEAR

<table>
<thead>
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<th>Course</th>
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<td>Zoology 100</td>
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### SECOND YEAR

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<th>Credits</th>
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<tbody>
<tr>
<td>Chemistry 159</td>
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<td>Chemistry 150</td>
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<td>HPE 130</td>
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<tr>
<td>Zoology 191</td>
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### THIRD YEAR

<table>
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<th>Course</th>
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<tbody>
<tr>
<td>Bacteriology 260</td>
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<td>Bacteriology 262</td>
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<tr>
<td>Chemistry 232</td>
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<td>Zoology 262</td>
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<td>Elective</td>
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**SUMMER SESSION**

Medical Technology 266—4 semester hours

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<tbody>
<tr>
<td>Medical Technology 267</td>
<td>12</td>
<td>Medical Technology 268</td>
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<td>Total</td>
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<td>Total</td>
<td>12</td>
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</table>

**School of Nursing**

CURRICULUM LEADING TO THE DEGREE OF BACHELOR OF SCIENCE IN NURSING

This program combines academic and professional courses with practice and requires four academic years and one summer session. It is intended to develop nurses capable of giving competent preventive and bedside nursing care in any branch of service; to provide a sound foundation in both general and professional education in preparation for supervision, teaching and administration; and to contribute to the development of a self-directing, socially conscious person able to make effective adjustments in personal and professional situations.

**FIRST YEAR**

<table>
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<tr>
<td>Health &amp; Phys. Ed. 101</td>
<td>1</td>
</tr>
<tr>
<td>Household Science 156</td>
<td>2</td>
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<tr>
<td>Nursing 100</td>
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<td>Sociology 151</td>
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**SECOND YEAR**

<table>
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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>English 155</td>
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<tr>
<td>History 110</td>
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</tr>
<tr>
<td>Nursing 110</td>
<td>8</td>
</tr>
<tr>
<td>Nursing 111</td>
<td>3</td>
</tr>
<tr>
<td>Psychology 150</td>
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**SUMMER SESSION**

Nursing 210—6 semester hours

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<tr>
<th>COURSE</th>
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<tr>
<td>Nursing 231 or Psychology 280 or Sociology 269</td>
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<tr>
<td>Psychology 185</td>
<td>2</td>
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<tr>
<td>Sociology 267</td>
<td>3</td>
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<td>Elective</td>
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FOURTH YEAR

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<td>Nursing 200 and</td>
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<td>Nursing 240 and 283</td>
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<td>Nursing 240</td>
<td>7</td>
</tr>
<tr>
<td>or Nursing 245 and 283</td>
<td>13</td>
<td>Nursing 245</td>
<td>10</td>
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<td>Total</td>
<td>13 or 17</td>
<td>Total</td>
<td>10 or 14</td>
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</table>

CURRICULUM FOR REGISTERED PROFESSIONAL NURSES LEADING TO THE DEGREE OF BACHELOR OF SCIENCE IN NURSING

This program is designed to increase the ability of registered professional nurses in any field of nursing, to provide a sound foundation for preparation for supervision, teaching, and administration, and to prepare registered professional nurses for positions in public health nursing. It combines general education with professional courses so that registered professional nurses may obtain the degree of bachelor of science within a reasonable period of time.

In addition to the University entrance requirements, admission to this curriculum requires: (1) graduation from a school of nursing approved by the University; (2) registration as a nurse; (3) personal and professional fitness for advanced nursing as shown by credentials, interviews, and tests; and (4) good health as evidenced by a physical examination satisfactory to the University.

FIRST TWO YEARS

A maximum of 60 semester hours of credit in advanced standing may be allowed for professional work in an approved hospital school. Credit will be granted only under the following conditions:

1. satisfactory instruction in clinical courses required in the four-year nursing curriculum of the University as determined by scores on qualifying examinations prepared and scored by the National League for Nursing;
2. completion of one year of successful work at the University (minimum of 2.0 grade-point ratio).

THIRD YEAR

<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
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<tr>
<td>English 101</td>
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<td>English 101</td>
<td>3</td>
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<tr>
<td>Health &amp; Phys. Ed. 105</td>
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<td>English 155</td>
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<td>History 110</td>
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<td>Household Science 270</td>
<td>3</td>
<td>Sociology 267</td>
<td>3</td>
</tr>
<tr>
<td>Psychology 156</td>
<td>3</td>
<td>Speech (as required)</td>
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<tr>
<td>Sociology 151</td>
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<td>Electives</td>
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<td>Speech 100</td>
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FOURTH YEAR

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<tbody>
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<td>Nursing 280</td>
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<td>Nursing 281</td>
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<td>Nursing 282</td>
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<td>Nursing 283</td>
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<td>Nursing 291</td>
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<td></td>
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<td>Electives</td>
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SUMMER SESSION

Nursing 290—6 semester hours

Recreation Leadership Curriculum

FIRST YEAR

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<td>English 101</td>
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<tr>
<td>Health &amp; Phys. Ed. 101</td>
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</tr>
<tr>
<td>Health &amp; Phys. Ed. 132</td>
<td>2</td>
</tr>
<tr>
<td>MS 100 or AS 102</td>
<td>1</td>
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<td>Sociology 151</td>
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<tr>
<td>Zoology 110</td>
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SECOND YEAR

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<td>English 155</td>
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</tr>
<tr>
<td>Health &amp; Phys. Ed. 115</td>
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<td>History 110</td>
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<td>MS 150 or AS 152</td>
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<td>Psychology 156</td>
<td>3</td>
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<td>Speech 102</td>
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THIRD YEAR

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<td>Health &amp; Phys. Ed. 221</td>
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</tr>
<tr>
<td>Health &amp; Phys. Ed. 246</td>
<td>2</td>
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<tr>
<td>Health &amp; Phys. Ed. 250</td>
<td>2</td>
</tr>
<tr>
<td>Health &amp; Phys. Ed. 280</td>
<td>3</td>
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<tr>
<td>Sociology 290</td>
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<tr>
<td>Health &amp; Phys. Ed. 222</td>
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<tr>
<td>Health &amp; Phys. Ed. 246</td>
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<td>Health &amp; Phys. Ed. 250</td>
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<tr>
<td>Health &amp; Phys. Ed. 285</td>
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<td>Elective</td>
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FOURTH YEAR

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<td>Elective</td>
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<td>Total</td>
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</tbody>
</table>

ELECTIVES

Eight credits of electives must be selected from Group I. Additional electives from Group II must be selected to complete curriculum requirements of 130 semester hours. Substitutions for suggested electives may be approved by the adviser.


**GROUP II:** Air Science 202, 252; Anthropology 250; Art 140; Chinese 100; Drama 140; Geography 150; Geology 150; Hawaiian 100; History 100, 201, 276; Japanese 100; Military Science 200, 250; Music 110; Philosophy 100; Psychology 250, 257, 258, 260; Religion 150; Speech 151; Science 120-121.
TEACHERS COLLEGE

The function of Teachers College is to prepare teachers for the public schools of Hawaii and to afford those already in service an opportunity to improve themselves professionally. Standard preparation for teaching positions in the public schools of the Territory requires four years of undergraduate work and a graduate year. The four-year program leads to the bachelor of education degree, and the year of graduate work to the five-year diploma. Both the degree and the diploma indicate the level—preschool-primary, elementary, or secondary—for which the curriculum is designed.

Admission and Degree Requirements

In addition to University admission requirements (pp. 47-50), applicants for admission to undergraduate curricula in the College must meet certain standards of college aptitude, scholarship, health, personality, and oral English. Applicants for admission to the fifth year or any other advanced program must take the National Teacher Examinations or present scores previously earned in this examination. These examinations are included in Education 261, required of all seniors in the College. Admission to the fifth-year program leading to the five-year diploma requires a grade of C or better in practice teaching, and professional preparation equivalent to that represented by the bachelor of education degree or the bachelor of science degree in vocational education.

To be eligible for the bachelor of education degree, a student must:
(1) have an aggregate of at least 130 semester hours of credit;
(2) have a 2.0 grade-point ratio for all registered credits (see "Undergraduate Degree Requirements");
(3) have met all University degree requirements;
(4) have met the course requirements for one of the College curricula.

**Five-Year Diploma Requirements**

To be eligible for the five-year diploma a student must:

(1) have the bachelor of education degree or its equivalent, including:
   (a) directed teaching in amount and under conditions comparable to those in the University laboratory schools; and
   (b) course background in general and professional education, comparable to the specific requirements of one of the curricula offered by the College;

(2) have satisfactorily met the intern teaching and course requirements of the fifth-year curriculum offered by the College.

**Professional Certificate Requirements**

The standard certificate for public school teaching service in Hawaii is the professional certificate granted by the territorial Department of Public Instruction. The general requirement for this certificate is five years of college work, including practice teaching and other professional course experiences. In addition, the candidate must have met the specific course and curriculum requirements for the grade of certificate sought (e.g., preschool-primary, elementary, secondary).

Requirements for the professional certificate can be met as follows:

(1) by fulfillment of requirements for the Teachers College five-year diploma; or

(2) by earning 30 semester hours of credit after receiving the bachelor of education degree or its equivalent. Six of these credits must be in education courses designed primarily for graduate students.

**Curricula**

The curricula in preschool-primary, elementary, and secondary education, with minor exceptions, are identical for the first two years, where the curriculum is designed to provide for a broad general background.

During the third year, students are introduced to the professional information and background necessary for public school service. Differentiation appropriate to the selected curriculum (preschool-primary, elementary, or secondary) begins at this point. Students preparing for secondary school teaching utilize the electives included in the curriculum outline in meeting requirements for teaching field concentrations. These requirements range from 18 to 36 credits, and are designed to meet Department of Public Instruction requirements for certification.
The fourth-year program consists largely of professional education. One semester is devoted to practice teaching in the University laboratory schools, while the other provides necessary professional courses. One half of the students engage in practice teaching the first semester and take courses the second semester, while the other half reverses the order.

The program of the fifth year again becomes practically identical for all curricula, with intern teaching appointments being made at the appropriate level, and, in the case of prospective secondary school teachers, in the appropriate teaching fields. An alternation of supervised teaching and course work, similar to that in the senior year, is followed.

The curriculum in dental hygiene is listed separately.

**PRESCHOOL-PRIMARY, ELEMENTARY, AND SECONDARY CURRICULA**

**FIRST YEAR**

<table>
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<tr>
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<th>Credits</th>
<th>Second Semester</th>
<th>Credits</th>
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<td>English 101</td>
<td>3</td>
<td>Health &amp; Phys. Ed. 102</td>
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<td>Health &amp; Phys. Ed. 101</td>
<td>1</td>
<td>History 100</td>
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</tr>
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<td>History 100</td>
<td>3</td>
<td>MS 100 or AS 102</td>
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</tr>
<tr>
<td>MS 100 or AS 102</td>
<td>1</td>
<td>Sociology 151</td>
<td>3</td>
</tr>
<tr>
<td>Speech 100</td>
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<td><strong>Total</strong></td>
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**SECOND YEAR**

| Art 142†         | 2       | Art 143†           | 2       |
| English 150†     | 3       | English 150†       | 3       |
| Health & Phys. Ed. 130 | 1     | Government 150 or History 110 | 3 |
| History 110 or Government 150 | 3     | MS 150 or 151 or AS 152 | 1 |
| MS 150 or 151 or AS 152 | 1     | Psychology 185 or 186 | 2       |
| Psychology 150   | 3       | Speech 107         | 1       |
| Speech 106       | 1       | Elective           | 5       |
| Music 150†       | 3       |                    |         |
| **Total**        | **17**  | **Total**          | **17**  |

**PRESCHOOL-PRIMARY CURRICULUM**

**THIRD YEAR**

| Education 236    | 2       | Education 236      | 2       |
| Education 237    | 2       | Education 238      | 2       |
| Education 239    | 2       | Education 284      | 5       |
| Education 283    | 5       | Household Science 156 | 2 |
| Speech 230       | 1       | Elective           | 5       |
| Elective         | 4       |                    |         |
| **Total**        | **16**  | **Total**          | **16**  |

*Economics 140 may be substituted.
† Not required in the secondary curriculum.
‡ English 152 may be substituted.
FOURTH YEAR

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Credits</th>
<th>Second Semester</th>
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</tr>
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<tbody>
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<td>Education 254</td>
<td>14</td>
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<tr>
<td>Health &amp; Phys. Ed. 230</td>
<td>2</td>
<td>Education 255</td>
<td>2</td>
</tr>
<tr>
<td>Psychology 255</td>
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<td>Sociology 250</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Speech 265</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Elective</td>
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<td></td>
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<td><strong>Total</strong></td>
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ELEMENTARY CURRICULUM

THIRD YEAR

| Education 241 | 2       | Education 229 | 2       |
| Education 243 | 3       | Education 240 | 2       |
| Education 244 | 2       | Education 262 | 2       |
| Education 285 | 4       | Education 286 | 4       |
| Music 251     | 2       | Health & Phys. Ed. 221 | 2       |
| Sociology 250 | 3       | Music 252     | 2       |
| Speech 230    | 1       | Elective      | 3       |
| **Total**     | **17**  | **Total**     | **17**  |

FOURTH YEAR

| Education 261 | 3       | Education 254 | 14      |
| Geology 261   | 3       | Education 255 | 2       |
| Health & Phys. Ed. 230 | 2 |                 |         |
| Psychology 255 | 3       |                 |         |
| Speech 265    | 3       |                 |         |
| Elective      | 2       |                 |         |
| **Total**     | **16**  | **Total**      | **16**  |

SECONDARY CURRICULUM

THIRD YEAR

| Education 250 | 5       | Education 257† | 3       |
| Sociology 250 | 3       | Health & Phys. Ed. 230 | 2       |
| Elective*     | 8       | Elective*       | 11      |
| **Total**     | **16**  | **Total**      | **16**  |

FOURTH YEAR

| Education 261 | 3       | Education 254 | 14      |
| Psychology 255 | 3       | Education 255 | 2       |
| Speech 265    | 3       |                 |         |
| Elective*     | 7       |                 |         |
| **Total**     | **16**  | **Total**      | **16**  |

*As required to meet teaching field concentrations.
†For other teaching fields, appropriate methods courses will be substituted.
PRESCHOOL-PRIMARY, ELEMENTARY, SECONDARY, AND DENTAL HYGIENE CURRICULA

FIFTH YEAR

<table>
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<td>Education 390</td>
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<td>Education 395</td>
<td>2</td>
</tr>
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<td>Social Work 200*</td>
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<td>Elective†</td>
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<td><strong>Total</strong></td>
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DENTAL HYGIENE CURRICULUM

FIRST YEAR

<table>
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<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Chemistry 103</td>
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<tr>
<td>English 101</td>
<td>3</td>
</tr>
<tr>
<td>Health &amp; Phys. Ed. 101</td>
<td>1</td>
</tr>
<tr>
<td>History 100</td>
<td>3</td>
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<tr>
<td>Home Economics 101</td>
<td>2</td>
</tr>
<tr>
<td>Speech 100</td>
<td>1</td>
</tr>
<tr>
<td>Elective</td>
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<td><strong>Total</strong></td>
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SECOND YEAR

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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>English 150</td>
<td>3</td>
</tr>
<tr>
<td>History 110 or Government 150</td>
<td>3</td>
</tr>
<tr>
<td>Psychology 150</td>
<td>3</td>
</tr>
<tr>
<td>Speech 108</td>
<td>1</td>
</tr>
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<td>Zoology 100</td>
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<td>Elective</td>
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THIRD YEAR

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<tr>
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<td>Dental Hygiene 251</td>
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<tr>
<td>Dental Hygiene 252</td>
<td>1</td>
</tr>
<tr>
<td>Education 285</td>
<td>4</td>
</tr>
<tr>
<td>Household Science 272</td>
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<td>Speech 230</td>
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<td>Zoology 191</td>
<td>3</td>
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FOURTH YEAR

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
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<tr>
<td>Dental Hygiene 260</td>
<td>1</td>
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<tr>
<td>Dental Hygiene 262</td>
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*Required in preschool-primary curriculum only.
†Must include two credits in graduate courses in education.
‡Dental Hygiene 334 in dental hygiene curriculum.
Laboratory Schools

Practical experience in teaching is given in the College laboratory schools. 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 ideal as possible, with small classes, selected children, and a strong supervising staff assisted by specialists in art, drama, health, library science, physical education, music, and speech.

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

Vocational Home Economics Education

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

Certification in School Counseling

The Department of Public Instruction grants certification in school guidance counseling on three levels: minor in counseling; provisional certificate in counseling; professional certificate in counseling. Requirements for a minor in counseling include the Professional Teachers Certificate and certain courses especially pertinent to the area. Higher certification is dependent on specified experience and advanced courses. The undergraduate student interested in this area of teaching should confer with the counselor trainer before the beginning of the junior year.

Library Science

Regulations of the Department of Public Instruction provide that "A teacher holding a Professional Elementary or Secondary Certificate may have stated on its face 'Requirements Met for Library' if he has had 12 semester hours in library courses." Individuals interested in this provision should confer with one of the instructors in library science, preferably before the beginning of the junior year.
COLLEGE OF AGRICULTURE

The College of Agriculture prepares students for professional work in the fields of agriculture and home economics. In agriculture, the student may secure basic training in the agricultural sciences or specialize in tropical crop production, vocational agriculture, or agricultural economics. A wide choice of electives permits the building of a program for special needs.

Four curricula are offered in home economics: general home economics, institutional management, home economics education, and foods and nutrition research.

All curricula in the College lead to the bachelor of science degree.

The College also includes the Hawaii Agricultural Experiment Station and the Cooperative Extension Service in Agriculture and Home Economics.

Admission and Degree Requirements

The requirements for admission to the College are, in general, the same as those for the University (pp. 47–50). Students who lack some of this required preparation are unable to follow the regular programs and usually need more than four years to complete the degree requirements.

To be eligible for the bachelor of science degree from the College a student must:

88
(1) complete the course requirements of a curriculum;
(2) have an aggregate of at least 130 semester hours of credit;
(3) have a 2.0 grade-point ratio for all registered credits. (See "Undergraduate Degree Requirements.")

Summer practice work in the area of major interest may be required if, in the opinion of the adviser, such experience is necessary for reasonable competence.

**Curricula in Agriculture**

The program in agriculture is designed to give the student a knowledge of the fundamental principles underlying agriculture as a science and to prepare him for effective service in agricultural research, the teaching of agriculture, or in practical farming. The program is broadly conceived to give a background in the biological and physical sciences, and in the social sciences as well.

Students interested in agricultural engineering, with approval of the Dean, may substitute certain courses in engineering, mathematics, and physics for some of the required courses in agriculture.

**GENERAL AGRICULTURE**

**FIRST YEAR**

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Credits</th>
<th>Second Semester</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Agriculture 100</td>
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<td>Animal Science 151</td>
<td>3</td>
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<tr>
<td>Botany 100 or Zoology 100</td>
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<td>Botany 100 or Zoology 100</td>
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<tr>
<td>Chemistry 103</td>
<td>4</td>
<td>Chemistry 103</td>
<td>4</td>
</tr>
<tr>
<td>English 100 or 101</td>
<td>3</td>
<td>English 101</td>
<td>3</td>
</tr>
<tr>
<td>Health &amp; Phys. Ed. 101</td>
<td>1</td>
<td>Health &amp; AS 102</td>
<td>1</td>
</tr>
<tr>
<td>MS 100 or AS 102</td>
<td>1</td>
<td>MS 100 or AS 102</td>
<td>1</td>
</tr>
<tr>
<td>Poultry Science 152</td>
<td>3</td>
<td>Speech (as required)</td>
<td>1</td>
</tr>
<tr>
<td>Speech 100</td>
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<td><strong>Total</strong></td>
<td><strong>18</strong></td>
<td><strong>Total</strong></td>
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**SECOND YEAR**

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<th>Credits</th>
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<tr>
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<td>English 155</td>
<td>3</td>
</tr>
<tr>
<td>History 110</td>
<td>3</td>
<td>Horticulture 162</td>
<td>3</td>
</tr>
<tr>
<td>MS 150 or 151 or AS 152</td>
<td>1</td>
<td>MS 150 or 151 or AS 152</td>
<td>1</td>
</tr>
<tr>
<td>Speech (as required)</td>
<td>1</td>
<td>Speech (as required)</td>
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<tr>
<td>Vegetable Crops 164</td>
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<td>Elective</td>
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<td><strong>Total</strong></td>
<td><strong>18</strong></td>
<td><strong>Total</strong></td>
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**THIRD YEAR**

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<tr>
<th></th>
<th>Credits</th>
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<tbody>
<tr>
<td>Genetics 254</td>
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<td>Botany 283</td>
<td>4</td>
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<tr>
<td>Soil Science 250</td>
<td>4</td>
<td>Zoology 273</td>
<td>3</td>
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<tr>
<td>Zoology 170</td>
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<td>10</td>
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<td><strong>Total</strong></td>
<td><strong>17</strong></td>
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</tbody>
</table>
FOURTH YEAR

The only required course in the fourth year is English 210. This should be taken in the second semester. Elective courses necessary to complete the 130 semester hours required for graduation must include 9 credits in animal science, 9 credits in plant science, 6 credits in agricultural engineering, and 6 credits in agricultural economics.

VOCATIONAL AGRICULTURE*

FIRST YEAR

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<thead>
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<th>FIRST SEMESTER</th>
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<td>Animal Science 151</td>
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<td>Botany 100 or Zoology 100</td>
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<td>Botany 100 or Zoology 100</td>
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<td>Chemistry 103</td>
<td>4</td>
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<td>English 101</td>
<td>3</td>
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<td>1</td>
<td>Health &amp; Phys. Ed. 102</td>
<td>1</td>
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<td>MS 100 or AS 102</td>
<td>1</td>
<td>MS 100 or AS 102</td>
<td>1</td>
</tr>
<tr>
<td>Poultry Science 152</td>
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<td>Speech 105</td>
<td>1</td>
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<td>Speech 100</td>
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<td><strong>18</strong></td>
<td><strong>Total</strong></td>
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SECOND YEAR

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<th>CREDITS</th>
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</thead>
<tbody>
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<td>English 155</td>
<td>3</td>
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<td>1</td>
<td>History 110</td>
<td>3</td>
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<tr>
<td>Psychology 156</td>
<td>3</td>
<td>Horticulture 162</td>
<td>3</td>
</tr>
<tr>
<td>Speech 166</td>
<td>1</td>
<td>MS 150 or 151 or AS 152</td>
<td>1</td>
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<td>Vegetable Crops 164</td>
<td>3</td>
<td>Psychology 185</td>
<td>3</td>
</tr>
<tr>
<td>Zoology 170</td>
<td>4</td>
<td>Speech 107</td>
<td>1</td>
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<tr>
<td>Elective</td>
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<td>Elective</td>
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<tr>
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<td><strong>17</strong></td>
<td><strong>Total</strong></td>
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THIRD YEAR

<table>
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<th></th>
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<td>Botany 283</td>
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<tr>
<td>Education 270</td>
<td>3</td>
<td>Zoology 273</td>
<td>3</td>
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<tr>
<td>Education 271</td>
<td>3</td>
<td>Elective</td>
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</tr>
<tr>
<td>Soil Science 230</td>
<td>4</td>
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<tr>
<td>Speech 230</td>
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FOURTH YEAR

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<td>English 210</td>
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<td><strong>Total</strong></td>
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</tbody>
</table>

The electives of the fourth year must meet the requirements of the territorial

*The curriculum in vocational agriculture has been temporarily suspended.
Department of Public Instruction. The agricultural teacher trainer in the University acts as student adviser in this curriculum.

### TROPICAL CROP PRODUCTION

#### FIRST YEAR

<table>
<thead>
<tr>
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<td>English 101</td>
<td>3</td>
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<td>Health &amp; Phys. Ed. 102</td>
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<td>Mathematics 150</td>
<td>3</td>
<td>History 110</td>
<td>3</td>
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<td>MS 100 or AS 102</td>
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<td>MS 100 or AS 102</td>
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<tr>
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#### SECOND YEAR

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<th>CREDITS</th>
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<td>Botany 283</td>
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<td>MS 150 or 151 or AS 152</td>
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<td>Elective</td>
<td>4 or 5</td>
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<td><strong>Total</strong></td>
<td>17 or 18</td>
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#### THIRD YEAR

<table>
<thead>
<tr>
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<th>CREDITS</th>
<th>SECOND SEMESTER</th>
<th>CREDITS</th>
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</thead>
<tbody>
<tr>
<td>Genetics 254</td>
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<td>Agricultural Engineering 291</td>
<td>3</td>
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<tr>
<td>Soil Science 250</td>
<td>4</td>
<td>English 210</td>
<td>3</td>
</tr>
<tr>
<td>Zoology 170</td>
<td>4</td>
<td>Zoology 273</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>5 or 6</td>
<td>Elective</td>
<td>7 or 8</td>
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#### SUMMER PRACTICE IN INDUSTRY—10 weeks

<table>
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<tbody>
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<td>Soil Science 267</td>
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### AGRICULTURAL ECONOMICS

#### FIRST YEAR

<table>
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</thead>
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</tr>
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<td>Health &amp; Phys. Ed. 101</td>
<td>1</td>
<td>MS 100 or AS 102</td>
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</tr>
<tr>
<td>MS 100 or AS 102</td>
<td>1</td>
<td>English 101</td>
<td>3</td>
</tr>
<tr>
<td>English 100 or 101</td>
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<td>4</td>
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<tr>
<td>History 110</td>
<td>3</td>
<td>Government 150</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 151</td>
<td>3</td>
<td>Elective in agriculture</td>
<td>3</td>
</tr>
<tr>
<td>Chemistry 103</td>
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<td><strong>Total</strong></td>
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<td><strong>Total</strong></td>
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## SECOND YEAR

<table>
<thead>
<tr>
<th>FIRST SEMESTER</th>
<th>CREDITS</th>
<th>SECOND SEMESTER</th>
<th>CREDITS</th>
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</thead>
<tbody>
<tr>
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<td>MS 150 or 151 or AS 152</td>
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<td>Economics 151</td>
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</tr>
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<td>Botany 100</td>
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<td>Elective in econ. and bus.</td>
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</tr>
<tr>
<td>Economics 150</td>
<td>3</td>
<td>Elective in social science</td>
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</tr>
<tr>
<td>Business 150</td>
<td>3</td>
<td>Elective in agriculture</td>
<td>7</td>
</tr>
<tr>
<td>English 155</td>
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<td><strong>Total</strong></td>
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<td><strong>Total</strong></td>
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## THIRD YEAR

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<td>Business 282</td>
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## FOURTH YEAR

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Electives are chosen with the approval of the adviser. They must include 9 credits in social science, other than economics; 9 credits in economics and business in addition to those specified and 9 credits in agricultural economics in addition to those specified.

## TECHNICAL AGRICULTURE

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THIRD YEAR

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FOURTH YEAR

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The following list indicates the fields of technical agriculture in which students in this curriculum may specialize. In each case the required courses are listed as well as additional courses from which electives may be chosen with approval of the adviser.

**ANIMAL SCIENCE. Requirements:** Animal Science 151, 253, 257, 260, 261; Bacteriology 151; Zoology 151—21 credits, and 16 credits selected from the following courses: Agriculture 256; Animal Science 258, 279, 297, 298; Bacteriology 260, 262; Chemistry 150, 230, 232; Poultry Science 152, 263, 264, 265; Zoology 170, 253, 260, 261, 262, 276, 291.

**ENTOMOLOGY. Requirements:** Bacteriology 151; Botany 263; Zoology 170, 254, 255, 273, 298—21 credits, and 15 credits selected from the following courses: Agriculture 299; Agricultural Engineering 281, 282, 291; Botany 105, 201, 253, 282, 283; Chemistry 150, 230; Geography 262; Geology 150, 151; Horticulture 162; Philosophy 280; Soil Science 267, 268; Vegetable Crops 164; Zoology 240, 253, 257, 260, 262, 276, 291.

**POULTRY SCIENCE. Requirements:** Animal Science 297; Bacteriology 151; Poultry Science 152, 263, 264, 265; Zoology 151, 170—27 credits, and 15 credits selected from the following courses: Agriculture 256; Agricultural Engineering 281, 282; Animal Science 151, 257, 279; Chemistry 150, 230; Economics 140, 291; Genetics 262; Zoology 253, 261, 273.

**SOIL SCIENCE. Requirements:** Agriculture 299; Agricultural Engineering 291; Chemistry 150, 230; Soil Science 267, 268—18 credits, and 18 credits selected from the following courses: Agriculture 256; Agricultural Engineering 281, 282; Bacteriology 151, 250; Botany 161, 273, 274, 275, 276, 283; Chemistry 160, 232, 250, 255; Geography 150, 250; Geology 150, 151; Horticulture 162; Mathematics 151, 152; Philosophy 280; Soil Science 269.

**TROPICAL HORTICULTURE. Requirements:** Bacteriology 151; Botany 263, 269, 283; Genetics 278; Horticulture 162—20 credits, and 16 credits from the following courses: Agricultural Engineering 281, 282, 291; Botany 161, 201, 253, 268, 273, 275, 281; Chemistry 150, 230; Genetics 262; Horticulture 163, 273, 274, 294; Soil Science 267, 268; Vegetable Crops 164, 209, 210; Zoology 170, 273, 276.
Curricula in Home Economics

The home economics program combines a broad range of academic and professional courses and is designed to promote satisfying personal, home and community life. It prepares students for homemaking and for professional careers. Four curricula are offered: home economics education, institutional management, general home economics, and foods and nutrition research.

FIRST YEAR

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SECOND YEAR

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<td>Elective</td>
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<tr>
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In addition to the courses listed above, students in home economics must complete the requirements for special curricula. Additional work is ordinarily devoted to courses relating to these special fields.

Four such special curricula are offered. The major requirements and the additional recommended electives for each are listed below.

During the second and third years, students in general and home economics education must take Bacteriology 130, Household Art 110, 111, and Zoology 110 or 191. Students in institutional management and dietetics must take Bacteriology 151, Chemistry 232, and Zoology 191.

Students intending to specialize in clothing and textiles, dress design, or interior decoration follow the general home economics curriculum, selecting electives according to their interests. Students interested in preparing for Agricultural Extension Service follow the home economics education curriculum. Those interested in research should follow the foods and nutrition curriculum.

*Required only in foods and nutrition curriculum.
# GENERAL HOME ECONOMICS

## THIRD YEAR

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<tr>
<th><strong>First Semester</strong></th>
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<td>Sociology 151</td>
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## FOURTH YEAR

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# HOME ECONOMICS EDUCATION

## THIRD YEAR

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<td>Home Economics 254</td>
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<td>Sociology 151 or 250</td>
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## FOURTH YEAR

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# INSTITUTIONAL MANAGEMENT

## THIRD YEAR

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FOURTH YEAR

FIRST SEMESTER | CREDITS | SECOND SEMESTER | CREDITS
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Home Ec. 291 or elective | 4 | Home Ec. 291 or elective | 4
Household Science 261 | 3 | Household Science 264 or 266 | 4
Household Science 264 or 266 | 4 | Household Science 265 | 3
Elective | 6 | Elective | 6
Total | 17 | Total | 17

FOODS AND NUTRITION RESEARCH MAJORS follow the second-year program including Chemistry 150, 159; Mathematics 151; Zoology 100. During the third and fourth years, the following are required: Bacteriology 151; Chemistry 230, 232; History 110 or 242; Home Economics 250, 291; Household Science 272, 277, 299.

SUGGESTED ELECTIVES

GENERAL AND VOCATIONAL HOME ECONOMICS: Art 140, 154-155, 160, 161, 175, 176, 250-251, 276; English 120-121, 260-261, 263; Home Economics 255; Household Art 255, 299; Household Science 260, 273, 299; Music 110, 111; Psychology 185, 250; Sociology 250, 256.

INSTITUTIONAL MANAGEMENT: In addition to the above electives, Household Art 110, 111; Home Economics 254, 255, 256, 262.

FOODS AND NUTRITION: Chemistry 266, 270; English 210, 260-261, 263; German 100, 102; Home Economics 255, 262; Household Art 110, 111; Household Science 273; Physics 102; Sociology 151, 250; Zoology 191, 192, 276.

Hawaii Agricultural Experiment Station

The facilities of the Station, including the research staff, the field laboratory, and the Agricultural Engineering Institute, are available in part for undergraduate and graduate instruction. Thus, students have unusual opportunities to study the latest methods and results of agricultural research. 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 research of all three institutions and in University instruction, because in Hawaii diversified agricultural interests, in most instances, must be integrated with those of the dominant crops.

The function of the Station is "to promote scientific investigation and experiments respecting the principles and applications of agricultural science" (Hatch Act of 1887). Facilities for carrying on this work are provided by the headquarters offices and laboratories located on the University campus, and research farms at Poamoho and Waimanalo, Oahu; a branch station at Makawao, Maui; and a

*Home economics students are eligible for membership in the American Dietetic Association after a year's internship in an approved mainland hospital. For hospital internship, the Association requires 3 additional credits in one of the following: anthropology, economics, education, personnel relations, psychology, sociology.
branch station at Kainaliu, Hawaii. Emphasis is placed upon animal husbandry, poultry production, agronomy, and horticulture. Investigations cover the physiology of plants and animals; diseases, insects, and parasites; agronomy, soils and soil chemistry; human and animal nutrition; breeding and genetics; as well as other research in culture, production, and marketing.

Cooperative Extension Service in Agriculture and Home Economics

This program, conducted jointly by the College and the United States Department of Agriculture, is devoted to the advancement of agriculture in Hawaii and to the improvement of rural home life.

Agricultural Extension Service. The Service maintains personal contacts with the rural population through its field staff of county farm agents, home demonstration agents, and their assistants, with the help of the specialists at the territorial headquarters at the University. The staff, 77 in number, operates out of offices located as follows:

- Oahu—Honolulu, Kaneohe, Wahiawa
- Kauai—Lihue
- Hawaii—Hilo, Naalehu, Kealakekua, Honokaa, Kohala
- Maui—Kahului–Kula
- Molokai—Kaunakakai

Improved farm and home practices are taught by means of practical demonstrations before University Extension clubs of men and women, commodity groups, and 4-H clubs of boys and girls. This group instruction is supplemented by farm and home visits and personal conferences. Each year a 4-H Ahaolelo is held on the University campus.

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

Bulletins and circulars containing varied, timely information pertaining to farming and rural home life are issued from time to time.

The Service, cooperating with the USDA Agricultural Marketing Service, collects and publishes crop estimates and market statistics of value to farmers and businessmen, and assists in keeping proper records for tax accounting. Emphasis is placed upon the grading and marketing of farm products.
COLLEGE OF
BUSINESS ADMINISTRATION

The College of Business Administration aims to provide an understanding of the structure, functions, and objectives of American business enterprise and to train for active participation in the business and industrial activities in Hawaii. The four-year program leads to the degree of bachelor of business administration.

For the first two years, all students follow a common program of required basic courses. During the junior and senior years, provision is made for specialization in one of the following curricula: general business, banking and finance, personnel and industrial relations, accounting, merchandising, and office management.

Admission and Degree Requirements

Admission requirements are the same as those for the University (pp. 47–50). In order to qualify for the bachelor of business administration degree from the College, a student must:

1. meet certain basic requirements of the first two years;
2. complete one of the six curricula of the College;
3. have an aggregate of at least 130 semester hours of credit;
4. have a 2.0 grade-point ratio for all registered credits. (See "Undergraduate Degree Requirements.")

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## Curricula

### FIRST YEAR

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<td>Business 161</td>
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<td>English 155</td>
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<tr>
<td>HPE 130*</td>
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<tr>
<td>History 110 or Psychology 156</td>
<td>3 or 4</td>
<td>MS 150 or 151 or AS 152</td>
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<tr>
<td>MS 150 or 151 or AS 152</td>
<td>1</td>
<td>Psychology 156 or History 110</td>
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<td>Speech (as required)</td>
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<td><strong>Total</strong></td>
<td><strong>15 or 16</strong></td>
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<td><strong>16 or 15</strong></td>
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### GENERAL BUSINESS

**THIRD YEAR**

- Bus. 256 Income Tax Problems
- Bus. 270 Principles of Marketing
- Bus. 282 Business Statistics
- Econ. 256 Money and Banking
- Econ. 281 Labor Problems

**FOURTH YEAR**

- Bus. 280 Prin. of Salesmanship
- Econ. 261 Public Finance

## BANKING AND FINANCE

### THIRD YEAR

- Bus. 250 Intermediate Accounting
- Bus. 282 Business Statistics
- Econ. 256 Money and Banking

### FOURTH YEAR

- Bus. 256 Income Tax Problems
- Bus. 278 Credit Management
- Econ. 270 Public Utilities

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*May be taken either semester.*
### PERSONNEL AND INDUSTRIAL RELATIONS

#### THIRD YEAR

**FIRST SEMESTER**
- Bus. 282 Business Statistics
- Econ. 281 Labor Problems
- Econ. 283 Labor Legislation

**SECOND SEMESTER**
- Bus. 230 Indus. Safety and Health
- Bus. 245 Time and Motion Study
- Bus. 263 Personnel Management
- Econ. 282 American Trade Unionism

**FOURTH YEAR**
- Bus. 261 Collective Bargaining
- Econ. 256 Money and Banking
- Econ. 265 Government and Business
- Econ. 294 Research in Indus. Rel.

### ACCOUNTING

#### THIRD YEAR

- Bus. 250 Intermediate Accounting
- Bus. 256 Income Tax Problems
- Bus. 282 Business Statistics
- Econ. 256 Money and Banking

**FOURTH YEAR**
- Bus. 254 Cost Accounting
- Bus. 258 Auditing
- Bus. 287 Bus. Organ. and Mgmt.
- Bus. 251 Advanced Accounting
- Bus. 257 Merchandise Accctg. and Control
- Bus. 265 Corporation Finance
- Econ. 261 Public Finance

### MERCHANDISING

#### THIRD YEAR

- Bus. 250 Intermediate Accounting
- Bus. 270 Prin. of Marketing
- Econ. 256 Money and Banking
- Econ. 265 Government and Bus.

**FOURTH YEAR**
- Bus. 265 Corporation Finance
- Bus. 278 Credit Management
- Bus. 280 Prin. of Salesmanship
- Bus. 273 Prin. of Advertising
- Bus. 276 Retail Merchandising
- Bus. 282 Business Statistics

### OFFICE MANAGEMENT

#### THIRD YEAR

- Bus. 170 Tech. of Typewriting
- Bus. 250 Intermediate Accounting
- Bus. 259 Office Organ. and Mgmt.
- Econ. 281 Labor Problems

**FOURTH YEAR**
- Bus. 177 Tech. of Shorthand
- Bus. 210 Elem. of Supervision
- Econ. 256 Money and Banking
- Bus. 241 Bus. and Sec. Machines
- Bus. 243 Punch Card Accounting
- Bus. 272 Adv. Secretarial Training
- Bus. 277 Secretarial Practice

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*One of the following to be elected the second semester: Psychology 250, 256; Sociology 151, 250.

†Any two of the following to be elected the second semester: Business 225, 240, 237, 279.
COLLEGE OF GENERAL STUDIES

The College of General Studies is committed to the premise that age alone is no bar to learning. By providing the facilities for instruction, it is hoped that many will find it possible to broaden their cultural backgrounds, gain an insight into the demands of responsible citizenship and prepare themselves for competent participation in the business and professional affairs of the community. To these ends, the College extends the availability of University education to qualified people who cannot attend school on the campus in the daytime. It also is called upon to administer the academic affairs of those day students who are not yet candidates for a degree in another college of the University. Three regular programs are offered:

Evening Credit Courses. Concurrent with University sessions, a group of basic undergraduate requirements and selected advanced courses, particularly in business, are offered on the campus, usually after 5 p.m. Similar programs are offered at Schofield Barracks, Pearl Harbor, Hickam Field, Kaneohe Marine Base, Tripler Army Hospital, and other off-campus locations. Admission to these courses is governed by general University requirements (see pp. 47–50), and credit received is the full equivalent of daytime credit in the same courses, including graduate credit when applicable.
EVENING NONCREDIT COURSES. Short evening courses covering selected college-level material in art, business, English, engineering, foreign languages, mathematics, general culture, and other subjects are offered on the campus.

Sessions begin in January, April, July, and October. Any person with the equivalent of a high school education and can profit from these courses may enroll.

CORRESPONDENCE COURSES. Undergraduate credit courses are offered by correspondence for people who can satisfy University admission requirements but are unable to attend regular classes. Credits earned in correspondence may be counted toward a bachelor's degree, but not more than 25 per cent of the total required for the degree may be in such courses. Correspondence courses do not give residence or graduate credit.

Other special professional courses and conferences are sponsored by the College as needs for such activities arise in the community.

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

Hilo Branch

The Hilo Branch, an administrative division of the College of General Studies, offers a program covering the first two years of required courses for the colleges of Arts and Sciences, Business Administration, and Teachers College. A resident faculty, classroom and dormitory facilities, and a full program of extracurricular activities are provided. Also, a limited summer program, primarily for teachers, and selected evening courses are offered.

For further information address the Director, Post Office Box 856, Hilo, Hawaii, or the Dean of the College of General Studies, University of Hawaii, Honolulu 14, Hawaii.
GRADUATE SCHOOL

The Graduate School provides opportunities for further study, research, and professional training to students who have earned a bachelor's degree from an accredited institution of higher learning. The graduate program is not, however, merely an extension of work at the undergraduate level. More rigorous academic standards are applied and a greater degree of independence in the pursuit of knowledge is required. Special emphasis is placed on the cultivation of scholarly attitudes and methods of research.

The University offers graduate work leading to:

(1) the doctor of philosophy degree in botany, chemistry, entomology, genetics, psychology, soil science, and zoology;

(2) the master's degree in animal science, anthropology, art, bacteriology, botany, business administration, chemistry, drama and theatre, economics, education, English, entomology, Far East studies, genetics, geography, government, history, mathematics, nutrition, Pacific islands studies, philosophy, physics, psychology, social work, * sociology, soil science, speech, tropical crop science, and zoology;

(3) the professional certificate for teachers in the employ of the territorial Department of Public Instruction. (See p. 83.)

*For School of Social Work see Graduate Bulletin or School of Social Work Bulletin.
Students may likewise earn graduate credit at the University for transfer to other institutions.

Complete information concerning admission, procedures, and requirements is given in the graduate bulletin, available, upon request, from the office of the Graduate School.
ANNOUNCEMENT OF COURSES FOR 1958–59

Courses are listed alphabetically by subject. Courses numbered 100 to 199 are lower division courses intended for freshmen and sophomores. Those numbered 200 to 299 are upper division courses intended for juniors and seniors but open to graduate students when needed to complete a major field. Courses numbered 300 and above are intended for graduate students, but in a few cases qualified seniors may enroll with the consent of the instructor.

Heading each course description are the number and title of the course, the number of credits, and the semester in which the course is given. Credits and semesters are indicated as follows: (3) I means a 3-credit first-semester course; (3) II, a 3-credit second-semester course; (3) I, II, a 3-credit course repeated the second semester; (3-3) Yr., a 3-credit year course; (Ar.), that the credits are variable and must be arranged with the instructor. The following abbreviations also are used on the title line: Hr, hour; L, lecture(s); Lb, laboratory or laboratories; L-Lb, lecture-laboratory combined. Abbreviations used in the descriptions are: Alt. yrs., alternate years; Lab, laboratory; Pre, prerequisite.

In general, courses are listed by departments, but in a few cases (library science, medical technology, science courses) the material does not logically belong in an academic department and so is listed separately. The various languages are grouped under the departments of Asian and Pacific Languages, and European Languages. The faculty list heading each department indicates the instructors giving courses in that department rather than the actual members of the department. The rank and title of each instructor are given under "Faculty and Staff" at the beginning of the Catalogue.

A schedule stating the time and place of meeting of all classes is issued prior to the beginning of each semester and the summer session.

Agriculture

Senior Professors POOLE, G. D. SHERMAN; Professors B. GOTO, HAMILTON, KAMEMOTO, KINCH, PETERS, YOUNGE; Associate Professors BRIT TEN, S. GOTO, McGUIRE, PHILIPP, F. SCOTT, WAYMAN; Assistant Professors COBB, GILBERT, W. E. HOLMES, KANEHIRO, KOSHI, LANGE, MOOMAW, OTAGAKI, ROSS; Instructors I. IWANAGA, NAKASONE, J. B. SMITH, TANAKA

AGRICULTURE

100 ORIENTATION COURSE (1) I  McGUIRE
Lectures to acquaint the student with agriculture in Hawaii and help select a major.

230 INTRODUCTION TO AGRICULTURAL EXTENSION (3) II  B. GOTO
Objectives and organization. Methods, selection, and training of voluntary leaders; basic principles in program development and appraisal. (Alt. yrs.; offered 1958–59.)

105
251 TROPICAL CROP PRODUCTION (3) I  
Current agricultural practices in the production of sugar cane, pineapples, vegetables, fruits, and forage in the tropics. Fee $2.00.

256 PRINCIPLES OF AGRONOMY (3) II  (2 L, 1 Lab)  
Pasture and field crops; ecology, cultural methods, and management in Hawaii. Pre: Botany 100; Chemistry 103; Zoology 100. Lab fee $1.00.

299 AGRICULTURE THESIS (Ar.) I, II  
Advanced individual work in field, laboratory, and library. Limited to senior majors with 2.7 grade-point ratio, or 3.0 grade-point ratio in agriculture.

300 DIRECTED RESEARCH (Ar.) I, II  
Directed research: (1) genetics—Britten; (2) soil science—Sherman; (3) tropical horticulture—Kamemoto; (4) poultry science—Ross; (5) animal science—Wayman. Pre: graduate standing; consent of instructor.

312 APPLIED AGRICULTURAL STATISTICS (3) II  (2 L, 1 Lab)  
Field plot technique; analysis of laboratory and field data for evaluating factors in agricultural experiments. Pre: Zoology 276 or Genetics 254.

AGRICULTURAL ECONOMICS (AE)

239 FARM MANAGEMENT (3) I  (2 L, 1 Lab)  
Principles of organization and management of individual farms; choice of enterprises; business aspects; records, taxes, credit.

240 ADVANCED FARM MANAGEMENT (3) II  

241 MARKETING AGRICULTURAL PRODUCTS (3) I  (2 L, 1 Lab)  
Problems, agencies, functions, costs, prices, and regulations affecting marketing; proposed improvements. Pre: an introductory course in economics or consent of instructor.

292 AGRICULTURAL PRICES AND POLICY (3) I  (2 L, 1 Lab)  

293 AGRICULTURAL COOPERATIVES (3) II  
History; appraisal of methods and operations; problems of management, membership relations, and accounts. Pre: consent of instructor. (Alt. yrs.; offered 1958–59.)

AGRICULTURAL ENGINEERING

281 AGRICULTURAL MACHINERY (3) I  (2 L, 1 Lab)  
Principles of operation, construction, adjustment, power requirements, use, selection, and maintenance of farm and plantation machinery and general service equipment.

282 AGRICULTURAL POWER (3) II  (2 L, 1 Lab)  
Principles of operation, adjustment, selection and maintenance of internal combustion engines, farm tractors, trucks, and other power sources.

291 IRRIGATION PRINCIPLES (3) II  (2 L, 1 Lab)  
Irrigation in its relation to crop production; development, distribution, and measurement of water; soil moisture and its effect on plant growth.

ANIMAL SCIENCE (AS)

151 ANIMAL HUSBANDRY (3) II  (2 L, 1 Lab)  
Study of the important breeds of horses, cattle, sheep, and swine, and of their care and management. Lab fee $1.00.
253 **DAIRY HUSBANDRY (3) II** (2 L, 1 Lb) **KOSHI**
Breeding, feeding, and management of dairy animals in Hawaii. Lab fee $1.00. (Alt. yrs.; not offered 1958–59.)

257 **FEEDS AND FEEDING (3) I** (2 L, 1 Lb) **OTAGAKI**
Principles of feeding and their application to feeding farm and plantation animals.

258 **ANIMAL NUTRITION (4) II** (2 L, 1 Lb) **OTAGAKI**
Nutrition of farm animals; protein, carbohydrates, fat, mineral and vitamin metabolism; antibiotics and hormones in feed utilization. (Alt. yrs.; offered 1958–59.)

260 **SWINE PRODUCTION (2) I** **IWANAGA**
Management of swine with reference to conditions in Hawaii. Breeds available, breeding practices, and suitability of local feeds. (Alt. yrs.; offered 1958–59.)

261 **BEEF PRODUCTION (2) II** **KOSHI**
Breeding, feeding, and management of beef cattle with particular reference to conditions in Hawaii. (Alt. yrs.; offered 1958–59.)

279 **PHYSIOLOGY OF DOMESTIC ANIMALS (3) I** (2 L, 1 Lb) **WAYMAN**
Organ systems, their structure and functions. Emphasis upon most important livestock. Pre: AS 151; Poultry Science 152. (Alt. yrs.; not offered 1958–59.)

297 **ANIMAL DISEASES AND THEIR CONTROL (3) I** (2 L, 1 Lb) **CROSS**
Disease problems of domestic animals; prevention, control, and eradication. Pre: AS 151; Poultry Science 152. Lab fee $3.00.

298 **SEMINAR IN ANIMAL NUTRITION** (1) **WAYMAN**
Recent investigation in animal nutrition; reports on special topics. Pre: AS 257; sufficient training in chemistry; consent of instructor.

**GENETICS**

254 **PRINCIPLES OF GENETICS (3) I** (2 L, 1 Lb) **SMITH**
Principles of genetics; variations; cytological basis of heredity; biometric methods. Pre: a year of biological science. Lab fee $2.00.

262 **ADVANCED GENETICS (3) II** **BRITTEN**
Theories of genetics; methods and results of modification of germinal materials, gene action, and a survey of recent advances. Pre: Genetics 254.

278 **PRINCIPLES OF PLANT BREEDING (3) II** (2 L, 1 Lb) **POOLE**
Selection, hybridization, and cytogenetics as applied to plant improvement. Pre: Genetics 254. (Alt. yrs.; not offered 1958–59.)

302 **GENETICS SEMINAR** (1) **BRITTEN**
Presentation of reports upon research or reviews of current literature on genetics and cytogenetics. May be repeated. Pre: Genetics 254 or consent of instructor.

**HORTICULTURE**

162 **TROPICAL POMOLOGY (3) II** (2 L, 1 Lb) **LANGE**
Origin, description, and cultural requirements of horticultural crops. Pre: Botany 100; Chemistry 103; Zoology 100. Lab fee $1.00.

163 **PLANT PROPAGATION (3) I** (2 L, 1 Lb) **NAKASONE**
Principles and methods of propagating plants by seeds, cuttings, layers, division, grafting, and budding. Pre: Botany 100. Lab fee $3.00.

273 **PRINCIPLES OF FLORICULTURE (3) I** (2 L, 1 Lb) **KAMEMOTO**
Methods of propagation and management of the important flower and foliage plants of Hawaii. Pre: Botany 100. Lab fee $3.00.
274 COMMERCIAL FLOWER PRODUCTION (3) II (2 L, 1 Lb) KAMEMOTO
Nursery practices, methods of culture, timing the crop, marketing. Pre: Horticulture 273. Lab fee $2.50. (Alt. yrs.; offered 1958–59.)

275 CONTROL OF PLANT DISEASES (2) II (2 L, 1 Lb) S. GOTO
Control of plant diseases with emphasis on problems relating to Hawaiian crop plants. Pre: Botany 100, 259; Bacteriology 151; or consent of instructor.

294 ADVANCED TROPICAL POMOLOGY (3) I (2 L, 1 Lb) HAMILTON
Culture and management of fruit and nut crops commercially important in Hawaii. Pre: Horticulture 162, 163. (Alt. yrs.; not offered 1958–59.)

304 HORTICULTURE SEMINAR (1) I, II STAFF
Presentation of reports upon research or reviews of current literature in the general field of horticulture. May be repeated. Pre: consent of instructor.

313 PHYTOPATHOLOGICAL LITERATURE (1) I S. GOTO
Review of the literature on plant diseases and their causes. May be repeated. Pre: advanced or graduate standing; consent of instructor.

POULTRY SCIENCE (PS)

152 POULTRY HUSBANDRY (3) I (2 L, 1 Lb) TANAKA
Introduction to poultry husbandry. Lab fee $2.00.

263 POULTRY BREEDING (3) II (2 L, 1 Lb) TANAKA
Breeding principles in the improvement of poultry. Breeding programs under Hawaiian conditions. Pre: PS 152; Genetics 254. (Alt. yrs.; offered 1958–59.)

264 POULTRY NUTRITION (3) I (2 L, 1 Lb) ROSS
Principles of poultry nutrition; formulation of poultry rations with local feeds. Pre: PS 152. (Alt. yrs.; offered 1958–59.)

265 INCUBATION AND HATCHERY MANAGEMENT (3) II (2 L, 1 Lb) PALAFOX
Principles and practices in incubation and brooding; chick embryology. Pre: PS 152. (Alt. yrs.; not offered 1958–59.)

SOIL SCIENCE (SS)

250 SOILS (4) I (3 L, 1 Lb) HOLMES
Origin, development, properties, and management of tropical soils; classification of Hawaiian soils. Pre: Chemistry 103. Lab fee $3.00.

267 SOIL ANALYSIS (3) II SHERMAN
Soil composition and fertility. Special attention to field trials, soil tests, and foliar diagnosis in determining fertilizer requirements. Pre: SS 250.

268 SOIL DIAGNOSIS LABORATORY (2) II KANEHIRO
Tests to determine effects of deficiencies and toxicities of plant nutrients; fertilizer requirements. Pre: SS 250, 267. Lab fee $2.00. (Alt. yrs.; not offered 1958–59.)

269 SOIL PHYSICS (3) II (2 L, 1 Lb) HOLMES
Physical properties of soils; structure and moisture relationships. Pre: Physics 102 or 104; SS 250. (Alt. yrs.; offered 1958–59.)

301 ADVANCED SOIL TECHNOLOGY (3) I SHERMAN
Soil-weathering and soil-forming processes on the basis of modern pedologic principles. Pre: graduate standing; consent of instructor.

303 SOIL CLASSIFICATION (3) II SHERMAN
Comprehensive study of the genesis of soils and the various systems of classification, with special reference to tropical soils. Lectures and field work.
308 SOIL SCIENCE SEMINAR (1) II
Review of recent findings in soil science research in the fields of soil chemistry, physics, classification, fertility, bacteriology, and technology. Pre: graduate standing.

VEGETABLE CROPS (VC)

164 VEGETABLE CROP PRODUCTION (3) I (2 L, 1 Lb)
Culture of the more important vegetable crops of Hawaii. Pre: Botany 100; Chemistry 103; credit or concurrent registration in Zoology 170. Lab fee $3.00.

209 ADVANCED VEGETABLE CROPS (4–4) Yr.
First semester, environmental factors; second semester, improvement of major crops. Pre: Botany 283; Soil Science 250; VC 164. (Alt. yrs.; not offered 1958–59.)

210 SYSTEMATIC VEGETABLE CROPS (4) II (2 L, 1 Lb)
Varieties, climatic adaptation, market quality, disease, insect resistance. Pre: Botany 100; VC 164. Lab fee $5.00. (Alt. yrs.; offered 1958–59.)

Air Science

Professor GREENE; Associate Professor ROGAN; Assistant Professors DESILET, MORGAN, PERKINS, D. SMITH; Instructors CAGLE, ESCH, POLING, WOOD

Leadership Laboratory required one day per week for four years. Uniform and awards fee, 75 cents each semester (not refundable).

102 FIRST-YEAR AIR SCIENCE (1–1) Yr.
General survey of air power designed to give an understanding of the elements of air power and basic aeronautical science.

152 SECOND-YEAR AIR SCIENCE (1–1) Yr.

202 THIRD-YEAR AIR SCIENCE (3–3) Yr.
Commander and staff; problem solving; communicating and instructing; military justice; navigation; weather; base functions. Pre: Air Science 152.

252 FOURTH-YEAR AIR SCIENCE (3–3) Yr.
Management seminar; international relations; military aspects of world political geography; principles of warfare; briefing for commissioned service. Pre: Air Science 202.

257 SUMMER CAMP (2)

Anthropology

Professors ELBERT, EMORY, LUOMALA, MASON; Assistant Professor JAY

Anthropology 150 or the equivalent, or consent of the instructor, is prerequisite to all other courses in the department.

150 INTRODUCTION TO ANTHROPOLOGY (3) I, II
Man's biological evolution; archeological history from the Stone to the Iron Age; patterned lifeways of tribal and folk societies throughout the world.

250 CUSTOMS OF OLD HAWAII (3) I
Family, economic life, art, religion, mythology, language, and history as known from archeology and oral traditions.
251 POLYNESIANS (3) I
LUOMALA
Early settlement, local adaptation, and racial and cultural history of Tahitians, Maoris, Hawaiians, Tongans, Samoans, and other Polynesians. (Not offered 1958–59.)

252 PEOPLES OF THE SOUTH SEAS (3) II
EMORY
Survey of racial origins, languages, and cultural institutions of aboriginal Australia, Melanesia, Micronesia, and Polynesia.

253 MICRONESIANS (3) I
MASON
Native custom in the Marshall, Caroline, Mariana, and Gilbert islands. Cultural innovation during Spanish, German, Japanese, American, and British administrations.

254 SOUTH ASIAN PEOPLES (3) II
JAY
Growth and character of high civilizations in India, Burma, Siam, and Indo-China and their relations with folk and tribal societies in the area.

255 ETHNOLOGY OF SOVIET ASIA (3) I
JAY
Nomadism as a way of life in the central Asian steppe and tundra. Historical relations of nomadic and agricultural peoples of Russia and eastern Asia.

256 INDIANS OF THE AMERICAS (3) I
LUOMALA
Asiatic origin and New World settlement. Cultural diversity in pre-Columbian Mexico and North America. United States Indians as a minority group.

257 AFRICA SOUTH OF THE SAHARA (3) I
JAY
Ethnic unity and diversity among the societies of Negro Africa. Problems arising from historical contacts with Europeans and Moslems.

258 FOLK CULTURES OF EUROPE (3) II
LUOMALA
Selected studies to show regional differences in the customs of home and community. Importance of provincialism to national and international affairs.

259 SOCIAL ANTHROPOLOGY OF INDONESIA (3) I
JAY
Peoples of the Philippines and the Malayan archipelago. Growth and change in the folk and urban cultures of the area. (Not offered 1958–59.)

265 SOCIAL ORGANIZATION (3) II
JAY
Comparison of organized group activity in societies of varying complexity. Kinship and association as bases for mutual action and social control.

267 MAGIC AND RELIGION (3) II
LUOMALA
Origins and development of magical practices and religious systems among tribal and folk societies. Ritual and symbolism as aids to social integration.

268 PRIMITIVE ART (3) I
MASON

269 FOLKLORE (3) I
LUOMALA
Unwritten literature in preliterate and literate societies. Myth and legend in socialization and as sanctions for custom.

272 HABITAT, ECONOMY, AND CULTURE (3) I
MASON
Comparison of selected nonindustrial societies to illustrate the interactive influences of physical environment, economic skills, and cultural tradition.

273 FOSSIL MEN AND LIVING RACES (3) II
JAY
Man's physical nature. Human evolution and racial variation. Comparative study of individual constitutions and its practical application.
274 NATURE OF CULTURE (3) I
   LUOMALAA
   Process of sharing and transmitting learned behavior patterns by which man in groups
   has met the problems of survival, social interaction, and world view. (Not offered 1958–59.)

275 INTRODUCTION TO LINGUISTICS (3) I
   ELBERT
   Linguistics as a science; comparative study of languages. Historical analyses, especially
   of English. Training in phonetics with native speakers.

276 LINGUISTIC ANALYSIS (3) II
   ELBERT
   Language as an aspect of culture. Use of linguistics by social scientists. Descriptive
   linguistics, with emphasis on phonemics. Pre: Anthropology 275.

277 STRUCTURAL LINGUISTICS (3) I
   ELBERT
   Continuation of descriptive linguistics. Morphological theory and analysis. Pre: An­
   thropology 276. (Not offered 1958–59.)

278 MALAYO-POLYNESIAN LANGUAGES (3) II
   ELBERT
   Comparative study of Malayo-Polynesian languages. Technique in transcribing one
   language. Phonological and morphological analysis. Pre: Anthropology 277. (Not offered
   1958–59.)

279 ORIGINS OF OLD WORLD CIVILIZATIONS (3) I
   JAY
   Rise of civilization in Europe, Asia, and Africa, from the Stone Age to the historic
   period, as known from archeology. (Not offered 1958–59.)

280 AMERICAN INDIAN PREHISTORY (3) II
   MASON
   Regional cultures and interrelationships as revealed by archeological studies. Emphasis
   on higher civilizations of Mexico, Central and South America.

281 ANTHROPOLOGY AND EDUCATION (3) I
   MASON
   Education as a means of transmitting culture. Socialization in nonliterate societies;
   universal aspects of the process. Cross-cultural education. (Not offered 1958–59.)

282 CULTURAL DYNAMICS (3) II
   MASON
   Changing cultural institutions as influenced by ecological setting, interpersonal group
   relations, and contacts between alien peoples. (Not offered 1958–59.)

299 DIRECTED READING (Ar.) I, II
   STAFF
   Limited to senior majors with 2.7 grade-point ratio or 3.0 grade-point ratio in anthro­
   pology.

300 DIRECTED READING OR RESEARCH (Ar.) I, II
   STAFF
   Pre: graduate standing; consent of instructor.

311 APPLIED ANTHROPOLOGY (3) II
   MASON
   Case study approach to problems relating to cultural change in public health, social
   work, education, agriculture, and industry.

312 ETHNOGRAPHIC METHOD (3) II
   MASON
   Field work planning and first contacts with informants. Interviewing and observation;
   recording information. Preparation of data for publication. (Not offered 1958–59.)

313 FIELD ARCHEOLOGY IN OCEANIA (3) I
   EMORY
   Survey and excavation of prehistoric sites. Recording and analysis of data. Supervised
   excavation on Oahu and laboratory work at Bishop Museum. (Not offered 1958–59.)

314 ANTHROPOLOGICAL CLASSICS (3) I
   LUOMALAA
   Selected works of outstanding personalities in anthropology and their significance for
   the development of social science theory.
Art

Professors Arnason, Charlott, Ecke, Horan, Norris; Associate Professors Cox, Kingrey, Robinson, Turnbull; Assistant Professors R. Iwanaga, Kimura; Instructors McVay, Stasack; Lecturer C. Young

Art 140 is prerequisite to all courses in the history of 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.

ARCHITECTURE

101 HISTORY OF ARCHITECTURE (3-3) Yr. YOUNG
General survey of the architecture of all periods; reference reading, illustrated lectures, and discussions.

103 ARCHITECTURAL DESIGN (3-3) Yr. IWANAGA

153 ARCHITECTURAL GRAPHICS (2) I IWANAGA
Simple projections as applied to plans, sections, and elevations; shades and shadows; perspective drawing; rendering techniques. Studio fee $1.00.

ART

140 INTRODUCTION TO THE VISUAL ARTS (3) I, II TURNBULL
Nature of visual art and its expression in various forms. Lectures, demonstrations, and museum visits. Course fee $1.00.

142-143 ART FUNDAMENTALS (2-2) Yr. STAFF
Background material and studio practice to stimulate understanding of the arts. Lectures, museum visits, and studio work. Studio fee $1.00 each semester.

144 SCULPTURE A (2) I, II ROBINSON
Introductory study of sculptural form. Basic techniques and problems in clay. Lectures and studio work. Studio fee $10.00.

145 SCULPTURE B (2) II ROBINSON
Continuation of 144. Emphasis on individual solutions to problems of sculptural form. Lectures and studio work. Pre: Art 144. Studio fee $10.00.

150-151 DESIGN (2-2) Yr. COX, KIMURA, KINGREY, NORRIS, STAFF
Elements and principles of visual organization. This course or its equivalent is prerequisite to all advanced courses. Studio fee $1.00 each semester.

154-155 DRAWING (2-2) Yr. KIMURA, NORRIS, STASACK, STAFF
Basic principles of drawing in a variety of media. This course or its equivalent is prerequisite to all advanced courses. Studio fee $1.00 each semester.

156-158 LETTERING AND LAYOUT (2-2) Yr. KINGREY
Development of concepts of design in visual communication, lettering for reproduction, typography, and layout. Studio fee $1.00.

160 CERAMICS (2) I, II HORAN, McVAY
Methods and principles of creating pottery by hand. Studio fee $10.00.

161 CERAMICS (2) I, II HORAN, McVAY
Emphasis on wheel throwing and experimentation with form and decorative techniques. Pre: Art 160. Studio fee $10.00.
174 GRAPHIC COMMUNICATION (2) II
Experimental creative projects of graphic design in a variety of materials. Pre: Art 150-151, 154-155; consent of instructor. Studio fee $1.00.

175 TEXTILE DESIGN (2) I, II
Execution of individual problems in design on fabrics, utilizing such media as the block print, stencil, and silk screen. Pre: Art 150-151. Studio fee $7.50.

176 WEAVING A (2) I, II
Creative processes of weaving. Warping and threading of simple hand looms, and multiple harness looms. Studio fee $7.50.

177 WEAVING B (2) II

180-181 PAINTING (2-2) Yr.
Problems in the creation of visual forms. Pre: Art 150-151 and 154-155, or consent of instructor. Studio fee $6.00 second semester.

220 FAR EASTERN AND INDIAN ART (3) I
Development of architecture, sculpture, and painting in India, China, and Japan. Lectures with slides. Visits to Academy of Arts. Course fee $2.00.

225 EARLY CHINESE ART (3) II
Developments in pottery, jade, bronze, and other arts to the end of Han. Lectures with slides. Visits to Academy of Arts. Course fee $2.00.

229 CHINESE PAINTING (3) II
Development of Chinese painting. Lectures with slides. Visits to Academy of Arts. Pre: Art 220 or consent of instructor. Course fee $2.00.

231 APPLIED ARTS OF CHINA (3) I
Ceramics, glyptic arts, metalwork, lacquer, textiles, architecture, furniture, interior design, landscaping. Visits to Academy of Arts. Course fee $2.00.

233 MUSEUM STUDIES IN FAR EASTERN ART (3) II
Detailed critical consideration of the Far Eastern collections of the Academy of Arts. Pre: consent of instructor. Course fee $2.00.

235 ARTS OF JAPAN (3) I
Development of art and architecture in Japan. Visits to Academy of Arts. Pre: Art 220 or consent of instructor. Course fee $2.00.

250–251 HISTORY OF WESTERN ART (3–3) Yr.
Development of architecture, sculpture, and painting. Visits to Academy of Arts. Course fee $2.00 each semester.

252–253 HISTORY OF MODERN ART (3–3) Yr.
Development of Western art since 1800. Pre: Art 250–251 or consent of instructor. Course fee $2.00.

256–257 ADVERTISING ART (2–2) Yr.

260 CERAMIC GLAZE CALCULATIONS (2) I, II
Molecular formulae for glaze experimentation; tests of raw materials. Care and operation of equipment. Pre: Art 160 or consent of instructor. Studio fee $10.00.
261 ADVANCED CERAMICS (2) I, II  
Functional and production limitations. Continuation of exploratory work in field of student's choice. Pre: Art 161 or consent of instructor. Studio fee $10.00.

264 WATER COLOR PAINTING A (2) I  

265 WATER COLOR PAINTING B (2) I  

266 PRINTMAKING (2) II  

267 MATERIALS AND TECHNIQUES OF PAINTING (2) II  
Painting methods emphasizing physical properties and characteristics of materials. Pre: consent of department chairman. Studio fee $10.00. (Alt. yrs.; offered 1958–59.)

269 FIGURE DRAWING A (2) I, II  
Basic principles of drawing the human figure, including study of anatomy and articulation as a foundation of knowledge and skill. Pre: Art 151–155. Studio fee $4.00.

270 FIGURE DRAWING B (2) II  
Continuation of 269. Drawing of the human figure as a foundation for its imaginative use. Pre: Art 269. Studio fee $4.00.

272 ILLUSTRATION (2) I  
Problems of illustration with emphasis on individual experimentation. Various media for reproduction. Pre: Art 150–151, 154–155; consent of instructor. Studio fee $2.00.

273 DESIGN MATERIALS (2) II  
Three-dimensional designs with wood, metal, wire, fabric, or their combinations in spatial structures. Pre: Art 150–151, 154–155. Studio fee $5.00.

275 TEXTILE DESIGN (2) I, II  
Originating ideas for fabrics. Printing and execution of individual or collaborative projects. Pre: Art 175. Studio fee $10.00.

276 ADVANCED WEAVING (2) I, II  
Emphasis on individually designed problems. Pre: Art 176 or consent of instructor. Studio fee $10.00.

280-281 ADVANCED PAINTING (2-2) Yr.  
Continuation of 180–181. Studio fee $6.00 second semester.

290 SENIOR SEMINAR (2) II  
Reports with group discussion to integrate studio practice, art history, and theory. Pre: consent of department chairman. (Alt. yrs.; not offered 1958–59.)

299 DIRECTED WORK (Ar.) I, II  
Criticism and guidance in work of the advanced student’s own choosing in the following fields: (1) drawing and painting, (2) applied design, (3) ceramics, (4) advertising art, (5) history of Western art, (6) history of Far Eastern art, (7) mural painting, (8) weaving. Studio fee $10.00 for (2), (3), (7), and (8). Limited to senior majors with 2.7 grade-point ratio, or 3.0 grade-point ratio in art.

300 DIRECTED WORK (Ar.) I, II  
(1) Drawing and painting, (3) ceramics, (6) history of Far Eastern art, (8) weaving. Pre: consent of department chairman and instructor. Studio fee by arrangement.
360  CERAMIC DESIGN AND RESEARCH (2) I, II
Individual problems in advanced ceramics. Pre: consent of department chairman and instructor. Studio fee $10.00.

376  DESIGN AND RESEARCH IN WEAVING (2) I, II
Utilization of native Hawaiian materials for weaving or design for specific contemporary uses. Pre: consent of chairman and instructor. Studio fee $10.00.

380  PAINTING (2) I, II
Individual problems in advanced painting. Pre: consent of department chairman and instructor.

390  GENERAL SEMINAR (2) I, II
Historical and critical thought in the visual arts related to work of the student. Taken concurrently with Art 360, 376, or 380. Pre: consent of chairman and instructor.

395  SEMINAR IN ORIENTAL ART (1) I, II
Survey of available literature and presentation of papers in fields of the student’s choice. Pre: consent of department chairman and instructor.

Asian and Pacific Languages

Professors ELBERT, UYEHARA; Assistant Professors CHONG, FUJIOKA, IKEDA; Lecturers KEALA, T. LEE

CHINESE

100  ELEMENTARY CHINESE (3-3) Yr.
Study of Chinese vocabularies with emphasis on conversation; grammar and sentence construction; reading of simple stories; laboratory drill. Lab fee $1.00.

101  INTERMEDIATE CHINESE (3-3) Yr.
Selected reading of Pai Hua essays; composition of stories.

200  THIRD-YEAR CHINESE (3-3) Yr.
Reading of newspapers and classics; composition and translation.

250–251  CHINESE LITERATURE IN ENGLISH (3-3) Yr.
Selections from classical and modern Chinese literature in English translation. Pre: English 150 or consent of instructor.

293–294  METHODS IN CHINESE STUDIES (3-3) Yr.
Main fields of Chinese research, special methods evolved, and principal sources of bibliographical information. Pre: junior standing. (Not offered 1958–59.)

299  DIRECTED READING (Ar.) I, II
Limited to senior majors with 2.7 grade-point ratio, or 3.0 grade-point ratio in Chinese.

300  DIRECTED READING OR RESEARCH (Ar.) I, II
Pre: graduate standing.

HAWAIIAN

100  ELEMENTARY HAWAIIAN (3-3) Yr.
Elements of the language; emphasis on conversation with some attention to Hawaiian songs; laboratory drill. Lab fee $1.00.

101  INTERMEDIATE HAWAIIAN (3-3) Yr.
Reading of Hawaiian texts.
200 HAWAIIAN TRANSLATION (3-3) Yr.  
Translation of legends, chants, songs, historical documents. English–Hawaiian translation. Pre: Hawaiian 101 or consent of instructor. (Not offered 1958–59.)

210 HAWAIIAN TRADITIONAL POETRY (3-3) Yr.  
Translation of traditional poetry, including the Pele and Hiiaka cycle, and the Kumu Lipo creation chants. Pre: Hawaiian 101 or consent of instructor.

JAPANESE

100 ELEMENTARY JAPANESE (3-3) Yr.  
Conversation and grammar, with laboratory drill; study of katakana, hiragana, and simple Chinese characters. Lab fee $1.00.

101 INTERMEDIATE JAPANESE (3-3) Yr.  
Translation and conversation; study of more Chinese characters.

200 THIRD-YEAR JAPANESE (3-3) Yr.  

260 JAPANESE LITERATURE IN ENGLISH (2-2) Yr.  
Historical analysis of Japanese thought through literature. Classics and contemporary works. No language background necessary. Pre: English 150 or consent of instructor.

Bacteriology

Professors BUSHNELL, CHU, SARLES; Assistant Professor CONTOIS

130 MICROBES AND MAN (2) I, II  
Microorganisms as they affect people and their possessions. Credit cannot be obtained in both this course and 151.

145 MICROBIOLOGY FOR NURSES (3) II (2 L, 1 Lb)  
General and pathogenic microbiology. Open to students who do not intend to take other courses in the department. Lab fee $6.00.

151 GENERAL BACTERIOLOGY (4) I, II (2 L, 2 Lb)  
Fundamentals of bacteriology. Pre: Botany 100 or Zoology 100; Chemistry 103. Recommended: Chemistry 149 or 159. Lab fee $6.00. Lectures only (2 credits) require instructor's approval.

251 AGRICULTURAL MICROBIOLOGY (3) I (2 L, 1 3-Hr Lb)  
Soil, sewage, water, milk and dairy microbiology. Pre: Bacteriology 151; Chemistry 149 or 159. Lab fee $3.00. (Alternates with 252; offered 1958–59.)
252 INDUSTRIAL MICROBIOLOGY (3) I (2 L, 1 3-Hr Lb) BUSHNELL
Foods, fermentations, and biologicals. Pre: Bacteriology 151; Chemistry 149 or 159. Lab fee $3.00. (Alternates with 251; not offered 1958–59.)

260 MEDICAL BACTERIOLOGY (3) I CHU
Microorganisms as agents of disease in man. Pre: Bacteriology 151; Chemistry 149 or 159.

262 LABORATORY IN MEDICAL BACTERIOLOGY (2) I (3 Lb) CHU
Laboratory diagnosis of bacterial diseases. Pre: credit or concurrent registration in Bacteriology 260. Lab fee $6.00.

264 IMMUNOLOGY (3) II (2 L, 2 Lb) CHU
Concepts of immunity and techniques of diagnostic serology. Pre: Bacteriology 151 and 260, or Zoology 253. Lab fee $6.00.

285 DESCRIPTIVE BACTERIOLOGY (3) II CONTOIS
Isolation and identification of selected groups of bacteria. Pre: Bacteriology 251 (or 252), 260, 262. Lab fee $6.00.

299 MICROBIOLOGICAL PROBLEMS (Ar.) I, II STAFF
Directed reading and laboratory. Limited to senior majors with 2.7 grade-point ratio, or 3.0 grade-point in bacteriology. Lab fee $6.00.

300 DIRECTED RESEARCH (Ar.) I, II STAFF
Selected problems in microbiology. Pre: graduate standing; consent of instructor. Lab fee $6.00.

312 SEMINAR (1) I, II CHU
Significant topics in microbiology. Required of graduate students. May be repeated.

320 MICROBIAL PHYSIOLOGY (3) II (2 L, 2 Lb) CONTOIS
Mechanisms of microbial metabolism and techniques of study. Pre: Bacteriology 151; Chemistry 232. Lab fee $6.00.

350 ADVANCED GENERAL MICROBIOLOGY (3) I (2 L, 2 Lb) STAFF
Study of the autotrophs, higher bacteria, and ultramicroscopic forms. Pre: Bacteriology 151. Lab fee $6.00.

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Botany

Wilder Professor ST. JOHN; Professors COOI, DOTY; Associate Professors AUSTIN, SHOJI; Assistant Professors BERNATOWICZ, S. GOTO, NIIMOTO; Instructors LANE, J. B. SMITH

100 GENERAL BOTANY (4) I, II (2 L, 2 Lb) NIIMOTO, STAFF
Basic principles of plant biology. This course and Zoology 100 comprise an introduction to biology. Lab fee $5.00.

103 EVOLUTION (2) I BERNATOWICZ
Concepts of evolution and sequence of development from algae to flowering plants.

105 ECONOMIC PLANTS OF HAWAII (2) I LANE
Cultivated and wild plants used in ancient and modern times by the Hawaiians and Polynesians for food, drink, medicine, etc.

110 PLANTS AND MAN (2) I LANE
Uses of plants and their influence upon man.

160 FLOWER AND TREE IDENTIFICATION (2) II LANE
A nontechnical course in identification of cultivated plants and weeds of Hawaii.
161 PLANT GEOGRAPHY (2) I
  LANE
  Plant distribution throughout the world; types of vegetation; special attention to origin, development, and economic importance.

181 PLANTS AND THE SEA (3) I
  BERNATOWICZ
  Marine algae, their ecology, and taxonomy of local forms. Lab fee $3.00.

201 SYSTEMATIC BOTANY OF FLOWERING PLANTS (3) I
  LANE

202 TAXONOMY AND EXPLORATION (3) II
  LANE

253 PLANT ECOLOGY (4) I
  DOTY
  Plants in relation to environment and geography; plant sociology. Pre: Botany 201. Lab fee $3.00. (Alt. yrs.; offered 1958-59.)

254 ADVANCED TAXONOMY (1)
  LANE
  Synopsis of lower dicotyledons from Piperaceae to Rosaceae; plant distribution; identification of collections. Pre: Botany 201.

259 MYCOLOGY (3) II
  DOTY
  Structure; food relations; classification of fungi. Identification of common fungi. Pre: Botany 100 or consent of instructor. Lab fee $4.00.

262 STRUCTURE OF ECONOMIC PLANTS (3) II
  COOIL
  Anatomy of important plants of Hawaiian agriculture. Pre: Botany 269 or consent of instructor. Lab fee $5.00. (Alt. yrs.; offered 1958-59.)

263 PRINCIPLES OF PLANT PATHOLOGY (3) I
  GOTO
  Disease in plants; emphasis upon infection and development in relation to environment; epidemiology; methods of appraisal; control. Pre: Botany 100.

266 MEDICAL MYCOLOGY (2) II
  COOIL
  Diagnostic morphology and cultural characteristics of fungi pathogenic to man. Pre: Bacteriology 262 or Botany 259. Lab fee $3.00.

268 PLANT MICROTECHNIQUE (3)
  NIIMOTO
  Preparation of plant materials for histological and cytological study. Pre: Botany 269 or consent of instructor. Lab fee $8.00.

269 PLANT ANATOMY (3) I
  COOIL
  Structure of vascular plants; origin and differentiation of tissues; relation of structure to function. Pre: Botany 100. Lab fee $5.00.

273 ADVANCED PHYSIOLOGY (3-3) Yr.
  COOIL
  Biochemical and physical aspects of plant physiology. Pre: Botany 283; Chemistry 149; Physics 102. (Alt. yrs.; offered 1958-59.)

274 TECHNIQUES IN PHYSIOLOGY (2) I
  COOIL
  Nutrient absorption and composition; osmotic relations. Pre: Botany 283; Chemistry 149; Physics 102; consent of instructor. Lab fee $5.00. (Alt. yrs.; offered 1958-59.)

276 TECHNIQUES IN PHYSIOLOGY-BIOCHEMISTRY (2) II
  COOIL
  Determining substances of physiological significance in plant materials. Pre: Botany 274; consent of instructor. Lab fee $5.00. (Alt. yrs.; offered 1958-59.)
279  CRYPTOGRAMIC BOTANY (3) II  (2 L, 1 Lb)  BERNATOWICZ
Morphology, classification, and biology of algae, fungi, bryophytes, and pteridophytes.
Pre: Botany 100. Lab fee $4.00.

281  CYTOLOGY (3) I  (2 L, 1 Lb)  SMITH
Structure and function of cell components. Pre: Botany 100. Lab fee $4.00.

283  ELEMENTARY PLANT PHYSIOLOGY (4) II  (2 L, 2 Lb)  SHOJI
Introduction to plant physiology. Pre: Botany 100; Chemistry 103. Botany 269 and Chemistry 149 recommended. Lab fee $6.00.

291  BIOLOGICAL PRODUCTIVITY OF THE SEA (3) I  AUSTIN, DOTY
Qualities and functions of the sea; relationships to marine organisms. Pre: senior standing in botany or zoology or consent of instructor. (Alt. yrs.; not offered 1958–59.)

299  BOTANICAL PROBLEMS (Ar.) I, II  STAFF
May be repeated. Limited to senior majors with 2.7 grade-point ratio, or 3.0 grade-point ratio in botany.

300  DIRECTED RESEARCH (Ar.) I, II  STAFF
Pre: graduate standing; consent of instructor. Lab fee $2.00.

310  BOTANICAL SEMINAR (1) I, II  STAFF
Study and discussion of significant topics and problems in botany.

312  ADVANCED BOTANICAL PROBLEMS (Ar.) I, II  STAFF
Investigation of any botanical problem; reading and laboratory work. May be repeated. Pre: consent of instructor. Lab fee $2.00.

330  MOLDS, YEASTS, AND ACTINOMYCETES (3) II  (1 L, 2 Lb)  DOTY
Systematics of selected forms. Pre: graduate standing or 12 hours in botany or bacteriology. Lab fee $5.00. (Alt. yrs.; offered 1958–59.)

331  EXPERIMENTAL MARINE BOTANY (3) II  (1 L, 2 Lb)  DOTY
Current research areas; laboratory methods; physiological aspects of phycology. Pre: graduate standing or 12 hours in botany. Lab fee $5.00. (Alt. yrs.; offered 1958–59.)

332  PHYCOLOGY (3-3) Yr.  DOTY
Four-semester cycle; morphological and systematic aspects of (a) Chlorophyta, (b) Phaeophyta and Myxophyta, (c) Rhodophyta, and (d) small groups. Pre: consent of instructor.

351  PHYSIOLOGY SEMINAR (2) II  COOIL
Significant topics and problems in physiology. May be repeated. Pre: consent of instructor.

377  MORPHOLOGY SEMINAR (2) II
Recent developments in morphology, anatomy, and cytology. Pre: consent of instructor. (Alt. yrs.; offered 1958–59.)

378  NOMENCLATURE SEMINAR (2) II

379  PHYTOPATHOLOGICAL LITERATURE (1) I  GOTO
Literature on recent advances in plant diseases and their control. Pre: advanced or graduate standing; consent of instructor.

380  CYTOGENETICS (3) II  (2 L, 1 Lb)  SMITH
Correlation of genetic and cytological phenomena. Pre: Botany 281 and genetics, or consent of instructor. Lab fee $4.00.
Business

Senior Professor ROBERTS; Professor LEONG; Associate Professors ADLER, FERGUSON, IGE, PENDLETON; Assistant Professors BELL, CONGDON, KIRKPATRICK, PIERSON, SLATE, STELL-MACHER; Instructors CULKIN, CRUTCHFIELD, B. LEE, S. LEE, RAMSEY; Lecturer LUKE

100 BUSINESS CALCULATIONS (3) I, II
Application of basic arithmetic to business problems, including compound interest and annuities. Business administration and business education majors only.

150-151 ELEMENTARY ACCOUNTING (3-3) Yr.
Fundamental principles of accounting for proprietorships, partnerships, and corporations. Pre: sophomore standing or consent of instructor.

160-161 BUSINESS LAW (3-3) Yr.

170 TECHNIQUE OF TYPEWRITING (2-2) Yr.
Intensive training in advanced typewriting. Pre: business sophomore or business education major; consent of instructor. Fee $2.00.

177 TECHNIQUE OF SHORTHAND (2) I
Development of a composite transcription skill for vocational competence. Pre: business sophomore or business education major; consent of instructor. Fee $2.00.

210 ELEMENTS OF SUPERVISION (3) I
Supervisor's relationships to management and workers. Placement, training, control of costs, safety, rewarding, punishing, grievance adjustment, union relations.

212 PROPERTY INSURANCE (3) I
Policies which protect against loss by fire and allied perils, crime, transportation risks; specialized policies which combine these coverages.

217 MISCELLANEOUS CASUALTY INSURANCE (3) II
Emphasis on third-party liability coverages: general liability, automobile insurance (including material damage), and workmen's compensation; miscellaneous casualty lines.

219 LIFE INSURANCE (3) II
Policy forms (whole life, term, endowment, etc.); calculating premiums, reserves, and nonforfeiture values; regulation of policy provisions and underwriting; related coverages.

220 BUSINESS REPORTS AND CORRESPONDENCE (3) I
Principles and practice in business report writing, stressing analytical thinking applied to current business and economic problems.

225 ADVERTISING COPY WRITING (3) II
Principles underlying the preparation of effective copy. Practice in creative copy writing. (Alt. yrs.; offered 1958-59.)

230 INDUSTRIAL SAFETY AND HEALTH (3) I, II
Principles of accident prevention; reporting, analyzing, and prescribing remedies for accident experience; staff organization and safety programs.

232 REAL ESTATE FUNDAMENTALS (3) II
Survey of the real estate field for consumers and home owners; background in real estate law; brokerage; management; appraising; real estate finance.

233 PROPERTY VALUATION (3) II
Appraisal practice, building costs, depreciation and obsolescence; social, economic, and political influences affecting property values. Pre: Business 232 or consent of instructor.
235 URBAN LAND UTILIZATION (3) II
Effect of population, manufacturing, labor, transportation, and commerce on land utilization.

240 PRINCIPLES OF INSURANCE (3) I
What should be known about buying personal insurance; protection of home and business against property losses; cost of third-party liability.

241 BUSINESS AND SECRETARIAL MACHINES (2) II
Characteristics, function, and operation of machines performing clerical, arithmetic, accounting, and statistical work. Fee $2.00.

243 PUNCH CARD ACCOUNTING (2) II
Business operations: inventory control, billing, accounts receivable, payroll, etc. Practical work using IBM punch card accounting machines. Fee $2.00.

245 TIME AND MOTION STUDY (3) II
Application of scientific management to industrial operations, including job breakdown, time studies, work simplification, and standards of performance.

248 WAGE AND SALARY ADMINISTRATION (3) II
Compensation systems. Wage, salary, and incentive plans. Wage surveys, job analysis and evaluation. (Not offered 1958–59.)

249 BUDGETARY ACCOUNTING AND CONTROL (3) II
Budgeting for control of business. Problems in purchase, sales, expense, and cash budgets. Pre: credit or concurrent registration in Business 251 and 254.

250 INTERMEDIATE ACCOUNTING (3) I
Financial statements: form, content, and related problems such as depreciation, depletion, valuation of assets, and the structure of corporations. Pre: Business 151.

251 ADVANCED ACCOUNTING (3) II
More specialized phases of accounting; special reports, consolidated statements, installment sales, consignments, fiduciaries, branches. Pre: Business 250.

254 COST ACCOUNTING (3) I
Accounting principles applied in recording, classifying, distributing, and analyzing product and service costs; emphasis on unit costs and cost control. Pre: Business 251.

255 ANALYSIS OF FINANCIAL STATEMENTS (3) II
Analysis of the balance sheet and profit and loss statement from the standpoint of owners, managers, credit grantors, and the public. Pre: Business 151.

256 INCOME TAX PROBLEMS (3) I

257 MERCHANDISE ACCOUNTING AND CONTROL (3) II
Principles and methods of accounting in wholesale and retail establishments; emphasis on inventory control and allocation of costs on a functional basis. Pre: Business 151.

258 AUDITING (3) I
Principles of conduct of a business audit. Practical aspects of auditing emphasized by means of problems. Pre: Business 251 or consent of instructor.

259 OFFICE ORGANIZATION AND MANAGEMENT (3) I
Office functions; personnel; distribution of authority and responsibility; employment compensation; efficiency measurement; procedure and layout; indexing and filing.
<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Course Description</th>
<th>Prerequisite(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>261</td>
<td>COLLECTIVE BARGAINING (3) I</td>
<td>ROBERTS</td>
<td>Principles and concepts of collective bargaining; analysis of sample contracts including union status, seniority, contract enforcement, and other provisions. Pre: Economics 281.</td>
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<tr>
<td>263</td>
<td>PERSONNEL MANAGEMENT (3) II</td>
<td>KIRKPATRICK</td>
<td>Organization of the personnel function. Recruitment, selection, placement, training, pay and incentives, discipline, discharge, rating, communications; effect on the work force.</td>
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<tr>
<td>265</td>
<td>CORPORATION FINANCE (3) I, II</td>
<td>LUKE</td>
<td>Analysis of instruments and methods of financing a corporation. Pre: Business 151, Economics 256, or consent of instructor.</td>
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<tr>
<td>266</td>
<td>INVESTMENTS AND INVESTMENT BANKING (3) II</td>
<td>LUKE</td>
<td>Economic theory and tests of investment; investment credit analysis; mathematics and tools of investment; investment institutions, functions. Pre: Business 151; Economics 256.</td>
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<tr>
<td>267</td>
<td>BUSINESS CYCLES AND BUSINESS FORECASTING (3) II</td>
<td>KIRKPATRICK</td>
<td>Analysis of the fluctuations of economic activity with emphasis on business cycle theories and forecasting. Pre: Economics 256.</td>
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</tr>
<tr>
<td>268</td>
<td>EMPLOYMENT INTERVIEWING (3) II</td>
<td>FERGUSON</td>
<td>Interviewing, promotion, transfer, discharge. Practice in conducting board, stress, group oral, and other types of interviews. Pre: senior standing or consent of instructor.</td>
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<tr>
<td>270</td>
<td>PRINCIPLES OF MARKETING (3) I</td>
<td>RAMSEY</td>
<td>Study of consumption; general survey of the marketing structure, emphasizing marketing functions and channels, market analysis, and policies. Pre: Economics 150-151.</td>
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<tr>
<td>272</td>
<td>ADVANCED SECRETARIAL TRAINING (2) II</td>
<td>CULKIN</td>
<td>Business ethics and office procedures; practice in performing secretarial tasks. Pre: business senior or consent of instructor.</td>
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<tr>
<td>273</td>
<td>PRINCIPLES OF ADVERTISING (3) II</td>
<td>RAMSEY</td>
<td>Advertising as a factor in distribution; copy; layout; production; media.</td>
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<tr>
<td>276</td>
<td>RETAIL MERCHANDISING (3) II</td>
<td>CULKIN</td>
<td>Retailing history, store organization and management, sales promotion, customer's buying habits. Pre: Economics 150-151 or consent of instructor.</td>
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<tr>
<td>277</td>
<td>SECRETARIAL PRACTICE (3) II</td>
<td>CULKIN</td>
<td>Supervised, paid business office experience of 100 to 150 hours with coordinated class instruction. Pre: consent of instructor.</td>
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<tr>
<td>278</td>
<td>CREDIT MANAGEMENT (3) I</td>
<td>LUKE</td>
<td>Nature of business credit; instruments and sources of credit; collection methods and control. Pre: Business 151 or consent of instructor.</td>
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<tr>
<td>279</td>
<td>METHODS OF MARKET RESEARCH (3) I</td>
<td>RAMSEY</td>
<td>Specification of problem; data collection; tabulation, interpretation, and presentation of findings. Application in a field study. Pre: Business 270, 282 or consent of instructor.</td>
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<tr>
<td>280</td>
<td>PRINCIPLES OF SALESMANSHIP (3) I</td>
<td>STELLMACHER</td>
<td>Principles of personal selling, types of selling jobs, qualifications of salesmen. Emphasis upon practical problems and techniques of selling.</td>
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<tr>
<td>282</td>
<td>BUSINESS STATISTICS (3) I, II</td>
<td>STAFF</td>
<td>Principles of statistical analysis, including averages, dispersion, sampling, index numbers, time series, correlation, and inference. Pre: Economics 150-151.</td>
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</tr>
</tbody>
</table>
283 APPLIED BUSINESS STATISTICS AND FORECASTING (3) II
Case studies in sampling, correlation, time series. Pre: Business 282 or consent of instructor. Fee $2.00. (Alt. yrs.; not offered 1958–59.)

284 ACCOUNTING SYSTEMS (3) II
Design, installation, and operation of appropriate systems of accounts, records, and reports for different types of business. Pre: Business 251.

286 NEGOTIABLE INSTRUMENTS (3) II
History, nature, and kinds of negotiable instruments and the provisions of the uniform Negotiable Instrument Law. Pre: Business 160–161 or consent of instructor.

287 BUSINESS ORGANIZATION AND MANAGEMENT (3) I, II
Case approach to organization, marketing, finance, and other management problems. Pre: senior standing and Business 265 or consent of instructor.

296 GOVERNMENTAL ACCOUNTING (3) I
Accounting in governmental units; account classification, budgetary procedure, fund accounting, revenues, operating costs. Pre: Business 151. (Alt. yrs.; offered 1958–59.)

299 DIRECTED READING (Ar.) I, II
Pre: consent of department chairman.

300 DIRECTED READING OR RESEARCH (2–2) Yr.
Pre: consent of department chairman.

307 SEMINAR IN PROBLEMS OF BUSINESS (3) II
Pre: consent of department chairman. (Alt. yrs.; offered 1958–59.)

320 ADVANCED MANAGEMENT (3) II

321 MANAGERIAL PROBLEMS OF MARKETING (3) I
Analysis of executive decisions and policies related to securing the optimum competitive position in the marketing structure.

322 PROBLEMS IN BUSINESS FINANCE (3) I

323 APPLIED PROBLEMS OF BUSINESS AND GOVERNMENT (3) I
Problems of business management that arise from specific legislation such as the antitrust, labor, and revenue laws. (Alt. yrs.; offered 1958–59.)

324 MANAGEMENT ACCOUNTING (3) II

Chemistry

Professors E. BILGER, NAUGHTON; Associate Professors FRODYMA, IHRIG, SCHEUER, WAUGH; Assistant Professors LARSON, YASUNOBU, ZEITLIN; Instructor HIU

103 GENERAL CHEMISTRY (4–4) Yr. (3 l, 1 Lb) ZEITLIN, STAFF
Fundamental laws, principles, and methods. Lab fee $10.00 each semester. Pre: high school algebra and plane geometry.

104 SURVEY OF CHEMISTRY (4–4) Yr. (3 l, 1 Lb) BILGER
Survey of general and organic. Lab fee $10.00 each semester. Pre: high school algebra and plane geometry.
105 GENERAL CHEMISTRY AND QUALITATIVE ANALYSIS (5-5) Yr.  (3 L, 2 Lb)  WAUGH
Fundamental principles, theories, and simple analytical techniques. Lab fee $12.00 each semester. Pre: four of any combination of high school mathematics and physical science.

149 ORGANIC CHEMISTRY (4-4) Yr.  (3 L, 1 4-Hr Lb)  SCHEUER
Carbon compounds: classification, structure, reactions. Laboratory techniques. Lab fee $12.00 each semester. Pre: Chemistry 103 or 105.

150 QUALITATIVE ANALYSIS (4) I  (2 L, 2 Lb)  STAFF
Systematic semimicro analysis of inorganic ions; theory of procedures. Lab fee $11.00. Pre: Chemistry 103.

159 ELEMENTS OF ORGANIC CHEMISTRY (4) I  (3 L, 1 Lb)  ZEITLIN
Intensive course. Chemistry of carbon compounds. Lab fee $12.00. Pre: Chemistry 103 or 105.

160 CHEMICAL CALCULATIONS (3) II  STAFF
Problems on fundamental laws of chemistry. Pre: Chemistry 105 or 150; credit or concurrent registration in Mathematics 151. Mathematics 152 advised.

230 ELEMENTARY QUANTITATIVE ANALYSIS (4) II  (2 L, 2 Lb)  NAUGHTON
Beginning gravimetric and volumetric analysis. Lab fee $11.00. Pre: Chemistry 105 or 150; Mathematics 151.

231 INTERMEDIATE QUANTITATIVE ANALYSIS (4) I  (2 L, 2 Lb)  NAUGHTON
Analysis of inorganic mixtures; introductory instrumental analysis. Lab fee $11.00. Pre: Chemistry 230.

232 ELEMENTS OF BIOCHEMISTRY (4) I  (3 L, 1 Lb)  BILGER
Chemistry of biological systems; pertinent laboratory techniques. Lab fee $9.00. Pre: Chemistry 104, 149, or 159.

238 ADVANCED INORGANIC CHEMISTRY (3-3) Yr.  WAUGH
Structure and properties of inorganic compounds. Credit for either or both semesters. Pre: Chemistry 149, 231. (Not offered 1958-59.)

239 INORGANIC CHEMISTRY LABORATORY (1-1) Yr.  WAUGH
Techniques and reactions of inorganic chemistry. Lab fee $10.00. Pre: Chemistry 149, 231; credit or concurrent registration in 238. (Not offered 1958-59.)

246 INTRODUCTION TO CHEMICAL ENGINEERING (3-3) Yr.  (2 L, 1 Lb)  NAUGHTON
Unit operations in chemical engineering practice. Lab fee $8.00. Pre: Chemistry 103; Mathematics 154.

248 PREPARATIVE ORGANIC CHEMISTRY (3) I  (1 L, 2 Lb)  LARSON
Techniques and reagents; their application in organic synthesis. Lab fee $15.00. Pre: Chemistry 149, 231.

250 QUALITATIVE ORGANIC ANALYSIS (4) II  (2 L, 2 Lb)  STAFF
Identification and characterization of pure organic compounds and mixtures. Lab fee $10.00. Pre: Chemistry 149, 231.

251 QUANTITATIVE ORGANIC ANALYSIS (3) II  (1 L, 2 Lb)  HIU
Elemental and functional group analysis by semimicro and micro methods. Lab fee $10.00. Pre: Chemistry 149, 231.

252 ORGANIC CHEMISTRY THEORY (3) II  STAFF
Structural theory; reaction mechanisms. Pre: Chemistry 149, 231.

255 PHYSICAL CHEMISTRY (4-4) Yr.  (3 L, 1 Lb)  IHRIG
Principles and theories; physicochemical procedures. Lab fee $8.00 each semester. Pre: Chemistry 149, 230; Mathematics 154; Physics 102.
DENTAL HYGIENE

260 OCEANOGRAPHIC CHEMISTRY (3) II (2 L, 1 Lb) ZEITLIN
Chemistry of oceans. Analytical oceanographic methods. Lab fee $8.00. Pre: Chemistry 230 or consent of instructor.

266 CLINICAL CHEMISTRY (4) II (2 L, 2 Lb) BILGER
Analysis for diagnosis and prognosis; pathological chemistry of human organism. Lab fee $9.00. Pre: Chemistry 230, 232.

272 BIOCHEMISTRY (3–3) Yr. YASUNOBU
Chemistry of biological compounds and systems. Pre: Chemistry 149, 231.

290 RECENT ADVANCES IN CHEMISTRY (2) I STAFF
Advances in different fields. May be repeated with change in content. Open to seniors or graduates, or with consent of instructor.

295 CHEMICAL LITERATURE (2) II STAFF
Use of literature. Library problems. One lecture, one library period. Open to seniors and graduates.

299 DIRECTED READING OR RESEARCH (Ar.) I, II STAFF
Limited to senior majors with 2.7 grade-point ratio, or 3.0 grade-point ratio in chemistry. Fee $5.00 per credit.

300 DIRECTED RESEARCH (Ar.) I, II STAFF
Pre: graduate standing; consent of department chairman. Fee $5.00 per credit.

338 ATOMIC STRUCTURE (3–3) Yr. WAUGH
Theories of atomic and nuclear structure. Pre: credit or concurrent registration in Chemistry 255; Mathematics 154; Physics 102. Either or both semesters.

349 SPECIAL TOPICS IN ORGANIC CHEMISTRY (3–3) Yr. SCHEUER
Four-semester cycle; stereochemistry, mechanisms, cyclic compounds, natural products. May be taken four semesters. Pre: Chemistry 252.

350 SPECIAL TOPICS IN PHYSICAL CHEMISTRY (3–3) Yr. IHRIG
Four-semester cycle; kinetics, thermodynamics, molecular structure, colloids. May be taken four semesters. Pre: Chemistry 255.

352 INSTRUMENTAL METHODS OF ANALYSIS (2–2) Yr. (1 L, 1 Lb) NAUGHTON
Four-semester cycle; optical, electrometric, radiometric, general physical. Lab fee $5.00. May be taken four semesters. Pre: credit or concurrent registration in Chemistry 255.

360 SEMINAR (1–1) Yr. IHRIG
Current work in chemistry. Open to seniors and graduates.

Dental Hygiene

Instructor KOGA; Lecturers AKAMINE, BELLANDO, CONNER, DAWE, GLYNN, MAJOSKA, SAMPLE, B. SHERMAN

Dental Hygiene 200, 201, 251, 252, 256, 258, 260, 262, 264, and 265 may be elected by students in other colleges and curricula.

200 TOOTH MORPHOLOGY (1) I KOGA
Designed to provide the student with an opportunity to carve models of anterior and posterior teeth, showing general form, cusps, planes, and angles.

201 DENTAL HYGIENE EDUCATION (2) II KOGA
Methods, materials, and visual aids for teaching dental health; relationship of the dental hygienist to dental hygiene and dentistry, and the ethics and economics involved.
235 DENTAL PROPHYLACTIC TECHNIQUE (2) II  
Laboratory instruction and practice on manikins in the operative technical procedures of instrumentation and polishing.

251 DENTAL ANATOMY (3) I  
Anatomy of the teeth; bones of the skull; muscles of mastication, tongue, face, pharynx; glands of the oral cavity; 5th, 7th cranial nerves; blood vessels of the head and neck.

252 DENTAL PROPHYLAXIS (1) I  
Prophylactic treatment of the mouth, with special attention to measures which can prevent or arrest dental caries and adjacent-tissue degeneration.

254 CLINICAL PRACTICE (5–5) Yr.  
Supervised clinical prophylactic practice on patients, and classroom teaching.

256 DENTAL CARIES (2) II  
Etiology, progress, and prevention of caries. Composition, location, and causes of accretions, deposits, and stains; their harmful results; preventive measures.

258 DENTAL HISTOLOGY (1) II  
Fundamentals of dental embryology and histology. Formation, structure, and function of enamel, dentin, cementum, pulp, periodontium, alveolar process, and gingiva.

260 ORAL PATHOLOGY (1) I  
Study of the fundamental processes of systemic disease with emphasis on oral diseases. Clinical and microscopic manifestations discussed and related to dental hygiene.

262 MATERIA MEDICA (2) I  
Derivation and effects of drugs most commonly used in dentistry. Relative values of germicides, antiseptics, disinfectants; analysis of formulae of dentifrices, mouth washes.

264 ORTHODONTICS (1) II  
Basic principles, normal occlusion, malocclusion, case analysis for classification, etiology of malocclusion, growth of the cranium, facial bones, and tooth eruption.

265 DENTAL ROENTGENOGRAPHY (1) II  
A lecture-laboratory course in the study, technique, and use of the roentgen ray in its application to dentistry.

354 DENTAL HYGIENE INTERNSHIP (14) I, II  
Supervised intern practice—the teaching of dental health in conjunction with clinical and follow-up work in selected public schools; dental hygiene seminar.

**Drama and Theatre**

Professors ERNST, TRAPIDO; Assistant Professors BENTLEY, LANGHANS

140 INTRODUCTION TO DRAMA AND THEATRE (3) I, II  
Representative plays from Miller’s *Death of a Salesman* to Aeschylus’ *Agamemnon*, studied as illustrative of changing forms in the theatre and dramatic literature.

150–151 DRAMATIC PRODUCTION (3–3) Yr.  
Introduction to basic theories and practices of the theatre. Coordinated with activities of the Theatre Group. Students may enter the second semester.

200 THEATRE PRACTICE (2) I, II  
Supervised work in the arts and crafts of the theatre, in conjunction with productions. Intended for the general student rather than drama majors. May be repeated once.
210 CREATIVE DRAMATICS (3) I, II
BENTLEY
Intensive study of dramatic activities for children and young people. Designed for teachers, group workers, recreation majors, and others dealing with children.

216 PLAYWRITING (3) II
LANGHANS
Study of one-act plays; practice in writing in the dramatic form; possibility of production by the Theatre Group. Pre: consent of instructor.

220-221 ACTING (3-3) Yr.
BENTLEY
Individual exercises and group rehearsals. Coordinated with the productions of the Theatre Group. Students may enter the second semester.

230 DIRECTION (3) I
TRAPIDO
Readings, reports, discussion of the theory and practice of stage direction. (Not offered 1958-59.)

240 STAGECRAFT AND THEATRE PLANNING (3) II
TRAPIDO
Principles and practices of modern stagecraft: theories of stage production; planning of small theatres; stage arrangement. (Alt. yrs.; not offered 1958-59.)

245 STAGE LIGHTING (3) I
TRAPIDO
Modern and historic methods of lighting the stage; elementary electrical theory as used on stage; stage lighting equipment. (Alt. yrs.; offered 1958-59.)

250 HISTORY OF THE THEATRE (3) I
LANGHANS
Survey of the development of the theatre from the earliest times to the present. (Alt. yrs.; offered 1958-59.)

260 MODERN THEORIES OF STAGE PRESENTATION (3) II
ERNST
Recent and current theories of production critically analyzed and reviewed. (Alt. yrs.; not offered 1958-59.)

265 AESTHETICS OF THE THEATRE (3) I
ERNST
Consideration of the aesthetic bases of the theatre. Readings, discussion, reports. (Alt. yrs.; offered 1958-59.)

299 DIRECTED WORK (Ar.) I, II
STAFF
Limited to senior majors with 2.7 grade-point ratio, or 3.0 grade-point ratio in drama and theatre.

300 DIRECTED WORK (Ar.) I, II
STAFF
Reading or research in theatre theory or history; reading and practice in particular areas of dramatic production. Pre: consent of instructor.

320 SEMINAR IN DRAMA AND THEATRE (3) II
ERNST
Significant topics and problems in the field of drama. Pre: consent of instructor. May be repeated. (Not offered 1958-59.)

350 SEMINAR IN ORIENTAL THEATRE (3) I
ERNST
Special topics in the drama and theatre of the Orient. Reading, discussion, reports. Pre: consent of instructor. (Not offered 1958-59.)

Economics

Senior Professor ROBERTS; Professors KAMINS, LEONG; Associate Professors FERGUSON, IGE, MARK, PENDELETON; Assistant Professors BELL, CONGDON, KIRKPATRICK, SLATE, STELLMACHER; Instructors CRUTCHFIELD, RAMSEY

Economics 150-151 is prerequisite to all courses in economics except 140, 281, 282, 287, 289, 294.

140 INTRODUCTION TO ECONOMICS (3) I, II
STAFF
Principles underlying consumption, production, exchange, and distribution. Not open to majors in economics or business. Credit cannot be obtained in this and 150-151.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor(s)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>150-151</td>
<td>PRINCIPLES OF ECONOMICS (3-3) Yr.</td>
<td>STAFF</td>
<td>Principles of production, income, prices and distribution in the American economy.</td>
</tr>
<tr>
<td>252</td>
<td>ECONOMIC PROBLEMS OF ASIA AND THE FAR EAST (3) II</td>
<td>MARK</td>
<td>China, India, Japan, and Southeast Asia. Resource development, capital formation, industrialization; planning in underdeveloped areas. (Alt. yrs.; not offered 1958-59.)</td>
</tr>
<tr>
<td>254</td>
<td>COMPARATIVE ECONOMIC SYSTEMS (3) I</td>
<td>LEONG</td>
<td>Comparative study of existing economic systems; analysis of assumptions underlying their operations; appraisal of their effectiveness in solving economic problems.</td>
</tr>
<tr>
<td>256</td>
<td>MONEY AND BANKING (3) I, II</td>
<td>KIRKPATRICK, CHANDLER</td>
<td>United States monetary system, principles of commercial and central banking; the Federal Reserve, the Treasury, and credit control; monetary theory.</td>
</tr>
<tr>
<td>261</td>
<td>PUBLIC FINANCE (3) I, II</td>
<td>KAMINS, LEONG</td>
<td>Government expenditures; taxes and other revenues; public debts; budgeting. Examination of institutions, economic effects, and fiscal policy.</td>
</tr>
<tr>
<td>262</td>
<td>PUBLIC FINANCE IN HAWAII (3) I</td>
<td>KAMINS</td>
<td>Territorial and county revenues, expenditures, debts, and fiscal administration. Tax structure. Pre: Economics 261 or consent of instructor. (Alt. yrs.; not offered 1958-59.)</td>
</tr>
<tr>
<td>264</td>
<td>INTERMEDIATE ECONOMIC THEORY (3) I</td>
<td>MARK</td>
<td>Price determination and resource allocation under competition, monopoly, oligopoly, and monopolistic competition. Theories of demand, cost, partial and general equilibrium.</td>
</tr>
<tr>
<td>266</td>
<td>NATIONAL INCOME AND EMPLOYMENT (3) II</td>
<td>MARK</td>
<td>National income concepts; determination of income, employment, and price levels; effects of fiscal, monetary, and other policies. Pre: Economics 256 or consent of instructor.</td>
</tr>
<tr>
<td>270</td>
<td>PUBLIC UTILITIES (3) I</td>
<td>PIHANAIA</td>
<td>Economic nature and history of public utilities; critical discussion of their control by governments.</td>
</tr>
<tr>
<td>281</td>
<td>LABOR PROBLEMS (3) I</td>
<td>IGE</td>
<td>Study of wages, hours, working conditions, employment, and other labor problems. Structure and operation of trade unions.</td>
</tr>
<tr>
<td>282</td>
<td>AMERICAN TRADE UNIONISM (3) II</td>
<td>PENDLETON</td>
<td>Growth and development of American trade unionism.</td>
</tr>
<tr>
<td>283</td>
<td>LABOR LEGISLATION (3) I</td>
<td>CRUTCHFIELD</td>
<td>General principles of labor law; emphasis upon applicable statutes and their economic implications. Pre: Economics 110 may be substituted for 150-151.</td>
</tr>
<tr>
<td>285</td>
<td>INTERNATIONAL TRADE AND FINANCE (3) II</td>
<td>KIRKPATRICK</td>
<td>Theory, foreign exchange rates, balance of payments adjustment; recent international commercial and financial policy. Pre: Economics 256 or consent of instructor.</td>
</tr>
<tr>
<td>287</td>
<td>PUBLIC RELATIONS (3) II</td>
<td></td>
<td>Basic principles of public relations as a function of modern business. Mediums and tools defined, and use studied.</td>
</tr>
<tr>
<td>289</td>
<td>ARBITRATION OF GRIEVANCES (3) II</td>
<td>ROBERTS</td>
<td>Purpose and functions of grievance procedure; background and procedure of arbitration; substance of arbitration; illustrative cases. Pre: Economics 281.</td>
</tr>
</tbody>
</table>
291 AGRICULTURAL ECONOMICS (3) I
Bell
The economic aspects of agricultural production, marketing, credit, taxation, prices, and income. Pre: Economics 140 may be substituted for 150–151.

292 LAND ECONOMICS (3) I
Bell
Economic principles and institutions that influence land utilization and ownership. Pre: Economics 140 may be substituted for 150–151.

294 RESEARCH IN INDUSTRIAL RELATIONS (3) I
Slate
Individual practice in the techniques and procedures of social research as applied to an actual problem of labor-management relations.

296 HISTORY OF ECONOMIC THOUGHT (3) I
Kirkpatrick
Survey of economic thought from Adam Smith to the present with emphasis on the theory of value and distribution. Pre: senior standing.

299 DIRECTED READING (Ar.) I, II
Staff
Limited to senior majors with 2.7 grade-point ratio, or 3.0 grade-point ratio in economics.

300 DIRECTED READING OR RESEARCH (2–2) Yr.
Staff
Pre: consent of department chairman.

301 THEORY OF PRICE AND DISTRIBUTION (3) I
Slate

302 THEORY OF INCOME AND GROWTH (3) II
Mark
Advanced analysis of theories of income and employment. Dynamic income analysis; theories of capital and economic growth. Pre: Economics 264, 266.

310 SEMINAR IN CURRENT LABOR PROBLEMS (3) II
Ige
Pre: consent of instructor.

315 SEMINAR IN ECONOMIC PROBLEMS (3) I, II
Staff
(a) Economic development. Pre: Economics 264, 266 or equivalent. (Alt. yrs.; offered 1958–59.)
(b) Money and banking. Pre: Economics 256, 266. (Alt. yrs.; offered 1958–59.)
(c) Fiscal problems. Pre: Economics 261. (Alt. yrs.; not offered 1958–59.)
(d) International economics. Pre: Economics 264 or 285. (Alt. yrs.; not offered 1958–59.)

Education

Professors Bevers, Clopton, Everly, Ewing, Porter; Associate Professors R. Alm, Crossley, In, Lampard, Martin, Meyer, Tull; Assistant Professors Amato, Amoka, Bilous, Bennett, Breneman, Crawford, Davis, Doi, Fitzsimmons, Fletcher, Geiser, Hayes, Inn, Jenkins, Nelson, Nightingale, Sueoka, Tinker, Traut; Instructors J. Alm, W. L. Chang, Crooker, Erickson, Gillespie, Hiratzka, H. Johnson, M. Kosaki, Larm, Mundy, Reddin, St. Denis, Sanner, Schuman

Enrollment in education courses is restricted to students in Teachers College except by special permission of the chairman of the department.

100 ORIENTATION (1–1) Yr.
Doi, Kosaki, Lampard
Survey of students' problems of University adjustment; teaching as a profession; choice of a teaching field. Lab fee $1.00 first semester.

216 BOOKKEEPING AND OFFICE PRACTICE (2) II
Teaching bookkeeping, office practice, and other subjects in the secondary school commercial curriculum. Pre: Business 150–151; Education 250.
229 SCIENCE, ELEMENTARY (2) I, II  
Science education in the elementary school; developing concepts and understandings in grades 1 through 6. Pre: Education 285.

230 CURRICULUM IN ELEMENTARY EDUCATION (10) I  
Teaching elementary school social studies, science, mathematics, language arts, and children's literature. Pre: Education 280; Psychology 185.

236 BASIC SKILLS, PRESCHOOL-PRIMARY (2-2) Yr.  
Materials and procedures for teaching language arts and arithmetic to children 3 to 7. Pre: Education 283.

237 PRESCHOOL-PRIMARY MUSIC (2) I, II  
Singing, simple work with instruments, rhythmic activities, dancing, dramatic play and listening experiences for children 2 to 7. Pre: Education 283.

238 PRESCHOOL-PRIMARY ART (2) II  
Materials and procedures in a variety of art media, and construction activities for children from 2 to 7. Course fee $2.00. Pre: Education 283.

239 SCIENCE, PRESCHOOL-PRIMARY (2) I  
Procedures and materials for teaching natural, physical, and social sciences to young children. Pre: Education 283.

240 SOCIAL STUDIES, ELEMENTARY (2) I, II  
Scope and organization of the social studies for the elementary school. Pre: Education 285.

241 MATHEMATICS, ELEMENTARY (2) I, II  

242 HAWAIIAN NATURAL HISTORY (2-2) Yr.  
Survey of the local physical and biological environment, with special reference to the needs of teachers in the schools of Hawaii. Students may enter the second semester.

243 LANGUAGE ARTS, ELEMENTARY (3) I, II  
The modern approach to the teaching of language arts—reading, oral and written expression; materials for grades 1 through 6. Pre: Education 285.

244 LITERATURE, ELEMENTARY (2) I, II  
Acquaintance with a wide range of children's books; criteria for judging literature on the basis of children's needs and interests. Pre: Education 285.

245 SCIENCE, SECONDARY (3) I, II  

246 MATHEMATICS, SECONDARY (2) II  
Purpose and procedures. The development of basic mathematical concepts. Pre: credit or concurrent registration in Education 250.

247 SOCIAL STUDIES, SECONDARY (3) I, II  

248 TEACHING OF READING IN INTERMEDIATE AND HIGH SCHOOL (2) I  
Techniques and materials for teaching reading and improving reading skills in the intermediate and high school.
249 TEACHING OF TYPEWRITING AND SHORTHAND (2) I
Theory and methods of teaching typewriting and shorthand. Pre: Business 170 and 177; credit or concurrent registration in Education 250.

250 SECONDARY EDUCATION (5) I, II
Basic course dealing with major problems of secondary education. Pre: Psychology 186.

252 TEACHING PHYSICAL EDUCATION ACTIVITIES (2) I
Methods and materials in the conduct of the physical activities program. Techniques in leadership, including the selection of activities and program evaluation.

253 PRACTICE TEACHING IN HOME ECONOMICS (6) I, II
Observation, supervised teaching, and conferences. Pre: senior standing; credit or concurrent registration in Home Economics 251.

254 PRACTICE TEACHING (14) I, II
Supervised by staff members of the University Preschool, Elementary, and High Schools. Pre: Education 284, or 286, or 250, or 280. Follows Laboratory School calendar.

255 SEMINAR FOR PRACTICE TEACHERS (2) I, II
Study of problems arising from immediate experience as classroom teachers. To be taken concurrently with 254.

256 SEMINAR IN HOME ECONOMICS (2) I, II
Study of problems arising from immediate experience as practice teachers in home economics. To be taken concurrently with 253.

257 LANGUAGE ARTS, SECONDARY (3) II
Teaching of speaking, reading, writing, and listening in the secondary school; literature, grammar, usage, and spelling. Pre: Education 250.

260 ENGLISH IN THE ELEMENTARY SCHOOL (2) II
Special problems in teaching spelling, language usage, grammar, and creative writing. Parallels 243 for prospective teachers; credit may not be earned in both courses.

261 TESTS AND MEASUREMENTS (3) I, II
Theory and techniques of evaluation in education. Lab fee $8.00, including $7.00 for the National Teacher Examination. Pre: Education 250 or 280, or 284 or 286.

262 CREATIVE ART, ELEMENTARY (2) I, II
Understanding of the creative use of art materials, tools, ideas, and their sources. Fee $5.00. Pre: Art 142; Education 286.

263 CREATIVE ART, SECONDARY (2) II
Teaching art in secondary schools; the arts related to all school subjects. Fee $5.00. Pre: Education 250.

266 GUIDANCE MATERIALS AND RESOURCES (3) I
Sources of information; professional organizations and personnel; the material aids to counseling; the research function of the counselor.

267 OCCUPATIONAL INFORMATION IN GUIDANCE (2) II
Occupational research and survey techniques; trends; sources of materials; use of occupational information in vocational guidance; correlation with other school subjects.

268 ELEMENTARY SCHOOL GUIDANCE (2) II
Principles, techniques, and organization of guidance services in the elementary school. Pre: Education 286, 261; Psychology 185, 292; consent of instructor.

269 PROBLEMS OF SCHOOL ADJUSTMENT (2) I
Principles of behavior which affect human relationships in the school, with emphasis upon application to actual situations. Pre: teaching experience.
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<tr>
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<tr>
<td>276</td>
<td>SCHOOL MUSIC, SECONDARY (3-3) Yr.</td>
<td>MUNDY</td>
<td>Objectives, materials, and procedures of general, instrumental, and choral music in the secondary school.</td>
</tr>
<tr>
<td>279</td>
<td>SPEECH AND DRAMATICS IN THE SECONDARY SCHOOL (3) I</td>
<td>BRENEMAN</td>
<td>Techniques for teaching types of speech and play analysis and direction; production and management problems.</td>
</tr>
<tr>
<td>282</td>
<td>LITERATURE FOR ADOLESCENTS (2) I</td>
<td>J. ALM</td>
<td>Literature for secondary school level; helping students appreciate the significance and meaning of literature; materials suitable to varying levels of ability and interests.</td>
</tr>
<tr>
<td>283-284</td>
<td>PRESCHOOL-PRIMARY EDUCATION (4-4) Yr.</td>
<td>NIGHTINGALE</td>
<td>Basic course in major problems in the education of children of ages 2 to 7. Pre: Psychology 185; 283 is prerequisite to 284.</td>
</tr>
<tr>
<td>285-286</td>
<td>ELEMENTARY EDUCATION (4-4) Yr.</td>
<td>STAFF</td>
<td>Basic course in the education of children ages 7 to 12; observation and work with children. Pre: Psychology 185; 285 is prerequisite to 286.</td>
</tr>
<tr>
<td>287</td>
<td>AUDIO-VISUAL EDUCATION (3) I, II</td>
<td>SANNER</td>
<td>Theory, preparation, and use on all school levels of sensory aids to learning. Course fee $3.00.</td>
</tr>
<tr>
<td>290</td>
<td>TEACHING SLOW LEARNERS (2) II</td>
<td></td>
<td>Social, psychological, and procedural problems involved in the teaching of slow learners in the normal classroom. Pre: teaching experience.</td>
</tr>
<tr>
<td>291</td>
<td>TEACHING GIFTED CHILDREN (2) I</td>
<td></td>
<td>Problems of motivating and evaluating learning experiences of gifted children in the normal classroom. Pre: teaching experience.</td>
</tr>
<tr>
<td>293</td>
<td>TEACHING OF READING IN THE ELEMENTARY SCHOOL (2) I</td>
<td></td>
<td>Various techniques and materials for teaching reading and for improving reading skills in the elementary school.</td>
</tr>
<tr>
<td>294</td>
<td>REMEDIAL READING (2) II</td>
<td></td>
<td>Techniques for motivating and helping children whose reading skills are below their capacity and needs.</td>
</tr>
<tr>
<td>299</td>
<td>DIRECTED READING (Ar.) I, II</td>
<td>STAFF</td>
<td>Individual reading in (1) preschool education, (2) elementary education, (3) secondary education, (4) history of education, (5) audio-visual education, (6) philosophy of education, (7) administration and supervision, (8) adult education, (9) agricultural education, (10) curriculum, (11) guidance and counseling, (12) music education, (13) educational measurement, (14) science education, (15) special education, (16) reading and language, (17) library science, (18) vocational education. Limited to senior majors with 2.7 grade-point ratio, or 3.0 grade-point ratio in education. Pre: consent of instructor and of department chairman. Credit in Education 250 or 280, or 283-284, or 285-286, or the equivalent, is required for registration in any education course numbered 300 or above.</td>
</tr>
<tr>
<td>300</td>
<td>DIRECTED READING OR RESEARCH (Ar.) I, II</td>
<td>STAFF</td>
<td>Individual reading or research in the same fields as in 299. Pre: graduate standing; consent of department chairman and instructor.</td>
</tr>
<tr>
<td>322</td>
<td>EXTRA-CLASS ACTIVITIES IN SECONDARY SCHOOLS (2) II</td>
<td></td>
<td>Planning and supervising student government, dramatics, athletics, school journalism, campaigns, contests, and other activities.</td>
</tr>
</tbody>
</table>
326 ADMINISTRATION OF THE SECONDARY SCHOOL (2) I  CROSSLEY
Organization and administration; curriculum; schedules; personnel; plant; public relations. Pre: Education 390; teaching experience.

327 ADMINISTRATION OF THE ELEMENTARY SCHOOL (2) I  CROSSLEY
Curricula and programs; reports to parents, pupils, staff; plant; community relations; problems of the small school. Pre: Education 390; teaching experience.

328 SUPERVISION OF INSTRUCTION (2) II  CROSSLEY
Principles and methods; in-service improvement; faculty meetings; evaluation of teaching; development of group leadership. Pre: Education 390; teaching experience.

329 CURRICULUM CONSTRUCTION (3) I  KOSAKI
Principles of curriculum construction on all levels; resource and teaching units; methods of revision. Pre: teaching experience; consent of instructor.

332 CLINICAL PROCEDURES IN READING (3) I  R. ALM
Diagnosis and improvement of reading in elementary and secondary schools. Pre: Education 294; consent of instructor.

340 PHILOSOPHY OF EDUCATION (3) I, II  CLOPTON
Philosophy and science in education; social, psychological, and ethical considerations essential to a philosophy of education.

345 SEMINAR IN PHILOSOPHY OF EDUCATION (2) II  CLOPTON
Social and psychological theory involved in educational issues. Pre: Education 340; consent of instructor. May be repeated.

350 HISTORY OF EDUCATION (2) I, II  CLOPTON
History of educational thought and practice as a basis for the study of modern school problems.

354 INTERNSHIP (14) I, II  STAFF
Full-time teaching under special supervision. Restricted to fifth-year students. First semester work begins September 2, 1958; the second semester ends June 10, 1959.

356 GUIDANCE PRACTICUM (3) I, II  DOI
Supervised experience in guidance activities in schools. Guidance majors only.

360 LEGAL AND BUSINESS ASPECTS OF SCHOOL ADMINISTRATION (2) II  CROSSLEY
Advanced course in legal and business controls and practices in the public school system. Pre: Education 326 or 327; consent of instructor.

362 ORGANIZATION AND ADMINISTRATION OF GUIDANCE (2) II  DOI
Organization and administration of guidance as part of student personnel services; role of the administrator. Pre: introductory course in guidance.

363 SEMINAR IN EDUCATIONAL ADMINISTRATION (2) I, II  CROSSLEY
Analysis of selected problems in school administration. Pre: Education 326 or 327; consent of instructor. May be repeated.

364 TESTS AND INVENTORIES IN GUIDANCE (2) II  DOI
Tests and inventories for measuring aptitudes, interests, and modes of behavior. Pre: Education 261 or Psychology 264.

365 SEMINAR IN SUPERVISION AND CURRICULUM (2) I, II  CROSSLEY
Analysis of selected problems in supervision, instruction, and curriculum. Pre: Education 328, 329; consent of instructor. May be repeated.

368 SEMINAR IN EDUCATIONAL LEADERSHIP (4-4) Yr.  CROSSLEY
Seminar and supervised field work in educational leadership. Pre: acceptance in D.P.I. Leadership Training Program.
380 RESEARCH AND THESIS WRITING (3) I
Beyers
Research techniques and thesis development. Pre: Education 340; Psychology 260; consent of instructor. $6.00 fee for Graduate Record Examination.

382 EDUCATIONAL EVALUATION (3) II
Beyers
Educational objectives and evaluation methods; synthesis of data from objective and some subjective sources. Pre: Education 261 or Psychology 260.

390 PUBLIC SCHOOL ORGANIZATION (2) I, II
Everly
The function of the teacher in school administration; state and territorial organization of public education; Hawaiian school law and D.P.I. regulations.

395 SEMINAR FOR INTERN TEACHERS (2) I, II
Staff
Problems arising from classroom experiences of intern teachers. Restricted to fifth-year students. To be taken concurrently with Education 354.

Engineering

Professors Daniel, Downs, Harloe, Tinnswood; Associate Professors Avery, Engman, Evans; Assistant Professors Chiu, Corba, Mitsuda, Serbousek, Walker; Lecturers Ching, Lo, W. Lum, Wimer

CE 100 ENGINEERING ORIENTATION (1) I
Avery

CE 101 SURVEYING (4) I (2 L, 2 Lb)
Daniel, Staff
Use of tape, level, and transit; horizontal and vertical control surveys; computations. Pre: Mathematics 150, MD 101. Lab fee $3.00.

CE 102 SURVEYING (4) II (2 L, 2 Lb)
Daniel, Staff
Topographic mapping; curves; earthwork computations; hydrographic and city surveys; route problems. Pre: Mathematics 151, 152; MD 101; CE 101. Lab fee $3.00.

CE 227 SURVEYING (3)
Staff
Field work; curves, earthwork, grades, reconnaissance, preliminary surveys, route location, design. Pre: CE 102. Lab fee $4.00. Summer session only.

CE 228 WATER SUPPLY (3) I
Tinnswood
Design, construction, and maintenance of water works; water purification and control. Pre: CE 255.

CE 229 SEWERAGE AND SEWAGE TREATMENT (3) II
Tinnswood
Design, construction, and maintenance of sewage works; sewage and industrial waste treatment. Pre: CE 228, 255.

CE 231 SOIL MECHANICS (3) II (2 L, 1 Lb)
Evans
Physical factors in earth pressure phenomena; soil stability; soil properties in earthwork operations and foundations. Pre: CE 253. Lab fee $1.00.

CE 251 STATICS (3) II
Avery, Staff
Engineering applications, analysis of static equilibrium, free-body diagrams. Pre: one semester of Physics 104.

CE 252 DYNAMICS (3) I
Mitsuda, Staff
Plane dynamics and kinematics of particles and rigid bodies in translation, rotation, and plane motion. Work, energy, power. Pre: CE 251.

CE 253 STRENGTH OF MATERIALS (4) I (3 L, 1 Lb)
Engman, Staff
CE 254  MECHANICS OF MATERIALS (1) I, II  (1 Lb)  EVANS, STAFF
Testing and observation of materials under various stress conditions. Lab fee $4.00.

CE 255  FLUID MECHANICS (4) II  (3 L, 1 Lb)  TINNISWOOD, STAFF
Fluid statics, kinematics of fluid flow, momentum and energy equations, flow in pipes, open channel flow, and fluid measurements. Pre: CE 252 or Physics 263. Lab fee $1.00.

CE 257  HIGHWAY ENGINEERING (3) I  EVANS
Design, construction, and maintenance of streets and highways; planning, financing. Pre: CE 227, 231.

CE 262  CONCRETE (2) II  (1 L, 1 Lb)  EVANS, STAFF
Standard tests for concrete, cements, and aggregates used in making concrete. Pre: credit or concurrent registration in CE 253. Lab fee $5.00.

CE 263  ADVANCED MATERIALS TESTING (Ar.) II  EVANS
Application of tests to investigations of physical characteristics of local engineering materials. Pre: CE 254, 262. Lab fee $5.00.

CE 276  STRUCTURAL THEORY (3) II  (2 L, 1 Lb)  ENGMAN, STAFF
Shear and moment diagrams, bridge and roof trusses, graphic statics, moving loads and influence lines, three-hinged arch and space frameworks. Pre: CE 253.

CE 277  STRUCTURAL DESIGN (3) II  (2 L, 1 Lb)  CHIU, STAFF

CE 278  INDETERMINATE STRUCTURES (3) I  CHIU, ENGMAN
Analysis of indeterminate trusses, beams, rigid frames, and continuous structures by classical methods, moment distribution and column analogy. Pre: CE 276.

CE 279  REINFORCED CONCRETE (3) I  (2 L, 1 Lb)  CHIU, ENGMAN
Theory and design of reinforced concrete beams, columns, combined stresses, footings, and retaining walls. Pre: CE 253, 276.

CE 280  REINFORCED CONCRETE DESIGN (3) II  (2 L, 1 Lb)  CHIU, ENGMAN

CE 291  ENGINEERING ECONOMY (2) II  HARLOE, STAFF
Application of economic principles to engineering problems. Pre: Economics 140; senior standing.

CE 292  CONTRACTS AND SPECIFICATIONS (2) II  HARLOE, STAFF
Business, legal, and ethical aspects of engineering; contracts and specifications with special reference to local requirements. Pre: senior standing.

CE 293  PHOTOGRAMMETRY (3) I  DANIEL, STAFF
Basic principles; photographic equipment; control; methods of compilation; mosaics. Pre: CE 227. Lab fee $2.00.

CE 295  HYDROLOGY (3) I  STAFF

CE 296  ADVANCED HYDRAULICS (3) I  STAFF
Nonuniform flow, theory of hydraulic jump, water hammer, backwater curves; pipe networks; hydraulic machinery. Pre: CE 255.

CE 297  HYDRAULIC STRUCTURES (3) II  STAFF
Hydraulic and structural considerations in the design of dams, gates, canals, breakwaters, and piers. Pre: CE 255, 278, 279.
CE 298 ADVANCED STRUCTURAL THEORY (3) II
Column analogy, moment distribution, haunched beams, continuous girders, rigid frames, arches; secondary stresses. Pre: CE 278, 279.

CE 299 SPECIAL PROBLEMS (Ar.) I, II
Individual investigation in engineering as approved by instructor. Limited to seniors with 2.7 grade-point ratio, or 3.0 grade-point ratio in engineering.

MD 101 ENGINEERING DRAWING (2) I (2 Lb)
Basic fundamentals, freehand orthographic and pictorial sketching, instrument drawing and principles related to the graphic language of engineering. Lab fee $2.00.

MD 152 DESCRIPTIVE GEOMETRY (2) II (2 Lb)
Graphical solution of problems involving points, lines, and surfaces, and their application to engineering. Pre: MD 101. Lab fee $2.00.

ME 210 KINEMATICS (3) II
The motion of machine elements and the transmission of motion through mechanical devices. Pre: MD 152; CE 252.

ME 282 ELEMENTS OF HEAT POWER (3) II
Fundamentals of thermodynamics; internal combustion engines; refrigeration. Pre: Physics 101. Students cannot get credit for both ME 282 and 283.

ME 283 THERMODYNAMICS (3) I
Fundamentals of thermodynamics and their application to the efficient production and utilization of power. Pre: Chemistry 103; Physics 104; Mathematics 154.

ME 284 STEAM POWER (3) I
Performance of steam generating and consuming equipment. Selection of industrial steam equipment. Pre: ME 283; registration in ME 285.

ME 285 HEAT POWER LABORATORY (1) I (1 Lb)
Use of mechanical, electrical, and electronic equipment in testing mechanical and thermodynamic machinery. Pre: registration in ME 284. Lab fee $5.00.

ME 286 INTERNAL COMBUSTION ENGINES (3) I
Basic principles underlying the functioning of internal combustion engines. Emphasis upon fuels, combustion, heat transfer, lubrication. Pre: ME 283.

ME 287 HEAT POWER LABORATORY (1) II (1 Lb)
Mechanical, electrical, and electronic equipment used in testing mechanical and thermodynamic machinery. Internal combustion engine tests. Pre: ME 285. Lab fee $5.00.

ME 293 AIR CONDITIONING AND REFRIGERATION (3) II
Refrigeration and air conditioning apparatus and their application to industrial and residential use. Pre: ME 283.

EE 122 ELEMENTS OF ELECTRICAL ENGINEERING (4) II
A first course designed to develop electrical engineering concepts from concurrently studied physics of electricity and magnetism.

EE 234 CIRCUIT ANALYSIS (5) I
DC and simple AC circuits, single-phase and balanced polyphase circuits. Laboratory exercises in measurements, circuits, and simple DC machinery.

EE 267 ELECTRONICS LABORATORY (1) II (1 Lb)
Experimental aspects of Physics 258, electronics, taught in the laboratory. Pre: concurrent registration in Physics 258.
English

Senior Professor Stroven; Professors Bouslog, Day, Green, Korn; Associate Professors Fujimura, George, Heiser, Lowers, Stempe1, Summersgill; Assistant Professors Brown, Frierson, Huntsberry, Langhans, Leib, Maney, Teevan, Winters; Instructors Abrums, Brenneisen, Castro, Crymes, Derstine, Krivoi, V. Miller, Newton, R. Scott, Sinclair, Topham, P. White

100 COMPOSITION (3) I STAFF
Five-hour course required of foreign students who do not qualify for English 101. Identical with 101 except for additional time given to remedial work.

101 COMPOSITION (3–3) Yr. STAFF
Principles and practice of composition.

102 INTERMEDIATE COMPOSITION (3) I STAFF
Accelerated course for entering freshmen with considerable experience in writing. Substitutes for 101. Admission through the dean and a special examination prior to registration.

109 BUSINESS ENGLISH (3) II STAFF
Forms of business communication: letters, reports, analyses, records. Open only to students in business administration. Pre: English 101C or the equivalent.

119 JOURNALISM WORKSHOP (1) I, II SCOTT
Reporting, proofreading, copy editing, or photography, under supervision of Ka Leo editors and adviser.

120 NEWSWRITING (3) I SCOTT
News style, story structure; work on Ka Leo. Pre: English 101C.

123 EDITORIAL WORKSHOP (1) I, II SCOTT
Restricted to, and required of, executives of Ka Leo.

124 NEWS MECHANICS (2) II SCOTT
Newspaper organization; editing; headlines; makeup; typography; photos; rewriting. Pre: English 101C.

150 MAJOR WORKS OF ENGLISH AND AMERICAN LITERATURE (3–3) Yr. STAFF
From the Middle Ages to the present. This course, or 152, is prerequisite to all advanced courses in English and American literature.

152 WORLD LITERATURE (3–3) Yr. STAFF
Major works of classical, oriental, European, and American literature. May be substituted for 150.

155 TYPES OF EUROPEAN AND AMERICAN LITERATURE (3) I, II STAFF
Poetry, drama, essays, prose fiction; sixteenth century to the present. Open only to students in applied science, business administration, and agriculture.

202 ADVANCED EXPOSITORY WRITING (3) I, II STAFF
Expository and descriptive writing, with emphasis upon the development of idea and style. Pre: consent of instructor.

203 NARRATIVE WRITING (3) I, II STAFF
Analysis and writing of narrative, including the short story. Pre: consent of instructor.

204 CURRENT ENGLISH (3) II MANEY
Methods of linguistic analysis; description of English structure; current usage.
205 BACKGROUNDS OF ENGLISH LITERATURE (3) I
GREEN
The most important sources of English literary themes and allusions, including the King James Bible and Western European myth and legend.

208 INTRODUCTION TO POETRY (3) I
KORN
Analysis of selected English and American poems, emphasizing problems of communication and appreciation.

210 REPORT WRITING (3) I, II
STAFF
Technical exposition: reports and other types of professional writing. Pre: English 101C or the equivalent.

218 ADVANCED FICTION WRITING (3) II
HUNTSBERRY
Study of modern fiction; application of principles of narrative craftsmanship. Pre: consent of instructor. (Alt. yrs.; offered 1958-59.)

240 HISTORY OF LITERARY CRITICISM (3) II
STEMPEL
Chief theories of literary criticism, with readings (in English) from Plato to the present. (Alt. yrs.; not offered 1958-59.)

260-261 AMERICAN LITERATURE (3-3) Yr.
DAY, HEISER, STROVEN
First semester: from the beginnings to the Civil War. Second semester: from the Civil War to the early twentieth century.

262 AMERICAN LITERATURE AND CULTURAL HISTORY (3) II
HEISER
Studies in the relations of American literature to American culture before 1900. Pre: English 260 or the equivalent.

263 LITERATURE OF THE PACIFIC (3) II
STROVEN
Pacific islands, Australia; narratives of voyagers, translations of native literature, fiction by Melville, Stevenson, London, Beene, Nordhoff and Hall, etc. (Alt. yrs.; offered 1958-59.)

270 CHAUCER (3) II
GREEN
Life, times, and major works of Chaucer, with emphasis on The Canterbury Tales. (Alt. yrs.; not offered 1958-59.)

272 HISTORY OF THE ENGLISH LANGUAGE (3) II
GREEN
Growth and development of the English language; sources, forms, mutations, and standards of usage. (Alt. yrs.; offered 1958-59.)

273 SIXTEENTH-CENTURY ENGLISH LITERATURE (3) I
LOWERS
Poetry and prose of the Tudor period, exclusive of the drama. (Alt. yrs.; offered 1958-59.)

274 ENGLISH DRAMA TO 1642 (3) I
DAY
Origins of English drama; medieval drama and theatre; contemporaries and successors of Shakespeare. (Alt. yrs.; not offered 1958-59.)

275 EARLY SEVENTEENTH-CENTURY ENGLISH LITERATURE (3) II
KORN
Poetry and prose of the seventeenth century to 1660, exclusive of the drama. (Alt. yrs.; not offered 1958-59.)

276-277 SHAKESPEARE (3-3) Yr.
LOWERS
First semester: histories and comedies. Second semester: tragedies.

278 RESTORATION LITERATURE (3) I
FUJIMURA
Poetry, prose, and drama from 1660 to 1700, exclusive of Milton. (Alt. yrs; offered 1958-59.)

279 MILTON (3) II
KORN
Selected poetry and prose. (Alt. yrs.; offered 1958-59.)
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Instructor(s)</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>280</td>
<td>EIGHTEENTH-CENTURY ENGLISH LITERATURE (3) I</td>
<td>GEORGE</td>
<td>Poetry, prose, and drama from 1700 to 1780, exclusive of the novel. (Alt. yrs.; offered 1958–59.)</td>
</tr>
<tr>
<td>282</td>
<td>THE ROMANTIC MOVEMENT IN ENGLAND (3) I</td>
<td>BOUSLOG</td>
<td>Poetry and prose from 1780 to 1832, exclusive of the novel. (Alt. yrs.; not offered 1958–59.)</td>
</tr>
<tr>
<td>284</td>
<td>VICTORIAN LITERATURE (3) II</td>
<td>FRIERSON</td>
<td>Poetry and prose from 1832 to 1900, exclusive of the novel. (Alt. yrs.; offered 1958–59.)</td>
</tr>
<tr>
<td>285</td>
<td>THE ENGLISH NOVEL TO 1832 (3) I</td>
<td>KORN</td>
<td>Principal English novels and novelists from the beginnings to 1832. (Alt. yrs.; not offered 1958–59.)</td>
</tr>
<tr>
<td>286</td>
<td>THE ENGLISH NOVEL, 1832–1900 (3) II</td>
<td>KORN</td>
<td>Principal English novels and novelists. (Alt. yrs.; not offered 1958–59.)</td>
</tr>
<tr>
<td>288</td>
<td>CONTEMPORARY BRITISH LITERATURE (3) I</td>
<td>DAY</td>
<td>Representative works of the leading British novelists and poets since 1900.</td>
</tr>
<tr>
<td>289</td>
<td>CONTEMPORARY AMERICAN LITERATURE (3) II</td>
<td>BOUSLOG</td>
<td>Representative works of the leading American novelists and poets since 1900.</td>
</tr>
<tr>
<td>299</td>
<td>DIRECTED READING (Ar.) I, II</td>
<td>STAFF</td>
<td>Individual reading. Limited to senior majors with 2.7 grade-point ratio, or 3.0 grade-point ratio in English. Pre: consent of instructor.</td>
</tr>
<tr>
<td>300</td>
<td>DIRECTED READING OR RESEARCH (Ar.) I, II</td>
<td>STAFF</td>
<td>Individual reading or research. Pre: graduate standing; consent of instructor.</td>
</tr>
<tr>
<td>309</td>
<td>SEMINAR IN AMERICAN LITERATURE (2) I</td>
<td>HEISER</td>
<td>Intensive study of one or two writers. Pre: graduate standing or consent of instructor. (Alt. yrs.; offered 1958–59.)</td>
</tr>
<tr>
<td>310</td>
<td>SEMINAR IN AMERICAN LITERATURE (2) II</td>
<td>STAFF</td>
<td>Study of a problem or a period. Pre: graduate standing or consent of instructor.</td>
</tr>
<tr>
<td>311</td>
<td>SEMINAR IN ENGLISH LITERATURE (2) II</td>
<td>STAFF</td>
<td>Study of problems, authors, or a period. Pre: graduate standing or consent of instructor.</td>
</tr>
<tr>
<td>312</td>
<td>SEMINAR IN TEACHING COMPOSITION (2) I</td>
<td>FUJIMURA</td>
<td>Theory and observation of the teaching of composition at the college level. Pre: graduate standing or consent of instructor.</td>
</tr>
<tr>
<td>313</td>
<td>SEMINAR IN RESEARCH METHODS (1) II</td>
<td>BOUSLOG</td>
<td>Kinds of research; problems of bibliography; fundamentals of thesis writing. Required of all candidates for the M.A. degree in English. Pre: graduate standing.</td>
</tr>
<tr>
<td>314</td>
<td>SEMINAR IN COMPARATIVE LITERATURE (1) II</td>
<td>GREEN</td>
<td>Introduction to comparative literature; relationship of English to other European literatures; sources and influences. Pre: graduate standing or consent of instructor.</td>
</tr>
<tr>
<td>340</td>
<td>SEMINAR IN HISTORY AND LITERATURE (2) II</td>
<td>BOUSLOG</td>
<td>Problems in contemporary American culture, with emphasis on the history of ideas. History 340 the first semester; English 340 the second. Pre: History 340.</td>
</tr>
</tbody>
</table>
European Languages

Professors ANDERSSON, MUELLER; Associate Professor ASPINWALL; Assistant Professors JACKSON, JENSON, KNOWLTON, PAVLANTOS, WISWELL; Instructors BURKETT, ROTH, SINGER

FRENCH

100 ELEMENTARY FRENCH (3-3) Yr. STAFF
   Reading, conversation with laboratory drill, grammar. Lab fee $1.00.

101 INTERMEDIATE FRENCH (3-3) Yr. STAFF
   Reading, conversation with laboratory drill, composition. Pre: French 100 or the equivalent.

201 LITERATURE OF THE TWENTIETH CENTURY (3-3) Yr. ASPINWALL, ANDERSSON
   Novels, plays, poetry. Conducted in French as far as feasible. Pre: French 101 or the equivalent.

250 LITERATURE OF THE GOLDEN AGE (2) I ASPINWALL
   Emphasis on Molière, Racine, Corneille. Conducted in French. Pre: French 201 or the equivalent. (Not offered 1958–59.)

261 LITERATURE SINCE 1800 IN TRANSLATION (2) II ASPINWALL
   Rapid reading in translation; lectures, discussion, and reports. Not open to French majors. Pre: English 150.

273 HISTORY OF THE FRENCH LANGUAGE (2) I KNOWLTON
   Emphasis on the literature of the Middle Ages and sixteenth century. Pre: French 101 and Latin 104 or the equivalent.

280-281 THE EIGHTEENTH CENTURY (2-2) Yr. BURKETT

282-283 LITERATURE OF THE NINETEENTH CENTURY (2-2) Yr. ASPINWALL, ANDERSSON
   Novels, plays, and poetry representative of the schools of romanticism, realism, naturalism, and symbolism. Conducted in French. Pre: French 201 or the equivalent.

299 DIRECTED READING (Ar.) Yr. STAFF
   Designed to round out a knowledge of French literature. Limited to senior majors with 5.0 grade-point ratio, or 4.0 grade-point ratio in French.

GERMAN

100 ELEMENTARY GERMAN (3-3) Yr. STAFF
   Grammar development from reading material; analysis of sentence structure; conversation and grammar; laboratory drill. Lab fee $1.00.

101 INTERMEDIATE: INTRODUCTION TO GERMAN LITERATURE (3-3) Yr. STAFF
   Modern and classical authors; grammar review; composition; conversation; laboratory drill. Pre: German 100 or two years of high school German.

102 INTERMEDIATE: SCIENTIFIC GERMAN (3-3) Yr. STAFF
   Accurate reading over a wide range; emphasis on sentence construction and vocabulary building. Pre: German 100.

200 THE CLASSICAL PERIOD (3-3) Yr. JENSON
   Representative works of Lessing, Goethe, and Schiller, interpreted within the literary framework of their time. Pre: German 101 or the equivalent. (Alternates with 201.)
THE MODERN PERIOD (3-3) Yr.  
Representative works of the schools of romanticism, poetic realism, naturalism, impressionism, new objectivity. Pre: German 101 or the equivalent. (Not offered 1958–59.)

ADVANCED TRANSLATION (Ar.) I, II  
Reading in a field of specialization: science, literary history, etc. Required of German majors. May be repeated once. Pre: two years of college German; consent of instructor.

DIRECTED READING (Ar.) Yr.  
Designed to round out a knowledge of German literature, or allow intensive reading. Limited to senior majors with 2.7 grade-point ratio, or 3.0 grade-point ratio in German.

GREEK

ELEMENTARY GREEK (3-3) Yr.  
Vocabulary and grammar with reading of simple Greek.

INTERMEDIATE GREEK (3-3) Yr.  
Review of grammar; reading from selected prose.

LATIN

ELEMENTARY LATIN (3-3) Yr.  
Vocabulary and grammar, with reading of simple Latin.

INTERMEDIATE LATIN (3-3) Yr.  
Review of grammar; reading of selections from prose and poetry.

CLASSICAL CIVILIZATION (3-3) Yr.  
Study of the history, art, and culture of the ancient world. Students may enter the second semester. (Not offered 1958–59.)

CLASSICAL LITERATURE (3-3) Yr.  
Major writers of Greece and Rome in translation. First semester devoted to Greek literature; the second to Roman. Students may enter the second semester.

DIRECTED READING (Ar.) I, II  
Limited to seniors with 2.7 grade-point ratio, or 3.0 grade-point ratio in Latin.

RUSSIAN

ELEMENTARY RUSSIAN (3-3) Yr.  
Conversation, laboratory drill, reading, writing, and grammar. Lab fee $1.00.

INTERMEDIATE RUSSIAN (3-3) Yr.  
Review of grammar; conversation, laboratory drill, reading from modern and classical authors. Pre: Russian 100 or the equivalent.

NINETEENTH-CENTURY RUSSIAN NOVEL (2) II  
Survey of important novelists in translation, particularly Gogol, Goncharov, Turgenev, Dostoevsky, and Tolstoi.

DIRECTED READING (Ar.) Yr.  
Limited to seniors with 2.7 grade-point ratio, or 3.0 grade-point ratio in Russian.

SPANISH

ELEMENTARY SPANISH (3-3) Yr.  
Reading, conversation, laboratory drill, introduction to grammar. Lab fee $1.00.

INTERMEDIATE SPANISH (3-3) Yr.  
Reading, conversation, laboratory drill, some grammar and composition. Pre: Spanish 100 or the equivalent.
254 INTRODUCTION TO SPANISH-AMERICAN LITERATURE (2) I
KNOWLTON
Readings and reports; some attention to Spanish literature of the Philippines. Pre:
Spanish 101 or the equivalent. (Alternates with 256.)

255 INTRODUCTION TO LITERATURE OF MEXICO (2) II
ANDERSSON
Cultural history and representative writers. Pre: Spanish 101 or the equivalent.
(Alternates with 257.)

256 SPANISH LITERATURE TO 1700 (2) I
KNOWLTON
Representative selections from medieval and Golden Age literature. Pre: Spanish 101
or the equivalent. (Not offered 1958-59.)

257 SPANISH LITERATURE FROM 1700 (2) II
ROTH
Representative selections from modern and contemporary literature. Not open to those
who have had 252 or 253. Pre: Spanish 101 or the equivalent. (Not offered 1958-59.)

258 SPANISH CONVERSATION AND COMPOSITION (2) I
ROTH
Designed to develop skill in oral expression and composition. Pre: Spanish 101 or the
equivalent. (Alternates with 260.)

259 ADVANCED CONVERSATION AND COMPOSITION (2) II
ROTH
Further training in oral expression and composition. Pre: Spanish 258 or the equi­
valent. (Alternates with 260.)

260 HISTORY OF THE SPANISH LANGUAGE (2) I
KNOWLTON
Pre: Spanish 101 or the equivalent; one semester of college Latin or the equivalent.
(Not offered 1958-59.)

299 DIRECTED READING (Ar.) Yr.
STAFF
(1) Spanish peninsular literature, (2) Spanish-American literature, (3) Hispanic ling­
guistics. Limited to senior majors with 2.7 grade-point ratio, or 3.0 grade-point in Spanish.

Geography

Professors BOWERS, MANCHESTER; Assistant Professor FUCHS; Lecturer PHANAJA

Geography 150, 151, or consent of instructor is prerequisite to all advanced courses.

150 ELEMENTS OF GEOGRAPHY (3) I, II
MANCHESTER
Introduction. Emphasis on the interrelationship between man and his natural
environment. Course fee $1.00.

151 ECONOMIC GEOGRAPHY (3) I, II
FUCHS
Analysis of the world's major agricultural, industrial, and commercial regions and their
interconnecting trade routes. Course fee $1.00.

240 PHYSICAL GEOGRAPHY (3) I
FUCHS
Basic principles of the earth sciences, selected to provide an understanding of the
physical landscape. Course fee $1.00.

250 CARTOGRAPHY (3) I
FUCHS
History of map making, the construction of projections, and techniques of drafting
maps. Course fee $5.00.

251 FIELD METHODS (2) II
MANCHESTER
Field and laboratory techniques of mapping. Pre: Geography 250 or consent of in­
structor. Course fee $5.00.

252 GEOGRAPHY OF NORTH AMERICA (3) II
FUCHS
Regional geography of Anglo-America. Geographic aspects of the historic and economic
development of the continent. Course fee $1.00.
254 ECONOMIC RESOURCES OF THE UNITED STATES (3) II
Bowers
Extent and development of major United States resources; emphasis on the localization of associated industries. Course fee $1.00.

255 GEOGRAPHY OF ASIA (3) I
Bowers
Physical regions of Asia and their human occupation. Geographic background of current Asian problems. Course fee $1.00.

256 GEOGRAPHY OF JAPAN (3) I
Manchester
Regional study; emphasis on people and use of the land. Course fee $1.00.

257 GEOGRAPHY OF CHINA (3) II
Bowers
People and environment on a regional basis; emphasis on current problems of occupation and land use. Course fee $1.00.

258 GEOGRAPHY OF EUROPE (3) I
Fuchs
Physical and human geography. European geography as a background of present problems. Course fee $1.00.

259 GEOGRAPHY OF THE SOVIET UNION (3) II
Fuchs
Regional geography. Physical basis of Soviet strength. Course fee $1.00.

260 GEOGRAPHY OF HAWAII (3) II
Piianaia
Regional, physical, and cultural geography. Detailed study of the people and resources. Course fee $1.00.

261 WORLD GEOGRAPHIC PATTERNS (3) I, II
Bowers
Physical character and human use of geographic regions. For prospective teachers. Course fee $1.00.

262 WEATHER AND CLIMATE (3) I
Bowers
Basic elements of meteorology and climatology. Course fee $1.00.

263 GEOGRAPHY OF THE PACIFIC ISLANDS (3) I
Manchester
Polynesia (except Hawaii), Micronesia, and Melanesia. Course fee $1.00.

264 GEOGRAPHY OF INDIA AND SOUTHEAST ASIA (3) I
Bowers
Physical and human-use regions; attention to geographic factors in the history, politics, and economics of the area. Course fee $1.00.

265 GEOGRAPHY OF AUSTRALIA (2) II
Fuchs
Physical and human geography; emphasis on the relationships between population, land use, and resources. Course fee $1.00.

271 POLITICAL GEOGRAPHY (3) II
Bowers
Geographic background of international politics and national power. Course fee $1.00.

272 NAVIGATION (3) I
Piianaia
Principles; position fixing by terrestrial and celestial objects. Course fee $1.00.

280 GEOGRAPHY OF MICRONESIA (3) II
Manchester
Physical character of the islands and their occupation and use by man. Course fee $1.00.

281 GEOGRAPHY OF POLYNESIA (3) II
Piianaia
Physical, economic, and political geography of the Polynesian islands. Course fee $1.00. (Not offered 1958–59.)

299 DIRECTED READING (Ar.) I, II
Staff
Limited to senior majors with 2.7 grade-point ratio, or 3.0 grade-point ratio in geography.
300 DIRECTED RESEARCH (Ar.) I, II
Pre: consent of instructor.

308 SEMINAR IN GEOGRAPHY OF JAPAN (3) II
Pre: consent of instructor.

309 HISTORY OF GEOGRAPHY (3) I
MANCHESTER
Development of geographic thought from early Greece to the present. Special emphasis on the modern period.

310 SEMINAR IN GEOGRAPHY (3) II
STAFF
Significant topics and problems. Pre: consent of instructor.

Geology and Geophysics

Senior Professor MACDONALD; Professor RAMAGE; Associate Professor ABBOTT; Assistant Professor HOWARD

GEOLoGY

150 PHYSICAL GEOLOGY (3) I
ABBOTT
Geologic work of oceans, glaciers, streams, wind; rocks and minerals; volcanoes, earthquakes, mountain building. Geology 152 should be taken concurrently.

151 HISTORICAL GEOLOGY (3) II
ABBOTT
Geologic changes as recorded by fossil remains in rocks; ancient seas and continents. Geology 153 should be taken concurrently. Pre: Geology 150.

152 LABORATORY GEOLOGY (1) I
ABBOTT
Identification of common minerals and rocks. Reading of topographic and geologic maps. Pre: credit or concurrent registration in Geology 150. Lab fee $1.00.

153 LABORATORY GEOLOGY (1) II
ABBOTT
Identification of important fossil forms. Exercises in stratigraphy. Pre: credit or concurrent registration in Geology 151. Lab fee $1.00.

210 MINERALOGY (3) I (2 L, 1 2-Hr Lab)
ABBOTT
Origin, physical and chemical characteristics; economic value of minerals. Elementary crystallography. Pre: Geology 150; Chemistry 103 or 104. (Not offered 1958-59.)

215 ROCK STUDY (3) II (1 L, 2 3-Hr Lab)
MACDONALD
Petrology and hand specimen identification of igneous, sedimentary, and metamorphic rocks. Pre: Geology 210 or consent of instructor.

220 OPTICAL MINERALOGY (3) II (2 L, 1 3-Hr Lab)
ABBOTT
Introduction to petrographic microscope and to optical properties of minerals. Pre: Geology 215 or consent of instructor.

254 ECONOMIC GEOLOGY (3) I
ABBOTT
Distribution, nature, and origin of deposits of metallic and nonmetallic minerals. Pre: Geology 150. (Not offered 1958-59.)

255 GEOLOGY OF GROUND WATER (2) II
ABBOTT
Origin, circulation, recovery, and quality of ground water, with emphasis on fresh water problems of the Hawaiian Islands. Pre: Geology 150. (Not offered 1958-59.)

260 GEOMORPHOLOGY (3) I
ABBOTT
Study of landforms and their relation to geologic structure. Pre: Geology 151, or permission of instructor. (Alt. yrs.; offered 1958-59.)
265 STRUCTURAL GEOLOGY (3) II
MACDONALD

270 PALEONTOLOGY (3) I (2 L, 1 3-Hr Lb)
morphology and identification of index fossils; their value in determining stratigraphic sequence. Pre: Geology 151, 153. (Not offered 1958–59.)

299 DIRECTED READING (Ar.) I, II
ABBOTT
Limited to seniors with 2.7 grade-point ratio, or 3.0 grade-point ratio in geology.

300 DIRECTED READING (Ar.) I, II
ABBOTT
Pre: graduate standing and consent of instructor.

GEOPHYSICS

160 INTRODUCTION TO METEOROLOGY (2) II
RAMAGE
Instruction and practice in observation, coding, plotting, analysis. For students who have not been employed in weather service.

250 GENERAL OCEANOGRAPHY (3) I
HOWARD
Introduction to submarine geology, physical oceanography. Bottom topography, heat budget, waves, tides, sediments. Pre: Geology 150; Physics 102. (Not offered 1958–59.)

Government

Professors MELLER, SAUNDERS, SPELLACY; Associate Professor STAUFFER; Assistant Professors KOSAKI, TUTTLE, VAN DER VEUR, WALTERS

Government 150, or the equivalent, is prerequisite to all other courses in government, except 155.

150 INTRODUCTION TO GOVERNMENT (3) I, II
STAUFFER, STAFF
Role of government in modern society. Types and practices of government; processes of political change; citizen participation.

155 AMERICAN GOVERNMENT (3)
Development, organization, and functioning of national, state, and local government. Not open to students who have had 150. (Not offered 1958–59.)

238 ELEMENTS OF POLITICS AND GOVERNMENT (2)
Introduction to the terms and principles of political science. The meaning of law, liberty, constitutionalism, democracy, etc. (Not offered 1958–59.)

240 DEMOCRACY AND COMMUNISM (3)
Survey of the ideological development of the rivals for man’s political allegiance. (Not offered 1958–59.)

248 STATE GOVERNMENT AND ADMINISTRATION (3) I
TUTTLE
Constitutions; historical evolution; structure with reference to judicial, legislative, and executive branches; limitations on authority.

252 INTRODUCTION TO CONSTITUTIONAL LAW (3) I
SPELLACY
Examination of principal cases concerned with state relations, due process of law, interstate commerce, and related subjects.

253 CIVIL RIGHTS (3) II
MELLER
Study of the principal court decisions on freedom of speech, press, assembly, conscience, and other basic civil liberties.
254 MUNICIPAL GOVERNMENT AND ADMINISTRATION (3) II  TUTTLE
  The city as a political subdivision and as a municipal corporation; powers and liabilities; forms of government; the metropolitan problem; related matters.

256 AMERICAN POLITICAL PARTIES (3) II  TUTTLE
  Organization, methods, and functions of political parties, with special attention to the electoral and organizational aspects of party behavior.

257 CAMPAIGNS AND ELECTIONS (2) I  TUTTLE
  Management and conduct of elections, with attention to techniques employed by candidates for public office. Field investigations.

258 POLITICAL BEHAVIOR (2) II  KOSAKI
  Review and analysis of the methodology and findings of some recent "behavioral science" studies in politics.

259 PROPAGANDA AND PUBLIC OPINION (3) I  TUTTLE
  Characteristics, methods, and results of propaganda and pressure group activity. Nature of public opinion; methods of influencing it; techniques for measuring political opinions.

260 INTRODUCTION TO INTERNATIONAL RELATIONS (2) I  VAN DER VEUR
  Factors which condition the foreign policy of states: nationalism, imperialism, and power politics. Outstanding problems of world politics.

261 UNITED NATIONS (2) II  STAUFFER
  Problems involved in the development and structure of international organizations with special emphasis on the United Nations.

262 GOVERNMENT AND POLITICS OF CHINA AND JAPAN (3) I  STAUFFER
  The changing patterns of government in China and Japan; emphasis on problems faced and the institutional, ideological, and political answers created through time.

263 INTERNATIONAL RELATIONS OF THE FAR EAST (3) I  VAN DER VEUR
  Rise and fall of eastern Asia and the re-emergence of this area as a pivotal factor in world politics.

264 PROBLEMS IN INTERNATIONAL RELATIONS (3) II  VAN DER VEUR
  Special topics in international relations; change in the nation-state system; emergent regionalism; military blocs; neutralism; new dimensions of international cooperation.

265 COMPARATIVE POLITICS: POLITICAL PARTIES (3) I  STAUFFER
  Nature and morphology of political parties; party systems; relation to electoral systems.

266 COMPARATIVE POLITICS: INSTITUTIONS AND PROCESSES (3) II  STAUFFER
  Classification of major structural types; levels, range, and "universe" of decision-making; patterns in executive-legislative relations.

267 FORMULATION AND ADMINISTRATION OF AMERICAN FOREIGN POLICY (3) II  VAN DER VEUR
  Historical, institutional, political, and economic influences on the formation and execution of foreign policy.

270 GOVERNMENT OF HAWAII (2) I  MELLER
  Territorial and local government; consideration of the proposed state constitution of 1950; formative political factors in Hawaii.

271 COMPARATIVE COLONIAL GOVERNMENT (3)
  Comparative survey of various national solutions to certain basic problems arising from the rule of subject peoples. (Not offered 1958–59.)
273 GOVERNMENT AND POLITICS OF SOUTH AND SOUTHEAST ASIA (3)
Analysis of relevant colonial patterns that have conditioned the newly created governmental structures, followed by a study of present developments. (Not offered 1958-59.)

274 INTERNATIONAL RELATIONS OF SOUTH AND SOUTHEAST ASIA (3) I van der VEUR
Emergence from colonialism of these new states. "Neutralism"; intra-regional struggles and cooperation; the Afro-Asian bloc; United Nations' activities.

276 THE LEGISLATIVE PROCESS (3) II MELLER
The lawmaking process in the United States. Role of representative assemblies, the executive branch, interest groups, and the public.

281 PRINCIPLES OF MANAGEMENT (3) I MELLER
Basic principles of management and techniques of application; human relations in management.

282 INTRODUCTION TO PUBLIC ADMINISTRATION (3) I WALTERS
Relationship of administration to policy-forming agencies and to the courts; structure of administration; devices for integration; related materials.

283 PERSONNEL ADMINISTRATION (3) II TUTTLE
Organization and administration of civil service systems; recruitment, classification, discipline, and status of civil servants. Pre: Government 282.

284 INTRODUCTION TO ADMINISTRATIVE LAW (3) II SPELLACY
Laws relating to public officers, status, rights, and obligations; laws governing relations between government and the public, e.g., rights to notice and hearing, due process.

287 PROBLEMS IN AMERICAN GOVERNMENT (3) I TUTTLE
Special topics in the field of American government and politics. Varied from year to year. Training in research methods. Pre: consent of instructor.

288 PROBLEMS IN PUBLIC ADMINISTRATION (3) II MELLER
Introduction to materials and research methods used in public administration. Individual and group research projects. Restricted to seniors.

289 POLITICAL THEORY: MAJOR CONCEPTS (3) I KOSAKI
Analysis of some of the major concepts of political theory; their statement by the major political philosophers.

290 POLITICAL THEORY: PROBLEMS (3) II KOSAKI
Intensive analysis of one or two problems in political theory. Pre: Government 289 or consent of instructor.

299 DIRECTED READING OR RESEARCH (Ar.) I, II STAFF
Individual problems. Limited to senior majors with 2.7 grade-point ratio, or 3.0 grade-point ratio in government.

300 DIRECTED READING AND RESEARCH (Ar.) I, II STAFF
Individual problems. Pre: consent of instructor.

302 SEMINAR IN INTERNATIONAL RELATIONS (3) I STAUFFER
Pre: consent of instructor.

303 SEMINAR IN FAR EASTERN POLITICS (3) II STAUFFER
Pre: consent of instructor.

305 SEMINAR IN POLITICS (3) II TUTTLE
Pre: consent of instructor.

307 SEMINAR IN POLITICAL THEORY (3) I KOSAKI
Pre: consent of instructor.
309 SEMINAR IN SOUTH AND SOUTHEAST ASIA (3) II  
Pre: consent of instructor.  
van der VEUR

310 SEMINAR IN PUBLIC ADMINISTRATION (3) I  
Pre: consent of instructor.  
MELLER

Health and Physical Education

Associate Professor SAAKE; Assistant Professors CHUI, GAY, GUSTUSON, SAKAMOTO, VASCONCELLOS; Instructors ASATO, BEAMER, FURUKAWA, GIBSON, RATHBURN; Assistant BRUHN

An activities and locker fee of $3.00 is assessed in Health and Physical Education 101–120.

101 INDIVIDUAL AND TEAM SPORTS (1) I, II  
Swimming and/or tennis. Freshmen.  
STAFF

102 INDIVIDUAL AND TEAM SPORTS (1) I, II  
Golf and social dancing. Freshmen.  
STAFF

103 INDIVIDUAL AND TEAM SPORTS (1) II  
Basketball and volleyball. Sophomores.  
STAFF

109 RESTRICTED ACTIVITIES (1) I, II  
For physically handicapped students. Admittance only upon recommendation of University physician.  
STAFF

111 INTERMEDIATE SWIMMING (1) II  
For students who have met basic requirements and desire to develop additional skills in swimming and diving. (Not offered 1958–59.)  
SAKAMOTO

113 ADVANCED TENNIS (1) II  
For those interested in developing advanced skills and strategy in tennis.  
SAAKE

114 DEVELOPMENTAL ACTIVITIES (1–1) Yr.  
Exercises with and without apparatus selected to meet personal needs; various forms and systems of exercise surveyed.  
GUSTUSON

115 TUMBLING (1) I  
Exercises suitable for use with child and adult groups.  
GUSTUSON

116 HEAVY APPARATUS (1) II  
Heavy apparatus, including trampoline, for the development of balance, strength, and skills.  
GUSTUSON

120 MUSIC AND RHYTHMS IN PHYSICAL EDUCATION (2) II  
The use of music in the activity program. Includes a brief survey of the various rhythm patterns and their application.  
GAY

123 FOLK AND NATIONAL DANCES (1) I  
Selected dances of various national groups now in popular use. Square dances included.  
GAY

124 DANCES OF HAWAII (1) I  
Introduction to the hula. The background and fundamentals will be presented, and selected dances given.  
GAY

130 PERSONAL HYGIENE (1) I, II  
Scientific health information as a basis for hygienic living. Personal health problems.  
STAFF
132 PERSONAL HEALTH (2) I  
RATHBURN  
The proper care of the body and development of desirable health habits and attitudes. Intended primarily for majors in physical education and recreation.

140 NATURE AND FUNCTION OF PLAY (2) II  
SAAKE  
Place of play in community and school life; applications to the various age groups.

170 INTRODUCTION TO PHYSICAL EDUCATION (2) II  
GAY  
Designed for prospective teachers and leaders in physical education and recreation; objectives, needs, procedures, and outcomes in physical education activities.

215 ATHLETIC COACHING, FOOTBALL AND BASKETBALL (2) I  
STAFF  
Fundamentals, position play, team play, and strategy in football and basketball.

217 ATHLETIC COACHING, BASEBALL AND TRACK (2) II  
STAFF  
Fundamentals, team play, and strategy in baseball; basic skills, analysis of form, and conditioning in track.

219 COACHING OF SWIMMING (2) II  
SAKAMOTO  
Designed for those interested in the development of swimming teams in schools and other agencies. Content and method emphasized.

221 PHYSICAL EDUCATION, ELEMENTARY (2) I, II  
BEAMER  
Content and method for elementary school programs. Adaptations to meet situations with like age groups outside of school. Activities and locker fee $3.00.

222 PHYSICAL EDUCATION, SECONDARY (2) II  
GUSTUSON  
Activities and methods for junior and senior high school programs. Activities and locker fee $3.00.

225 THE TEACHING OF INDIVIDUAL SPORTS (2) I  
GAY  
Organization and teaching of athletic activities for girls, such as tennis, archery, badminton, golf, etc., on the secondary level.

227 THE TEACHING OF TEAM SPORTS (2) II  
GAY  
Techniques of teaching fundamentals and strategy of team games for girls and women.

230 SCHOOL HEALTH PROBLEMS (2) I, II  
RATHBURN  
Health needs of the school child and principles, methods, and materials applicable to the school health program.

231 HEALTH TEACHING IN SCHOOLS (2) I  
Methods used in teaching for health in elementary and secondary schools.

232 MATERIALS IN HEALTH EDUCATION (2) II  
Materials available in health education, their sources, authenticity and use. Methods of evaluation.

234 SAFETY PROCEDURES IN PHYSICAL EDUCATION (2) I  
SAAKE  
Prevention and emergency treatment of injuries; emphasis upon school, playground, and athletic situations. Practical work in first aid. Red Cross Certificate may be earned.

235 THE HEALTH CURRICULUM (2) I  
RATHBURN  
Procedures for the development and construction of a health education program, including criteria for selection and evaluation of content.

236 EVALUATION IN HEALTH EDUCATION (2) II  
Processes involved in appraising the effectiveness of a health education program. Practice in use and development of evaluation instruments. (Not offered 1958–59.)

237 PRINCIPLES OF HEALTH EDUCATION (2) I  
Historical development and present status of the health education program. Emphasis upon current trends and basic principles involved. (Not offered 1958–59.)
239 HEALTH OF THE SCHOOL CHILD (2) II
Deals with various problems in child health and the role of the school in meeting them.

241 SOCIAL RECREATION (2) II
Activities and leadership techniques for parties, socials, etc.

246 OFFICIATING IN ATHLETICS (2-2) Yr.
Techniques used by officials in the various sports. Practice in officiating is included.

248 HOBBIES IN RECREATION (2) I
Development of procedures and skills in various hobbies for recreation majors. Others by permission of instructor only.

249 CAMP LEADERSHIP (2) II
Program development and procedures used in the modern camping movement. Relationships with educational and other agencies.

250 RECREATION LEADERSHIP (2-2) Yr.
Students assigned to recreational agencies for orientation. One hour per week in discussion of individual and group problems. Pre: consent of instructor.

252 FIELD WORK IN RECREATION (5-5) Yr.
Students assigned to recreational agencies for experience. One hour each week in discussion of problems. Pre: consent of instructor. For recreation majors only.

263 INTRAMURAL ATHLETICS (2) I
Organization, program, and procedures used in conducting a sports program for students outside of regular class hours.

276 CURRENT TRENDS IN HEALTH (2-2) Yr.
The health situation and functions of health agencies dealing with specific diseases and problems. Primarily for teachers and school administrators. (Not offered 1958-59.)

280 ANATOMY IN PHYSICAL EDUCATION (3) I
Designed to develop an understanding of muscle action during activity. Primarily for leaders in physical education and recreation but open to others.

285 PHYSIOLOGY IN PHYSICAL EDUCATION (3) II
Essentials necessary in teaching health practices; activities to meet individual and group needs. Primarily for leaders in physical education and recreation but open to others.

299 DIRECTED READING (Ar.) I, II
Individual problems. Limited to seniors in the recreation leadership curriculum with 2.7 grade-point ratio, or 3.0 grade-point ratio in health and physical education.

330 SEMINAR IN HEALTH EDUCATION (2) II
Study and discussion of selected problems in health education as determined by individual and group interests and needs. (Not offered 1958-59.)

History
Senior Professor MARDER; Professors HUNTER, D. JOHNSON, MURPHY, SAKAMAKI, J. WHITE; Associate Professor STALKER; Assistant Professors COWING, ERNEST, SHINODA

100 WORLD CIVILIZATION (3-3) Yr.
Development of civilization from the ancient Orient and classical Greece and Rome to the present; emphasis on Western civilizations. Prerequisite for advanced courses.

101 WORLD CULTURES IN PERSPECTIVE (3-3) Yr.
Problems in world history; development of ideas, institutions. Alternative for 100. Admission only by approval of the dean and instructor.
110  INTRODUCTION TO AMERICAN HISTORY (3) I, II  
Religious, cultural, and social backgrounds of the American people. Prerequisite for advanced courses in American history.

201  HISTORY OF THE FAR EAST (3–3) Yr.  
Survey of the political, social, and economic history of the Far East as a unit.

208  EXPANSION OF EUROPEAN CIVILIZATION (3) I  
Survey of cultural changes and developments in Europe, the Western Hemisphere, and Asia resulting from European expansion.

209  HISTORY OF ENGLAND TO 1688 (3) I  
Major trends in the development of English civilization from the origins to the Glorious Revolution. (Not offered 1958–59.)

210  HISTORY OF ENGLAND FROM 1688 (3) II  
Major trends in modern English history; origins of twentieth-century developments.

211  CONSTITUTIONAL HISTORY OF ENGLAND (3) I  
Anglo-Saxon institutions; Norman innovations; legal, administrative, and parliamentary development under Angevins; rise of cabinet system. (Alt. yrs.; not offered 1958–59.)

213  HISTORY OF RUSSIA TO 1850 (3) I  
Survey of the development of thought and institutions, and of territorial expansion.

214  HISTORY OF IMPERIAL AND SOVIET RUSSIA SINCE 1850 (3) II  
The impact of revolutionary changes on recent Russian thought and institutions.

221  BRITISH EMPIRE AND COMMONWEALTH FROM 1815 (3) II  
The Empire; transformation of colonies and dependencies into member nations of the Commonwealth; present problems; relationships. (Alt. yrs.; not offered 1958–59.)

225  HISTORY OF CHINA (3–3) Yr.  
General survey of Chinese history; development of institutions; impact of Western culture upon Chinese civilization.

226  HISTORY OF JAPAN (3–3) Yr.  
Historical survey of Japanese culture, government, economics, and institutions.

227  SOUTHEAST ASIA (3) I  
General survey of Burma, Siam, Indo-China, Malaya, Indonesia, and the Philippine Republic; history of these states; relations with European nations and the United States.

229  AMERICAN-CHINESE RELATIONS (3) II  
Diplomatic, economic, and cultural relations of the United States and China, with emphasis on American Far Eastern policy.

230  INDIA, PAKISTAN, AND CEYLON (3) I  
General historical survey of South Asia from earliest times to the present.

232-233  MEDIEVAL EUROPE, 300–1300 (3–3) Yr.  
Cultural, social, economic, and political changes in the development of the European community.

234  RENAISSANCE AND REFORMATION, 1300–1600 (3) I  
Ideas and institutions in the early period of commercial and national development.

235  EARLY MODERN EUROPE, 1600–1800 (3) II  
Thought and culture of Europe in the age of expansion.

236  EUROPEAN IDEAS AND THE WORLD SINCE 1800 (3–3) Yr.  
Development of the major ideas and movements that have influenced Europe and the world community.
240–241 HISTORY OF THE UNITED STATES TO 1876 (3–3) Yr. COWING
Expansion of Europe into the Western Hemisphere; establishment of American Independence; the Federal Union to the close of the Reconstruction Period.

242–243 HISTORY OF THE UNITED STATES SINCE 1877 (3–3) Yr. STALKER
A detailed political, economic, and social survey of the history of the American people, 1877 to the present.

244–245 DIPLOMATIC HISTORY OF THE UNITED STATES (3–3) Yr. JOHNSON
History of American foreign policy, with emphasis upon recent developments.

246 AMERICAN THOUGHT AND CULTURE (3) I HUNTER
An advanced course in American social customs, institutions, and intellectual pursuits. (Alt. yrs.; offered 1958–59.)

248 AMERICAN ECONOMIC HISTORY (3) I STALKER
Emphasis on the role of techniques, agricultural developments, the entrepreneur and the rise of the labor movement. Economics 150–151 recommended as preparation.

249 REPRESENTATIVE AMERICANS (3) II STALKER
A series of biographical sketches of leading characters in American history from the Revolution to the present.

250 EARLY CIVILIZATION IN THE FAR EAST (3) I SHINODA
Study of the origins of the peoples and cultures in Eastern Asia.

251 HISTORY OF THOUGHT IN JAPAN (3) II SHINODA
Major schools of thought and important thinkers, social reformers, economists, statesmen, and educators of Japan.

252 CONSTITUTIONAL HISTORY OF THE UNITED STATES (3) II STALKER
The genesis, drafting, ratification, and development of the federal Constitution.

253–254 HISTORY OF HISPANIC AMERICA (3–3) Yr. JOHNSON
Political, economic, and social development of the Hispanic-American republics from colonial times to the present. (Alt. yrs.; not offered 1958–59.)

255 THE UNITED STATES AND HISPANIC AMERICA (3) II JOHNSON
Development of political and economic problems and policies in inter-American relations.

257 EUROPE IN THE NINETEENTH CENTURY (3) I MARDER
Major political, social, economic, and intellectual trends in the evolution of Europe from Napoleon to the end of World War I.

258 EUROPE SINCE VERSAILLES (3) II MARDER
Problems of contemporary Europe and their historical background.

259 THE WEST IN AMERICAN HISTORY (3) I COWING
Western expansion forces in the development of the economic, cultural, and political trends of the nation.

260 AMERICAN SOCIAL REFORM MOVEMENTS SINCE 1865 (3) II COWING
A detailed survey of America's quest for social justice.

273 THE UNITED STATES IN THE PACIFIC (3) I JOHNSON
Growth of economic and political interests and policies in the Pacific area. (Alt. yrs.; offered 1958–59.)

276 HISTORY OF THE HAWAIIAN ISLANDS (3) II HUNTER
A general course with some detail. Emphasis on the period of the monarchy.
277 PACIFIC EXPLORATION AND DISCOVERY TO 1799 (3) I
murphy
Europe in the Pacific; first contacts through Cook's voyages. Emphasis on island areas. (Alt. yrs.; not offered 1958–59.)

278 PACIFIC ISLANDS FROM 1779 (3) I
murphy
Expansion of European commerce, missionary activity, settlement; effects on native peoples in Australasia, Melanesia, Micronesia, Polynesia. (Alt. yrs.; not offered 1958–59.)

279 AUSTRALIA AND NEW ZEALAND (3) II
murphy
Major historical developments from colonization to independent nationhood; present problems and policies. (Alt. yrs.; offered 1958–59.)

284 RUSSIAN CENTRAL ASIA AND THE CAUCASUS (3) I
white
Russia's southern expansion; impact of Russian rule on Muhammadan and Christian peoples of these regions; relations with Middle East. (Alt. yrs.; not offered 1958–59.)

285 RUSSIAN SIBERIA AND THE PACIFIC (3) II
white
Russia's eastward expansion; the dynamic role of Russia as a Far Eastern power; relations with China and Japan. (Alt. yrs.; not offered 1958–59.)

298 SENIOR SEMINAR IN HISTORY (3) I, II
staff
Selected problems; use of historic materials; form and content of historical writing. May be repeated.

299 DIRECTED READING (Ar.) I, II
staff
Individual reading in (1) American history—Burke, Stalker; (2) Pacific history—Murphy; (3) Japanese history—Shinoda; (4) European history—Marder; (5) English history—Murphy; (6) Hispanic-American history—Johnston; (7) Chinese history—White; (8) Hawaiian history—Hunter. Limited to senior majors with 2.7 grade-point ratio, or 3.0 grade-point ratio in history.

300 DIRECTED RESEARCH (Ar.) I, II
staff
Individual research in the same fields as in 299.

310 SEMINAR IN HISTORICAL METHOD (3) I
hunter
Training in the evaluation of sources and the preparation of theses.

313 SEMINAR IN HISTORIOGRAPHY (3) II
hunter
The history of history and historians.

315 SEMINAR IN JAPANESE HISTORY (3) II
shinoda
Main fields of Japanese historical research; the principal sources of bibliographical information; selected problems in modern Japanese history.

340 SEMINAR IN HISTORY AND LITERATURE (2) I
stalker
Problems in contemporary American culture, with emphasis on the history of ideas. History 340 the first semester; English 340 the second. Pre: consent of instructor.

Home Economics

Associate Professors Adamson, Boatman, Gruelle, Tull, Umbel; Assistant Professors Douty, Murai; Instructors Bartow, Desmond, Henderson, Krock, McCloskey, Sato

The following courses have no prerequisites, except for year level, and are open to students in any college or curriculum: Home Economics 100, 101, 250, 255, 262; Household Art 150, 152; and Household Science 152, 156.

GENERAL (HE)

HE 100 ORIENTATION IN HOME ECONOMICS (2) I
umbel
Factors contributing to success in college and development of habits for effective living. Home economics in education; vocational study and planning.
HE 201 CONSUMER EDUCATION (2) I
DOUTY
The marketing system as it affects consumers. Better buying, consumer protection and responsibility. Pre: Economics 140 or 150.

HE 250 HOUSEHOLD MANAGEMENT (3) I (2 L, 1 Lb)
GRUELLE
Contribution of homemaker and family to better home living; management of time, energy, and money; selection and care of furnishings.

HE 251 HOME ECONOMICS EDUCATION (3) II
TULL
Curriculum content, teaching procedures, and current educational philosophies and practices in home economics education. Pre: Psychology 150 or 156.

HE 252 CHILD CARE AND TRAINING (3) II (2 L, 1 Lb)
Importance of the preschool years in development of the individual; a constructive program for the normal child in the home. Pre: Psychology 150 or 156.

HE 254 FAMILY HOUSING (2) I (2 Lb)
UMBEL
Evaluation of housing; needs, convenience, economy, aesthetic qualities, safety, health, etc. Pre: Art 1-13 or 151, or consent of instructor. Lab fee $2.00.

HE 255 HOUSEHOLD EQUIPMENT (2) II (1 L, 1 Lb)
HENDERSON
Selection, care, repair, use, and limitations of gas and electrical appliances; demonstration techniques.

HE 256 HOME FURNISHINGS (2) II (2 Lb)
UMBEL
Selection and arrangement of furnishings and accessories in relation to family living. Pre: Home Economics 25-1. Lab fee $2.00.

HE 262 EDUCATION FOR FAMILY LIFE (3) I, II
HENDERSON
Premarital factors affecting relationship problems in the family. Emphasis upon individual problems. Open to men and women.

HE 291 HOME-MANAGEMENT LABORATORY (4) I, II
HENDERSON
Living in a supervised residence for six weeks; practical application of training in home economics. Students share subsistence cost. Pre: senior standing.

HE 299 DIRECTED READING OR RESEARCH (Ar.) I, II
STAFF
(1) Agricultural Extension; (4) home economics education; (5) home management; (8) child development; (9) consumer problems. Limited to senior majors with 2.7 grade-point ratio, or 3.0 grade-point ratio in general home economics.

HE 300 DIRECTED READING OR RESEARCH (Ar.) I, II
STAFF
(1) Agricultural Extension; (2) clothing and textiles; (3) foods and nutrition; (4) home economics education; (5) home management; (6) institutional management. Pre: consent of department chairman and instructor.

HE 360 SPECIAL PROBLEMS IN HOME ECONOMICS (2) I, II
TULL
Development of teaching material. Class and individual problems selected according to the needs of the fifth-year students in home economics education.

HOUSEHOLD ART (HA)

HA 110 CLOTHING AND TEXTILES (3) I
UMBEL
HA 111 FAMILY CLOTHING PROBLEMS (3) II  
Conservation of family clothing; selection of children's clothing; continuation of clothing construction; textile study. Pre: HA 150. Fee $2.00.

HA 150 AESTHETICS OF CLOTHING AND PERSONAL APPEARANCE (3) I, II  
Individual analysis; principles of color, design, grooming, wardrobe planning. Personality projection through clothing. Fee $3.00.

HA 152 HISTORIC COSTUME (2) II  
Survey of historic costume, showing how fashion has reflected the life of the people. Historic costume as inspiration for modern dress.

HA 214 CLOTHING DESIGN AND CONSTRUCTION (2-2) Yr.  
Pattern blocking and costume draping. Fitting techniques and design selection for individuals. Pre: HA 111 or consent of instructor. Fee $4.00.

HA 255 ADVANCED CLOTHING (3) II (2 Lb)  
Study of fabrics, designs, and techniques in clothing construction; use of commercial patterns. Pre: HA 111, or consent of instructor. Lab fee $2.00.

HA 299 PROBLEMS IN CLOTHING AND TEXTILES (Ar.) I, II  
(1) Clothing selection or construction, (2) textiles, (3) historic costume or design, (4) consumer problems, (5) related art. Limited to senior majors with 2.7 grade-point ratio, or 3.0 grade-point ratio in household art.

HOUSEHOLD SCIENCE (HS)

HS 102 ADVANCED FOOD PREPARATION (3-3) Yr. (1 L, 2 Lb)  GRUELLE, HENDERSON  
Economics of food selection; experimental food preparation; meal planning and serving. Pre: HS 150; Chemistry 103 or 104. Lab fee $8.00 each semester.

HS 150 ELEMENTARY FOOD PREPARATION (3) I, II (1 L, 2 Lb)  BARTOW  
Fundamental processes of food preparation; practical application in meal planning to provide good nutrition and promote good food habits. Lab fee $8.00.

HS 152 FOOD PREPARATION (3) I, II (2 3-Hr Lb)  BARTOW, HENDERSON  
Problems in preparation of adequate meals; practical experience in meal planning, preparation, and service. Not open to HE majors. Lab fee $8.00.

HS 156 SURVEY OF NUTRITION (2) I, II  MURAI  
Factors involved in good nutrition with emphasis on foods used in Hawaii. For general students, men and women. Not open to HE majors.

HS 157 DIET THERAPY (3) II (2 L, 1 Lb)  MURAI  
Adaptation of normal nutrition to meet special dietary needs in abnormal conditions. For nursing students. Pre: HS 156. Lab fee $5.00.

HS 250 DIET AND DISEASE (3) II (2 L, 1 Lb)  MURAI  
Diet therapy under abnormal conditions. Pre: credit or concurrent registration in HS 277. Lab fee $5.00.

HS 260 QUANTITY COOKERY (3) I (1 L, 2 Lb)  DESMOND, McCLOSKEY  
Food problems of institutions; preparation and serving of food in large quantities, menu planning, and food costs. Pre: HS 102.

HS 261 INSTITUTIONAL MANAGEMENT (3) I  
Organization and administration of food departments in institutions such as college cafeterias, college residence halls, and hospitals. Pre: HS 260.

HS 263 INSTITUTIONAL BUYING (3) II  KROCK  
Selection and purchase of foods and equipment for an institution. Pre: credit or concurrent registration in HS 260.
HS 264 PROBLEMS IN HOSPITAL MANAGEMENT (4) I, II
Field practice for senior and graduate student dietitians in an approved institution. Pre: HS 250, 260, 277; consent of instructor.

HS 265 INSTITUTIONAL ACCOUNTS (3) II (1 L, 2 Lb)
Principles of accounting applied to management of school cafeterias, tearooms, residence halls, and other food-service units. Pre: HS 260.

HS 266 RESIDENCE HALL MANAGEMENT (4) I, II
Planning and directing preparation of meals in a university women's residence hall; housekeeping. Pre: HS 260, 263, 265.

HS 270 NUTRITION FOR PUBLIC HEALTH NURSES (3) I (2 L, 1 Lb)
Dietary needs of individuals and families; emphasis on nutritive values of local foods and racial diets. Lab fee $5.00.

HS 272 ELEMENTARY NUTRITION (4) I (2 L, 2 Lb)
Basic principles of nutrition. Diet planning with foods available in Hawaii. Pre: HS 102 or consent of instructor. Lab fee $8.00.

HS 273 FOOD HABITS IN HAWAII (3) II (1 L, 2 Lb)
Meals for various racial groups at different income levels; emphasis on adequate diets at minimum cost. Pre: HS 272. Lab fee $8.00.

HS 277 ADVANCED NUTRITION (3) II (2 L, 1 Lb)

HS 299 DIRECTED READING OR RESEARCH (Ar.) I, II
(1) Consumer problems; (2) dietary problems; (3) experimental cookery; (4) food investigation; (5) home management problems; (6) nutrition. Lab fee $3.00 per credit hour. Limited to senior majors with 2.7 grade-point ratio, or 3.0 grade-point ratio in household science.

HS 300 DIRECTED RESEARCH IN NUTRITION (Ar.) I, II
Nutritional investigations; animal and human feeding experiments. Pre: HS 277 and consent of instructor. Lab fee $3.00 per credit hour each semester.

HS 301 DIETARY STUDIES (Ar.) I, II
Individual, group, family, and/or institutional studies of the nutritive value of diets. Pre: HS 277; consent of instructor. Open to qualified seniors.

HS 305 LABORATORY METHODS IN NUTRITION (3) I, II
Experiments; vitamin determinations; food analyses; basal metabolism; balance experiments with animals or humans. Pre: HS 277; Chemistry 230, 232. Lab fee $10.00.

HS 351 SEMINAR IN NUTRITION (1) II
Study and discussion of significant topics and problems in the field of nutrition. May be repeated. Pre: consent of instructor.

Interdepartmental Courses

120–121 INTRODUCTION TO SCIENCE (4–4) Yr.
Nature and objectives; understanding of nature; relationships of science and society. Not open to those who have had Survey 100 or 150–151. Lab fee $2.50 each semester.

175 PROBLEMS IN WORLD CIVILIZATION (2) I
Study of selected problems in world history through group discussion. Limited to 20 sophomores. Pre: History 100 and consent of instructor.
330 PACIFIC ISLANDS RESEARCH (3-3) Yr. STAFF
Interdepartmental seminar dealing with scientific hypotheses about social and cultural change in the Pacific islands area. May be repeated. Pre: consent of instructor.

340 SEMINAR IN HISTORY AND LITERATURE (2-2) Yr. BOUSLOG, STALKER
See English 340 and History 340.

Library Science

Students may enroll in library science courses only after consultation with instructors concerned.

260 LIBRARY PARTICIPATION (1-1) Yr. CRAWFORD, GEISER
Observation and participation in routines designed to determine aptitude for school library work. Concurrent registration in Education 244 and Library Science 262 desirable.

262 ADMINISTRATION OF SCHOOL LIBRARIES (3) I CRAWFORD
Methods of organizing various types of library materials; keeping essential records. Objectives and contributions of the school library to the educational program.

268 CATALOGUING AND CLASSIFICATION (3) II CRAWFORD
Introduction to the Dewey Decimal classification; dictionary cataloguing; subject headings and filing. Pre: typing ability. (Alt. yrs.; offered 1958–59.)

269 ADVANCED CATALOGUING (2) II CRAWFORD
More detailed problems. Open to in-service teacher-librarians who have not had 268. Pre: typing ability. (Alt. yrs.; not offered 1958–59.)

284 BOOK SELECTION AND READING GUIDANCE (3) II GEISER

286 PROMOTING LIBRARY USE (2) II CRAWFORD

290 SCHOOL LIBRARY PROBLEMS (2) II CRAWFORD
Selection, organization, and circulation of books, pamphlets, pictures, periodicals, and recordings. Pre: Library Science 262 or experience. (Alt. yrs.; not offered 1958–59.)

354 LIBRARY INTERNSHIP (14) I, II CRAWFORD, GEISER
Full-time supervised service in laboratory or public school libraries. Pre: Library Science 260, 262, 268, 284; Education 244, 254, 282.

Mathematics

Senior Professor W. J. HOLMES; Professors GREGORY, TOWNES; Associate Professor COMBA; Assistant Professors CLARK, F. DAVIS, RIFFENBURGH, SPILLER, YAMAUCHI, I. C. YOUNG; Instructors SIU, G. WHITE

120 INTRODUCTION TO MATHEMATICS (3) I COMBA
To acquaint the nonspecialist with the position of mathematics in modern culture.

149 INTERMEDIATE ALGEBRA (3) I, II WHITE

150 PLANE TRIGONOMETRY (3) I, II STAFF
Pre: two years of high school algebra or Mathematics 149; one year of plane geometry. No credit if taken after 152.

151 COLLEGE ALGEBRA (3) I, II STAFF
Pre: two years of high school algebra or Mathematics 149.
152 PLANE ANALYTICAL GEOMETRY (3) I, II  
Pre: Mathematics 150; credit or concurrent registration in Mathematics 151.  

153 DIFFERENTIAL CALCULUS (3) I, II  
Pre: Mathematics 152.  

154 INTEGRAL CALCULUS (3) I, II  
Pre: Mathematics 153.  

155 CALCULUS APPLICATIONS (3) I, II  

252-253 DIFFERENTIAL EQUATIONS (3-3) Yr.  

254-255 ADVANCED CALCULUS (3-3) Yr.  
Limits and continuity, functions of several variables, multiple integrals, infinite series, calculus of variations. Pre: Mathematics 155.  

275 MATRICES AND THEORY OF EQUATIONS (3) II  

276 VECTOR ANALYSIS (3) II  

278 THEORY OF FUNCTIONS OF A COMPLEX VARIABLE (3) II  
Residue theory; contour integration; other topics of analysis. Pre: Mathematics 155.  

279 INTRODUCTION TO MODERN ALGEBRA (3) I  
Matrices, determinants, groups, properties of number systems, and the theory of fields. Pre: consent of instructor.  

280 STATISTICAL METHODS (3) I  

281 ADVANCED STATISTICAL METHODS (3) II  

299 DIRECTED READING (Ar.) I, II  
Individual reading in advanced mathematics. Limited to senior majors with 2.7 grade-point ratio, or 3.0 grade-point ratio in mathematics.  

300 DIRECTED READING OR RESEARCH (Ar.) I, II  
Pre: graduate standing in mathematics and consent of department chairman.  

Medical Technology  
To meet the technical requirements for the Registry of Medical Technologists of the American Society of Clinical Pathologists, this sequence of courses continues for twelve calendar months commencing with the official opening of summer sessions.  

266 MEDICAL TECHNOLOGY (4)  
Student technician training in a cooperating laboratory under the supervision of a qualified director. Pre: Bacteriology 262, 264. Offered only in summer sessions.
267–268 MEDICAL TECHNOLOGY (12–12) Yr.

Student technician training in a cooperating laboratory under the supervision of a qualified director. Pre: Medical Technology 266.

Military Science

Professor HINES; Associate Professor BRUYERE; Assistant Professors BURACK, DAVIS, EAGERS, LINDOW, MCCASKILL; Instructors ALLEN, CABRAL, CASTILLE, SHADE, SIMERSON, YOUNG

Uniform and awards fee, 75 cents each semester (not refundable).

100 FIRST-YEAR MILITARY SCIENCE (1–1) Yr.

American military history, organization of the Army and ROTC, individual weapons and marksmanship, school of the soldier, exercise of command.

150 SECOND-YEAR MILITARY SCIENCE (1–1) Yr.

Crew-served weapons and gunnery, map and aerial photograph reading, role of the Army, school of the soldier, exercise of command.

200 THIRD-YEAR MILITARY SCIENCE (3–3) Yr.

Advanced military subjects and training in leadership leading to an Army Reserve commission. Selected students only. Pre: Military Science 150 or equivalent.

250 FOURTH-YEAR MILITARY SCIENCE (3–3)

Logistics, operations, military administration and personnel management, school of the soldier, exercise of command. Pre: Military Science 200.

255 SUMMER CAMP (2)

A six-week training period to supplement previous instruction in Military Science 100, 150, 200. Required for appointment in the Army Reserve.

Music

Professor RIAN; Associate Professors B. SMITH, VAUGHT, VINE; Assistant Professors KAHANANUI, STUBBS; Instructors BROWN, GILLET, MUNDY, SACLUSA; Lecturers KELLER, KERR, R. LUM

106 GROUP VOICE INSTRUCTION (1) I, II

Basic principles of voice production and elementary music skills in classes of twenty.

110 INTRODUCTION TO MUSIC LITERATURE (3) I, II

VAUGHT

Orchestral literature from the classical through the modern period. From the listener's point of view. Fee $2.00.

140 RECREATIONAL MUSIC (2) I

RIAN

Elementary music skills including instruction on the ukulele. For recreation majors but open to others.

150 ELEMENTARY MUSICIANSHIP (3) I, II

STAFF

Skills covering terminology, notation, sight singing, rhythmic and melodic dictation, and ukulele instruction. For prospective teachers.

159 INSTRUMENTAL MUSIC (2–2) Yr.

STAFF

Basic skills and teaching methods on band and orchestra instruments. For students preparing to teach instrumental music.

160–161 THEORY (4–4) Yr.

SMITH

Basic rhythmic, melodic, harmonic, and formal elements of eighteenth and nineteenth century music.
209 UNIVERSITY CHORUS (1) I, II  
Three hours a week. May be repeated.

210 UNIVERSITY CONCERT CHOIR (1-1) Yr.  
Three hours a week. May be repeated. Auditions required.

211 ENSEMBLE MUSIC (1) I, II  
Vocal (A, opera workshop; B, University singers), string, woodwind, brass, and keyboard instrumental ensembles. May be repeated. Pre: consent of instructor. 

Credit in Music 110, or consent of instructor, is necessary for Music 220, 221, 222, 223, 230.

220 MUSIC OF THE BAROQUE PERIOD (2) I  
Music literature 1580-1750, especially Bach and Handel. Oratorio, opera, and instrumental. Fee $2.00. (Not offered 1958-59.)

221 MUSIC OF THE CLASSIC PERIOD (2) II  
Haydn, Mozart, and Beethoven. Opera, choral, and instrumental music. Fee $2.00. (Not offered 1958-59.)

222 MUSIC OF THE ROMANTIC PERIOD (2) I  
Emergence of the romantic style of the nineteenth century. Major composers. Fee $2.00.

223 CONTEMPORARY MUSIC (2) II  
From Debussy to the present. Compositions by Schoenberg, Bartok, Hindemith, Stravinsky, and contemporary American composers. Fee $2.00.

230 MUSIC OF THE FAR EAST (3) II  
Introduction to the folk and traditional music of Asia. Recordings, demonstrations, pictures, etc. Fee $3.00.

251-252 MUSIC, ELEMENTARY CURRICULUM (2-2) Yr.  

253 MUSIC, ELEMENTARY CURRICULUM (2) I  
Combination of 251-252. Auxiliary Teacher Training Program only.

260-261 ADVANCED THEORY (3-3) Yr.  

265 COUNTERPOINT (2) I  
Contrapuntal elements of music and their use from the fourteenth century to the present. Pre: Music 160-161. (Not offered 1958-59.)

266 UNIVERSITY CONCERT BAND (1) I, II  
Three hours a week. May be repeated.

268 COMPOSITION (2) II  
Selected masterpieces and creative writing in smaller forms. Pre: recommendation of the department. (Not offered 1958-59.)

270-271 CONDUCTING (2-2) Yr.  
Preparation for school, community, and church conducting. Score reading, organizing and conducting choral and instrumental groups. Pre: Music 159, 160-161.

272-273 HISTORY AND LITERATURE OF MUSIC (3-3) Yr.  
Development of music from its origins to the present. Nationalities, schools, and composers. Pre: advanced standing in music. Fee $2.00.
280–281 ORCHESTRATION (2–2) Yr. KELLER
Arranging and composing for band, orchestra, and chamber groups. Pre: Music 159, 160–161, or consent of instructor.

287 PIANO METHODS (2) I SMITH
Methods and materials for class and private instruction in piano. Pre: Music 161 or consent of instructor. (Not offered 1958–59.)

289 PIANO LITERATURE (2) I SMITH
Survey of styles and forms of music for the piano and its forerunners. Pre: Music 169 (piano) or consent of instructor.

APPLIED MUSIC

Instruction is given in piano, organ, voice, and orchestral instruments in individual half-hour lessons either once or twice a week. Lessons are not made up unless the instructor is notified a reasonable time in advance of the absence. Lessons occurring on holidays are not made up.

Registration for lessons and choice of teachers must be approved by the department chairman.

One public appearance in both the junior and senior levels is required of all students majoring in music. This requirement is satisfied by successful participation in University student recitals.

Assignment to applied music courses is based on tests and auditions given by the department during the Freshman Orientation Period. To receive credit in Applied Music 149 and above, the following minimum requirements must be met:

Satisfactory work in Music 160–161, or the equivalent.

Piano and Organ—Play any major or minor scale in octaves, at a moderate tempo; Bach Two-Part Invention or a dance from one of the suites; a sonata by Haydn or Mozart; a modern composition as difficult as the sonata.

Voice—Sing on pitch, with correct phrasing and musical intelligence, standard songs in good English.

Orchestral instruments—Entrance requirements may be had by writing the Music Department.

FEES PER SEMESTER

<table>
<thead>
<tr>
<th>Lesson Type</th>
<th>Fee</th>
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<tbody>
<tr>
<td>One class lesson each week</td>
<td>$20.00</td>
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<tr>
<td>One lesson each week (half hour)</td>
<td>$55.00</td>
</tr>
<tr>
<td>Two lessons each week (half hour each)</td>
<td>$90.00</td>
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101–102 CLASS INSTRUCTION (1–1) Yr. STAFF
Class instruction at the beginning level in piano, voice, orchestra, and band instruments.

103–104 CLASS INSTRUCTION (1–1) Yr. STAFF
Class instruction at the second-year level in voice.

105 INDIVIDUAL INSTRUCTION (Ar.) Yr. STAFF
Piano, organ, voice, or orchestral instruments. For nonmusic majors, or music majors who intend it as a secondary medium of performance. May be repeated.

149 INDIVIDUAL INSTRUCTION (Ar.) Yr. STAFF
Piano, organ, voice, or orchestral instruments at the freshman level. For prospective music majors. Pre: Music 105 or consent of instructor.
169 INDIVIDUAL INSTRUCTION (Ar.) Yr.
Piano, organ, voice, or orchestral instruments at the sophomore level. For prospective music majors. Pre: Music 149 or consent of instructor.

249 INDIVIDUAL INSTRUCTION (Ar.) Yr.
Piano, voice, organ, or orchestral instruments at the junior level. Recital (249-B*) required. For music majors. Pre: Music 169 or consent of instructor.

269 INDIVIDUAL INSTRUCTION (Ar.) Yr.
Piano, voice, organ, or orchestral instruments at the senior level. Recital (269-B) required for graduation. For music majors. Pre: Music 249 or consent of instructor.

349 INDIVIDUAL INSTRUCTION (Ar.) Yr.
Piano, voice, organ, or orchestral instruments at the graduate level. For music majors. Pre: Music 269 or consent of instructor.

Nursing

Professor V. JONES; Assistant Professors ADAM, CANFIELD, FROJEN, GROSS, E. R. SMITH, WOLFE; Instructors CRANCH, OZAKI, SCHMIDT, WAKAYAMA; Lecturers BERK, CAMARA, HAERTIG, HIRSCHY, TAMASHIRO

Registration in nursing courses is restricted to students in the School of Nursing except by special permission.

100-101 INTRODUCTION TO NURSING (2-2) Yr. SCHMIDT, WOLFE
Functions of the nurse in the community: professional and ethical responsibilities. Supervised care of patients to develop beginning nursing skills.

110-111 MEDICAL AND SURGICAL NURSING (8-8) Yr. SCHMIDT, SMITH
Study and supervised experience in total care of patients with medical and surgical disorders, including operating-room nursing.

115 PHARMACOLOGY (3) I SCHMIDT
Study of drugs; expected action, uses, effects, toxicology. Common dosage and methods of administration. Associated fundamentals of mathematics and terminology.

200 PSYCHIATRIC NURSING (7) I, II CRANCH
Mental health concepts in nursing and their significance to the nurse herself. Guided experience in total care of patients with mental illness.

210 TUBERCULOSIS NURSING (6) CAMARA
Study and supervised experience in total care of patients with tuberculosis.

220-230 MATERNAL AND CHILD HEALTH NURSING (8-8) I, II OZAKI, WAKAYAMA
Study and supervised experience in total care of maternity patients, and of children from birth through adolescence.

231 HUMAN RELATIONS IN NURSING (2) I CANFIELD
Study and application of principles and methods of interviewing pertinent to nursing care. Emphasis on interpersonal relationships.

240 PUBLIC HEALTH NURSING (7) I, II ADAM
Principles of public health nursing and guided experience, including home visiting, clinic services, school health programs, and use of community agencies.

245 SENIOR NURSING (10) I, II FROJEN
Trends and demands in nursing in light of their historical background. Experience in team nursing and managerial responsibilities.

*A and S junior recital and TC senior recital.
†A and S senior recital.
255 COMPREHENSIVE NURSING CARE (3-3) Yr. CAMARA, CANFIELD, WOLFE
   Participation in planning, practice, study, and evaluation of comprehensive nursing; solution of nursing problems through scientific principles. Graduate nurses only.

280 PUBLIC HEALTH NURSING (4) I, II JONES, TAMASHIRO
   Principles, functions, responsibilities, and relationships in public health as a family and community service; orientation to field practice. Graduate nurses only.

281 HEALTH TEACHING IN NURSING (2) II CANFIELD, JONES
   Basic principles underlying teaching and learning; selection and organization of materials and methods for groups and individuals.

282 MATERNAL AND CHILD HEALTH (3) I, II JONES
   Principles and practices of public health nursing as applied to maternal and child health. Graduate nurses only.

283 PUBLIC HEALTH (3) I HIRSCHY
   Principles of public health and preventive medicine; application in protecting the health of citizens through organized community effort.

290 PUBLIC HEALTH NURSING FIELD PROGRAM (6) I, II TAMASHIRO
   Guided practice in application of principles of public health nursing in an official generalized service. Graduate nurses only.

291 INTERVIEWING IN PUBLIC HEALTH NURSING (3) I, II CANFIELD
   Study and application of principles and methods of interviewing in public health nursing activities. Graduate nurses only.

293 DYNAMICS OF DEVELOPMENT (3) II HAERTIG
   Study of the successive stages of psychosocial development of the individual and their significance in interpersonal relationships.

299 DIRECTED READING (Ar.) I, II STAFF
   (1) Public health nursing, (2) nursing service, (3) nursing education. Limited to seniors in nursing with 2.7 grade-point ratio, or 3.0 grade-point ratio in nursing.

Oceanography

   The University does not offer a degree program in this area, but the courses listed below are available. Course descriptions are given under the respective departments.

BOTANY 291 BIOLOGICAL PRODUCTIVITY OF THE SEA (3) II AUSTIN, DOTY
CHEMISTRY 260 OCEANOGRAPHIC CHEMISTRY (3) II ZEITLIN
GEOPHYSICS 250 GENERAL OCEANOGRAPHY (3) I HOWARD
ZOOLOGY 200 SCIENCE OF THE SEA (3) I HIATT
ZOOLOGY 290 OCEANOGRAPHY (3) II BANNER

Philosophy

   Senior Professor MOORE; Associate Professors MCCARTHY, NAGLEY

100 INTRODUCTION TO PHILOSOPHY (3) I, II STAFF
   Problems, methods, and fields of philosophy.

110 BUSINESS ETHICS (3) I, II MOORE
   Consideration of basic ethical concepts for business enterprise and the professions.

150 HISTORY OF PHILOSOPHY (3) I MOORE
   Western philosophy from the era of great Greek thinkers to the Renaissance. Pre: sophomore standing.
151 MODERN PHILOSOPHY (3) II  
Western philosophy from the Renaissance to the present. Desirable preparation: Philosophy 150.

200 ETHICS (3) I, II  
Relevance of the major theories of the good life to the process of decision making.

210 CONTEMPORARY PHILOSOPHY (3) II  
Survey of recent developments in Western philosophy. Pre: one of the following, Philosophy 100, 150, 151.

240 PHILOSOPHY IN LITERATURE (3) II Mc Carthy  
Literary expression of philosophical ideas. Consideration of such writers as Beauvoir, Beckett, Camus, Hemingway, Kafka, Rilke, Sartre, and T. S. Eliot.

253 PROBLEMS OF PHILOSOPHY (3) II  
Persistent specific problems of philosophy, primarily those concerning nature, man, God, etc. (Not offered 1958-59.)

260 PHILOSOPHY OF ART (3) I Mc Carthy  
Study of art from the points of view of creation, appreciation, and criticism. Particular attention to painting, sculpture, music, and poetry.

265 PHILOSOPHY, EAST AND WEST (2) II Moore  
Basic systems and methods of Eastern and Western philosophy, with special attention to similarities and contrasts. (Not offered 1958-59.)

268 AMERICAN PHILOSOPHY (3) I Nagley  
Major trends in the development of American philosophy in relation to socio-political background and influence.

270 INTRODUCTION TO INDIAN PHILOSOPHY (2) I Moore  
Philosophical systems and movements in India; the Vedas, Upanishads, Six Systems of Hinduism, Charvaka, Jainism, and Buddhism. (Not offered 1958-59.)

271 INTRODUCTION TO CHINESE PHILOSOPHY (2) II Moore  
Historical survey of the important philosophical schools and tendencies in China, ancient and modern. (Not offered 1958-59.)

275 PHILOSOPHY OF RELIGION (3) II Nagley  
Major types of Western religious philosophy: Thomism, Mysticism, Reformationism, Rationalism, Agnosticism, Romanticism, Humanism, and Existentialism.

276 PHILOSOPHICAL INTERPRETATIONS OF HISTORY (3) II Nagley  
Analyses and prescriptions of Augustine, Hegel, Marx-Engels, Burckhardt, Nietzsche, Spengler, Sorokin and Toynbee for their respective ages of crisis. (Not offered 1958-59.)

277 KIERKEGAARD AND EXISTENTIAL PHILOSOPHY (3) II Nagley  
Analysis of the writings of Kierkegaard, and a survey of his influence upon philosophical and existentialism. (Not offered 1958-59.)

280 LOGIC (3) I, II Mc Carthy  
Principles of deductive and inductive logic. Problems of clear thinking in science, law, argumentation, and ordinary discourse.

285 FOUNDATIONS OF SCIENCE (3) I Mc Carthy  
Philosophical foundations and implications of modern physical science. Particular reference to Copernicus, Galileo, Newton, and Einstein. (Not offered 1958-59.)

286 PHILOSOPHY IN CONTEMPORARY SCIENCE (3) I Mc Carthy  
Philosophical implications of recent trends in physical science. Particular attention to the development of operationalism.
287 SCIENTIFIC METHOD (3) II  McCARTHY
A systematic study of the methods and procedures of reliable knowledge in the formal, natural, and social sciences.

299 DIRECTED READING (Ar.) I, II  STAFF
(1) Metaphysics, (2) methodology, (3) ethics, (4) Indian philosophy, (5) Chinese philosophy, (6) Buddhist philosophy, (7) East-West philosophy. Limited to senior majors with 2.7 grade-point ratio, or 3.0 grade-point ratio in philosophy.

300 READING AND RESEARCH (Ar.) I, II  STAFF
Reading and research in the same fields as in 299. Pre: graduate standing; consent of instructor.

310 SEMINAR IN PROBLEMS OF PHILOSOPHY (3) II  NAGLEY
Aims, methods, and fields of philosophy. Pre: graduate standing.

Physic

Professors I. MIYAKE, WATANABE; Assistant Professors HOWARD, STEIGER; Instructor CHANG

Mathematics 154 and Physics 102 or 104 are prerequisite to all 200 courses.

102 COLLEGE PHYSICS (4-4) Yr. (3 L, 1 Lb) HOWARD
Pre: Mathematics 150 and credit or concurrent registration in Mathematics 151. Lab fee $6.00 each semester.

104 ENGINEERING PHYSICS (5-5) Yr. (4 L, 1 Lb) STAFF
Pre: credit or concurrent registration in Mathematics 154. Lab fee $6.00 each semester.

110 ASTRONOMY (3) II  STEIGER
Introduction to the nature of the astronomical universe; survey of observational methods and historical development. Pre: Mathematics 149 or equivalent.

151 FUNDAMENTALS OF COMMUNICATION (3) I (2 L, 1 Lb) MIYAKE
An electricity course covering DC and AC theory and applications; emphasis on communication circuits. Pre: Mathematics 150. Lab fee $6.00.

153 PRINCIPLES OF RADIO (3) II (2 L, 1 Lb) MIYAKE
Fundamentals of radio theory and design; construction of radio receiving and amplifying equipment. Pre: Physics 151. Lab fee $6.00.

202 ELECTRICAL ENGINEERING (3-2) Yr. (2 L, 1 Lb) MIYAKE
Electric power circuits and machinery. Lab fee $6.00 each semester.

253 ELECTRICAL MEASUREMENTS (1-1) Yr. (1 Lb) CHANG
Application of the methods of measurement of fundamental electric and magnetic quantities. Lab fee $6.00.

255 LIGHT (3) II  STEIGER
Principles of geometric and physical optics. (Not offered 1958–59.)

256 OPTICS LABORATORY (1) II (1 Lb) STEIGER
Experiments in geometric and physical optics. Pre: credit or concurrent registration in Physics 255. Lab fee $6.00. (Not offered 1958–59.)

258 ELECTRONICS (3) II  MIYAKE

262 SOUND (3) II  MIYAKE
Theory of sound and its applications. (Not offered 1958–59.)
263 THEORETICAL MECHANICS (3) I  
Principles of statics and dynamics.

270 HEAT (3) I  
Study of radiation, kinetic theory, heat measurements, and laws of thermodynamics.

275 ELECTRICITY AND MAGNETISM (3) I  
Electric and magnetic phenomena.

277 ELECTROMAGNETIC WAVES (3) II  
Wave equations and applications. Pre: Physics 275; Mathematics 155.

279 CIRCUIT ANALYSIS (3) II  
Network theorems, filters, polyphase circuits, and method of symmetrical components.

280 A SURVEY OF MODERN PHYSICS (3) I  
An introductory treatment of the quantization of energy and the atomicity of matter.

281 ATOMIC AND NUCLEAR PHYSICS (3) II  
Structure of the atom and its nucleus, the energy relationships involved, and quantum mechanics. Pre: Physics 280.

299 INDIVIDUAL WORK IN ADVANCED PHYSICS (Ar.) I, II  
Limited to senior majors with 2.7 grade-point ratio, or 3.0 grade-point ratio in physics.

300 DIRECTED READING OR RESEARCH (Ar.) I, II  
Pre: graduate standing in physics; consent of instructor.

301 THEORETICAL PHYSICS—ANALYTICAL DYNAMICS (3) I  
Dynamics of rigid bodies and fluids; theory of vibrations; Lagrangian and Hamiltonian methods. Pre: Physics 263; Mathematics 253 or 255.

302 THEORETICAL PHYSICS—ELECTRODYNAMICS (3) II  
Maxwell's field equation and applications. Pre: Physics 255, 275; Mathematics 253 or 255.

303 INTRODUCTION TO QUANTUM MECHANICS (3) I  
Formulation of quantum mechanics; solutions of Schrödinger's equation. Pre: Physics 280 or equivalent; Mathematics 155.

304 ATOMIC AND MOLECULAR SPECTRA (3) II  
Study of atomic and molecular structure by quantum mechanical interpretation of line, band, and continuous spectra. Pre: Physics 303.

350 SEMINAR (1–1) Yr.  
Discussions and papers on physical theory and recent developments. Pre: graduate standing or consent of the chairman.

Psychology  
Senior Professor Livesay; Professors Berrien, Bittner, Herrick, Vinacke, Weaver;  
Associate Professors Arkoff, Crowell, Diamond, Digman; Assistant Professors Dole, Kalish  

Psychology 150 is prerequisite to all other courses except 100 and 156. Qualified seniors may enroll in certain 300 courses with consent of instructor.

100 PSYCHOLOGY OF EFFECTIVE STUDY (3) I, II  
Application of psychological principles to effective study. Problems in self-management and college adjustment. Open to freshmen and sophomores only.
150 GENERAL PSYCHOLOGY (4) I, II (3 L, 1 Lb)  
Principles of human behavior. Individual differences, motivation, emotion, perceiving, learning, etc. Lab fee $1.00. Not open to those who have had 156.

156 INTRODUCTION TO PSYCHOLOGY (3) I, II  
Similar to 150 but without laboratory. Not open to arts and sciences students, or those who have had 150.

185 PSYCHOLOGY OF INFANCY AND CHILDHOOD (2) I, II  
Principles basic to the normal development of the infant and child; emphasis upon physical, emotional, intellectual, and social development.

186 PSYCHOLOGY OF ADOLESCENCE AND MATURITY (2) I, II  
Developmental characteristics during preadolescent, adolescent, and adult years; emphasis upon physical, emotional, intellectual, and social factors and changes.

191 PSYCHOLOGY OF ADJUSTMENT (3) I, II  
Understanding and improving personal adjustment. Adjustment in family, school, vocation, sex, marriage, and later maturity.

210 EXPERIMENTAL PSYCHOLOGY (4) I (2 L, 1 4-Hr Lb)  
Basic methodology and experimental literature. Sensation, perception, emotion, conditioning, thinking, social phenomena.

250 APPLIED PSYCHOLOGY (3) I  
Application of psychological principles to problems of personal efficiency and to the fields of commerce, highway traffic, law, and medicine.

254 PRINCIPLES OF GUIDANCE (3) I  
Psychological bases; methods and scope of educational, vocational, and personal guidance. Pre: Psychology 260, 264.

255 EDUCATIONAL PSYCHOLOGY (3) I, II  
Major factors of learning and mental health as they apply to the educative process.

256 INDUSTRIAL AND BUSINESS PSYCHOLOGY (3-3) Yr.  
Job analysis, rating methods, selection and classification, fatigue and efficiency, human engineering, safety, training, motivation, social factors.

260 STATISTICAL TECHNIQUES (3) I, II  
Measures of central tendency and variability; graphic methods; correlation; reliability; tests of significance. Pre: two years of high school algebra or Mathematics 149.

264 PSYCHOLOGICAL MEASUREMENTS (3) I  
Construction, validation, and administration of tests; interpretation and application of scores; familiarization with types of group tests. Pre: Psychology 260.

267 INTERMEDIATE EXPERIMENTAL PSYCHOLOGY (3) II  
Original experiments with emphasis upon laboratory techniques. Control of variables, apparatus design, and statistics in research.

270 PHYSIOLOGICAL PSYCHOLOGY (3) I  
Physiological explanation of behavior in terms of sense organs, the nervous system, and muscles and glands.

272 PSYCHOLOGY OF LEARNING (3) I  
The major conditions influencing learning and forgetting; the role of motivation, rewards, and practice; theoretical interpretations of the learning process.

274 PSYCHOLOGY OF THINKING (2) II  
Concept formation, problem solving, creative imagination, autistic thinking, attitudes, and opinions.
275 HISTORY OF PSYCHOLOGY (3) I
The background of modern psychology. Origins and development of contemporary points of view. Relationship to Western thought.

280 SOCIAL PSYCHOLOGY (2) II
Psychology of human relations; psychological factors that determine the behavior of an individual in his social relationships.

281 SOCIAL PSYCHOLOGY LABORATORY (1) II
Experimental study of human relations; techniques pertinent to group work; evaluation. Pre: consent of instructor.

283 PSYCHOLOGY OF PERSONALITY (3) I (2 L, 1 Lab)
Development of personality; components; critical evaluation of research. Lab fee $2.00.

284 PSYCHOLOGY OF MOTIVATION (2) II
Instinct, drive, motives, emotion, and attitudes; their biological bases, modification, and organization. (Alt. yrs.; not offered 1958-59.)

286 POLITICAL PSYCHOLOGY (2) I
Political behavior of individuals and groups; the voter, the politician, political parties; psychological problems which arise in the conduct of government.

293 PSYCHOLOGY OF EXCEPTIONAL CHILDREN (3) I
Evaluation of physical, emotional, and intellectual deviations and their effects upon the growth and development of children. Pre: Psychology 185, 186.

295 ABNORMAL PSYCHOLOGY (3) I, II
Nature and causes of psychoneuroses and psychoses; abnormalities of intelligence; incipient abnormal traits manifested in everyday life; psychotherapy.

300 DIRECTED READING OR RESEARCH (Ar.) I, II
Pre: graduate standing and consent of instructor.

322 SEMINAR IN PROBLEMS OF PSYCHOLOGY (2) I, II
(a) Developmental. (b) psychodynamics, (c) industrial, (d) measurement, (e) sensation and perception. Pre: consent of instructor.

351 ADVANCED EDUCATIONAL PSYCHOLOGY (3) I, II
Application of experimental evidence in psychology to major educational problems; the bearing of recent psychological theories upon education.

356 PROBLEMS IN CLINICAL PSYCHOLOGY (3) I
Clinical case studies; histories; selection of tests; interpretation; recommendations, follow-up. Participation in staff conferences. Pre: consent of instructor. (Not offered 1958-59.)

357 PRINCIPLES OF COUNSELING (3) I
Counseling as a technique in individual guidance. Needs; objectives; psychological bases of counseling; procedure; available services. Pre: Psychology 254.

360 ADVANCED STATISTICAL TECHNIQUES (3) II
Sampling procedures, elementary probability theory, tests of statistical hypotheses, analysis of variance, correlational techniques, factor analysis.
362 INDIVIDUAL INTELLIGENCE TEST TECHNIQUES (3) I, II  ARKOFF, HERRICK
Practice in individual tests such as the Stanford-Binet and Wechsler. Pre: Psychology 264; consent of instructor. Lab fee $5.00.

363 PRACTICUM IN COUNSELING AND TESTING (3) II  DOLE
Guided experience in educational and vocational counseling and testing. Pre: Psychology 357 or consent of instructor.

364 PROJECTIVE TECHNIQUES (3) II  CROWELL
Theory and application of projective techniques, with emphasis on the Rorschach and Thematic Apperception tests.

367 ADVANCED EXPERIMENTAL PSYCHOLOGY (3) I  DIAMOND
Advanced techniques and research procedures associated with experimental psychology.

380 ADVANCED SOCIAL PSYCHOLOGY (3) II  VINACKE
Methods and objective verification of hypotheses; interpersonal relations, group structure and process, social conflict, propaganda, etc. (Not offered 1958–59.)

382 CONTEMPORARY THEORY (3) II  DIAMOND
Examination of current theoretical systems. Special attention to meaning and uses of theory, theory construction, and basic concepts.

390 CLINICAL PSYCHOLOGY (3) I  ARKOFF

Religion

Professor FITCH; Assistant Professor AOKI

150 INTRODUCTION TO THE STUDY OF RELIGION (3) I  AOKI
The nature of religion; the world’s living religions—Hinduism, Buddhism, Confucianism, Taoism, Judaism, Christianity, Islam.

151 RELIGION AND THE MEANING OF EXISTENCE (3) II  AOKI
Contemporary problems of religious thought: faith and knowledge, God, freedom, evil, man, science, and immortality.

161 RELIGION AND CULTURE (3) II  FITCH
Religious beliefs about God, man, society, history, science, and knowledge; how religion makes an impact on all aspects of culture.

200 UNDERSTANDING THE OLD TESTAMENT (3) I  AOKI
A study of the developing beliefs and practices of the Hebrew religion as set forth in the Old Testament. Emphasis on the meaning of its faith for the modern world.

201 UNDERSTANDING THE NEW TESTAMENT (3) II  AOKI
The origin and development of the early Christian message as set forth in the New Testament, with special attention to Jesus and Paul.

209 THE LIFE AND TEACHINGS OF JESUS (3) II  AOKI
A critical study of the life and teachings of Jesus. An interpretation of the meaning of Jesus Christ for Christian faith. (Not offered 1958–59.)

210 THE PROPHETS AND SAGES OF THE OLD TESTAMENT (3) I  AOKI
The prophetic and wisdom literature of the Old Testament. (Not offered 1958–59.)

221 GREAT PERSONALITIES IN CHRISTIANITY (3) II  AOKI
An examination of the lives and thought of some outstanding representatives. (Not offered 1958–59.)
240 WESTERN RELIGIOUS THOUGHT TO 1492 (3) I
Ideas of major religious thinkers and movements in the history of the Western world
to 1492; concluding with an evaluation of Roman Catholicism.

241 WESTERN RELIGIOUS THOUGHT FROM 1500 (3) II
The period of the Protestant Reformation to the present, with an evaluation of the
Protestant movement.

261 THE NATURE AND DESTINY OF MAN (3) II
Religious views of human nature in their bearing on man's activities in politics, edu-
cation, law, economics, and literature.

282-283 THE HISTORY OF LIVING RELIGIONS (3-3) Yr.
First semester: basic beliefs and practices of Hinduism, Confucianism, Taoism,
Buddhism, Shintoism, and Islam. Second semester: Judaism, Roman Catholicism, and
Protestantism, their history, beliefs, contributions. Semesters are independent.

286 CHRISTIAN ETHICS (3) I
A study of historical types of Christian ethics. (Not offered 1958-59.)

Social Work

Professors HANDLEY, JAMBOR; Associate Professors COCHRAN, MERRITT, WALSH, ZA-
LOHA; Lecturers KIMMICH, TAKASAKI

200 THE FIELD OF SOCIAL WORK (3) I, II
Nonprofessional orientation course intended to acquaint the student with the philoso-
phy, scope, and aims of social work. Pre: junior standing.

275 INTRODUCTION TO SOCIAL GROUP WORK (3) II
Introduction to the philosophy and aims underlying social group work.

305 SOCIAL CASEWORK (2) I
Introduction to the basic principles and processes of social casework.

306 SOCIAL CASEWORK (2) II
Continuation of 305. Emphasis upon diagnosis and skill in the treatment of casework

308 SOCIAL GROUP WORK (2) I
Introduction to the basic principles and processes of group work.

309 SOCIAL GROUP WORK (2) II
Continuation of 308. Emphasis upon understanding the individual in groups, and skill

310-311 HUMAN GROWTH AND BEHAVIOR (3-3) Yr.
Designed to provide a synthesized understanding of physical, mental, and emotional
growth, with due regard to social and cultural influences on individual development.

312 GROUP WORK PROGRAM ACTIVITIES (1-1) Yr.
The program as a tool in meeting individual and group needs. Concurrent with 360-
361.

315 COMMUNITY ORGANIZATION (2) II
Basic principles and processes of community organization in social work.

324 HISTORY OF SOCIAL WORK (2) II
Major trends in the development of social work thought and action in England and
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
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<tbody>
<tr>
<td>325</td>
<td>CHILD WELFARE (2)</td>
<td>COCHRAN</td>
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<td>326</td>
<td>TREATMENT OF JUVENILE DELINQUENCY (2)</td>
<td>COCHRAN</td>
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<td>Social work practice in relation to problems of juvenile delinquency.</td>
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<td>350</td>
<td>PUBLIC WELFARE (2)</td>
<td>JAMBOR</td>
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<td>352</td>
<td>SOCIAL STATISTICS AND RESEARCH (2)</td>
<td>TAKASAKI</td>
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<td>Problems and procedures in social research related to social work practice.</td>
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<td>353</td>
<td>LEGAL ASPECTS OF SOCIAL WORK (2)</td>
<td>JAMBOR</td>
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<td>Problems in judicial administration and substantive law that affect individuals in relation to social problems.</td>
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<td>356</td>
<td>SOCIAL WELFARE—ITS ORGANIZATION AND ADMINISTRATION (2)</td>
<td>JAMBOR</td>
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<td></td>
<td>Principles and problems of social agencies with respect to structure, management, and financing. Emphasis upon the effect of setting in relation to specialized practice.</td>
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<td>360-361</td>
<td>SUPERVISED FIELD WORK (3–3) Yr.</td>
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<td>University units in public and private agencies. Concurrent with a method course (casework, group work, or community organization). Limited to full-time students.</td>
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<td>362-363</td>
<td>ADVANCED SUPERVISED FIELD WORK (4–4) Yr.</td>
<td>STAFF</td>
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<tr>
<td></td>
<td>To be taken concurrently with an advanced course in social work method (casework, group work, or community organization). Limited to full-time students.</td>
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<tr>
<td>365</td>
<td>ADVANCED SOCIAL CASEWORK (2)</td>
<td>MERRITT</td>
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<tr>
<td></td>
<td>Case discussion of generic casework concepts as they apply in work with emotionally disturbed individuals. Concurrent with 362.</td>
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<td>366</td>
<td>SEMINAR IN SOCIAL CASEWORK (2)</td>
<td>MERRITT</td>
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<td></td>
<td>Analysis and evaluation of case material contributed from the student’s experience and from selected records.</td>
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<tr>
<td>367</td>
<td>CASEWORK WITH CHILDREN (2)</td>
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<td>Casework concepts in the care of children. Pre: Social Work 365; consent of instructor.</td>
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<tr>
<td>368</td>
<td>SEMINAR IN REHABILITATION (2)</td>
<td>COCHRAN</td>
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<td>Problems of rehabilitation and the role of social work in this area.</td>
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<td>370</td>
<td>ADVANCED SOCIAL GROUP WORK (2)</td>
<td>ZALOHA</td>
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<td>Analysis of the use of volunteers in group work; their recruitment, selection, placement, training, and supervision. Concurrent with 362.</td>
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<td>371</td>
<td>SEMINAR IN SOCIAL GROUP WORK (2)</td>
<td>ZALOHA</td>
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<td>Analysis and evaluation of case material contributed from the student’s experience and from selected records.</td>
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<td>375</td>
<td>ADVANCED SOCIAL PSYCHIATRY (2)</td>
<td>KIMMICH</td>
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<td>Dynamics of behavior in the neuroses and in functional and organic psychoses, with emphasis on current treatment processes.</td>
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<td>381</td>
<td>SEMINAR IN SOCIAL WELFARE POLICY (2)</td>
<td>JAMBOR</td>
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<td>Basic problems and policies in the major fields of social welfare.</td>
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<td>383</td>
<td>ADMINISTRATIVE METHODS IN SOCIAL WORK (2)</td>
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<td></td>
<td>Administration of social work agencies with emphasis upon the relationship between structure and function. Problems of internal administration.</td>
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385 METHODS OF SUPERVISION IN SOCIAL WORK (2) II  WALSH, ZALOHA
Supervision in social work as it relates to casework and social group work. Open to agency workers who are potential or actual supervisors. Pre: consent of instructor.

390 CULTURAL FACTORS IN SOCIAL WORK PRACTICE (2) II HANDLEY

399 SEMINAR IN RESEARCH (2) I HANDLEY, STAFF
Principles of objective fact-finding, primary and secondary sources of social data; preparation of a report or thesis.

Sociology
Senior Professor LIND; Professors GLICK, HORMANN; Associate Professors CHENG, YAMAMURA; Assistant Professor J. MIYAKE; Instructors BARTOS, YAMAMOTO, VOSS
Sociology 151 or the equivalent is prerequisite to all advanced courses in sociology.

100 ORIENTATION FOR FOREIGN STUDENTS (1) I MIYAKE
Introduction to the American community and university. Required of all foreign students during the first semester of University residence.

151 INTRODUCTION TO THE STUDY OF SOCIETY (3) I, II STAFF
An orientation course. The basic social relationships, the corresponding social structures, and the processes affecting social change.

250 COMMUNITY FORCES IN HAWAII (3) I, II GLICK, HORMANN, LIND, YAMAMOTO
Basic factors and forces in contemporary society as exemplified in Hawaii. Preprofessional orientation course. Closed to sociology majors.

251 FOLK AND PEASANT SOCIETY (3) II HORMANN
Folk peasant society in contrast to urban-industrial; world-wide transition of one into the other; reference to Chinese and Japanese peasant society. (Not offered 1958-59.)

252 SOCIOLOGY OF RELIGION (3) I HORMANN
Structure, function, and dynamics of religion in various types of society: folk, peasant, and mass.

253 RURAL SOCIOLOGY (3) I YAMAMURA
Organization of life in the rural environment. A comparative study of rural community types.

254 THE URBAN COMMUNITY (3) II VOSS
Sociological principles applied to the modern city. Structure, growth, social and personal life organization.

255 SOCIAL DISORGANIZATION (3) I HORMANN
Social factors in the disorganization of communities, institutions, and groups. Deviant and pathological personal behavior. An integrated approach to social problems.

256 RACE AND CULTURE CONTACTS IN HAWAII (3) I LIND
Dominant conceptions of race and race relations; analysis of factors affecting them. Problems in a commercial and plantation frontier. (Not offered 1958-59.)

257 RACE RELATIONS IN THE PACIFIC (3) I GLICK
Survey of typical situations of race and culture contacts in the Pacific area.

258 RACE RELATIONS (3) II GLICK
Race relations in world perspective; typical situations; conflict and accommodations; caste; race prejudice; miscegenation; effects upon personality. (Not offered 1958-59.)
259  
**PEOPLES AND INSTITUTIONS OF JAPAN (3) II**

YAMAMOTO

Social change in the institutional patterns and attitudes of social classes in Japan, with special attention to the accelerated change since World War II.

261  
**SOCIOLOGY OF THE SMALL GROUP (3) II**

BARTOS

Practical application of theories and research findings involving face-to-face relations between persons: leadership, prestige, group morale.

262  
**SOCIAL CONTROL (3) I**

LIND

Devices for subjecting the individual and group to broader social definitions. Role of tradition, ceremonial, and dogma in the socialization of the individual.

263  
**PUBLIC OPINION AND THE COMMUNITY (3) II**

BARTOS

Nature and functions of public opinion in the contemporary world. Formation and polling. Problems of interviewing and sampling.

264  
**JUVENILE DELINQUENCY (3) I**

YAMAMURA


265  
**CRIMINOLOGY (3) I, II**

CHENG


266  
**SOCIAL INSTITUTIONS (3) I**

CHENG

Culture as a conceptual tool. Origin, structure, functions, and growth of institutions. Interrelations and integration.

267  
**THE FAMILY (3) I, II**

CHENG, YAMAMURA

Culturally distinctive family types as background for analysis and interpretation of American family life in its societal contexts.

268  
**HUMAN MIGRATION (3) I**

CHENG


269  
**PERSONALITY AND CULTURE (3) I, II**

YAMAMOTO

Origin and development of personality as the subjective aspect of culture; function of communication; human nature and the mores; personal life organization.

270  
**POPULATION AND SOCIETY (3) II**

YAMAMURA

Society analyzed in terms of the quantitative and qualitative aspects of population. Sociological aspects of birth and death rates, natural increase, and mobility.

271  
**HUMAN ECOLOGY (3) I**

YAMAMURA

Basic concepts, principles, and techniques. Factors affecting distribution and movement of population, utilities, and social institutions.

272  
**COLLECTIVE BEHAVIOR (3) I**

GLICK

Elementary forms of collective behavior; social unrest; crowd, public, mass behavior; operation of publics in democratic societies. (Not offered 1958–59.)

273  
**SOCIAL MOVEMENTS (3) II**

GLICK

Sociology of reform movements, countermovements, and revolution; their development and relation to social change. Case studies of contemporary social movements.

274  
**SOCIAL CHANGE (3) II**

CHENG

Structural-functional organization. Impact of technology on institutions, value orientation, power structures, system of role and stratification.

275  
**AMERICAN SOCIETY IN TRANSITION (3) II**

VOSS

Major trends, particularly as reflected in the war and post-war periods.
174 GENERAL CATALOGUE, 1958–59

276 DEVELOPMENT OF SOCIAL THOUGHT (3) I  
   BARTOS  
   History of sociology as reflected in writings ranging from early Greek thought to modern  
   authors such as Durkheim, Pareto, Simmel, Parsons, Merton.

277 PEOPLE AND INSTITUTIONS OF CHINA (3) II  
   CHENG  
   Analysis of social philosophies and their influence on basic institutions and traits of the  
   people. Impacts of Western culture and Communism.

280 SOCIAL STATISTICS (3) I  
   YAMAMURA  
   Introduction to statistical methods and resources as applied to social research data.

281 ADVANCED SOCIAL STATISTICS (3) II  
   YAMAMURA  
   Treatment of sociological data: sampling procedures, test of hypotheses, analysis of  
   variance, correlation and regression, scale analysis. Pre: Sociology 280 or equivalent.

282 METHODS OF SOCIAL RESEARCH (3) I, II  
   GLICK  
   Values and limitations of common methods of research for various types of studies.  
   Laboratory, field work. Pre: 9 credits in sociology or consent of instructor.

285 INDUSTRIAL SOCIOLOGY (3) II  
   HORMANN  
   Status system in industry. Problems of group adjustment. Factors affecting industrial  

299 DIRECTED READING (Ar.) I, II  
   STAFF  
   Limited to senior majors with 2.7 grade-point ratio, or 3.0 grade-point ratio in sociology.

300 DIRECTED READING OR RESEARCH (Ar.) I, II  
   STAFF  
   Pre: graduate standing; consent of instructor.

310 SEMINAR IN SOCIOLOGICAL THEORY (3) I  
   BARTOS  
   Survey of contemporary sociological theory; principles of theory construction, analysis,  
   and criticism. Pre: consent of instructor.

321 SEMINAR IN METHODS OF RESEARCH (3) II  
   YAMAMURA  
   Fundamentals of research and thesis preparation. Applications to specific problems.  
   Pre: consent of instructor.

351 GRADUATE SEMINAR (3) I, II  
   CHENG, GLICK  
   (1) Human ecology and demography; (2) social organization; (3) social disorganization;  
   (4) the group and the persons; (5) collective behavior and social change. (2)  
   social organization (1); (5) collective behavior and social change (II), 1958–59.] Pre:  
   consent of instructor.

359 SEMINAR IN RACE RELATIONS (3) II  
   GLICK  
   Major theoretical developments and research problems in the field of race relations.  
   Pre: consent of instructor. (Not offered 1958–59.)

Speech

Professors ANSBERRY, J. SMITH; Associate Professors CARR, HOSHOR; Assistant Professors  
BENTLEY, BILSBORROW, BRENEMAN, KENTZLER, LEFFORGE, LINN, NEWCOMER, H.  
WONG; Instructors J. CHING, B. GORDON, M. GORDON, HERVEY, LARSON, LEWIS,  
McCABE, SCHMUTZ, STEED, WATSON

Speech 100 is prerequisite to all other courses.

100 FUNDAMENTALS OF SPEECH (1) I, II  
   STAFF  
   Communication for social interaction. Speech production; organization of ideas; training  
   for mastery of speech standards. Conferences required. Fee $1.00.
101 SOUNDS AND RHYTHMS OF SPOKEN ENGLISH (1) I, II
Sounds and rhythms of General American speech; effective communication of ideas. International Phonetic Alphabet. Conferences required. Fee $2.00.

102 DEVELOPMENT OF ORAL SKILL (1) I, II
Speech sounds and rhythms in practical speaking situations. Idiom and grammar. Individual problems, using laboratory equipment. Conferences required. Fee $2.00.

105 SOUNDS OF ENGLISH FOR PROSPECTIVE TEACHERS (1) I, II
Sounds and rhythms of General American speech. Techniques for correction of pronunciation and improvement of rhythm. Fee $1.00.

106 PRONUNCIATION AND GRAMMAR FOR PROSPECTIVE TEACHERS (1–1) Yr.
Continued work on sounds and rhythms; idiom and grammar. Pre: Speech 105. Fee $1.00 each semester. 106C may be required by recommendation.

107 LANGUAGE SKILLS FOR PROSPECTIVE TEACHERS (1) I, II
Practice course to give further experience in speaking. Individual problems of poise, voice, vocabulary, organization. Conferences required. Pre: Speech 105. Fee $1.00.

131 READING ALOUD (3) I, II
Study of the relationships between silent and oral reading with intensive practice in getting and giving the meaning from the printed page.

150 PUBLIC SPEAKING (3) I, II
Basic principles of speech composition and delivery; preparation and delivery of speeches with attention to principles studied; special attention to individual problems.

152 BUSINESS AND PROFESSIONAL SPEECH (3) I, II
Speaking in the business and professional world: interviews, conferences, committee work, oral reports, parliamentary procedure. (No credit in both Speech 150 and 152.)

155 PRINCIPLES AND TYPES OF DISCUSSION (2) II
Discussion of social, political, and personal problems, using cooperative investigation, round table, panel, symposium, case and incident methods, parliamentary procedure.

204 VOICE TRAINING FOR SPEECH (2) I, II
Physical and physiological bases of voice production; problems of nasality, inaudibility, monotony. Pre: permission of instructor, or recommendation of department.

220 PHONETICS (3) I, II
English pronunciation with attention to Hawaii's linguistic background. Articulation, standards of pronunciation, dialect study, teaching of speech.

221 FUNDAMENTALS OF SPEECH CORRECTION (3–3) Yr.
First semester: survey; observation of diagnosis and therapy. Second semester: therapy for functional and organic speech disorders; observation and clinical practice.

222 SPEECH PATHOLOGY (3) I
Diagnostic and therapeutic procedures involved in speech rehabilitation.

223 PRACTICUM IN SPEECH CORRECTION (3) II
Clinical experience in the use of rehabilitation techniques with a variety of defects and disorders at various age levels.

224 FUNDAMENTALS OF AUDIOLOGY (3) I
Hearing and its effects on speech. Problems of the deaf and hard-of-hearing with emphasis on educational techniques. Training in the use of audiometric equipment.

228 SEMANTICS (3) II
Language in understanding; verbal meaning and implication; the role of assumption in interrelationships. Use of language for clarity, accuracy, and evaluation.
176  GENERAL CATALOGUE, 1958–59

230  ORAL READING FOR PROSPECTIVE TEACHERS (1) I, II  STAFF
Oral interpretation of literature; getting and giving the meaning of the printed word. Conferences required. Pre: Speech 105. Fee $1.00.

232  ADVANCED INTERPRETATIVE READING (3) I, II  SMITH
Interpretative reading based on textual analysis of literary forms and careful study of principles of effective reading. Pre: English 150 or equivalent.

250  GROUP LEADERSHIP AND DISCUSSION (3) I, II  HOSHOR
Principles and techniques of effective group leadership; semantic and psychological barriers to communication. Analysis and discussion of social problems.

251  PUBLIC DISCUSSION AND DEBATE (1) I, II  STAFF
Training in debate and discussion; analysis of social, political, and economic problems. Public discussion and debate required. May be repeated for a total of 6 credits.

255  ADVANCED PUBLIC ADDRESS (3) I  LEFFORGE
Composition and delivery; models from American Public Address; types of deliberative and ceremonial speeches. Pre: Speech 150 or consent of instructor.

265  SPEECH FOR THE CLASSROOM TEACHER (3) I, II  STAFF
Pedagogy for the classroom teacher. Integration of speech improvement in the curriculum; speech problems of Hawaii. Pre: Speech 105.

270  INTRODUCTION TO BROADCASTING (3) I  STEED
Analysis of radio and television as communications media and as industries. Comparison of American and foreign broadcasting; particular attention to the British system.

271  RADIO PRODUCTION (3) II  STEED
Programs and analysis of techniques. Announcing; use of equipment; basic control operation. Study for operator's license optional. Pre: Speech 270 or consent of instructor.

295  PERSUASION: A STUDY IN RHETORIC (3) I  HOSHOR
Factors involved in influencing the attitudes, beliefs, and actions of audiences; analysis of oral propaganda. Classical and contemporary theories and examples are examined.

298  SPECIAL PROBLEMS (Ar.) I, II  STAFF
(1) General speech education; (2) speech correction; (3) phonetics and voice science; (4) interpretation; (5) forensics, public address; (6) radio; (7) pedagogy; (9) audiology. Pre: consent of instructor or recommendation of department chairman.

299  DIRECTED READING (Ar.) I, II  STAFF
The same fields as in 298. Limited to senior majors with 2.7 grade-point ratio, or 3.0 grade-point ratio in speech.

300  RESEARCH (Ar.) I, II  STAFF
The same fields as in 298 and 299. Four credits may be earned. Pre: undergraduate major in speech; consent of adviser or recommendation of department.

310  SEMINAR IN RESEARCH METHODS (3) I, II  HOSHOR
Research methods, analysis and reporting of data; bibliography; contemporary research.

320  SEMINAR IN SPEECH CORRECTION (3) II  ANSBERRY
Problems in the etiology and therapy of speech deviations.

330  SEMINAR IN INTERPRETATION (3) I, II  SMITH
Current literature in interpretation; reports; lecture recitals. Pre: consent of instructor.

340  SEMINAR IN PHONETICS AND VOICE SCIENCE (3) I  CARR
Problems in advanced phonetics and voice science. Pre: consent of instructor.
350 SEMINAR IN RHETORIC AND PUBLIC ADDRESS (3) II
   Lefforge
   Review of studies; preparation of reports. Pre: consent of instructor.

360 GENERAL SEMINAR (2) I, II
   Staff
   Significant topics and problems in speech. May be repeated.

Zoology and Entomology

Senior Professors Bess, Hiatt, Tester; Professors Banner, Carter, Chu, Gosline, Hardy, Hsiao, Matthews, M. Sherman, Tuthill, van Weel; Assistant Professors Namba, Townsley

Zoology 100 is prerequisite to all advanced courses with the exception of 110 and 191.

100 GENERAL ZOOLOGY (4) I, II (2 L, 2 Lb)
   Banner, Staff
   Zoological principles; studies of structure, development, relationships, and distribution of animals. Lab fee $6.00.

110 PRINCIPLES OF HUMAN BIOLOGY (3) I
   Matthews
   Biological principles relating to man; man's place in nature; structure and function of the organ systems. Not open to students who have had 100.

151 COMPARATIVE ANATOMY OF THE VERTEBRATES (4) II (2 L, 2 Lb)
   Hsiao, Staff
   Structure and relationship of the vertebrate groups and dissection of typical vertebrates. Lab fee $9.00.

170 GENERAL ENTOMOLOGY (4) I, II (2 L, 2 Lb)
   Hardy, Tuthill
   Structure, habits, biology, and classification of insects. Insects characteristic of Hawaii. Pre: Zoology 100 or Botany 100. Lab fee $3.00.

191 ELEMENTARY HUMAN ANATOMY AND PHYSIOLOGY (3) I, II (2 L, 1 Lb)
   Hsiao
   General survey of gross anatomy and physiology. Lab fee $3.00. Not open to students who have had 291.

200 SCIENCE OF THE SEA (3) I
   Hiatt

240 INTRODUCTION TO ECOLOGY (2) I
   Hiatt
   Animals in relation to their biotic and physical environment; animal communities in the sea, on shore, and on land.

245 ZOOGEOGRAPHY (2) I
   Gosline
   Animal distributions; physiographic, climatic, and historic factors. Desirable preparation: Zoology 240; Geology 151. (Alt. yrs.; offered 1958-59.)

253 PARASITOLOGY (3) II (2 L, 2 Lb)
   Chu
   Parasitology with reference to man and domestic animals; classification, comparative morphology, life history, control. Lab fee $5.00.

254 INSECT MORPHOLOGY (3) I (2 L-Lb)
   Tamashiro
   Comparative and gross morphology; homologies of structures; anatomy; development in representative groups. Pre: Zoology 170. Lab fee $1.00.

255 SYSTEMATIC ENTOMOLOGY (3) II (2 L-Lb)
   Tuthill
   Classification of insects; orders and families. Use of taxonomic tools. Pre: Zoology 254. Lab fee $2.00.

256 MEDICAL AND VETERINARY ENTOMOLOGY (3) I (2 L, 2 Lb)
   Hardy
   Insects and other arthropods in relation to spread and causation of human and animal diseases. Pre: Zoology 170. Lab fee $6.00. (Alt. yrs.; not offered 1958-59.)
257 SCALE INSECTS (3) I (2 L-Lb) HARDY

260 HISTOLOGY (3) II (2 L, 2 Lb) van WEEL
Studies of tissues, principles of histology, and microscopic anatomy of a limited number of vertebrate animals. Pre: Zoology 151. Lab fee $6.00.

261 VERTEBRATE EMBRYOLOGY (3) I (2 L, 2 Lb) HSIAO
Principles of embryology illustrated by a detailed study of the development of the frog, chick, and pig. Pre: Zoology 151. Lab fee $8.00.

262 MICROTECHNIQUE (3) I, II (2 L-Lb) MATTHEWS
Fixing, staining, and mounting of tissues and entire animals and organs. Lab fee $15.00.

273 ECONOMIC ENTOMOLOGY (3) II (2 L, 2 Lb) SHERMAN
Insect pests; chemical, biological, and cultural control. Laboratory exercises on Hawaiian insects of economic importance. Pre: Zoology 170. Lab fee $5.00.

275 GENERAL Ichthyology (3-3) Yr. GOSLINE

276 BIOMETRY (3) I (2 L-Lb) TESTER
Elementary statistical methods; application to biological data. Pre: Mathematics 151. Desirable: Mathematics 152.

277 BIOMETRICAL ANALYSIS (3) II (2 L-Lb) TESTER

280 COMPARATIVE ANATOMY OF INVERTEBRATES (3) I (2 L, 2 Lb) BANNER
Comparative anatomy, development, and phylogeny of the invertebrate animals. Lab fee $6.00.

281 TAXONOMY OF MARINE INVERTEBRATES (3) II (2 L, 2 Lb) TOWNSLEY

282 MARINE ECOLOGY (3) II (2 L, 2 Lb) TOWNSLEY

284 COMPARATIVE INVERTEBRATE PHYSIOLOGY (2) II (2 L-Lb) van WEEL
Life processes with emphasis on marine invertebrates. Pre: Zoology 291; Physics 102. Lab fee $8.00.

285 ANIMAL EVOLUTION (2) II GOSLINE
Processes of evolution; interaction between population genetics and natural selection in animals. Desirable preparation: Genetics 254.

286 HISTORY OF ZOOLOGY (2) I BANNER
Development of zoological science as a specialized field of human knowledge.

287 METHODS OF FISHERY INVESTIGATION (3) II TESTER

290 OCEANOGRAPHY (3) II (2 L, 2 Lb) BANNER
### ZOOLOGY AND ENTOMOLOGY

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<thead>
<tr>
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<th>Course Title</th>
<th>Instructor(s)</th>
<th>Notes</th>
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<tbody>
<tr>
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<td>GENERAL PHYSIOLOGY (3 I) (2 L, 2 Lb)</td>
<td>van WEEL</td>
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<td></td>
<td>Properties of protoplasm; functions of organ systems; fundamental principles. Pre: Chemistry 149. Desirable: Chemistry 230; Physics 102. Lab fee $10.00.</td>
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<td>298</td>
<td>GENERAL ZOOLOGY SEMINAR (1) II</td>
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<td>Reports on research, or reviews of literature. Pre: senior standing. Required of students majoring in zoology or entomology.</td>
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<td>299</td>
<td>DIRECTED READING OR RESEARCH (Ar.) I, II</td>
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<td>Limited to senior majors with 2.7 grade-point ratio, or 3.0 grade-point ratio in zoology.</td>
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<td>300</td>
<td>DIRECTED RESEARCH (Ar.) I, II</td>
<td>STAFF</td>
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<tr>
<td></td>
<td>Directed research in the various fields of zoology.</td>
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<td>311</td>
<td>ENTOMOLOGY SEMINAR (1) I</td>
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<td></td>
<td>Current entomological literature. Reviews and reports. Required of entomology majors.</td>
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<td>312</td>
<td>SEMINAR IN MARINE ZOOLOGY (1) I</td>
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<td>Reports on research or reviews of literature. Graduate students in marine zoology are required to take this course, 313, or 314.</td>
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<td>313</td>
<td>SEMINAR IN FISHERIES BIOLOGY (1) II</td>
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<td></td>
<td>Investigations and literature pertaining to fisheries biology; stress on problems relating to pelagic fisheries of the Pacific.</td>
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<td>314</td>
<td>SEMINAR IN ADVANCED MARINE AND FISHERIES BIOLOGY (1) II</td>
<td>STAFF</td>
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<td></td>
<td>Literature of pelagic fishery problems; relation to oceanography and ecology. Open only to advanced students in marine and Fisheries Biology.</td>
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<td>315</td>
<td>ZOOLOGICAL LITERATURE (1) I</td>
<td>HIATT</td>
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<td>Survey of zoological literature with stress upon bibliographic tools. Required for advanced degrees in zoology or entomology.</td>
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<td>316</td>
<td>PREPARATION OF SCIENTIFIC MANUSCRIPTS (1) II</td>
<td>TUTHILL</td>
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<td>Styles and methods of preparation for publication; proofreading and editing. Required for advanced degrees in zoology or entomology.</td>
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<td>350</td>
<td>ADVANCED SYSTEMATIC ENTOMOLOGY (3) II (2 L-Lb)</td>
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<td></td>
<td>Classification of special groups. Nomenclatorial problems; international code. Pre: Zoology 255. Lab fee $1.00. (Alt. yrs.; not offered 1958–59.)</td>
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<td>352</td>
<td>INSECT ECOLOGY (3) I (2 L, 1 Lb)</td>
<td>BESS</td>
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<td></td>
<td>Insects as living units in an environment of physical and biotic factors. Pre: Zoology 255. (Alt. yrs.; not offered 1958–59.)</td>
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<td>353</td>
<td>BIOLOGICAL CONTROL OF PESTS (3) I (2 L, 1 Lb)</td>
<td>BESS</td>
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<td>354</td>
<td>INSECT TOXICOLOGY (4) II (2 L, 2 Lb)</td>
<td>SHERMAN</td>
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<td></td>
<td>Principles of chemical control. Relationship of toxicology and physiology to the use of insecticides. Pre: Zoology 273; Chemistry 149. (Alt. yrs.; not offered 1958–59.)</td>
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<td>355</td>
<td>INSECT-TRANSMITTED DISEASES OF PLANTS (3) II</td>
<td>CARTER</td>
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<td></td>
<td>Problems of insect transmission of plant diseases.</td>
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<td>370</td>
<td>PRINCIPLES OF SYSTEMATIC ZOOLOGY (3) I</td>
<td>GOSLINE</td>
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<tr>
<td></td>
<td>Taxonomic categories; processes of evolution in their development; taxonomic data; rules of nomenclature. (Alt. yrs.; not offered 1958–59.)</td>
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387 POPULATION DYNAMICS (3) I
   Laws of changes in fish populations; fisheries management; methods of estimating vital

388 FISHERIES MANAGEMENT (3) I
   Problems, methods, and results. Prediction of factors affecting sustained yield. Pre:
   Zoology 287. (Alt. yrs.; offered 1958–59.)

391 ADVANCED GENERAL PHYSIOLOGY (3) II (2 L-Lb)
   van WEEL
   Lab fee $8.00. (Alt. yrs.; offered 1958–59.)

392 PHYSIOLOGICAL ECOLOGY (3) II (2 L-Lb)
   van WEEL
   Physiological adaptations to environmental, physical, and biotic features. Pre: Zoology
### SUMMARY OF ENROLLMENT FOR 1957-58

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<td>Five-year diploma candidates</td>
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<td>Unclassified (not candidates for degrees)</td>
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<td>Professional Teaching Certificate (not candidates for degrees)</td>
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<td>Juniors</td>
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<td>Sophomores</td>
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<td>Seniors</td>
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<td>Juniors</td>
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<td>Sophomores</td>
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<td>707</td>
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<td><strong>Total Degree and Diploma Candidates</strong></td>
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<td>Undergraduates in day credit courses</td>
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<td>Auditors in day credit courses</td>
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<td>Students in evening credit courses</td>
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<td><strong>Hilo Branch</strong></td>
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<td>Auditors in day credit courses</td>
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<tr>
<td>Students in evening credit courses</td>
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<td><strong>Grand Total in Credit Courses</strong></td>
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