UNIVERSITY OF HAWAII

General Catalogue for
1941-42

Published by the University
Honolulu, Hawaii, U. S. A.
1941
UNIVERSITY OF HAWAII BULLETIN

VOLUME 20 NUMBER 6 APRIL 1941

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The annual record of degrees, diplomas, and certificates conferred, formerly a part of the General Catalogue, appeared in the annual report (November) issue of this volume of the Bulletin, and it will appear there in future volumes.

THIS ISSUE PRINTED FOR THE UNIVERSITY BY THE HONOLULU STAR-BULLETIN, LTD., HONOLULU, HAWAII, U. S. A.
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UNIVERSITY CALENDAR
1941 AND 1942

1941

June 17, Tuesday
June 30, Monday
July 1, Tuesday
July 4, Friday
Aug. 8, Friday
Aug. 30, Saturday
Sept. 15, Monday
Sept. 16, Tuesday
Sept. 17, Wednesday through
Sept. 20, Saturday
Sept. 17, Wednesday
Sept. 18, Thursday
Sept. 19, Friday
Sept. 20, Saturday
Sept. 22, Monday
Nov. 11, Tuesday
Nov. 20, Thursday through
Nov. 22, Saturday
Dec. 20, Saturday

Thirtieth annual Commencement
Registration for summer session
Instruction begins
Independence day (holiday)
Summer session closes
Last day for receiving applications for admission
Freshman Orientation Period
Registration of graduate students for thirty-fourth annual session, Wednesday and Thursday 8 a.m. to 4 p.m.; Friday 8 a.m. to 5 p.m.; Saturday 8 a.m. to 2 p.m.
Registration of sophomores, juniors, and seniors, 8 a.m. to 4 p.m.
Registration of freshmen, 8 a.m. to 4 p.m.
Registration of all other students, Friday 8 a.m. to 5 p.m.; Saturday 8 a.m. to 2 p.m.
Instruction begins
Victory day (holiday)
Thanksgiving recess
Last day of classes before Christmas recess
<table>
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<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>Jan. 5, Monday</td>
<td>Classes resume</td>
</tr>
<tr>
<td>Jan. 27, Tuesday</td>
<td>Last day of formal class instruction, first semester</td>
</tr>
<tr>
<td>Jan. 30, Friday</td>
<td>Final examinations, first semester</td>
</tr>
<tr>
<td>Feb. 7, Saturday</td>
<td>Registration of regular students for second semester</td>
</tr>
<tr>
<td>Feb. 12, Thursday</td>
<td></td>
</tr>
<tr>
<td>Feb. 13, Friday</td>
<td>Registration of all other students for second semester</td>
</tr>
<tr>
<td>Feb. 14, Saturday</td>
<td>Instruction begins</td>
</tr>
<tr>
<td>Feb. 14, Saturday</td>
<td>Last day to apply for graduate degrees to be received in June</td>
</tr>
<tr>
<td>Feb. 23, Monday</td>
<td>Legal holiday following Washington's birthday</td>
</tr>
<tr>
<td>Apr. 3, Friday</td>
<td>Easter recess</td>
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<tr>
<td>Apr. 4, Saturday</td>
<td>Last day to arrange dates of final examinations for graduate degrees</td>
</tr>
<tr>
<td>May 1, Friday</td>
<td>Twentieth annual contest for Berndt prizes</td>
</tr>
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<td>May 21, Thursday</td>
<td>Memorial day (holiday)</td>
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<td>May 30, Saturday</td>
<td>Last day of formal class instruction, second semester</td>
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<td>June 4, Thursday</td>
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<td>June 13, Saturday</td>
<td>Kamehameha day (holiday)</td>
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<tr>
<td>June 11, Thursday</td>
<td>Last day for depositing graduate dissertations in University Library</td>
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<td>June 16, Tuesday</td>
<td>Thirty-first annual Commencement</td>
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<tr>
<td>June 29, Monday</td>
<td>Registration for summer session</td>
</tr>
<tr>
<td>June 30, Tuesday</td>
<td>Instruction begins</td>
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<tr>
<td>July 4, Saturday</td>
<td>Independence day (holiday)</td>
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<tr>
<td>Aug. 7, Friday</td>
<td>Summer session closes</td>
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<tr>
<td>Aug. 29, Saturday</td>
<td>Last day for receiving applications for admission</td>
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<tr>
<td>Sept. 14, Monday</td>
<td>Freshman Orientation Period</td>
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<tr>
<td>Sept. 15, Tuesday</td>
<td>Registration for thirty-fifth annual session</td>
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<tr>
<td>Sept. 16, Wednesday</td>
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<tr>
<td>Sept. 19, Saturday</td>
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THE REGENTS OF THE UNIVERSITY

HERBERT E. GREGORY (1937), Chairman
Bishop Museum
HONOLULU

DAVID L. CRAWFORD (1927), Secretary
University of Hawaii
HONOLULU

CARL A. FARDEN (1933)
Pineapple Producers Cooperative Association Experiment Station
HONOLULU

MARY DILLINGHAM FREAR (1920)
1434 Punahou Street
HONOLULU

HERBERT K. KEPPELER (1938)
Bishop Estate
HONOLULU

OREN E. LONG (1935)
Department of Public Instruction
HONOLULU

ALVA E. STEADMAN* (1940)
Cooke Trust Company, Ltd.
HONOLULU

In parentheses after each name is the year in which the member was appointed.
*Mr. Steadman resigned April 30, 1941, and Mr. S. N. Castle succeeded him.
ADMINISTRATIVE OFFICERS

General

President of the University.................................DAVID L. CRAWFORD, LL.D.
Vice-President.................................................ARTHUR R. KELLER, M.S.
Treasurer..........................................................GERALD R. KINNEAR, M.B.A.
Director of Admissions........................................BRUCE WHITE, Ph.D.
Director of Public Relations...............................CHARLES F. LOOMIS, B.A.
Registrar..........................................................HELEN B. MACNEIL, M.A.
Librarian..........................................................MARY P. PRINGLE
Dean of Student Personnel..................................ERNEST C. WEBSTER, C.E.
Assistant Dean of Student Personnel........................CENIE S. HORNUNG, B.A.

Divisional

Dean of the College of Arts and Sciences..................THAYNE M. LIVESAY, Ph.D.
Dean of the College of Applied Science....................ARTHUR R. KELLER, M.S.
Dean of the Teachers College................................BENJAMIN O. WIST, Ph.D.
Director of the Graduate Division...........................PAUL S. BACHMAN, Ph.D.
Director of the Summer Session..............................PAUL S. BACHMAN, Ph.D.
Director of the Adult Education Division...................R. RAY SCOTT, Ph.D.
Director of the Psychological and Psychopathic Clinic..STANLEY D. PORTEUS, D.Sc.
Director of the Agricultural Extension Service............HOWRY H. WARNER, B.S.
Director of the Hawaii Agricultural Experiment Station.JOHN H. BEAUMONT, Ph.D.
THE UNIVERSITY OF HAWAII

General Statement

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

Established by act of the legislature of the Territory of Hawaii in 1907, the University bears the same relation to the territory as do the state universities to their states. Support of the University comes from appropriations of the territorial legislature, the United States government, and miscellaneous funds that include gifts and student fees.

Although the University of Hawaii never received a grant of land such as that provided for the similar colleges of the states by the original Morrill Act of 1862, it is a federal land-grant college and has benefits from the Second Morrill Act of 1890, the Nelson Amendment of 1907, and subsequent legislation.

Open to All

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

Fully Accredited

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

Control of the University

Government of the University resides in a board of regents appointed by the governor for terms of five years. The charter and by-laws of the board of regents are published in a pamphlet available upon request.

Divisions of Academic Year

The University divides its academic year into two semesters of 18 weeks each and a summer session of six weeks. The semester beginning in the autumn is known as the first semester, and that beginning in the winter is known as the second semester.

University Colors

The University of Hawaii colors are green and white.

Communications to the University

Letters of general inquiry from prospective students should be addressed to the registrar.

The registered cable address of the University is COLWAI, Honolulu.

Before receiving its present name, the institution had been the College of Agriculture and Mechanic Arts from 1907 to 1911 and the College of Hawaii from
1911 to 1920. Instruction began in 1908 with two instructors and five students in a
temporary location on the grounds now occupied by the Lincoln School in Hono­
lulu. After a few years the institution was moved to its present site. When the
College of Arts and Sciences was added in 1920, the name was changed to the
University of Hawaii.

Eleven years later, in 1931, the territorial legislature united the Territorial
Normal and Training School with the University School of Education to form the
Teachers College of the University, and the property of the School was placed
under the control of the board of regents of the University.

The University of Today

Today the University's instructional organization consists of the College of
Applied Science, the College of Arts and Sciences, the Teachers College, and the
Graduate Division. The University Adult Education Division conducts both credit
and noncredit courses in communities of the territory other than Honolulu and
noncredit courses on the University campus. The Oriental Institute assists the
University in planning and maintaining its course offerings in the field of Oriental
studies, as well as conducting its own program of research and other work in that
field.

Related Services

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

The Psychological and Psychopathic Clinic is a territorial institution under the
management of the University. It examines persons at the request of the courts,
industrial schools, the board of health, the department of public instruction, and
other public institutions and organizations. Under proper regulation, it also ex­
amines individuals at the request of private organizations, parents, or guardians.
In addition, the clinic conducts investigations in the field of psychology.

The Cooperative Extension Service in Agriculture and Home Economics, con­
ducted jointly by the University and the United States Department of Agriculture,
receives federal aid on the same basis as do the extension services of the states.
It is devoted to the advancement of agriculture in Hawaii and the improvement of
rural home life.

The Hawaii Agricultural Experiment Station is an amalgamation of the former
Federal Experiment Station with the University station, and is under the direction
of the University. This station coordinates its research with that of the Hawaiian
Sugar Planters' Association and that of the Pineapple Producers Cooperative
Association.

The Aquarium, at Waikiki Beach, is operated by the University as a place of
education and entertainment for the benefit of the resident public and of visitors.

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

Seismological Observatory. The United States Coast and Geodetic Survey
operates a seismological observatory in Gartley Hall under agreement with the
University whereby the results and observations are made of service to the territory.

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

Cooperating Institutions

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

Bernice P. Bishop Museum. The University and the Bishop Museum reciprocate in the use of libraries, laboratories, collections, and other facilities of research. Graduate students registered in the University are allowed to carry on investigations under the guidance of members of the Museum staff for credit toward advanced degrees from the University. Advanced students may use the Museum facilities when working under proper direction, subject to such regulations as may be deemed expedient by the director of the Museum.

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

Honolulu Academy of Arts. This institution, built and endowed by Mrs. C. M. Cooke, has made its fine collections of art objects available to the students and instructors of the University for their educational advancement.

The Hawaiian Sugar Planters' Association maintains an experiment station whose facilities are available to the University for instructional purposes. Students in sugar technology spend a semester at this station as a part of their program of study. Several members of the station staff take part in the instructional work of the University.

Fruit Fly Laboratory. The United States Bureau of Entomology maintains on the University campus a research laboratory and a corps of investigators for the study of fruit fly pests in Hawaii.

Queen's Hospital. The Queen's Hospital in Honolulu and the University cooperate in conducting a training course for nurses. Some of the courses of instruction are offered at the University and some at the Hospital.

Campus and Buildings

The principal buildings on the campus are Hawaii Hall, Gartley Hall, Dean Hall, the Library, the Social Sciences building, Teachers College and its training school. Farrington Hall, the Engineering Quadrangle, the Agriculture and the Home Economics buildings, the Gymnasium, and Hemenway Hall (the student union, commonly referred to as Hemenway Union). All of these except the Gymnasium and the training school are built of reinforced concrete. Under construction is a new building to be known as Castle Memorial Hall and to be used for the education of kindergarten teachers.

Hawaii Hall is the administration building. The biological science departments are housed in Dean Hall, and the chemistry and physics departments are in Gartley Hall. Farrington Hall, which is an auditorium with a backstage extension, is well equipped for work in dramatics. The engineering laboratories and classrooms are in the four concrete buildings composing the Engineering Quadrangle. An outdoor
GENERAL STATEMENT

Theater, whose backdrop is a tropical garden and the Koolau mountain range, is the setting for Commencement and other University programs.

The Library, which contains 130,000 bound volumes and about 325,000 pamphlets, is a depository for government publications. Extensive collections of Chinese and Japanese works and a growing collection of valuable books and periodicals about Hawaii are among its features. Its collections of local and mainland newspapers, and literary, technical, and scientific periodicals are available throughout the day and evening. All persons complying with the regulations may draw books.

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

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

Other buildings connected with the University include the R.O.T.C. building, Hawaii Hall Annex, which houses the Psychological Clinic and the offices of the English department, the Nutrition Laboratory, the Entomology building, the Marine Biological Laboratory at Waikiki Beach, and the Astronomical Observatory in Kaimuki. A part of the campus is occupied by an experimental farm, which is devoted to solving problems of Hawaii's dairymen, poultrymen, and livestock raisers and which provides instructional facilities for students of agriculture.

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

Classification of Students in the University

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

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

Regular students are those who are pursuing programs of study that comply with the established regulations and lead, usually after four years of study, to the bachelor's degree. Regular students usually carry full-time programs (10 semester hours or more). Freshmen and sophomores are lower division students, juniors and seniors upper division students.

Unclassified students are those who, although registered for credit, are not enrolled as candidates for degrees. They usually carry only part-time programs (fewer than 10 semester hours).

Graduate students (graduates of this university or of other institutions of approved standing) fall into three groups: candidates for advanced degrees, candidates for five-year diplomas, and noncandidates.

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

Five-year diploma candidates are persons taking postgraduate work in Teachers College.
Most of the other graduate students, candidates neither for degrees nor diplomas, are teachers seeking professional improvement by taking graduate courses.

Noncredit students include:

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

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

**Admission to the University**

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

Persons who desire to become regular, unclassified, or special students and who have not previously earned credits in an institution of higher learning must apply to the director of admissions. A high school senior who plans to enter the University within a year should file his application during the final semester of his high school course. In any case, 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 of admissions.

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

**Admission of Regular Students Entering a University for the First Time**

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

College aptitude and English tests are given by the University in many high schools of the territory each spring. Students seeking admission in the autumn who have not had such examinations take them during the Freshman Orientation Period (see *University Calendar*). Other examinations given during the Freshman Orientation Period include the modern language placement test for students intending to enter advanced courses in Hawaiian, Chinese, Japanese, French, German, or Spanish, the mathematics placement test for students intending to register for courses in mathematics, and a history test for students desiring to be excused from History 100.

Every applicant for admission as a regular student who has not previously earned credits in an institution of higher learning must take college aptitude and English examinations and 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.
Acceptable distributions of the units required from entering students follow:

**MINIMUM UNIT REQUIREMENTS FOR ADMISSION**

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<tr>
<th>FROM A 4-YEAR HIGH SCHOOL</th>
<th>SUBJECT</th>
<th>FROM A 3-YEAR HIGH SCHOOL</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>ENGLISH</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ALGEBRA</td>
<td>1 (not required if the student had ninth-grade general mathematics in intermediate [junior high] school)</td>
</tr>
<tr>
<td>6</td>
<td>ENGLISH (in addition to the 3-unit minimum requirement in English)</td>
<td>4 (if applicant offers ninth-grade mathematics, this requirement is 5 units)</td>
</tr>
<tr>
<td></td>
<td>SCIENCES—physical, biological, and social</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATHEMATICS (in addition to the 1-unit minimum requirement in mathematics)</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>FOREIGN LANGUAGES (entrance credit in foreign language is not granted unless the total number of foreign language units offered includes at least 2 units in some one language)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Any other subjects credited by the high school toward its diploma (no less than ½ nor more than 2 units in any one subject) provided that these subjects have been pursued in accordance with regular classroom procedure involving a reasonable amount of preparation in addition to the time spent in class</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>TOTAL</td>
<td>12</td>
</tr>
</tbody>
</table>

_Admisison by Examination._ Candidates who cannot or do not care to satisfy the foregoing admission requirements may take examinations offered by the College Entrance Examination Board (431 West 117th street, New York City) and submit statements from the Board covering certain subjects, or take the comprehensive examinations offered by the Board and submit a certificate covering these examinations along with a complete record of work done in preparatory school.

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

**Special Requirements for Certain Programs**

In addition to satisfying the requirements of the University as a whole, candidates for admission to some programs of university work must meet special requirements. Each applicant should study the requirements of the college he intends to enter and of the program he intends to pursue in that college. Special attention is directed to the following requirements:

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

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

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

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

Admission to Advanced Standing

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

Admission of Unclassified Students

Mature persons, ordinarily only such as are at least 21 years of age, who present satisfactory evidence of their ability to do college work, may register as unclassified students and take a limited program. Persons less than 21 years of age may be admitted as unclassified students if they are able to meet fully the entrance requirements for regular freshman standing but desire to carry only a few courses.

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

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

Admission of Special Students

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

Admission of Auditors

Persons desiring the privilege of attending classes as auditors obtain the consent in writing of the director of admissions and present it to the registrar at the time of registration.

Admission of Graduate Students

Graduates of accredited colleges and universities who wish to pursue graduate study in the University of Hawaii should apply to the director of the Graduate Division. Their applications should be accompanied by an official transcript of undergraduate record and of any graduate work completed at another institution.
Admission to the Graduate Division is provisional until such records are on file. These transcripts become a permanent part of the University files.

Registration, Withdrawal, and Other Changes

Dates upon which students register for courses in the University are stated in the University Calendar. Students entering in the autumn receive a circular telling them how to proceed in registering. Courses offered in the University are described in this catalogue under Courses of Instruction, and a schedule stating time and place of meeting of each course is issued by the registrar in mid-September for the first semester and in mid-January for the second semester.

Registration of Undergraduate Students

Undergraduates are required to have made, by the time they register, a choice from among the three colleges of the University, and to have made a selection from among the programs offered in the college chosen. Each undergraduate is assigned at registration time to a faculty member who acts as his adviser in selecting courses.

Registration of Graduate Students

Graduate students other than those eligible to work for the Teachers College five-year diploma register with the director of the Graduate Division.

Credit Must be Arranged in Advance

The number of credits obtainable in most courses is announced in the catalogue and in the time schedule. However, certain courses in which students carry on individual work are marked credit by arrangement, or the number of their credits is listed as var (variable). Such statements do not signify that the credits are to be determined at the end of the semester. The student registers for a definite number of credits and may earn no more nor less than that number.

Late Registration

The University permits registration after the announced registration days in any semester only in exceptional cases and for valid reasons. The following rules govern such registration:

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

Registration in the University (other than registration of auditors) is permitted later than six calendar days following the first day of class work in any semester only if the student obtains the consent of the dean of the college in which he desires to register and of the dean of student personnel. Such consent is given only for good and sufficient reasons.

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

Withdrawal from Courses or from the University

Withdrawal is the voluntary severance by a student of his connection with a course or with the University. In order to be officially recognized, the withdrawal of an undergraduate from a course must have the written consent of the dean in whose college the student has registered. This consent must be on a form procured by the student from the dean and returned to the registrar bearing the dean's signature. Withdrawals from the University must be applied for on a form to be obtained
Credits, Grades, Grade Points, Honors

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

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

Grades given in undergraduate courses are A, B, C, D, E, F, and I. The lowest passing grade is D. A grade of E is a conditional failure and a grade of I is an incomplete. Such grades can be removed from the record; to bring about their removal students are expected to take the initiative by conferring with instructors. An E may be removed by passing a special examination or performing special work prescribed by the instructor, provided this is done in the semester following that for which the condition was given. However, no grade points (defined herein) are given on a course in which a condition was recorded. An I is given to a student who has failed to complete a small but important part of a semester's work before the semester grades are determined if the instructor believes that failure was caused by conditions beyond the student's control and not by carelessness or procrastination. To receive credit for a course for which an I has been reported, the student must make up the incomplete work before the Thanksgiving or Easter of the semester following that for which the grade was given. If the work is not thus completed, the I will stand and the student will not receive either credits or grade points in that course. If the work is completed, the instructor will report a semester grade, taking the completed work into consideration. Credits and grade points will then be computed as if a grade of I had not previously been recorded. Credit in a course for which an F is given may be obtained only by repeating the course and passing it.

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

Grade points are computed for all courses in which grades are reported, including military science and physical education. They are computed as follows: for each credit received in a course 4 grade points are granted if the grade is A, 3 if the grade is B, 2 if the grade is C, and 1 if the grade is D.
GENERAL STATEMENT

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

Honors may be granted at graduation to undergraduates who have a grade-point average of 3.4 for their undergraduate work.

Transfers to Other Institutions

Students should bear in mind that accredited American institutions of higher learning, including the University of Hawaii, give transfer students credit toward graduation only in subjects in which the grade received was C or better. (See Tuition and Fees for further note on transfer.)

Requirements for Advancement Toward Graduation

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

Further registration is denied to the following students:

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

(2) those who have failed to earn, after two semesters' attendance, 1.5 times as many grade points as the total of their registered credits;

(3) those who have failed to earn, after four semesters' attendance, 1.8 times as many grade points as the total of their registered credits.

At the discretion of the faculty committee on scholastic standing, students who fail to pass in any semester 75 per cent of their registered credits or to maintain a record showing twice as many grade points as total registered credits may be warned, placed on the grade-point rule, or denied further registration. The grade-point rule is a requirement that a student earn over a stated period of time twice as many grade points as credits for which he is registered. Failure to comply with the grade-point rule may result in refusal to permit further registration.

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

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

Unless satisfactory arrangements have been made with the instructor in advance of the time of a final examination, absence from an examination subjects the student to a grade of zero in the examination, and this grade is taken into consideration in computing the semester grade of the student. When a term paper takes the place of a final examination, it must be submitted at the time stipulated by the instructor; otherwise this grade is regarded as zero and so considered in computing the semester grade.

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

Permission to enter the junior year as a candidate for a bachelor's degree is dependent not only upon academic standing but also upon proficiency in oral and written English.
Regular attendance at class and laboratory sessions is expected. Unavoidable absence should be explained to the instructors concerned.

Independent Study

Superior students may study independently under faculty supervision. The type of each student's study is, in general, left to the department to arrange with the instructor or instructors and with the student. Further information may be obtained from deans of the colleges and from members of the faculty committee on independent study.

Military Training

In accordance with the requirements placed by the United States Congress on all land-grant colleges, this University offers instruction in military science and tactics. The basic (freshman and sophomore) courses in military science must be taken by every physically fit male student who is an American citizen, who is at least 14 years old, whose 26th birthday has not passed at the time of enrollment in the University, who (1) is (or was at the time of entering the University) a freshman or a sophomore, or (2) is an unclassified student carrying more than 9 credit hours of work and having fewer than 64 college credits. Military training in the junior and senior years is optional for selected students who have completed the basic courses, provided the number of such students does not exceed the quota authorized by the War Department.

Health, Physical Education, and Sports

The University expects every student to give reasonable attention to safeguarding his health and physical well-being. At the same time, it offers the student certain aids toward that end.

Before entering the University, every new student must have a medical and physical examination by a reputable physician. The prospective student makes his own arrangements for it and pays the physician. The University provides forms for the physician to use in reporting the examination. If subsequent examinations are needed, the University makes them in its infirmary, without cost to the student.

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

The University also offers instruction in health and hygiene and conducts a program of recreation and sports designed to conserve and build up the health of the student. Freshman and sophomore men and women under 25 years of age who are registered for 10 or more semester hours of academic work must take at least one credit hour of health and physical education courses each semester (see Health and Physical Education in Courses of Instruction). All students are required to take Health and Physical Education 105, Personal Hygiene.

A student taking a required course in physical education and participating in a varsity sport may be excused from physical education class attendance during the season of that sport.

Intramural sports are planned with a view to serving the Health and Physical Education department and to supplement the courses offered there.

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

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

### Baccalaureate Degrees

**Credit and Grade-point Requirements**

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

A minimum of 264 grade points is required for graduation from any of the three colleges. To receive a degree after failure to graduate because of lack of grade points, a student must earn a minimum of 30 grade points in some one semester, or a minimum of 14 grade points in a summer session in courses approved by the dean of the college in which the student is registered.

**Kinds of Baccalaureate Degrees**

Upon satisfactory completion of a regular program in the College of Applied Science, a candidate is granted the degree of bachelor of science (B.S.), the diploma designating the program that has been pursued.

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

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

**Residence Requirements**

The University grants baccalaureate degrees only to those students who earn a minimum of 30 semester hours in residence (that is, in class or laboratory work on the University of Hawaii campus) and who in addition do one of the following:

1. take a minimum of 14 credit hours a semester in the University during the two semesters just preceding the granting of the degree;
2. earn a minimum total of 24 residence credits during any four of five consecutive summer sessions just preceding the granting of the degree; or
3. earn a minimum total of 24 residence credits by carrying not less than 2 credit hours per semester and 6 credit hours per summer in any three of four consecutive years just preceding the granting of the degree.

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

**Time Within Which Work Must Be Completed**

All graduation requirements must be completed within ten years of the beginning of work in the University of Hawaii, except that students who were registered in the University prior to 1932 or who were previously registered in the Territorial Normal School were given the following privileges:

(a) Any such student who by June, 1932 had completed three full years (96 credits) or more will be allowed five years from September, 1932.

(b) All others will be allowed ten years from the same date.
An amendment allows one additional year (that is, to September, 1943) to the
students referred to in (b).

Requirements of Medical Schools

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

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

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

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

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

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

<table>
<thead>
<tr>
<th>Subject</th>
<th>Semester Hours</th>
<th>University of Hawaii Equivalent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry</td>
<td>20</td>
<td>Chemistry 101 or 102, 150, 151 or 230, 149</td>
</tr>
<tr>
<td>Physics</td>
<td>8</td>
<td>Physics 102</td>
</tr>
<tr>
<td>Biology</td>
<td>8</td>
<td>Zoology 100, 151</td>
</tr>
<tr>
<td>English composition</td>
<td>6</td>
<td>English 100 or 102</td>
</tr>
<tr>
<td>Other nonscience subjects</td>
<td></td>
<td>History, language, economics 12</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Subject</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>A modern foreign language</td>
<td>6 to 12</td>
</tr>
<tr>
<td>Advanced zoology or advanced botany</td>
<td>6 or more</td>
</tr>
<tr>
<td>Psychology</td>
<td>6 or more</td>
</tr>
<tr>
<td>Advanced mathematics, including trigonometry</td>
<td>3 to 6</td>
</tr>
</tbody>
</table>

or may be in the following suggested electives: English (in addition to other credits
in English), economics, history, sociology, political science, logic, mathematics,
drawing, Latin, Greek.

Summer Session

The University offers a six-weeks' summer session. Its courses are designed to
meet the needs of several groups of students: undergraduates who wish to take
work not offered in winter and spring sessions; graduate students who are candi-
dates for advanced degrees; teachers or school administrators who need advanced
training or who are candidates for degrees; and persons who wish to take advan-

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tage of the special opportunities offered by the University to study Polynesian culture and Oriental cultures and philosophies.

Summer session credits have a value equal to that of credits earned in the winter and spring sessions. The tuition fee is $5 per credit hour.

A summer session announcement, issued each January, may be obtained by addressing the director of the summer session.

The Adult Education Division

The Adult Education Division makes some of the University of Hawaii's educational facilities available beyond the campus, offers noncredit courses on the campus in the late afternoon and evening, and schedules visiting lecturers and resident faculty members for public appearances on the campus. It offers credit and noncredit extension courses at times and places convenient for the persons thus served, offers a limited number of correspondence courses, and occasionally broadcasts courses by radio. It arranges for faculty members to address organizations in Honolulu and outlying communities. It rents educational films from a library of more than 300 reels and lends without charge plays and operettas from a collection of more than 950.

Admission to extension courses offering credit is governed by the rules that apply to admission to resident courses. Credits gained in University of Hawaii extension courses may be applied toward the bachelor degree, but not more than 25 per cent of the total credits required to be earned in the University for the degree may be extension credits, and such credits are not counted as fulfilling the residence requirement.

Noncredit courses are open to all adults who wish to enroll. Announcements of extension courses and other forms of service are issued from time to time.

Tuition and Fees

Students registered for 10 or more credit hours in any semester pay $50 for tuition and $10 for registration per semester. Students registered for fewer than 10 credit hours in any semester and all students in summer sessions pay $5 per credit hour.

Persons who register after the announced days of registration pay a late registration fee of $1.

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

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

Students who take the college aptitude test pay a $1 fee at the time of examination.

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

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

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

A fee for diplomas and certificates must be paid to the business office before any such diploma or certificate can be received by a student. For the five-year diploma
EXPENSES—STUDENT LIFE

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

A graduate student receiving an advanced degree must pay, before the degree is awarded, a fee of $4 to cover the cost of binding two copies of his thesis.

Caps, gowns, and hoods for use in graduation ceremonies may be rented from the student personnel office or purchased through the bookstore.

A student who requests the registrar to send to another institution a record of his work here is not required to pay for the first copy, but he is charged $1 for each subsequent copy.

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

At the request of the Associated Students of the University of Hawaii (A.S.U.H.) and with the consent of the board of regents, the University business office collects certain student fees at the time tuition and registration fees are collected. These student fees are class dues of $1 a year and the A.S.U.H. annual membership fee of $13 for undergraduates taking 10 or more semester hours. For other students the A.S.U.H. fee is optional. Privileges that these fees purchase are described in the ASUH Handbook, which is available to all students affected.

Living Accommodations and Expenses

Men students can obtain comfortable lodgings at Atherton House, a dormitory adjoining the campus. Room rates there range from $40 to $100 a semester.

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

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

Students who want lodging and board away from the campus may obtain information about such accommodations from the student personnel office.

Minimum expenses of the average student are estimated at from $500 to $600 a year for board, room, tuition, registration, course fees, class and student body fees, and books. Some students find low-cost living accommodations they consider satisfactory that enable them to reduce this figure to around $400. These estimates do not cover clothing, laundry, and other personal expenses.

Many students earn a small part of their expenses. A few very capable students succeed in meeting about 40 per cent of their expenses by doing part-time work.

Student Life

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

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

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

The University of Hawaii Theatre Guild endeavors to present each year one production peculiarly appropriate to the cultures of Hawaii, of mainland America (and western Europe), of Japan, and of China, with casts racially representative of each respective culture.


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

Student extracurricular life centers in Hemenway Union, paid for partly by student, alumni, and faculty contributions, and opened in March, 1939.

For the convenience of students and instructional departments, the University operates a bookstore in Hemenway Union. Student mail is distributed there.

The student personnel office seeks to develop and maintain high standards of conduct among students. The deans of student personnel assist students in working out personal problems, such as those of residence, health, part-time employment, scholastic standing, social life, vocational guidance, and finances. In cooperation with the University treasurer, they arrange for loans to needy students in good standing.

Loan Funds

Through the generosity of various organizations and individuals, certain funds have been provided from which worthy students may borrow—either in small amounts to meet emergencies or in larger sums in order to defer part of their tuition costs until after graduation. Students wishing to make use of these funds should consult one of the deans of student personnel early, as applications for loans to be used to defray registration costs must be filed with the student personnel office at least one week before the first official registration day of any semester.

The loan funds and the donors' preferences, if any, as to who the beneficiaries shall be are as follows:

*Alumni Student Aid Fund.*

*American Bankers Association*—Seniors in economics.

*American Legion Fund*—Preferably descendants of U.S. war veterans.

*Business and Professional Women's Club.*

*Chinese Students' Alliance Loan Fund*—Members of C.S.A.

*Commerce Club*—Preferably members of the Club.


*Emergency Loan Fund* (contributed by the Associated Women Students and others for short-term loans).

*Future Farmers of America, Uniswa Chapter*—Vocational agriculture students.

*George H. Lamy Loan Fund*—Engineering students.


*Hawaiian University Association*—Students of Hawaiian ancestry, preferably juniors and seniors.


*Inez Wheeler Westgate Fund.*

[24]
Japanese Students' Association—Students of Japanese ancestry, preferably members of the Association.

Maui Woman's Club Fund—Students whose parents are Maui residents.

McKinley Scholarship Fund—Students who have attended McKinley High School.

Moir-Ross Health Fund.

N.G.B. Fund.

P.E.O. Sisterhood—Caucasian upperclasswomen.

Representatives Club Fund—Students selected on the basis of need, scholastic standing, and interest in athletics.

Rotary Club Fund—Needy students of junior and senior standing.

Senior Fund—Seniors of any college.

Student Fund of Teachers College—Students enrolled in Teachers College.

Te Chih Sheh Fund—Members of Te Chih Sheh.

Scholarships

A number of persons, organizations, and the territorial legislature have made donations or grants that enable the University to offer financial assistance to students in the form of scholarships. All scholarship awards are made in the president's office, after careful study of applications that are submitted on forms obtainable from the president's secretary. Unless otherwise specified, all scholarships are awarded annually and may be withdrawn from an individual if a good standard of scholastic work is not maintained. Applications for scholarships should be addressed to the president of the University, unless otherwise specified, and should be submitted before May 15 if they are to receive adequate attention.

The names and the characteristics of the scholarship funds follow:

Alonzo Gartley—Two scholarships of $150 each, given in memory of Alonzo Gartley, who was for many years a regent of the University, awarded to men students in sugar technology or agriculture.

Associated Women Students—Two scholarships of $50 each awarded to regular women students above freshman standing.

Chinese Community—A fund of about $3000 given to the University of Hawaii to endow scholarships for juniors and seniors of Chinese ancestry.

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

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

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

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

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

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

Hakuba Kai—Two scholarships of $25 each awarded for the second semester to Japanese men students above freshman standing.
Hawaiian Civic Club of Hilo—A scholarship loan of $150 a year, awarded to male Hawaiian students of Hawaii county who desire to attend or are attending the University.

Hawaiian Girls' Club, Y.W.C.A.—A scholarship of $50 a year awarded to a woman student of Hawaiian ancestry, preferably an upperclassman.

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

Korean Students' Christian Movement—The sum of $200 awarded annually to two needy students of Korean ancestry, above freshman standing, who are interested in the Korean Students' Christian Movement.

Leora Parmelee Dean—The sum of $100 awarded by the Women's Campus Club of the University to a deserving and needy young woman; application for this scholarship should be addressed to the chairman of the scholarship committee of the Campus Club.

Mary Dillingham Frear—A scholarship of $150 awarded to a meritorious student.

Prince Fushimi Memorial Educational Fund—The sum of $300 available annually for the assistance of American citizens of Japanese ancestry of high scholastic and good moral standing who are unable to pay fully their educational expenses.

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

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

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

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

Yang Chung Hui—The sum of $50 awarded to a Chinese woman above freshman standing.

Graduate fellowships and scholarships are described in The Graduate Division.

Prizes and Awards

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

Banks Memorial Prize—The Charles Eugene Banks Memorial Prize, the income from a $500 endowment, is awarded each year to the student whose manuscript is judged to be the best received in a creative writing contest.
Hawaiian Section of the American Chemical Society Prize—A one-year student membership in the American Chemical Society is awarded each year to the most outstanding senior majoring in chemistry. The name of the winner is engraved on a bronze plaque in Gartley Hall.

Phi Beta Kappa Recognition Fund—This is a fund maintained by the Phi Beta Kappa Association of Hawaii for the recognition of high scholastic standing among seniors.

Phi Kappa Phi Prize—The Hawaii chapter of Phi Kappa Phi honor society awards a $20 cash prize to the senior who graduates with the highest scholastic record in his class.

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

Real Deans Awards of Honor—The Associated Students of the University of Hawaii annually awards medals to students who, in the opinion of fellow students, have given time and effort willingly, untiringly, and without thought of reward to the promotion of A.S.U.H. activities.

Berndt Prizes for Extemporaneous Public Speaking—The Associated Students of the University of Hawaii annually awards medals to the students adjudged best in an extemporaneous speaking contest.

University Oratory Prizes—The Associated Students of the University of Hawaii annually awards medals to the students adjudged best in an oratorical competition.

Theatre Guild Diction Awards—The University of Hawaii Theatre Guild annually awards medals to the student actor in each of its productions whose diction is adjudged best.

Warrior of the Pacific Trophy—Since 1928 the United States War Department has supervised an annual rifle marksmanship competition among Reserve Officers' Training Corps infantry units in American universities and colleges for the possession of a bronze statuette of a native Hawaiian soldier. Residents of Hawaii offered the trophy for the competition.
The College of Arts and Sciences has a twofold purpose. Its first aim is to make possible a comprehensive and thorough acquaintance with those fields of thought and achievement, both in the humanities and the sciences, upon which our present civilization has been reared. Its second aim is to prepare for those activities which are professional rather than technical in their nature, such as law, medicine, journalism, commerce, and public and social service. In the main, the subjects offered are those generally recognized as forming the basis of a liberal education. The four-year curriculum leads to the bachelor of arts degree.

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

**Admission and Credit**

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

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

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

**Requirements for Graduation**

To be entitled to a degree from this College a student:

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

**Freshman and Sophomore Requirements.** The required freshman and sophomore work and specific exemptions follow:

<table>
<thead>
<tr>
<th>REQUIRED WORK</th>
<th>EXEMPTIONS FROM REQUIREMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Special Speech Courses</strong> (noncredit), which must be continued until the student's speech is deemed satisfactory.</td>
<td>Entering students who pass oral English tests are exempt from this requirement.</td>
</tr>
<tr>
<td><strong>English 100 or 102</strong> (Composition)</td>
<td>Economics and Business students take English 210-211 in the junior year instead of English 150 or 156 in the sophomore year.</td>
</tr>
</tbody>
</table>
History 100  
(History of Western Civilization)  
Students may obtain exemption from this requirement by making a satisfactory score in a comprehensive history test offered during the Freshman Orientation Period.

Political Science 150  
(American Government)  
Students who have had two years of a language in high school and demonstrate adequate knowledge in a placement test need take only a second-year course in college. Those who fail the test must take two years in college.

Language  
(other than English)—Completion of one of the following second-year courses:  
French 101 Hawaiian 101  
German 101 Portuguese 101  
German 102 Spanish 101  
Oriental Languages 101 (Chinese)  
Oriental Languages 103 (Japanese)  
Science—  
One of the following (a year of work):  
(1) Botany 101  
(2) Chemistry 101  
(3) Chemistry 102  
(4) Survey 100  
(5) Psychology 150-151  
(6) Botany 100 and Zoology 100  
(7) Geology 150, 151, 152-153  
(8) Physics 102  
Economics and Business students satisfy this requirement by taking Geography 150-151.

Military science (men)—Two years

Maj or and Minor Requirements. A major consists of 24 semester hours of credit earned in one of the following departments of instruction, or in one of the specified subdivisions of departments:  

<table>
<thead>
<tr>
<th>Major</th>
<th>Minor</th>
</tr>
</thead>
<tbody>
<tr>
<td>anthropology</td>
<td>anthropology</td>
</tr>
<tr>
<td>art</td>
<td>literature</td>
</tr>
<tr>
<td>botany</td>
<td>speech</td>
</tr>
<tr>
<td>bacteriology</td>
<td>French</td>
</tr>
<tr>
<td>plant physiology</td>
<td>geography</td>
</tr>
<tr>
<td>taxonomy</td>
<td>history</td>
</tr>
<tr>
<td>chemistry</td>
<td>mathematics</td>
</tr>
<tr>
<td>economics and business</td>
<td>oriental languages</td>
</tr>
<tr>
<td>business</td>
<td>philosophy</td>
</tr>
<tr>
<td>economics</td>
<td>physics</td>
</tr>
<tr>
<td>political science</td>
<td>religious</td>
</tr>
<tr>
<td>psychology</td>
<td>sociology</td>
</tr>
<tr>
<td>zoology</td>
<td>entomology</td>
</tr>
<tr>
<td>general zoology</td>
<td>premeds</td>
</tr>
</tbody>
</table>

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

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

<table>
<thead>
<tr>
<th>DEPARTMENT (or subdivision offering a major)</th>
<th>SOPHOMORE COURSES PREREQUISITE TO MAJORING IN THE FIELD and (in italics) Courses Recommended to Students Intending to Major in the Field</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anthropology</td>
<td>Anthropology-Sociology 150-151. Psychology 150-151. Geography 150. Zoology 100</td>
</tr>
<tr>
<td>Art (Art 150-151 and 154-155 should have been completed in the freshman year)</td>
<td>Art 160-161, 170, 176. Two of the following: Anthropology-Sociology 150-151, Economics 150-151, Philosophy 150-151, Psychology 150-151</td>
</tr>
<tr>
<td>Botany</td>
<td>Botany 151. Botany 102 or Zoology 181. Botany 173 or Zoology 191. Chemistry, either (1) 149 or (2) 150 and 151</td>
</tr>
<tr>
<td>Bacteriology</td>
<td>Botany 102, 173; 151 or 180. Chemistry, either (1) 149 or (2) 150 and 151</td>
</tr>
<tr>
<td>Plant Physiology</td>
<td>Botany 102, 173; 151 or 180. Chemistry, either (1) 149 or (2) 150 and 151</td>
</tr>
<tr>
<td>Taxonomy</td>
<td>Botany 102, 173; 151 or 180. Chemistry, either (1) 149 or (2) 150 and 151</td>
</tr>
<tr>
<td>Chemistry</td>
<td>Chemistry 150, 171. Two of the following: Anthropology-Sociology 150-151, Economics 150-151, Philosophy 150-151, Religion 150-151, Psychology 150-151</td>
</tr>
<tr>
<td>Economics</td>
<td>Economics 150-151. Anthropology-Sociology 150-151. Psychology 150-151</td>
</tr>
<tr>
<td>English Literature</td>
<td>English 150. Philosophy 150-151. Two of the following (economics and psychology preferred): Anthropology-Sociology 150-151, Economics 150-151, Psychology 150-151</td>
</tr>
<tr>
<td>Speech</td>
<td>Psychology 150-151. Two of the following: Anthropology-Sociology 150-151, Economics 150-151, Philosophy 150-151</td>
</tr>
<tr>
<td>French</td>
<td>French 101. Philosophy 150-151. Two of the following: Anthropology-Sociology 150-151, Economics 150-151, Psychology 150-151</td>
</tr>
<tr>
<td>Geography</td>
<td>Anthropology-Sociology 150-151. Botany 101. Economics 150-151</td>
</tr>
<tr>
<td>History</td>
<td>Economics 150-151. Philosophy 150-151. Psychology 150-151</td>
</tr>
<tr>
<td>MAJOR REQUIREMENTS</td>
<td></td>
</tr>
<tr>
<td>---------------------</td>
<td></td>
</tr>
<tr>
<td>Mathematics</td>
<td>A course in mathematics, according to the student's preparation. Two of the following: Anthropology-Sociology 150-151, Economics 150-151, Philosophy 150-151, Religion 150-151, Psychology 150-151</td>
</tr>
<tr>
<td>Oriental Languages</td>
<td>Oriental Languages 101 or 103. Philosophy 150-151. Psychology 150-151. Religion 150-151</td>
</tr>
<tr>
<td>Philosophy</td>
<td>Philosophy 150-151. Two of the following (psychology and religion preferred): Anthropology-Sociology 150-151, Psychology 150-151, Religion 150-151</td>
</tr>
<tr>
<td>Physics</td>
<td>Physics 102. Mathematics 154. One of the following: Anthropology-Sociology 150-151, Economics 150-151, Philosophy 150-151, Religion 150-151, Psychology 150-151</td>
</tr>
<tr>
<td>Political Science</td>
<td>Anthropology-Sociology 150-151. Economics 150-151. Psychology 150-151</td>
</tr>
<tr>
<td>Psychology</td>
<td>Anthropology-Sociology 150-151. Philosophy 150-151</td>
</tr>
<tr>
<td>(Zoology 100 and 151 should have been taken in the freshman year but may be taken in the sophomore year)</td>
<td></td>
</tr>
<tr>
<td>Sociology</td>
<td>Anthropology-Sociology 150-151. Economics 150-151. Psychology 150-151</td>
</tr>
<tr>
<td>Zoology</td>
<td>Zooology 170, 173. Chemistry, either (1) 149 or (2) 150 and 151. Anthropology-Sociology 150-151 or Psychology 150-151</td>
</tr>
<tr>
<td>Entomology</td>
<td>Zooology 180 and either 181 or 191. Chemistry, either (1) 149 or (2) 150 and 151. Anthropology-Sociology 150-151 or Psychology 150-151</td>
</tr>
<tr>
<td>General Zoology</td>
<td>Zooology 160, 191. Chemistry, either (1) 149 or (2) 150 and 151. Anthropology-Sociology 150-151 or Psychology 150-151</td>
</tr>
</tbody>
</table>
| Premedics           | }
The College of Applied Science combines the instructional programs usually offered by colleges of agriculture and colleges of engineering. Its principal programs are in the following fields:

**AGRICULTURE**
**CIVIL ENGINEERING**
**SUGAR TECHNOLOGY**
**HOME ECONOMICS**
**GENERAL SCIENCE**

It also offers a limited program in Public Health Nursing.

**Admission**

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

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

Prospective students of agriculture, sugar technology, and premedical work, all of whom must take college mathematics in preparation for physics, and other students desiring to study mathematics in the University or to take subjects for which college mathematics is a prerequisite should have high school algebra through quadratics and plane geometry.

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

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

Students who are poorly prepared or are admitted with deficiencies and are obliged to elect extra subjects cannot complete the program in four years. Students obliged to take English 30 or 35, English 100 Laboratory, and Mathematics 149 are not permitted to carry, in addition, the regular prescribed freshman program.

**Requirements for Graduation**

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

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

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

**Description of the programs follows:**
Agriculture

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

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

The required courses are the same in the first year for all students in Agriculture. Opportunity for divergent specialization is provided in later years, when the student chooses one of the following as a major:

- **GENERAL AGRICULTURE**
- **PLANT SCIENCE**
- **ANIMAL SCIENCE**

Specialization in Vocational Agricultural Education must start at the beginning of the sophomore year. A student who chooses one of the other majors submits a statement of his choice to his adviser and the dean at the end of the sophomore year.

The Agriculture department requires all degree candidates to take the courses listed herewith, plus 10 other semester hours in Agriculture. The selection of the additional 10 semester hours in Agriculture varies with the major selected.

**FIRST YEAR**

- Agriculture 100, 151, 152
- Either (1) Botany 100, Zoology 100 or (2) Botany 101
- Chemistry 101 or 102
- English 100 or 102
- Mathematics, either (1) 149, 150 or (2) 150, 151
- Military science (men only)
- Physical education

**SECOND YEAR**

- Agriculture 162 or 164
- Botany 151, 173
- English 110 or 150 or 156
- Military science (men only)
- Physical education
- Physics 102

**THIRD YEAR**

- Agriculture 250, 254, 256

**FOURTH YEAR**

- Agriculture 299

Students preparing for General Agriculture and for Vocational Agricultural Education are offered wide choice of electives beginning in the junior year. Students preparing for work in the specialized fields of Plant Science or Animal Science follow programs in these years that are largely prescribed. Details of these programs follow:

**General Agriculture**

The selection of General Agriculture as a major subject provides the widest freedom in choice of electives. Any student who satisfies University requirements and passes the courses required by the Agriculture department as a whole may be graduated in General Agriculture.
Plant Science

The curriculum for Plant Science is designed to prepare the student for active participation in either the production of field crops or in experimental work concerned with them. Candidates for graduation in the Plant Science program must satisfy the requirements of the department as a whole and in addition take the following courses:

**Third Year**
- Agriculture 162 or 164, whichever was not taken in second year
- Agriculture 291
- Chemistry 150, 151
- Botany, either (1) 262, 263, or (2) 273, 275

**Fourth Year**
- Agriculture 252, 260, 267, 268
- Botany, either (1) 262, 263, or (2) 273, 275
- Chemistry 149

**Animal Science**

Candidates for graduation in the Animal Science program must take the following courses in addition to those required for graduation from the department:

**Third Year**
- Agriculture 253 or 261; 255
- Chemistry 149, 150, 151

**Fourth Year**
- Chemistry 260, 262
- Agriculture 253 or 261; 257, 264
- Zoology 191, 253

**Vocational Agricultural Education**

Students specializing in Vocational Agricultural Education to fit themselves for service under the Smith-Hughes Act of Congress follow the list of general courses required for graduation and take in addition certain courses specified by the advisors and the dean. Specialization in this field must begin in the sophomore year. Students who wish the five-year diploma must register in Teachers College for the fifth (postgraduate) year of work.

**Civil Engineering**

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

The general plan provides a broad foundation in English, mathematics, chemistry, physics, and drawing during the first two years. The work of the last two years is more technical and professional, embracing the study of the principles involved in power development by means of the various prime movers, including steam engines, water wheels, gas and gasoline engines, and steam turbines, study of the design of such machines and of the materials entering into their construction, and practical tests to determine their working efficiency and economy of operation. The last two years' work is aimed to fit students to assume gradually, as practical experience is acquired, those administrative responsibilities that are more and more devolving upon men of technical training, and ultimately to become skillful practical engineers. As far as possible, the importance of each subject is illustrated by application of it to some work that is met in actual practice. It is also intended that the course shall be valuable from a broader viewpoint; therefore, while the student is learning each subject both theoretically and practically, the training of his mind is kept in view as well as the needs of the profession.
### REQUIRED COURSES

**FIRST YEAR**
- Chemistry 101 or 102
- Civil Engineering 101
- English 100 or 102
- Mathematics 151, 152, 153, 156
- Mechanical Drawing 101
- Military science (men only)
- Physical education

**SECOND YEAR**
- Civil Engineering 151, 153
- Economics 150, 151
- English 110 or 150 or 156
- Mathematics 154, 155
- Mechanical Drawing 152
- Mechanical Engineering 150
- Military science
- Physical education
- Physics 150, 151

**THIRD YEAR**
- Civil Engineering 227, 252, 253, 255
- Experimental Laboratory (X.E.) 202, 203
- Mechanical Engineering 202, 203
- Physics 152, 253

**FOURTH YEAR**
- Civil Engineering 276, 277, 279
- Geology 150
- Mechanical Engineering 282, 283, 285
- Physics 202

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### Sugar Technology

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

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

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

### Agricultural Division

In addition to certain strictly agricultural subjects, it is advisable for students in the Agricultural division to elect certain courses in chemistry. Analysis of sugarhouse products is also required, since familiarity with this work is often valuable for an agricultural chemist. Lecture courses on heat in the sugar factory and on cane sugar manufacture are required, for it is desirable that the agriculturist have some knowledge of processes in the sugar factory.

### Sugar Chemistry Division

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

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

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

### REQUIRED COURSES

#### AGRICULTURAL DIVISION

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Either (1) Botany 101 or Botany 100, Zoology 100</td>
<td></td>
</tr>
<tr>
<td>Chemistry 101 or 102</td>
<td></td>
</tr>
<tr>
<td>English 100 or 102</td>
<td></td>
</tr>
<tr>
<td>Mathematics, either (1) 149, 150 or (2) 150, 151</td>
<td></td>
</tr>
<tr>
<td>Mechanical Drawing 101</td>
<td></td>
</tr>
<tr>
<td>Military science (men only)</td>
<td></td>
</tr>
<tr>
<td>Physical education</td>
<td></td>
</tr>
<tr>
<td>Physics 102</td>
<td></td>
</tr>
</tbody>
</table>

#### CHEMISTRY DIVISION

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Either (1) Botany 101 or Botany 100, Zoology 100</td>
<td></td>
</tr>
<tr>
<td>Chemistry 101 or 102</td>
<td></td>
</tr>
<tr>
<td>English 100 or 102</td>
<td></td>
</tr>
<tr>
<td>Mathematics, either (1) 149, 150 or (2) 150, 151</td>
<td></td>
</tr>
<tr>
<td>One of the following: (1) Mechanical Drawing 101, (2) Art 154, 155, (3) Art 150, 151</td>
<td></td>
</tr>
<tr>
<td>Military science (men only)</td>
<td></td>
</tr>
<tr>
<td>Physical education</td>
<td></td>
</tr>
</tbody>
</table>

#### FIRST YEAR

- Chemistry 150, 151
- Civil Engineering 101
- English 110 or 150 or 156
- Military science (men only)
- Physical education
- Physics 102

- Chemistry 150, 171
- English 110 or 150 or 156
- Military science (men only)
- Physical education
- Physics 102

#### SECOND YEAR

- Agriculture 250, 254, 256
- Sugar Technology 201, 253, 256

- Agriculture 250
- Sugar Technology 201, 253, 256

#### THIRD YEAR

- Agriculture 252
- Economics 150
- Sugar Technology 250, 252, 255

- Agriculture 252
- Economics 150
- Sugar Technology 250, 252, 255 or 257

Sugar Technology 253, a required course in the third year of the Chemistry division, is a summer course for which students register in the second semester of the junior year. The work is done in a factory during the summer period following the junior year. Suggested electives for the Chemistry division third year are Agriculture 254 and 256.

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

The program in Home Economics allows students to major in Household Science, Household Art, Institutional Management, or Vocational Home Economics Education. A student who wishes to prepare to teach home economics chooses Vocational Home Economics Education as her major; if she seeks to teach in secondary schools, she must complete the four-year program in Vocational Home Economics Education and then register for fifth-year work in Teachers College to study for the five-year diploma.

First Year's Program, All Home Economics Majors

During the first year all Home Economics majors who are admitted without deficiencies in English take the following:

- English 100 or 102
- Chemistry 101 or 102
- Household Art 110, 111
- Home Economics 100, 101
- Household Science 150
- Art 150, 151
- Physical education

Second Year's Program for Home Economics Majors

Required courses for the second year in all four major fields are: English 110 or 150 or 156, Household Science 102, Household Art 114, 150-151, Economics 150, 151, Botany 156, and physical education. Additional requirements for the second year, varying with the major field selected, follow:

- Chemistry 149 (for Household Science majors)
- Art 154, 155 (for Household Art majors)
- Chemistry 149 (for majors in Institutional Management)
- Education 135, 180, 181 (for majors in Vocational Home Economics Education)

Third and Fourth Years

Programs for the third and fourth years in each major field follow:


**Household Art.** Requirements: Home Economics 250, 252, 253, 260, 291; Art, either (1) 170 and 270 or (2) 171 and 173; Art 172, 175; Household Art 253; Household Science 272; Anthropology-Sociology 150, 151. Suggested electives: Art 250, 251.

**Institutional Management.** Requirements: Home Economics 250, 291; Household Science 200, 251, 260, 261, 263, 265, 273; Household Science 264 or 266; Chemistry 260, 262; Zoology 191; Economics 281; Anthropology-Sociology 150-151; Psychology 280. Suggested elective: Household Science 349.

**Vocational Home Economics Education.** Requirements: Home Economics 201, 250, 251, 252, 253, 260, 291; Household Science 272, 273, 251; Anthropology-Sociology 150-151; Art 172; Education 250, 251, 253, 255. Home projects may also be required, their number and nature to be determined by the home economics staff on the basis of each student's need. Suggested electives: Art 171; Household Art 253; Psychology 280; Zoology 191; Sociology 267.

Those students who intend to become teachers and who desire the five-year diploma register in Teachers College in their fifth year. Required courses in this program are Education 340, 350, 351, 354, 390, 395, and Home Economics 360. Electives are selected from Sociology 267, Psychology 280, and Home Economics 201.
General Science

Students in General Science may major in the following fields:

- Botany (bacteriology, plant physiology, taxonomy)
- Zoology (entomology, general zoology, premedical zoology)
- Physics and Mathematics (either combined or separate)
- Chemistry
- Nursing

The major should be selected during the freshman year.

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

1. Chemistry 101 or 102 in the freshman year
2. English 100 or 102 in the freshman year; English 110 or 150 or 156 in the sophomore year
3. Two years of physical education, freshman and sophomore years
4. For men, two years of military science, freshman and sophomore years
5. Six or more credits each in five of the following groups:
   - Mathematics 149-150; 150-151
   - 152-153
   - Physics 102 or 150-151; 152
   - Botany 101
   - Zoology 100, 151
   - Geology 150, 151
   - Chemistry 101 or 102
   - Economics 150-151, Anthropology
   - Sociology 150-151
   - Zoology 100, Botany 100
6. 66 credits in either the Group A (Physical Sciences) electives or the Group B (Biological Sciences) electives listed on the following pages
7. a. For majors in Botany, Zoology (other than premedical), Chemistry, or Physics and/or Mathematics, 30 hours of credit in that major
   b. For premedical Zoology majors, 20 hours of chemistry and 12 hours of zoology.

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

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

Students whose major is Chemistry are required to take the following courses in chemistry: 101 or 102; 149, 150, 171, 211, 212, and 230. One year of college physics and one of mathematics are strongly advised.

The choice between the Physical Sciences and Biological Sciences groups referred to in (6) and the selection of a major should be made during the first year. Since a working knowledge of French and German is essential for advanced work in chemistry, zoology, and botany, students who plan to major in those subjects should take French or German in the freshman year.

During his last four semesters the student must devote most of his time to his major and to closely related courses in the other fields named in (7).

Students who plan to meet the entrance requirements of medical schools by two or three years of resident collegiate work and those students who plan to get a B.S. degree before going to medical school should enter this program. The subjects they choose must, to a large extent, be governed by the admission requirements prescribed by the American Medical Association (see Requirements of Medical Schools) and by the school the student expects to enter. Such students who do not enter with algebra through quadratics, plane geometry, and trigonometry must take either Mathematics 149-150 or 150-151 in the freshman year.
Courses from which the Physical Sciences and Biological Sciences electives must be selected follow:

<table>
<thead>
<tr>
<th>FIRST YEAR</th>
<th>SECOND YEAR</th>
<th>THIRD AND FOURTH YEARS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>GROUP ELECTIVE WORK</strong></td>
<td><strong>GROUP A—PHYSICAL SCIENCES</strong></td>
<td><strong>GROUP B—BIOLOGICAL SCIENCES</strong></td>
</tr>
<tr>
<td><strong>First Year</strong></td>
<td><strong>Second Year</strong></td>
<td><strong>Third and Fourth Years</strong></td>
</tr>
<tr>
<td><strong>Drawing</strong></td>
<td><strong>Chemistry 149, 150, 151, 171</strong></td>
<td><strong>Chemistry 211, 212, 230, 260, 262, 263, 281, 290, 300, 310, 313, 315, 317, 320, 350</strong></td>
</tr>
<tr>
<td><strong>Geography 150, 151</strong></td>
<td><strong>Civil Engineering 101</strong></td>
<td><strong>Civil Engineering 231, 252, 253, 255</strong></td>
</tr>
<tr>
<td><strong>Language</strong></td>
<td><strong>Geology 150, 151, 152, 153</strong></td>
<td><strong>Geology 254, 255, 260, 261, 262, 290</strong></td>
</tr>
<tr>
<td><strong>Political Science 150, 151</strong></td>
<td><strong>Language</strong></td>
<td><strong>Mathematics 252, 253, 254, 255, 272, 273, 275, 280, 281</strong></td>
</tr>
<tr>
<td><strong>Mathematics 149, 150, 151, 152, 153, 156</strong></td>
<td><strong>Mechanical Drawing 152</strong></td>
<td><strong>Mechanical Engineering 202, 203, 282</strong></td>
</tr>
<tr>
<td><strong>History 100</strong></td>
<td><strong>Physics 102, 150, 151</strong></td>
<td><strong>Physics 152, 202, 253, 255, 257, 261, 263, 270, 275, 280</strong></td>
</tr>
<tr>
<td><strong>First-year electives may be taken by sophomores</strong></td>
<td></td>
<td><strong>Sugar Technology 201, 250, 252</strong></td>
</tr>
<tr>
<td><strong>GROUP B—BIOLOGICAL SCIENCES</strong></td>
<td><strong>First-year electives may be taken by sophomores</strong></td>
<td><strong>Second-year electives may be taken by juniors and seniors</strong></td>
</tr>
<tr>
<td><strong>First Year</strong></td>
<td><strong>Second Year</strong></td>
<td><strong>Third and Fourth Years</strong></td>
</tr>
<tr>
<td><strong>Botany 100, Zoology 100</strong></td>
<td><strong>Botany 102, 156, 173, 180, 181</strong></td>
<td><strong>Agriculture 250, 254, 256, 261, 262</strong></td>
</tr>
<tr>
<td><strong>Botany 101</strong></td>
<td><strong>Chemistry 149, 150, 151, 171</strong></td>
<td><strong>Anthropology 261, 281</strong></td>
</tr>
<tr>
<td><strong>Geography 150, 151</strong></td>
<td><strong>Household Science 102</strong></td>
<td><strong>Chemistry 230, 260, 262, 263, 317</strong></td>
</tr>
<tr>
<td><strong>Language</strong></td>
<td><strong>Language</strong></td>
<td><strong>Economics 150, 151</strong></td>
</tr>
<tr>
<td><strong>Political Science 150, 151</strong></td>
<td><strong>Psychology 150-151</strong></td>
<td><strong>Geology 255, 260, 261, 262, 290</strong></td>
</tr>
<tr>
<td><strong>Zoology 151</strong></td>
<td><strong>Physics 102</strong></td>
<td><strong>Household Science 200, 249, 251, 272, 350, 351</strong></td>
</tr>
<tr>
<td><strong>History 100</strong></td>
<td><strong>Zoology 160, 170, 173, 180, 181, 191</strong></td>
<td><strong>Physics 255, 257, 275, 280</strong></td>
</tr>
<tr>
<td><strong>First-year electives may be taken by sophomores</strong></td>
<td></td>
<td><strong>Zoology 253, 254, 255, 260, 261, 262, 285, 290, 300, 310, 351, 352, 353, 355, 356, 370</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Second-year electives may be taken by juniors and seniors</strong></td>
</tr>
</tbody>
</table>

**Nursing Majors**

Students intending to enter the Queen's Hospital School for Nurses register in the General Science program. The School admits to its three-year program only students who are, or have been, regular students in the College of Applied Science.
Prior to entering Queen's Hospital School for Nurses, the following University courses must be completed:

| English 100 | Botany 151, 156 |
| Chemistry 101 | Household Science 150, 155 |

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

After completing the three-year program of the School, a student may, if she wishes, return to the University and continue as a candidate for the B.S. degree. The work completed at the Hospital is accepted by the University as meeting the requirement of a major in Nursing, and 30 credits are granted for it, provided the student has maintained at least a C average for the work completed at the University. The additional work in the University is planned to meet the individual needs and desires of each student, but must be planned in consultation with the dean and the student's adviser, and must, in general, follow the requirements of the Biological Sciences group. A total of 136 credits is required for graduation. The student must complete a second year of college English (English 150 or 156). In addition, the student must acquire at least 6 credits each in at least five of the following:

- botany
- zoology
- mathematics
- physics
- chemistry
- nutrition
- geology
- economics or anthropology-sociology

Public Health Nursing

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

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

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

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

To accommodate teachers in service, the College has several late afternoon, evening, and Saturday morning classes especially designed for the professional improvement of teachers.

As a result of a gift to the University from the Henry and Dorothy Castle Memorial Foundation, a new department in Teachers College will offer a program of preschool teaching preparation beginning September, 1941. The department will train prospective teachers of the preschool years and will maintain a nursery-kindergarten laboratory school.

Admission

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

Requirements for the Bachelor of Education Degree

To be eligible for the bachelor of education degree, students must have at least 130 credits and at least 264 grade points (see Baccalaureate Degrees). The curriculum offers two programs for the acquisition of the 130 credits: one for those who specialize in elementary education and one for those who specialize in secondary education.

In elementary education women must take 94 hours and men 100 hours (including military science) of prescribed work.

In secondary education women must take 85 hours and men 91 hours (including military science) of prescribed work. All students in secondary education must complete two teaching majors, each consisting of at least 24 semester hours. The following table details the prescribed work required in elementary education and in secondary education.

<table>
<thead>
<tr>
<th>SUBJECTS</th>
<th>Credit Hours Required of Students in Elementary Education</th>
<th>Credit Hours Required of Students in Secondary Education</th>
</tr>
</thead>
<tbody>
<tr>
<td>Participation and practice teaching</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>Other education courses</td>
<td>26</td>
<td>26</td>
</tr>
<tr>
<td>English</td>
<td>19</td>
<td>19</td>
</tr>
<tr>
<td>Social science</td>
<td>13</td>
<td>12</td>
</tr>
<tr>
<td>Natural science</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>Physical and health education</td>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td>Military science (men only)</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>Art and music</td>
<td>8</td>
<td>8</td>
</tr>
</tbody>
</table>
Typical teaching majors are English, social studies, science, mathematics, and health and physical education.

Students preparing to teach in secondary schools must plan their undergraduate work so that by the end of the fifth year they will complete a teaching minor of at least 12 semester hours. Teaching minors are art, commercial subjects, dramatics and speech, journalism, library science, music, physical education, prevocational subjects, and club activities. The minor is required in addition to the two majors completed during undergraduate years.

The Programs, Year by Year

During the first two (the freshman and sophomore) years, all students have virtually identical study programs. They vary only in that each student may take a few semester hours of electives in addition to the required work.

Third-year programs are broadly divided into Elementary Education and Secondary Education. The Elementary field subdivides into programs for those specializing in the preschool years, the primary years, and the upper years.

There are two fourth-year programs. One is for students in preschool and primary teaching, and the other for those who specialize in upper elementary and secondary school teaching.

First and Second Years. The programs of the first two years follow:

FIRST- AND SECOND-YEAR COURSES AND CREDIT HOURS REQUIRED OF ALL TEACHERS COLLEGE STUDENTS

<table>
<thead>
<tr>
<th>COURSES</th>
<th>First Year</th>
<th></th>
<th>Second Year</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Sem. I</td>
<td>Sem. II</td>
<td>Sem. I</td>
<td>Sem. II</td>
</tr>
<tr>
<td>Education 100</td>
<td>3</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Education 135</td>
<td></td>
<td></td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Education 180-181</td>
<td></td>
<td></td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Anthropology-Sociology 150-151</td>
<td></td>
<td></td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Botany 100</td>
<td></td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>English 100</td>
<td>3</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>English 152</td>
<td></td>
<td></td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>History 100</td>
<td>3</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Military science (men only)</td>
<td>(1)</td>
<td>(1)</td>
<td>(2)</td>
<td>(2)</td>
</tr>
<tr>
<td>Music 152</td>
<td></td>
<td></td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Physical education</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Survey</td>
<td></td>
<td></td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Zoology 100</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electives</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>4</td>
</tr>
</tbody>
</table>

Totals (women) 17  17  17  17
(men)  18  18  19  19

Third Year. At the end of the second year, students elect to specialize in either Elementary Education or Secondary Education. If they select Elementary Education, they work in one of the following subdivisions: Preschool Years, Primary Years, Upper Years. The third-year programs in each of these subdivisions follow:
THIRD-YEAR PROGRAMS

THIRD-YEAR COURSES AND CREDIT HOURS REQUIRED OF STUDENTS
IN THE PRESCHOOL YEARS SUBDIVISION

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credit Hours Required in</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Sem. I</td>
</tr>
<tr>
<td>Art 261</td>
<td>2</td>
</tr>
<tr>
<td>Biology 236</td>
<td>2</td>
</tr>
<tr>
<td>Education 234</td>
<td>1</td>
</tr>
<tr>
<td>Education 283-284</td>
<td>2</td>
</tr>
<tr>
<td>English 290-291</td>
<td>3</td>
</tr>
<tr>
<td>Health and Physical Education 220</td>
<td>2</td>
</tr>
<tr>
<td>Health and Physical Education 223</td>
<td></td>
</tr>
<tr>
<td>Music 250</td>
<td>2</td>
</tr>
<tr>
<td>Home Economics 252</td>
<td>2</td>
</tr>
<tr>
<td>Household Science 272</td>
<td>3</td>
</tr>
<tr>
<td>Household Science 275</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>2</td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td>17</td>
</tr>
</tbody>
</table>

THIRD-YEAR COURSES AND CREDIT HOURS REQUIRED OF STUDENTS
IN THE PRIMARY YEARS SUBDIVISION

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credit Hours Required in</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Sem. I</td>
</tr>
<tr>
<td>Art 261</td>
<td>2</td>
</tr>
<tr>
<td>Biology 236</td>
<td>2</td>
</tr>
<tr>
<td>Education 235</td>
<td>1</td>
</tr>
<tr>
<td>Education 285-286</td>
<td>3</td>
</tr>
<tr>
<td>English 290-291</td>
<td>3</td>
</tr>
<tr>
<td>English 294</td>
<td>1</td>
</tr>
<tr>
<td>Geography 261</td>
<td>3</td>
</tr>
<tr>
<td>Health and Physical Education 220</td>
<td>2</td>
</tr>
<tr>
<td>Health and Physical Education 223</td>
<td></td>
</tr>
<tr>
<td>Music 250</td>
<td>2</td>
</tr>
<tr>
<td>Agriculture 271</td>
<td>1</td>
</tr>
<tr>
<td>Social Science 271</td>
<td>1</td>
</tr>
<tr>
<td>Electives</td>
<td>2</td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td>17</td>
</tr>
</tbody>
</table>

THIRD-YEAR COURSES AND CREDIT HOURS REQUIRED OF STUDENTS
IN THE UPPER ELEMENTARY YEARS SUBDIVISION

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credit Hours Required in</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Sem. I</td>
</tr>
<tr>
<td>Art 262</td>
<td>2</td>
</tr>
<tr>
<td>Biology 236</td>
<td>2</td>
</tr>
<tr>
<td>Education 235</td>
<td>1</td>
</tr>
<tr>
<td>Education 285-286</td>
<td>3</td>
</tr>
<tr>
<td>English 290-291</td>
<td>3</td>
</tr>
<tr>
<td>English 295</td>
<td>1</td>
</tr>
<tr>
<td>Geography 261</td>
<td>3</td>
</tr>
<tr>
<td>Health and Physical Education 220</td>
<td>2</td>
</tr>
<tr>
<td>Health and Physical Education 223</td>
<td></td>
</tr>
<tr>
<td>Music 251</td>
<td>2</td>
</tr>
<tr>
<td>Agriculture 271</td>
<td>1</td>
</tr>
<tr>
<td>Social Science 271</td>
<td>1</td>
</tr>
<tr>
<td>Electives</td>
<td>2</td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td>17</td>
</tr>
</tbody>
</table>
Students in Secondary Education take the following program in the third year:

THIRD-YEAR COURSES AND CREDIT HOURS REQUIRED
OF STUDENTS IN SECONDARY TEACHING

<table>
<thead>
<tr>
<th>COURSES</th>
<th>Credit Hours Required in</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Sem. I</td>
</tr>
<tr>
<td>Education 235</td>
<td></td>
</tr>
<tr>
<td>Education 250-251</td>
<td>3</td>
</tr>
<tr>
<td>English 292-293</td>
<td>3</td>
</tr>
<tr>
<td>Health and Physical Education 223</td>
<td></td>
</tr>
<tr>
<td>Electives</td>
<td>10</td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td>17</td>
</tr>
</tbody>
</table>

**Fourth Year.** The program required of all students in the fourth year consists of two parts: (1) one semester of elective and recommended courses, and (2) one semester of professional education courses. One half of part 2 is devoted to practice teaching and accompanying conference, the other half exclusively to required education courses. While one half of the students carry the elective program, the other half carry the professional education program, one group doing practice teaching while the other carries the required courses.

FOURTH-YEAR COURSES AND CREDITS REQUIRED
OF TEACHERS COLLEGE STUDENTS

<table>
<thead>
<tr>
<th>COURSES</th>
<th>Preschool and Primary Curriculum</th>
<th>Upper Elementary and Secondary Curriculum</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Sem. I</td>
<td>Sem. II</td>
</tr>
<tr>
<td>Education 231</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Education 238</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Education 254</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Education 255</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Education 261</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Education 263</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Education 268</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Education 295</td>
<td></td>
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<tr>
<td>English 240</td>
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<tr>
<td>English 296</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Electives</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td>16</td>
<td>16</td>
</tr>
</tbody>
</table>

**Requirements for the Five-Year Diploma**

Candidates for the five-year diploma must be holders of bachelor of education degrees, or holders of bachelor of science degrees who have specialized in vocational education in the University of Hawaii College of Applied Science.

The fifth-year work consists of two parts: (1) one semester of interned teaching in a public school, under supervision, and (2) one semester of required and elective course work. The class is divided into two groups, one of which carries the academic program while the other does the interned teaching.

In addition to the requirements stated hereafter, candidates for the five-year diploma in secondary education must have acquired by the end of the fifth year a teaching minor consisting of 12 credits. (See Requirements for the Bachelor of Education Degree, last paragraph.)
VOCATIONAL EDUCATION

COURSES AND CREDITS REQUIRED
OF FIFTH-YEAR STUDENTS

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credit Hours Required in</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Sem. I</td>
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<tr>
<td>Education 340</td>
<td>4</td>
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<tr>
<td>Education 350</td>
<td>4</td>
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<tr>
<td>Education 351</td>
<td>2</td>
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<tr>
<td>Education 354</td>
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<tr>
<td>Education 390</td>
<td></td>
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<tr>
<td>Education 395</td>
<td></td>
</tr>
<tr>
<td>Electives</td>
<td>4</td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td>16</td>
</tr>
</tbody>
</table>

Master of Education Degree

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

Vocational Education

Prospective vocational agriculture and home economics teachers receive their undergraduate preparation as registrants in the College of Applied Science, receiving the bachelor of science degree (see College of Applied Science). Basic professional education courses and practice teaching are required. English usage and other selective criteria used in Teachers College apply to prospective vocational teachers. The students in these divisions register in Teachers College for the fifth (graduate) year. For the work of this year see Requirements for the Five-Year Diploma.

Health and Physical Education

The University health and physical education program is administered as a department in Teachers College. It serves all colleges of the University in terms of degree and other requirements.
THE GRADUATE DIVISION

Students registered in the Graduate Division are principally of two types: (1) candidates for advanced degrees and (2) teachers, social workers, and others seeking professional improvement by taking graduate courses. Graduate work is offered in the following fields:

- anthropology
- botany
- business
- chemistry
- education
- English
- entomology
- genetics
- geography
- history
- international relations
- nutrition
- oriental studies
- physical geology and geophysics
- physics
- sociology
- soil science
- speech
- zoology

Unusual opportunities for graduate study and research are offered in several of these fields.

In oriental studies there are not only the regular course offerings in Japanese and Chinese language, history, and philosophy, but additional courses made possible by the Oriental Institute. These, together with good library resources and the advantages of the natural environment, which is a blending of Orient and Occident, afford unusually good opportunities for graduate students.

For graduate work in the physical and biological sciences relating to tropical agriculture, the University's instructional personnel and laboratory equipment are supplemented by the staffs and facilities of research organizations cooperating with the University in the Graduate School of Tropical Agriculture. These cooperating institutions are: the experiment station of the Hawaiian Sugar Planters' Association, the experiment station of the Pineapple Producers Cooperative Association, the Hawaii Agricultural Experiment Station, under the direction of the University, and the Bernice P. Bishop Museum. Research in geophysics and related fields may be pursued at Kilauea Volcano Laboratory, situated at Kilauea Crater on the island of Hawaii.

The University offers a training program in social work designed to meet the minimum curriculum requirements of the American Association of Schools of Social Work. Beginning with the autumn of 1936 a limited number of courses in social work training were offered, and in September, 1940, a curriculum for a one-year professional school was established.

Seniors in the University of Hawaii may carry a limited amount of graduate work during their last semester as undergraduates, provided that the total number of credit hours for which they are registered during that semester does not exceed 16.

Students in the Graduate Division may not register for more than 16 credit hours in any semester, nor more than 6 credit hours in a six-weeks' summer session. The number of credit hours that may be carried by students engaged as teaching or research assistants is limited by the nature of their duties.

Requirements for Advanced Degrees

Graduate students not interested in earning advanced degrees need not meet the requirements for admission to candidacy.
Admission to Candidacy. Admission to the Graduate Division does not imply admission to candidacy for an advanced degree. Such admission is granted only after a committee representing the department in which the candidate proposes to work for an advanced degree is satisfied as to the adequacy of his preparation and his probable ability to pursue graduate work successfully.

Graduate work completed at other institutions may be accepted as fulfilling part of the requirements for an advanced degree. For the master's degree, the maximum amount ordinarily accepted is 8 semester hours.

No extension course may be counted toward an advanced degree.

Grades in courses numbered 200 to 299 (upper division undergraduate courses) must be A or B if they are to be credited toward an advanced degree.

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

Candidates for advanced degrees who fail to complete successfully 75 per cent of the course credits they carry are automatically dropped from candidacy.

Candidates failing to obtain a degree within five years after admission to candidacy must again qualify for candidacy.

The Master's Degree

The University awards three master's degrees: master of arts, master of science, and master of education.

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

Thirty semester hours of graduate study are required for the master's degree. All work connected with the thesis must be registered for as thesis research (course number 400 in each major field). A maximum of 6 semester hours may be earned in the thesis research course, except that in the natural and physical sciences a maximum of 12 is allowed. At least 8 credits toward the master's degree must be earned in courses primarily for graduate students (300-399). All of the courses taken by the candidate should be in his major field of interest or in related courses in one or two closely allied fields. A reading knowledge of a foreign language is required in certain fields and, at the discretion of the qualifying committee, may be required of a candidate in any field.

A thesis is required of all candidates for the master's degree. The thesis topic should be within the field of the major. It must be written in acceptable English and show evidence of ability to pursue research intelligently and to arrive at logical conclusions. The topic must be approved by the committee which admits the student to candidacy. Only after this approval has been granted and the candidate has registered for the thesis research course is a committee appointed to supervise the preparation of the thesis. A candidate expecting to receive the master's degree in June must notify the director not later than February 20 and must submit copies of the completed thesis to the members of his committee for final checking by May 15. Instructions on the form of the thesis may be obtained from the director.

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

The Civil Engineer Degree

The degree of civil engineer (C.E.) is granted to bachelors of science in civil engineering from this institution who, after graduation, complete two years of practical experience in the profession, present a satisfactory paper upon some topic of interest connected with their work, complete certain assigned problems, and pass required examinations. Regulations governing fees, registration, and completion dates are essentially the same as those stated for master's degree candidates.

The Sugar Technologist Degree

Bachelors of science in sugar technology from this institution and other bachelors of science whose undergraduate work has included the proper basic studies may become candidates for the sugar technologist (S.T.) degree. To become such a candidate a student must have two years of practical experience after graduation and must pass a qualifying examination based on assigned reading in the general field of sugar technology. Later a thesis, or final report, covering some topic distinctly important and closely allied to the practical work of the candidate, must be presented for the approval of the candidate's committee. Regulations governing candidates for this degree are essentially the same as those governing candidates for the master's degree.

The Doctor of Philosophy Degree

Candidates for the doctor of philosophy (Ph.D.) degree are accepted only in those sciences basic to tropical agriculture.

The minimum period required for procuring this degree is three years of graduate study, at least one year of which must be in residence at this institution and one year in residence at some other university. A qualifying general examination, which includes a test of reading knowledge of both French and German, must be passed at least one academic year (nine months) prior to the awarding of the degree; a student will not be considered a candidate for the doctor's degree until he has passed this examination. The candidate must write a doctor's dissertation and, in the final examination, present and defend it.

The Graduate Program in Social Work

Admission. Admission to the one-year program in Social Work Training is limited to graduate students selected by a qualifying committee of the faculty and representatives of cooperating social agencies. Students are expected to have completed not less than 30 semester hours of social and psychological science, including not less than 5 semester hours in each of the following fields: sociology, economics, political science, psychology; and not less than 12 semester hours in one of those fields; or equivalents approved by the director of the program. The University of Hawaii offers seniors an orientation course in social work, and it is expected that students entering the Social Work Training program from this University will have taken that subject. Students who have not had this course or its equivalent must audit it concurrently.

A person seeking admission to the program must submit an application, an autobiographical sketch, and a transcript of any academic work taken at a college or university other than the University of Hawaii. If an applicant is not known to the members of the qualifying committee, the director will designate a person or persons residing in the applicant's community to interview him. The number of field work assignments available limits the number of students who can be accepted. Full-time students will be admitted only at the beginning of the fall semester. Prospective students are urged to apply by August 15, and no applications will be considered after the opening of class work. Late applicants may be rejected because of the
difficulty of arranging field work assignments for them. Application forms may be
procured from the University of Hawaii registrar.

Eligibility for admission is determined by (1) personal qualifications that
promise future value to social work, (2) scholarship, (3) physical and mental
health, and (4) preprofessional training or experience. Notice of acceptance will
be sent to successful applicants before September 15, and written corroboration of
intention to register for the full year's program is requested.

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

Field Work. Regularly enrolled students are required to take two semesters of
field work, and it is expected that they will take the field work course concurrently
with the course in theory of case work. Field work consists of 250 hours a semester
(approximately 15 hours a week over a 17-week period) of supervised case work in
an approved social agency doing case work of high standard. Most field work
placements are in the general assistance division of the Territorial Department of
Social Security, where the student work is supervised by the University faculty. A
few carefully selected students are placed in more specialized agencies under the
supervision of competent professionally trained social workers selected by the
University.

Graduate Fellowships and Scholarships

The University offers a number of fellowships to graduates of accredited institu­
tions of higher learning who desire to pursue graduate study in the fields in which
the University offers advanced degrees. Graduate fellows receive stipends ranging
from $225 to $630, pay no registration, tuition, or laboratory fees, carry a limited
program of graduate study toward the master’s degree, and act as readers and
research or laboratory assistants.

The Graduate Study Announcement states further details of work in the Divi­sion.
ANNOUNCEMENT OF COURSES OF INSTRUCTION FOR THE YEAR 1941-42

COLLEGE OF ARTS AND SCIENCES
Dean: Thayne M. Livesay, Ph.D.

COLLEGE OF APPLIED SCIENCE
Dean: Arthur R. Keller, M.S.

TEACHERS COLLEGE
Dean: Benjamin O. Wist, Ph.D.

GRADUATE DIVISION
Director: Paul S. Bachman, Ph.D.

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

All courses in Teachers College, except those in physical and health education for teachers, are listed under Teacher Education.

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

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

Agriculture


Professor Wadsworth, chairman

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

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

152 POULTRY HUSBANDRY
First semester only; 3 credits.
Elementary anatomy of digestive and reproductive systems, genetics of egg production, and principles of poultry husbandry. Two lectures and one laboratory period a week. Laboratory fee $1.

162 TROPICAL POMOLOGY
First semester only; 3 credits. (Alternates with Agriculture 164.)
Origin, description, and cultural requirements of the principal fruit and nut crops in Hawaii. Prerequisites: Chemistry 101 or 102; either (1) Botany 101 or (2) Botany 100 and Zoology 100. Two lectures and one laboratory period a week. Laboratory fee $1.
### Agriculture

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Instructor(s)</th>
<th>Type of Course</th>
<th>Credits</th>
<th>Description</th>
<th>Prerequisites</th>
<th>Laboratory Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>250</td>
<td>Soils</td>
<td>Mr. Wadsworth</td>
<td>First semester</td>
<td>4</td>
<td>Origin and physical properties of local soils. Texture, structure, and moisture relations. Three lectures or recitations and one laboratory period a week. Prerequisites: Chemistry 101 or 102, Physics 102. Laboratory fee $2.</td>
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</tr>
<tr>
<td>252</td>
<td>Sugar Cane Production</td>
<td>Mr. Wadsworth and H.S.P.A. Expt. Sta. Staff</td>
<td>First semester</td>
<td>4</td>
<td>Varieties of cane, their planting, irrigation, fertilization, and harvesting. Visits to experimental fields and plantations. Students keep Fridays as free as possible for field trips. Lectures, assigned readings, and laboratory periods. Taught with cooperation of staff of Hawaiian Sugar Planters' Association experiment station. Prerequisites: Agriculture 250, 254. Laboratory fee $2.</td>
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<tr>
<td>254</td>
<td>Principles of Genetics</td>
<td>Mr. Bice</td>
<td>First semester</td>
<td>3</td>
<td>Fundamentals of genetics, including principles of Mendelian and Neo-Mendelian inheritance, physical basis of heredity, variation, and an introduction to biometric methods. Two lectures and one laboratory period a week. Prerequisite: either (1) Botany 101 or (2) Botany 100 and Zoology 100.</td>
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<td></td>
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<tr>
<td>255</td>
<td>Poultry Husbandry</td>
<td>Mr. Bice</td>
<td>Second semester</td>
<td>3</td>
<td>Problems of management on a commercial poultry farm. Assigned readings, discussions, and an hour report on one phase of the poultry industry. Two lectures and one recitation a week. Prerequisites: Agriculture 152 and sophomore standing. Laboratory fee $1.</td>
<td></td>
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<tr>
<td>256</td>
<td>Principles of Agronomy</td>
<td>Mr. Henke</td>
<td>Second semester</td>
<td>3</td>
<td>Field crops, their distribution, character, culture, utilization, and improvement. Two lectures and one laboratory period a week. Prerequisites: Chemistry 101 or 102; either (1) Botany 101 or (2) Botany 100 and Zoology 100. Laboratory fee $1.</td>
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<tr>
<td>257</td>
<td>Feeds and Feeding</td>
<td>Mr. Bice</td>
<td>First semester</td>
<td>3</td>
<td>Principles of feeding and their application to farm and plantation animals. Special problems in poultry husbandry research; individual work.</td>
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<tr>
<td>259</td>
<td>Poultry Husbandry</td>
<td>Mr. Bice</td>
<td>First semester</td>
<td>3</td>
<td>Problems of management on a commercial poultry farm. Assigned readings, discussions, and an hour report on one phase of the poultry industry. Two lectures and one recitation a week. Prerequisites: Agriculture 152 and sophomore standing. Laboratory fee $1.</td>
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<tr>
<td>260</td>
<td>Pineapple Production</td>
<td>Mr. Wadsworth and P.P.C.A. Expt. Sta. Staff</td>
<td>First semester</td>
<td>3</td>
<td>A general study of pineapple production. Taught with cooperation of staff of Pineapple Producers Cooperative Association experiment station. Prerequisites: Botany 101, Chemistry 101 or 102, Agriculture 250. Laboratory fee $1.</td>
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<tr>
<td>261</td>
<td>Beef and Swine Production</td>
<td>Mr. Work</td>
<td>Second semester</td>
<td>3</td>
<td>The breeds, care, management, and feeding of beef cattle and swine, with particular reference to Hawaiian conditions. Two lectures or recitations and one laboratory or study period a week. Laboratory fee $1. (Alternates with Agriculture 253.)</td>
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<tr>
<td>262</td>
<td>Advanced Genetics</td>
<td>Mr. Henke</td>
<td>Second semester</td>
<td>3</td>
<td>Organization of germinal materials; methods and results of modification of germinal materials. Two lectures a week, problems, assigned reading, field trips, and demonstrations. Primarily for those who expect to make genetics a major study or to engage in academic or experiment station work. Prerequisite: Agriculture 254.</td>
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<tr>
<td>264</td>
<td>Seminar in Animal Nutrition</td>
<td>Mr. Henke</td>
<td>Second semester</td>
<td>1</td>
<td>Recent investigations in animal nutrition; oral reports by students on special topics after a review of literature. Prerequisites: Agriculture 257, sufficient training in chemistry, and consent of instructor.</td>
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</tbody>
</table>
COURSES OF INSTRUCTION

265 AGRICULTURAL THESIS
Credit by arrangement.
Advanced individual work in field, laboratory, and library.

267 AGRICULTURAL CHEMISTRY
Second semester only; 3 credits.
Lectures, reading, and problems concerning the chemistry of soil composition, soil fertility, fertilizers, and feeds. May be supplemented by laboratory exercises in Agriculture 268. Prerequisite: Agriculture 250.

268 AGRICULTURAL CHEMISTRY LABORATORY
Second semester only; 2 credits.
Analysis of soils, fertilizers, and feeds. Prerequisites: Chemistry 151 or 230, Agriculture 250, and credit or concurrent registration in Agriculture 267. Laboratory fee $2.

275 FORAGE CROPS
First semester only; 3 credits.
Principal forage species in Hawaii; their identification, value, and management. Two lectures and one laboratory period a week. Prerequisite: Agriculture 256.

281 AGRICULTURAL MACHINERY
Second semester only; 1 credit.
Kinds and types of machinery used in plantation work; lectures by various individuals, each covering a type of machine used on plantations. Field trips to plantations. Given through cooperation with the Hawaiian Sugar Planters' Association engineering committee.

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

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

300 DIRECTED RESEARCH
First semester, credit by arrangement; repeated second semester.
Directed research in (a) genetics—Mr. Collins, (b) soil chemistry—Mr. Dean, (c) soil physics—Mr. Wadsworth, (d) tropical horticulture—Mr. Beaumont, Mr. Jones.

301 SEMINAR IN GENETICS
Year course; 2 credits each semester.
By means of reports upon assigned readings the seminar makes a critical review of current fundamental researches in the field of experimental genetics. Prerequisite: advanced study in genetics.

307 SOIL SCIENCE SEMINAR
Year course; 1 credit each semester.
Presentation of seminar reports, research reports, or reviews of soil science literature. May be taken repeatedly. Prerequisite: graduate standing or consent of instructors.

400 THESIS RESEARCH
Credit by arrangement.
Open only to graduate students engaged in the preparation of theses in genetics, soil science, or horticulture.
**Anthropology and Sociology**

Professor Felix M. Keesing, D.Litt.; Associate Professor Andrew W. Lind, Ph.D.; Assistant Professors Gordon T. Bowles, Ph.D., John F. Embree, Ph.D.; Instructor Bernhard L. Hörmann, M.A.; Lecturers Peter H. Buck, D.S.O., M.D., Kenneth P. Emory, M.A.

Associate Professor Lind, chairman

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Instructor</th>
</tr>
</thead>
<tbody>
<tr>
<td>150-151</td>
<td><strong>INTRODUCTION TO THE STUDY OF MAN</strong></td>
<td>Mr. Keesing</td>
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<tr>
<td></td>
<td>Year course; 3 credits each semester.</td>
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<tr>
<td></td>
<td>The development of man; race and race relations; the growth of culture; the nature of society; the individual and the group; communication. Prerequisite: sophomore standing. No credit for students who have taken Anthropology 170 and 171 or Sociology 170 and 171.</td>
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<tr>
<td>273</td>
<td><strong>MODERN AMERICA</strong></td>
<td>Mr. Embree</td>
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<td></td>
<td>Second semester only; 3 credits.</td>
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<td></td>
<td>Society in a new, machine-age, immigrant-settled country in contrast to that of old indigenous folk communities in Europe and Asia.</td>
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<tr>
<td>170</td>
<td><strong>DEVELOPMENT OF MAN</strong></td>
<td>Mr. Bowles</td>
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<td></td>
<td>First semester only; 2 credits.</td>
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<td></td>
<td>Man's place in nature and his relationship to the animal kingdom; varieties of man; beginning and growth of culture. This course, together with Anthropology 171 and either Sociology 170 or 171, accepted as equivalent to Anthropology-Sociology 150-151 for anthropology majors. No credit for students who have taken Anthropology-Sociology 150-151.</td>
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<tr>
<td>171</td>
<td><strong>MAN AND CULTURE</strong></td>
<td>Mr. Embree</td>
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<td></td>
<td>Second semester only; 2 credits.</td>
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<tr>
<td></td>
<td>Introduction to cultural anthropology; development and spread of culture; environment and culture; social organization. This course, together with Anthropology 170 and either Sociology 170 or 171, accepted as equivalent to Anthropology-Sociology 150-151 for anthropology majors. No credit for students who have taken Anthropology-Sociology 150-151.</td>
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<tr>
<td>250</td>
<td><strong>THE POLYNESIANS</strong></td>
<td>Mr. Keesing</td>
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<td>Second semester only; 3 credits.</td>
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<td></td>
<td>Comparative study of the peoples of Polynesia; theories of their origins, migrations, and relationships; special attention to ancient Hawaiian culture.</td>
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<tr>
<td>252</td>
<td><strong>PEOPLES OF THE PACIFIC</strong></td>
<td>Mr. Keesing</td>
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<td></td>
<td>First semester only; 3 credits.</td>
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<tr>
<td></td>
<td>The distribution, migrations, relationships, and modes of living of indigenous peoples within the Pacific area.</td>
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<tr>
<td>254</td>
<td><strong>PEOPLES OF ASIA</strong></td>
<td>Mr. Bowles</td>
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<td></td>
<td>Second semester only; 3 credits.</td>
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<td></td>
<td>Cultures and civilizations, especially of China, Japan, India, Persia, Arabia; hunters, nomads, agriculturists; languages, religions, social organization, village life, caste, material culture.</td>
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<tr>
<td>255</td>
<td><strong>THE AMERICAN INDIAN</strong></td>
<td>Mr. Embree</td>
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<td></td>
<td>Second semester only; 3 credits.</td>
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<td></td>
<td>American Indian tribes and cultures, especially in North America; also a study of the civilizations of Mexico and Peru.</td>
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<tr>
<td>257</td>
<td><strong>PEOPLES OF THE WORLD</strong></td>
<td>Mr. Embree</td>
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<tr>
<td></td>
<td>First semester only; 3 credits.</td>
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<tr>
<td></td>
<td>Peoples of the world, their distribution and their cultures.</td>
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<tr>
<td>258</td>
<td><strong>GENERAL ETHNOLOGY</strong></td>
<td>Mr. Embree</td>
</tr>
<tr>
<td></td>
<td>Second semester only; 3 credits.</td>
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<tr>
<td></td>
<td>The nature of culture; problems of diffusion, independent invention, and the relationship of environment to culture.</td>
<td></td>
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</tbody>
</table>
COURSES OF INSTRUCTION

261 RACE AND RACE MIXTURE  Mr. Bowles
First semester only; 3 credits.
Origin, differentiation, and classification of the human species; fossil and living
man; concepts of race; genetic factors in race crossings.

263 ARCHAEOLOGY AND PREHISTORY  Mr. Bowles
First semester only; 3 credits.
Culture to dawn of history; stone and metal ages; commencement of civilization in
the Old World: Crete, Danube, Egypt, Near East, India, China.

265 PRIMITIVE SOCIETY  Mr. Embree
First semester only; 3 credits.
Comparative survey of the diverse types of human society, especially among pre-
literate peoples, with the aim of better understanding the nature of society.

267 PRIMITIVE RELIGION  Mr. Embree
First semester only; 2 credits.
Religious beliefs and practices in preliterate society; functions of religion in social
organization; reading of monographs on religions of various tribes. Prerequisite:
Anthropology-Sociology 150-151, or consent of instructor.

270 VILLAGE LIFE IN JAPAN AND CHINA  Mr. Embree
First semester only; 3 credits.
Peasant life: village organization, family systems, festival and seasonal calendar;
parallels and relationships of folk society in the two countries.

271 ANTHROPOLOGY AND MODERN LIFE  Mr. Keesing
First semester only; 3 credits.
The contribution that anthropological science can make at this stage of its develop-
ment to current issues of contemporary society.

272 MODERN CHANGES AMONG PACIFIC PEOPLES  Mr. Keesing
Second semester only; 3 credits.
The reactions of indigenous Pacific peoples to western civilization; economic, social,
religious, and other adjustments; forces making for change and conservatism.

281 PHYSICAL ANTHROPOLOGY  Mr. Bowles
Second semester only; 3 credits.
Age, race, and sex variations of man; measurement and statistical treatment of
skeletal anatomy; comparative external morphology of the living. Two lectures and
one laboratory a week. Prerequisite: Anthropology 261 or Zoology 100 and 151.

300 ADVANCED READING AND RESEARCH  Staff
Credit by arrangement.
Prerequisite: consent of department chairman.

-100 THESIS RESEARCH  Staff
Credit by arrangement.
Only graduate students engaged in the preparation of theses may register in this
course.

¶ FREQUENTLY OFFERED BUT NOT TO BE GIVEN IN 1941-42:
268 Primitive Art and Craft—Second semester only; 2 credits.
269 Folklore—Second semester only; 2 credits.
274 India—Second semester only; 3 credits.

SOCIOLOGY

170 HUMAN GROUPS AND THEIR BEHAVIOR  Mr. Hörmann
First semester only; 2 credits.
The processes of social interaction; the socialization of the individual; folkways,
mores, and institutions. This course, together with Sociology 171 and either Anthro-
pology 170 or 171, accepted as equivalent to Anthropology-Sociology 150-151. No
credit for students who have taken Anthropology-Sociology 150-151. Prerequisite:
sophomore standing.
171 Human Populations and Settlements
Mr. Hörmann
Second semester only; 2 credits.
An introduction to the problems of human populations and communities. This course, together with Sociology 170 and either Anthropology 170 or 171, accepted as equivalent to Anthropology-Sociology 150-151. No credit for students who have taken Anthropology-Sociology 150-151. Prerequisite: sophomore standing.

252 Community and Society
Mr. Hörmann
First semester only; 3 credits.
A sociological orientation to the human community and its problems; types of communities, their natural history and institutions.

254 Urban Sociology
Mr. Hörmann
Second semester only; 3 credits.
Sociological principles applied to the modern city; structure, growth, decline; the institution and the person in an urban setting. Field trips. Prerequisite: Sociology 252.

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

256 Race and Culture Contacts in Hawaii
Mr. Lind
First semester only; 3 credits.
Problems of culture contacts in a commercial and plantation frontier; research findings relative to movement, accommodation, and assimilation of the immigrant groups in Hawaii.

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

267 The Family
Mr. Lind
First semester only; 3 credits.
The family as a universal institution; changing structure and functions in the Orient and the Occident; personality development in the family; courtship and marriage.

268 Human Migrations
Mr. Hörmann
First semester only; 3 credits.
Migration and civilization building; factors affecting population movements in contemporary society; nature and social consequences of American immigration; analysis of immigrant autobiographies. Prerequisite: Anthropology-Sociology 150-151.

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

270 Population and Society
Mr. Hörmann
Second semester only; 3 credits.
Society analyzed in terms of the quantitative and qualitative aspects of population; sociological aspects of birth and death rates, natural increase, and mobility. Laboratory. Prerequisite: Anthropology-Sociology 150-151.

274 Social Change
Mr. Hörmann
First semester only; 3 credits.
The nature of and the major factors affecting social change; the role of invention and science; social forecasting.

300 Advanced Reading and Research
Credit by arrangement.
Prerequisite: consent of instructor.
COURSES OF INSTRUCTION

350-351 Seminar in Sociology  
Year course; 2 credits each semester.  
Open to senior and graduate students. Prerequisite: consent of instructor.  

352 Social Research  
Second semester only; 3 credits.  
The accepted methods of social research; values and limitations for various types of studies. Laboratory. Open to senior and graduate students. Prerequisite: consent of instructor.  

400 Thesis Research  
Credit by arrangement.  
Open only to graduate students engaged in the preparation of theses.  

100 Frequently offered but not to be given in 1941-42:  
253 Rural Sociology—Second semester only; 3 credits.  
266 Social Institutions—Second semester only; 3 credits.  
271 Human Ecology—Second semester only; 3 credits.  
272 Collective Behavior—First semester only; 3 credits.  
276 Principles of Sociology—First semester only; 3 credits.  

Art  

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

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

154-155 Freehand Drawing and Beginning Painting  
Mr. Luquiens, Mrs. Fisher  
Year course; 2 credits each semester.  
First semester: freehand perspective. Second semester: three-dimensional form in charcoal and water color.  

160-161 Oil Painting  
Year course; 2 credits each semester.  
Study of form and color in oils, stressing composition, plane structure, and character of subject. First semester: still life. Second semester: portrait head and costume. Prerequisite: Art 154-155 or consent of instructor. Studio fee $3 second semester, to cover expense for models.  

170 Imaginative Design  
First semester only; 2 credits.  
Development of design and color as flexible means of expression; imaginative handling of motifs, and fundamentals of design structure. Prerequisite: Art 150-151.  

171 Art in the Home  
Second semester only; 2 credits.  
Primarily an appreciation course; the application of design to the everyday arrangements and furnishings of the household. Lectures and some drawing. Prerequisite: Art 150-151.  

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

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

177 ADVANCED COMPOSITION
Second semester only; 2 credits.
Continuation of Art 170, allowing maximum freedom for individual expression in
fields chosen by the student. Prerequisite: Art 170.

250-251 HISTORY OF ART
Year course; 2 credits each semester.
Origins and development of architecture, sculpture, and painting from prehistoric
times to the present. Lectures with lantern slides; visits to Honolulu Academy of
Arts. Prerequisite: Art 250-251 or consent of instructor.

252 RENAISSANCE PAINTING
First semester only; 2 credits.
A study of the cultural forces of the Renaissance, and of their development both in
Italy and in northern Europe. Lectures and reading assignments. Prerequisite: Art 250-251 or consent of instructor.

261 CREATIVE ART FOR THE PRIMARY YEARS
(For description, see Teacher Education, Art for Teachers.)

262 CREATIVE ART FOR THE UPPER ELEMENTARY YEARS
(For description, see Teacher Education, Art for Teachers.)

263 CREATIVE ART FOR THE SECONDARY SCHOOL YEARS
(For description, see Teacher Education, Art for Teachers.)

265 WATER-COLOR PAINTING
Second semester only; 2 credits.
The technique of water color. Studio and outdoor painting. Prerequisites: Art
150-151, 154-155.

266-267 ETCHING
Year course; 2 credits each semester.
Technical methods of etching; chiefly landscape, but affording opportunity for
individual treatment of any subject matter. Studio and outdoor work. Prerequisite: Art 160-161.

272 ILLUSTRATION
First semester only; 2 credits.
Analysis of the requirements of illustration; solution of elementary problems in
various styles. Prerequisites: Art 150-151, 154-155, 156, 269.

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

† ALSO ACCEPTABLE TOWARD A MAJOR IN ART:
Philosophy 263.

† FREQUENTLY OFFERED BUT NOT TO BE GIVEN IN 1941-42:
156 Beginning Commercial Art—First semester only; 2 credits.
173 Advanced Interior Decoration—Second semester only; 2 credits.
253 Modern Painting—First semester only; 2 credits.
268 Landscape Painting—First semester only; 2 credits.
269 Life Class—Second semester only; 2 credits.
273 Advanced Illustration—Second semester only; 2 credits.
274 Commercial Art for Economics and Business Students—Second semester
only; 2 credits.
275 Advanced Commercial Art—Second semester only; 2 credits.
276-277 Stage Design—Year course; 2 credits each semester.
COURSES OF INSTRUCTION

Botany

Professors Harold St. John, Ph.D., Oscar Nelson Allen, Ph.D., Harry F. Clements, Ph.D.; Assistant Professors Charles J. Engard, Ph.D., George F. Papenfuss, Ph.D.; Lecturer Richard H. P. Sia, M.D. Absent on leave 1941-42: Associate Professor G. K. Parris, Ph.D.

Professor Allen, chairman

100 Botany  Mr. Clements, Mr. Papenfuss
First semester, 4 credits; repeated second semester.
Survey of the plant kingdom, with emphasis upon structure in relation to function, function in relation to habitat, habitat and heredity in relation to evolution, attributes of plant life in relation to man. This course and Zoology 100 comprise an introduction to the biological sciences. Two lectures and 2 laboratory periods a week. Laboratory fee $3 each semester.

101 General Botany  Mr. St. John, Mr. Engard
Year course; 3 credits each semester.
Introduction to botany; structure of seed plants; relation of form to function; adjustment to external conditions; plant survey from algae to seed plants; evolution in relation to habitat. One lecture or recitation and 2 laboratory periods a week. Laboratory fee $4 each semester.

102 Systematic Botany of Flowering Plants  Mr. St. John
First semester only; 3 credits.
Native and exotic Hawaiian flowering plants, their classification, history, distribution, use; synopsis of Monocotyledons; trips to mountains; preparation of a herbarium. One lecture and 2 laboratory periods a week. Prerequisites: either (1) Botany 100 and Zoology 100 or (2) Botany 101. Laboratory fee $2.

151 General Bacteriology  Mr. Allen
First semester, 4 credits; repeated second semester.
Introduction to physiological reactions, culture of microorganisms and laboratory technique. First semester emphasizes industrial and agricultural applications; second semester emphasizes medical phases. Two lectures and 2 laboratory periods a week. Prerequisites: either (1) Botany 100 and Zoology 100 or (2) Botany 101. Laboratory fee $5.

156 Bacteria in Relation to the Individual and the Public  Mr. St. John
First semester, 2 credits; repeated second semester.
Major contributions of bacteriological research to agriculture, dairying, mechanisms of sewage disposal, and study of communicable diseases. No credit for students who have taken Botany 151.

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

173 Elementary Plant Physiology  Mr. Engard
Second semester only; 4 credits.
Introduction to plant physiology; osmosis, absorption of water and its ascent in plants, transpiration, mineral utilization, photosynthesis, storage, digestion, respiration, growth, photoperiodism. Three lectures and one laboratory period a week. Prerequisites: Chemistry 101 or 102; either (1) Botany 100 and Zoology 100 or (2) Botany 101. Laboratory fee $3.

180 Algoalogy  Mr. Papenfuss
First semester only; 3 credits.
Structure and life histories of the more common species of algae; their importance and relationships. One lecture and 2 laboratory periods a week. Prerequisites: either (1) Botany 100 and Zoology 100 or (2) Botany 101. Laboratory fee $3.
181 **PLANT LIFE OF THE SEA**
Mr. Papenfuss

Second semester only; 3 credits.

Marine plants, their distribution, life histories, environments and importance in the cycle of life in the sea. Two lectures and one laboratory period (at the Marine Biological Laboratory, Waikiki), a week. Laboratory fee $3.

200 **BOTANICAL PROBLEMS**
Mr. Papenfuss

First semester, credit by arrangement; repeated second semester.

Pursuit of any advanced botanical problem; reading and laboratory work. May be taken repeatedly. Prerequisite: consent of instructor concerned. Laboratory fee $1.

202 **TAXONOMY AND EXPLORATION**
Mr. St. John

Second semester only; 3 credits.

Taxonomy of Hawaiian vascular plants, their occurrence and use; account of botanical exploration of Hawaii; literature on Pacific floras. One lecture and 2 laboratory periods a week. Prerequisite: Botany 102. Laboratory fee $2.

203 **PLANT ECOLOGY**
Mr. St. John

Second semester only; 4 credits. (Alternate years.)

Plants in relation to environment, the climatic and geographic factors; plant sociology, the origin, development, structure, and succession of plant societies. Two lectures and 2 laboratory periods a week. Prerequisite: Botany 102. Laboratory fee $3.

254 **ADVANCED TAXONOMY**
Mr. St. John

First semester only; 2 or more credits.

Synopsis of lower Dicotyledons from Piperaceae to Rosaceae, with laboratory study of important families; plant distribution and independent identification of collections. Qualified students may do part of their work in the Bishop Museum herbarium. One lecture and one or more laboratory periods a week. Prerequisites: Botany 102 and 202. Laboratory fee $1.

260 **MEDICAL BACTERIOLOGY**
Mr. Allen, Mr. Sia

First semester only; 4 credits.

Relation of microorganisms to disease; major groups of pathogenic bacteria, yeasts, and molds, and their methods of producing disease in man and animals. Two lectures and 2 laboratory periods a week. Recommended for students preparing for nursing and medicine. Prerequisite: Botany 151. Laboratory fee $5.

269 **PLANT ANATOMY**
Mr. Engard

First semester only; 3 credits. (Alternate years.)

Structure of vascular plants; origin and differentiation of tissues; relation of structure to function. One lecture and 2 laboratory periods a week. Prerequisites: either (1) Botany 100 and Zoology 100 or (2) Botany 101. Desirable preparation: Botany 268 or Zoology 262. Laboratory fee $4.

300 **BOTANICAL RESEARCH**
Mr. Papenfuss

Credit by arrangement.

Prerequisite: consent of instructors.

310 **BOTANICAL SEMINAR**
Staff

Year course; 1 credit each semester.

Presentation of seminar reports on research, or reviews of current botanical literature. May be taken repeatedly.

351 **PLANT PHYSIOLOGY SEMINAR**
Mr. Clements

Second semester only; 1 credit.

Discussion of topics of particular interest to the group. May be repeated several times.

360 **IMMUNOLOGY**
Mr. Allen, Mr. Sia

Second semester only; 3 credits.

Lectures and discussions dealing with natural, active, and passive types of immunity to specific diseases; common diagnostic serological reactions. Two lectures and one laboratory period a week. Prerequisite: Botany 260. Laboratory fee $3.
372 **Determinative Bacteriology**
Mr. Allen
Second semester only; 3 credits.
Survey of major systems of bacterial classification; review of methods useful in identification of unknown organisms. Two 2-hour lecture periods a week. Prerequisite: Botany 258 or 260.

400 **Thesis Research**
Credit by arrangement.

† **Frequently Offered but Not to Be Given in 1941-42:**
258 Agricultural Bacteriology—First semester only; 4 credits.
262 Mycology—First semester only; 3 credits.
263 Plant Pathology—Second semester only; 3 credits.
268 Microtechnique—Second semester only; 3 credits.
273 Plant Biophysics—First semester only; 3 credits.
274 Laboratory Technique in Plant Biophysics—First semester only; 2 credits.
275 Plant Biochemistry—Second semester only; 3 credits.
276 Laboratory Technique in Plant Biochemistry—Second semester only; 2 credits.

† **Offered When Demand Is Sufficient:**
160 Flower and Tree Identification—First semester only; 2 credits.
352 Microbial Decomposition of Plant Material (Seminar)—First semester only; 1 credit.
365 Taxonomy of the Dicotyledons—Second semester only; 1 credit.
367 Taxonomy of the Higher Dicotyledons—Second semester only; 1 credit.
370 Physiology of Bacteria—Second semester only; 3 credits.

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**Business**
*(See Economics and Business)*

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**Chemistry and Sugar Technology**


*Professor Dillingham, chairman*

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**CHEMISTRY**

Students majoring in chemistry must take Chemistry 101 (or 102), 149, 150, 171, 211, 212, 230, a year of college physics, and a year of college mathematics.

**101 General Chemistry**
Mrs. Bilger, Mr. Fujimoto
Year course; 4 credits each semester.
Introductory general chemistry for students without previous training in the subject. Three lectures or discussion periods and one laboratory period a week. Laboratory fee $7 each semester.

**102 General Chemistry**
Mr. Bilger, Mr. Holmes
Year course; 4 credits each semester.
A comprehensive survey designed for students who have had one year of chemistry in preparatory school. Three lectures or discussion periods and one laboratory period a week. Laboratory fee $7 each semester.

**149 Organic Chemistry**
Mrs. Bilger
Year course; 4 credits each semester.
A survey of the chemistry of the carbon compounds, including aliphatic, aromatic, alicyclic, and heterocyclic divisions. Three lectures and one 3-hour laboratory per week. Prerequisite: Chemistry 101 or 102. Laboratory fee $9 each semester.

[60]
150 **QUALITATIVE ANALYSIS**  
Mr. Holmes  
First semester only; 4 credits.  
Systematic qualitative analysis covering characteristic reactions, separation, and detection of common basic and acidic ions, principles of analysis, and theory of solutions. Two lectures and 2 laboratory periods a week. Prerequisite: Chemistry 101 or 102. Laboratory fee $8.

151 **QUANTITATIVE ANALYSIS, SHORT COURSE**  
Mr. Fujimoto, Mr. Holmes  
Second semester only; 4 credits.  
Principles of gravimetric and volumetric analysis. Two lectures and 2 laboratory periods a week. Prerequisites: Chemistry 101 or 102; 150. Laboratory fee $8.

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

211 **PHYSICAL CHEMISTRY**  
Mr. Bilger  
Year course; 3 credits each semester.  
Fundamental theories and principles of chemistry. Prerequisites: Chemistry 149, 230; concurrent registration in Chemistry 212.

212 **PHYSICAL CHEMISTRY LABORATORY**  
Mr. Bilger  
Year course; 1 credit each semester.  
Laboratory exercises in physical chemistry methods. One laboratory period a week. Prerequisite: credit or concurrent registration in Chemistry 211. Laboratory fee $6 each semester.

230 **QUANTITATIVE ANALYSIS**  
Mr. Fujimoto  
Year course; 3 credits each semester.  
Principles of gravimetric and volumetric analysis, colorimetric and electrometric methods of pH determinations. One lecture and 2 laboratory periods a week. Prerequisites: Chemistry 101 or 102; 150. Laboratory fee $8 each semester.

260 **BIOLOGICAL CHEMISTRY**  
Mr. Dillingham  
First semester only; 3 credits.  
Lectures, recitations, and supplementary reading on chemistry of food constituents, plant and animal life, and nutrition. Prerequisites: Chemistry 101 or 102; 149, 151.

262 **BIOLOGICAL CHEMISTRY LABORATORY**  
Mr. Dillingham  
First semester only; 1 credit.  
Experimental studies of proteins, fats, carbohydrates, enzymes, milk, urine. One laboratory period a week. Prerequisites: Chemistry 101 or 102; 149, 151. Laboratory fee $6.

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

281 **HISTORY OF CHEMISTRY**  
Mr. Bilger  
First semester only; 2 credits. (Alternate years.)  
Historical foundations of the facts and theories of chemistry, from the earliest times through alchemy to the present; emphasis upon achievements that led to new basic ideas; the personalities of great chemists. Prerequisites: Chemistry 149, credit or concurrent registration in Chemistry 230.

290 **INDEPENDENT STUDY IN CHEMISTRY**  
Staff  
Year course; 2 or 3 credits each semester.  
Reading and independent work on a problem in an advanced branch of chemistry, such as advanced agricultural, biological, organic, physical, or quantitative analysis. Prerequisites: Chemistry 149, 171, 230; credit or concurrent registration in Chemistry 211, 212; consent of instructors. Laboratory fee $6 each semester.

300 **CHEMISTRY RESEARCH**  
Staff  
Year course; credit by arrangement.  
Research in pure or applied chemistry. Prerequisites: Chemistry 149, 171, 230, or their equivalents; credit or concurrent registration in Chemistry 211, 212, 317, 350c, and consent of instructor concerned. Laboratory fee $10 each semester.
COURSES OF INSTRUCTION

310 Seminar in Chemistry
Year course; 1 credit each semester.
Recent advances in chemistry. Prerequisites: senior or graduate standing and credit or concurrent registration in Chemistry 211, 212. Required of graduate students working toward advanced degrees.

313 Selected Topics in Advanced Physical Chemistry
First semester only; 2 credits. (Alternate years.)
Phase rule, molecular structure, photochemistry, electrochemistry, and recent advances in physical and colloid chemistry. One lecture and one laboratory period a week. Prerequisites: Chemistry 211, 212. May be repeated if consent of instructor is obtained. Laboratory fee $6.

315 Chemical Literature
Year course; 1 or 2 credits each semester.
Study of articles in current chemical periodicals, reports on assigned topics. Prerequisites: Chemistry 149, 230. May be taken in conjunction with Chemistry 211, 212, 281, 300, 313, 317, 320, 350, 400.

317 Advanced Organic Chemistry
First semester only; 4 credits.
Special classes of organic substances, including dyes, alkaloids, terpenes, steroids, carbohydrates, proteins, and pigments; laboratory preparations to illustrate methods and unit processes in organic chemistry. Two lectures and two 3-hour laboratory periods a week. Prerequisites: Chemistry 217, senior or graduate standing.

350 Advanced Analysis
Credit by arrangement.
Advanced work in (a) quantitative analysis—Mr. Dillingham, (b) organic analysis—Mr. Holmes, (c) microanalysis—Mr. Fujimoto. Laboratory fee $8 a semester.

400 Thesis Research
Credit by arrangement.
Only graduate students engaged in the preparation of theses may register in this course. Prerequisites: Chemistry 149, 171, 230 or their equivalents; credit or concurrent registration in Chemistry 211, 212, 281, 310, and in one of the following—313, 317, 320, 350. Laboratory fee $10 each semester.

SUGAR TECHNOLOGY

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

201 Sugar Analysis
Year course; 3 credits each semester.
Apparatus for and methods of analysis of sugarhouse products and by-products. One lecture and 2 laboratory periods a week. Prerequisites: previous or concurrent registration in Chemistry 101 or 102; 150; and 151 or 230. Laboratory fee $7 each semester.

250 Sugarhouse Calculations
First semester only; 1 credit.
Instruction in sugarhouse calculations and in making out laboratory reports such as those required by plantations in Hawaii. Prerequisites: S.T. 201, 253.

252 Sugar Manufacture
First semester only; 3 credits.
Manufacture of sugar, with particular reference to Hawaiian principles and practice. Prerequisites: S.T. 201, 253.
253夏季工厂实习
Mr. Dillingham, Mr. Elliott

夏季完成大二学年的课程；6学分。
在糖厂工作4周，在管理下进行实习；我们需要提交一份完整的实习报告。先修课程：S.T. 201。学生通常在大二学年注册该课程。

255实习

Mr. Dillingham

第二学期；16学分。

作为学生助手，在夏威夷糖种植者协会的实验站工作。先修课程：所有其他课程要求为获得糖技术学位。通常在大四学年第二学期注册；如果先修课程未完成，则需要在下一年第一学期注册。

257工厂实习

Mr. Dillingham, Mr. Elliott

第二学期；16学分。

作为学徒在糖厂工作，在大四学年第二学期。先修课程：所有其他课程要求为获得糖技术学位。

汉语

（见东方语言）

经济学与商业


教授：Cameron

商务

150-151初级会计

Mr. Graham

学年课程；每学期3或4学分。

基本会计原则，包括单人业主、合伙人及公司的会计问题。选修3学分，如果已通过3学分的会计课程，则不需额外课程。先修课程：大二学年的会计学课程。

161初级商业法律

Mr. Hoeber

第一学期，3学分；第二学期重复。

法律的性质和来源；司法程序；商业法律的简要概述，强调合同和防止原则。

252-253中级会计

Mr. Delpech

学年课程；每学期3学分。

资产负债表：形式、内容及相关的资产折旧和资产估价问题；合并和编制合并财务报表。仅限于非注册学生。禁止学生注册本课程。先修课程：

1. 商务（1）150-151或（2）152-153；
2. 经济学（1）150-151，或（2）联系系主任或系主任。
COURSES OF INSTRUCTION

254  Cost Accounting
Mr. Graham
First semester only; 2 credits.
Elementary discussion of such aspects of cost accounting as sources of cost, cost units, cost gathering, and use of cost data. Prerequisites: credit or concurrent registration in one of the following—Business (1) 250-251, (2) 252-253; and one of the following—Economics (1) 150-151, (2) consent of instructor or department chairman.

255  Analysis of Financial Statements
Mr. Graham
Second semester only; 2 credits.
Analysis of the balance sheet and profit and loss account from the standpoint of the data to be derived from them bearing on the financial standing of business units as investment and credit possibilities. Prerequisites: (1) credit or concurrent registration in Business 150-151 or 152-153; and (2) Economics 150-151 or consent of instructor.

256  Income Tax Problems and Procedure
Mr. Graham
Second semester only; 2 credits.
Elementary study of the federal and territorial income tax laws and related accounting problems; individual, fiduciary, partnership, and corporation returns are prepared. Prerequisites: credit or concurrent registration in (1) Business 250-251 or 252-253 and (2) Economics 150-151.

259  Principles of Office Organization
Mr. Luke
Second semester only; 3 credits.
Importance; office activities; personnel; distribution of authority and responsibility; employment; compensation; measuring efficiency; procedure and layout; indexing and filing. Prerequisites: Economics 150-151, Business 150-151.

262  Principles of Insurance
Mr. Wagner
First semester only; 2 credits.
Contracts, types, and problems of carriers; state supervision of private insurance, insurance in state policy. Prerequisites: (1) Economics 150-151, Business 161 or (2) consent of instructor.

265  Corporation Finance
Mr. Wagner
Second semester only; 3 credits.
Determination of capital requirements; sources of and devices used to procure capital; marketing securities; control of capital disbursements; credit and income. Prerequisites: Economics 150-151 and either Business 150-151 or 152-153.

266  Investments and Investment Banking
Mr. Wagner
First semester only; 3 credits.
Economic theory and tests of investment; personnel of investors; investment credit analysis; mathematics of investment; tools of investment; types of investment institutions and their functioning. Prerequisites: Economics 150-151 and either Business 150-151 or 152-153.

270-271  Principles of Marketing
Mr. Taylor
Year course; 3 credits each semester.
General survey of the marketing structure, emphasizing marketing functions and channels, market analysis and research, and marketing policies. Prerequisites: Economics 150-151 and either Business 150-151 or 152-153.

275  Practice of Foreign Trade
Mr. Taylor
Second semester only; 3 credits.
Content of foreign trade, channels of distribution, export organizations, export selling methods and policies, documents, settling disputes, insurance, combinations in foreign trade, etc. Prerequisites: credit or concurrent registration in Economics 150-151 and Business 270-271.

280  Elements of Selling
Mr. Luke
First semester only; 3 credits.
Types of salesmanship; buying motives; personal sales methods; sales management—product, market, marketing methods, managing sales force, sales promotion and adjustment of product to market. Prerequisites: credit or concurrent registration in Economics 150-151 and Business 270-271.
282 Statistics
Second semester only; 3 credits.

The science; uses; characteristics; sources; gathering material; statistical units; collecting and tabulating data; diagrams, frequency tables, and graphs; averages; index numbers; comparison of variables. Prerequisite: junior standing.

286 Law of Sales
First semester only; 2 credits.

Formation and content of the contract; statute of frauds; price; conditions and warranties; transfer of property and title; performance; inspection and acceptance; unpaid seller's remedies; lien; stoppage in transit; resale and recession; seller's and buyer's remedies on the contract and conditional sales. Prerequisite: C or better in Business 161.

287 Law of Negotiable Instruments and Interest
Second semester only; 2 credits.

Checks, bills of exchange, and notes—acceptance, indorsement, transfer, extinguishment, obligations of parties, negotiable instruments act; interest, discount, usury, compound interest, and partial payments. Prerequisite: C or better in Business 161.

288 Law of Partnerships and Agency
First semester only; 2 credits.

Partnership—nature, formation, firm property, powers and duties of partners, remedies of creditors, dissolution; partnerships by estoppel; limited partnerships, business trusts, and joint-stock associations; agency—nature, appointment, liability of principal, liability of agent, undisclosed principal doctrines, delegation, termination, and ratification. Prerequisite: C or better in Business 161.

289 Law of Corporations
Second semester only; 2 credits.

Nature; promotion; underwriting agreements; stock subscriptions; promoters' contracts; issue of stock; corporate powers; de facto corporations; ultra virus action; relation to stockholders, directors, officers and agents; voting trusts; dissolution; reorganization. Prerequisite: C or better in Business 161.

291 Law of Personal Property
First semester only; 2 credits.

Nature; methods of acquiring and transferring; ownership and possession and their legal incidents; chattel mortgages; bailments; safe-deposit boxes; public carriers of goods. Prerequisite: C or better in Business 161.

292 Law of Real Property
Second semester only; 2 credits.

Nature; estates in; dower, curtesy and homestead; easements; adverse possession; deeds; recording acts; land court and registration; leases; rights and duties of landlord and tenant. Prerequisite: C or better in Business 161.

Frequently Offered but Not to Be Given in 1941-42:

152-153 Elementary Accounting—Year course; 3 credits each semester.
250-251 Intermediate Accounting—Year course; 3 credits each semester.
264 Principles of Business—First semester only; 3 credits.
273 Economics of Advertising—First semester only; 3 credits.
276 Economics of Retail Merchandising—Second semester only; 3 credits.

ECONOMICS

150-151 Principles of Economics
Year course; 3 credits each semester.

Principles underlying consumption, production, and distribution of wealth; analysis of important current economic problems. Prerequisite: sophomore standing.

223 History of Economic Institutions
Year course; 3 credits each semester.

Population and agricultural changes, labor and manufacturing systems, and transportation, trade, money, banking, and credit developments from earliest times, emphasizing causes and effects of changes. Prerequisite: junior standing.
COURSES OF INSTRUCTION

252 ECONOMIC PROBLEMS OF THE ORIENT
Mr. Taylor
Second semester only; 3 credits.
A survey of the economic institutions of the more important countries of the Orient, particularly Japan and China; analysis and evaluation of some of their outstanding economic problems and policies, such as population pressure, industrialization, and government control of industry. Prerequisite: Economics 150-151 or consent of instructor.

254 ECONOMIC PROBLEMS OF EUROPE
Mr. Taylor
First semester only; 3 credits.
Postwar domestic and international economic problems and policies of the more important European countries, especially those of the United Kingdom, France, Germany, and Russia. Prerequisite: Economics 150-151 or consent of instructor.

256 MONEY, CREDIT, AND PRICES
Mr. Wagner
First semester only; 3 credits.
Nature, history, and kinds of money; characteristics of credit; monetary system of the United States; monetary standards; value of money; relation of money and credit to prices. Required of all majors in the department. Prerequisite: Economics 150-151.

257 BANKING
Mr. Wagner
Second semester only; 3 credits.
Nature and history of banking; the banking system of the United States, including commercial banks, trust companies, savings banks, and related banking institutions. Required of all majors in the department. Prerequisites: Economics 150-151, 256.

261 PUBLIC FINANCE
Mr. Wagner
Second semester only; 3 credits.
Analysis of the business cycle, and proposed remedies; assumptions, methods involved, and statistical data used in business forecasting; forecasting services; applicability of forecasts to specific cases. Prerequisite: Economics 150-151.

265 INTERNATIONAL FINANCE
Mr. Taylor
First semester only; 3 credits.
International loans and investments; the instruments, technique and organization of foreign exchange; monetary standards; foreign exchange; manipulation of exchange by national governments. Prerequisites: credit or concurrent registration in Economics 256 and 257.

270 PUBLIC UTILITIES
Mr. Cameron
First semester only; 3 credits.
Public utilities exclusive of railroads, waterways, and highways; economic characteristics; history; legal organization; promotion; operating characteristics; accounting methods; regulation—its common law and constitutional basis; state and local regulation. Prerequisite: Economics 150-151.

276 TRUSTS AND INDUSTRIAL COMBINATIONS
Mr. Hoeber
First semester only; 3 credits.
Movement toward; devices used to effect; evaluation; government control. Prerequisite: Economics 150-151.

281 LABOR PROBLEMS AND ORGANIZATION
Mr. Wagner
First semester only; 3 credits.
Historical background; unemployment; industrial accidents and diseases; superannuation; wages; hours; substandard workers; unionism, cooperation, and socialism. Prerequisite: Economics 150-151.
282 LABOR MANAGEMENT AND LEGISLATION Mr. Wagner
Second semester only; 3 credits.
Special incentive and benefit plans; joint relations; personnel management; em­
ployers' associations; employment exchanges; social security and wages and hours
legislation; National Labor Relations Act; investigation, mediation, and arbitra­
tion. Prerequisite: Economics 150-151.

285 THEORY AND CONTROL OF FOREIGN TRADE Mr. Taylor
First semester only; 3 credits.
Major changes in world trade during the 20th century; survey of the theory of
international trade and its control by tariffs, commercial treaties, etc. Prerequisite:
Economics 150-151.

288 RISK, RISK-BEARING, AND SPECULATION Mr. Wagner
First semester only; 3 credits.
Study of risks arising from economic processes and hazards such as fire, accident,
and death, and of institutions, such as insurance and speculation, devised to meet
them. Prerequisite: Economics 150-151.

291 AGRICULTURAL ECONOMICS Mr. Cameron
Second semester only; 3 credits.
History of agriculture, rural life, and population, tenancy, farm labor, large vs.
small farms, mechanization, cooperation, agricultural credit, and government assist­
ance. Prerequisite: Economics 150-151 or consent of instructor.

296 RECENT ECONOMIC THOUGHT Mr. Hoeber
Second semester only; 3 credits.
General survey of economic thought from John Stuart Mill to the present time;
emphasis on value and distribution. Prerequisites: junior standing and B or better
in Economics 150-151 or permission of instructor.

FREQUENTLY OFFERED BUT NOT TO BE GIVEN IN 1941-42:
273 Ocean Transportation—Second semester only; 3 credits.

ECONOMICS AND BUSINESS GRADUATE COURSES

300 READING AND RESEARCH Staff
Year course; credit by arrangement.
Open only to qualified graduate students.

400 THESIS RESEARCH
Credit by arrangement.
Only graduate students engaged in the preparation of theses may register in this
course.

Education
(See Teacher Education)

Engineering

Professors Arthur R. Keller, M.S., Carl B. Andrews, M.S.; Assistant Professors
Wilfred J. Holmes, M.S., Joel B. Cox, Eng.; Instructors Kenichi Watanabe, Ph.D.,
William M. Cade, M.S.; Assistant Shigeo Okubo, M.S.; Lecturers E. C. Holtzworth,
Lt. (CC), U.S.N., P. W. Pfingstag, Lt. (CC), U.S.N.

Professor Andrews, chairman

CIVIL ENGINEERING (C.E.)

C.E. 101 PLANE SURVEYING Mr. Andrews, Mr. Cade
Year course; 3 credits each semester.
Use of chain, tape, level, and transit; map platting and computations; lectures on
Hawaiian land descriptions. One lecture and 2 field or drafting periods weekly.
Prerequisites: credit or concurrent registration in Mechanical Drawing 101, Math­
ematics 151. Laboratory fee $2 each semester.
COURSES OF INSTRUCTION

C.E. 151 GRAPHICAL STATICS
Mr. Andrews
Second semester only; 2 credits.
Determination of stresses in framed structures by the graphical method; stresses in roof and bridge trusses under vertical and inclined loads. Prerequisite: Mechanical Drawing 101.

C.E. 153 ROADS AND PAVEMENTS
Mr. Keller
Second semester only; 2 credits.
Construction and maintenance of various types of city streets and rural highways. Prerequisites: Civil Engineering 101, Mechanical Drawing 101.

C.E. 227 ROUTE SURVEYING
Mr. Cox
Year course; 3 credits each semester.
Reconnaissance; preliminary survey; paper location; curve computations; field location; plating profiles; determining grade lines; earthwork computations for location of railroad or highway. One 7-hour continuous period a week. Prerequisites: Civil Engineering 101, 153, Mathematics 155.

C.E. 229 MUNICIPAL ENGINEERING
Mr. Keller
Year course; 3 credits each semester.
City water supply; waterworks; fire protection; methods of treating water used for a public supply; sewage and garbage disposal; sewage treatment; disposal of storm water.

C.E. 231 SOIL MECHANICS
Mr. Andrews
Year course; 2 credits each semester.
Physical factors in earth pressure phenomena; soil phenomena in earthwork operations and foundation work.

C.E. 252 ANALYTICAL AND APPLIED MECHANICS
Mr. Andrews
First semester only; 4 credits.
Effect of forces on bodies, both at rest and in motion. Prerequisite: Mathematics 155.

C.E. 253 STRUCTURAL MECHANICS
Mr. Andrews
Second semester only; 4 credits.
Action and effect of internal stresses in bodies and members of structures. Prerequisite: Civil Engineering 252.

C.E. 255 HYDRAULICS
Mr. Holmes
Second semester only; 3 credits.
Water pressure, strength of pipe, stability of gravity dams; water flow through orifices, nozzles, and weirs; manometers, Pitot tubes and Venturi meters; steady flow in pipes and open channels. Prerequisites: credit or concurrent registration in Civil Engineering 252, 253.

C.E. 257 RAILWAY TRACK, TURNOUTS, AND ACCESSORIES
Mr. Andrews
Second semester only; 2 credits.
Railway track, turnouts, crossings, crossovers, and accessories; maintenance of railway tracks and structures. Prerequisite: credit or concurrent registration in Civil Engineering 227.

C.E. 259 HIGHER SURVEYING
Mr. Andrews
Second semester only; 3 credits.
Topographic surveying; triangulation; base line measurement; precise leveling; least squares computations; theory and use of the plane table, sextant, solar attachment, precise level, and theodolite. Two lectures and one laboratory period a week. Prerequisites: Civil Engineering 101, Mathematics 156.

C.E. 260 HIGHWAY ECONOMICS
Mr. Keller
First semester only; 2 credits.
Continuation of Civil Engineering 153; economics of road building; methods of paving for road construction; detailed design of highways and city streets. Prerequisite: Civil Engineering 153.

C.E. 276 STRUCTURAL DESIGN
Mr. Cade
First semester only; 3 credits.
Stress computation and design of plate girders and steel building trusses and other structural members; complete detail drawings and specifications, carefully supervised and checked. Prerequisite: Civil Engineering 253.
C.E. 277 BRIDGE DESIGN Mr. Cade
Second semester only; 3 credits.
Design of a single track through bridge for a given conventional loading, including all computations, drawings, and specifications. Prerequisite: Civil Engineering 276.

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

C.E. 280 WATER ANALYSIS Mr. Keller
Year course; 3 credits each semester.
Standard methods of making physical, chemical, and bacteriological examinations of water and sewage. Laboratory. Prerequisite: credit or concurrent registration in Civil Engineering 229.

C.E. 288 ARCHES Mr. Andrews
First semester only; 2 credits.
Design and investigation of stability of a symmetrical masonry arch; drawing of equilibrium polygons for various loadings. Prerequisites: Civil Engineering 252, 253.

C.E. 289 SOIL MECHANICS LABORATORY Mr. Andrews
Second semester only; 1 credit.
Determination of Atterberg Limits, grain size distribution, permeability, expansion and compression indices, slaking time, specific gravity, water content; other routine laboratory determinations. Prerequisite: credit or concurrent registration in Civil Engineering 231.

MECHANICAL DRAWING (M.D.)

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

M.D. 152 DESCRIPTIVE GEOMETRY Mr. Watanabe
First semester only; 3 credits.
Geometry of engineering drawing; analysis and design of structures; intersections and development of surfaces. Prerequisite: Mechanical Drawing 101.

MECHANICAL ENGINEERING (M.E.)

M.E. 150 OFFICE AND SHOP METHODS Mr. Andrews
First semester only; 2 credits.
Machines and tools used in pattern, forge, machine, and boiler shops; office methods, cost keeping, estimating, and economic comparisons of structures.

M.E. 202 MATERIALS OF ENGINEERING Mr. Holmes
First semester only; 2 credits.
Properties of cements, limes, and plasters, plain and reinforced concrete; methods of manufacture and standard tests for quality. Prerequisites: Mathematics 155, Mechanical Drawing 152.

M.E. 203 MATERIALS OF ENGINEERING Mr. Holmes
Second semester only; 2 credits.
A continuation of Mechanical Engineering 202; properties and requirements of wood, iron, steel, and other metals. Prerequisite: Mechanical Engineering 202.

M.E. 282 STEAM MACHINERY Mr. Holmes
First semester only; 3 credits.
Fundamental laws governing transformation of heat into work; properties of gases, laws of expansion, heat measurement, mechanical equivalent of heat, properties of steam, steam tables. Prerequisites: Mathematics 155, Physics 102 or 150, 151.
COURSES OF INSTRUCTION

M.E. 283 DIESEL ENGINES  Mr. Holmes
Second semester only; 2 credits.
Elementary thermodynamics of the Diesel engine; comparison of various types; mechanical and thermodynamic characteristics of commercial Diesels from the literature of the manufacturers. Prerequisite: Mechanical Engineering 282 or consent of instructor.

M.E. 285 CONTRACTS AND SPECIFICATIONS  Mr. Keller
Second semester only; 2 credits.
Essential points of value to engineers; such principles of law as should be understood by the engineer who is entrusted with the drawing of contracts. Prerequisite: Mechanical Engineering 282 or Civil Engineering 229.

M.E. 287 BASIC THEORETICAL NAVAL ARCHITECTURE  Mr. Pfingstag
Second semester only; 3 credits.
Basic ship calculations of displacement, centers of gravity, centers of flotation, metacenters, stability; fundamentals of resistance and power; launching calculations; longitudinal strength calculations. Prerequisite: junior standing or consent of instructor.

M.E. 289 THEORETICAL NAVAL ARCHITECTURE  Mr. Holtzworth
Second semester only; 3 credits.
The theory of riveting and welding as applied to ships; design of auxiliary machinery; structural design, including decks, bulkheads, columns, shell plating and framing, and strength of plating in compression. Prerequisites: Mechanical Engineering 287 or equivalent and consent of instructor.

EXPERIMENTAL ENGINEERING (X.E.)

X.E. 202 MATERIALS LABORATORY  Mr. Holmes, Mr. Okubo
First semester only; 1 credit.
Testing cements, concrete, reinforced concrete, and aggregates used in making concrete; operation and calibration of testing machines. Prerequisite: Mechanical Engineering 202. Laboratory fee $2.50.

X.E. 203 MATERIALS LABORATORY  Mr. Holmes, Mr. Okubo
Second semester only; 1 credit.
Continuation of Experimental Engineering 202 in testing laboratory practice; various tests of timber and metals. Prerequisite: Experimental Engineering 202. Laboratory fee $2.50.

X.E. 204 MATERIALS LABORATORY  Mr. Holmes, Mr. Okubo
First semester only; 1 credit.
A continuation of Experimental Engineering 202 and 203 for students who wish to make tests not ordinarily included in routine testing work. Prerequisite: Experimental Engineering 203. Laboratory fee $2.50.

English


Courses in English are listed in seven groups: Special Speech Courses, Composition, Journalism, Literature, Professional Courses, Speech, and Graduate Courses in Literature and Speech.
A student deficient in oral English must complete successfully one or more of the Special Speech Courses, according to the nature of his deficiencies. A student deficient in composition must take without credit 2 hours a week of composition laboratory in addition to the regular freshman composition course.

**SPECIAL SPEECH COURSES**

**A  ORAL ENGLISH FOR FOREIGN STUDENTS**

Staff

Year course; no credit.

Required of students who are not citizens of the United States and whose speech falls below a certain standard. Fee $10 a semester.

**30  SPEECH IMPROVEMENT**

Staff

Year course; no credit.

Required of freshmen and certain other students whose speech is seriously below standard. Fee $1 a semester.

**35  PRACTICAL SPEAKING**

Staff

Year course; no credit.

Required of students whose speech is slightly below standard. Fee $1 a semester.

**COMPOSITION**

English 100 or 102 is a prerequisite to all other English courses except English 30, 35, 130, and 134.

**100  COMPOSITION**

Staff

Year course; 3 credits each semester.

Principles and practice of composition; conferences for personal criticism. Required during the freshman year of all students in the University; students deficient in composition are required to attend English 100 Laboratory for 2 hours a week without additional credit.

**102  COMPOSITION**

Mr. Neil

Year course; 3 credits each semester.

Parallels English 100, but stresses writing and reading rather than the mechanics of composition; restricted to students making high scores in entrance examination.

**110  ENGLISH APPLIED IN TECHNICAL WRITING**

Mr. Wilcox

Year course; 3 credits each semester.

Principles of technical exposition; composition and analysis of reports, papers, and selected types of business letters; supplementary readings in the literature of science.

**210-211  ADVANCED COMPOSITION AND LITERATURE FOR BUSINESS AND ECONOMICS MAJORS**

Mr. Larson

Year course; 3 credits each semester.

First semester: business letters and reports, reading and discussion of literary masterpieces; second semester: advertising, publicity, business speaking, and the study of literature. Required of, and limited to, majors in Economics and Business.

**218-219  CREATIVE WRITING**

Mr. Wilson

Year course; 3 credits each semester.

Advanced composition in various types of prose.

† FREQUENTLY OFFERED BUT NOT TO BE GIVEN IN 1941-42:

216 The One-Act Play—First semester only; 2 credits.

217 The Short Story—Second semester only; 2 credits.

**JOURNALISM**

**120-121  NEWS WRITING**

Mr. Orne

Year course; 3 credits each semester.

An introduction to journalism, with emphasis on reporting and with practice in news writing; some work on *Ka Léo*. Prerequisite: either (1) *B* or better in English 100 or 102 or (2) consent of instructor. May be entered in the second semester if consent of instructor is procured.
222 ELEMENTS OF PUBLISHING
First semester only; 1 credit.
Mr. Orne
Printing processes, type faces, typographical display, type calculations, illustration processes. Saturday morning course designed for students of journalism, business, and teacher education.

223 NEWS EDITING
Second semester only; 2 credits.
Mr. Orne
Copyreading, headline writing, news display, use of illustrations. Prerequisite: English 222 or consent of instructor.

224 SCHOOL NEWSPAPER
First semester only; 1 credit.
Mr. Orne
Objectives of school journalistic activities; the adviser’s functions; staff organization; preparation of copy; make-up. Saturday morning course designed for advisers and students in teacher education.

229 PROSEMINAR IN JOURNALISM
First semester, 1 credit; repeated second semester.
Mr. Orne
Conferences, assigned reading, and individual studies related to students’ work on Ka Leo. May be repeated until an aggregate of 4 credits has been earned. Prerequisite: consent of instructor.

LITERATURE

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

156 INTRODUCTION TO GENERAL LITERATURE
Year course; 3 credits each semester.
Staff
The chief types of literature, including biography, drama, prose, fiction, and poetry; emphasis on the appreciation of literary excellence. Prerequisite: English 100 or 102.

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

250-251 EUROPEAN MASTERS
Year course; 3 credits each semester.
Mr. Sinclair
A study of the writings in translation of 16 European masters from Dante to Ibsen.

260-261 AMERICAN LITERATURE
Year course; 3 credits each semester.
Mr. Stroven
A chronological survey of American literature from colonial times to the 20th century; special attention to the main currents of American thought and culture.

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

270-271 THE ENGLISH NOVEL FROM ITS BEGINNINGS TO THE PRESENT
Year course; 3 credits each semester.
Mr. Neil
A chronological and critical survey of the development of the English novel; reports on the works of the leading novelists.

272-273 ENGLISH DRAMA FROM ITS BEGINNINGS TO THE PRESENT
Year course; 3 credits each semester.
Mr. Wilson
A chronological and critical survey of English drama, including a consideration of the development of dramatic forms and the work of major playwrights.

274 THE AGE OF CHAUCER
First semester only; 3 credits.
An introduction to medieval thought as exemplified in European and English literature.
276-277 Shakespeare
Year course; 3 credits each semester.
First semester, Shakespeare's histories and comedies; second semester, Shakespeare's tragedies.

280-281 The 17th Century
Year course; 3 credits each semester.
First semester, the poetry of Milton; second semester, prose writings of the 17th century.

282-283 The 18th Century
Year course; 3 credits each semester.
The influence on later literature of the ascendancy of science and the middle class in England.

284-285 The 19th Century
Year course; 3 credits each semester.
First semester, poetry and prose of the Romantic Movement; second semester, later 19th century writers.

296 The Development of Modern English
First semester only; 2 credits.
The historical development of modern usage in pronunciation, spelling, and grammar.

Frequently Offered but Not to Be Given in 1941-42:
252 World Literature—Year course; 3 credits each semester.
265 The Bible as Literature—Year course; 3 credits each semester.
275 Elizabethan Literature—Second semester; 3 credits.
288 The 20th Century—Year course; 3 credits each semester.
289 Literary Criticism—First semester; 3 credits.

Professional Courses
The following courses offered in Teachers College are open only to students in that college. (For descriptions see Teacher Education, English for Teachers.)
152 General English
Mr. Coale, Mr. Wilcox, Mr. LeRoy

290-291 English in the Elementary School
Mr. Coale

292-293 English in the Secondary School
Mr. Coale

294-295 Literature for the Elementary School
Mrs. Geiser

Speech

130 Fundamentals of Public Speaking
Mr. Larson, Mr. Abel
First semester, 3 credits; repeated second semester.
The fundamentals of action, projection, self-control before audiences; outlining and speech organization; platform speaking throughout the course.

132 Argumentation and Debate
Mr. Chapin
First semester only; 3 credits.
The technique of constructing effective arguments; emphasis on analysis, reasoning, brief drawing, evidence, and persuasion; practice in argumentative speaking. Prerequisite: English 130.

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

138 Dramatic Reading
Mr. Ernst
Year course; 2 credits each semester.
An elementary course in the oral reading of great plays, with emphasis on those plays discussed in English 150, 152, 156, and 272-273.

140 Play Production
Mr. Wyman
Year course; 3 credits each semester.
Lectures and laboratory work in scene design, painting, construction, lighting, properties, costumes, and stage management; limited to 10 students. Prerequisite: consent of instructor.
### COURSES OF INSTRUCTION

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Credits</th>
<th>Description</th>
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<tbody>
<tr>
<td>146</td>
<td>Dramatics Laboratory</td>
<td>Mr. Wyman</td>
<td>1 credit each semester</td>
<td>A laboratory course in dramatic interpretation and stage management, using University Theatre Guild productions as material.</td>
</tr>
<tr>
<td>230</td>
<td>Advanced Oral Interpretation</td>
<td>Mrs. Bukeley</td>
<td>3 credits</td>
<td>Oral interpretation of various forms of literature; emphasis on development of the speaking voice, articulation, and pronunciation. Prerequisites: English 134 or 138; consent of instructor.</td>
</tr>
<tr>
<td>237</td>
<td>Business and Professional Speaking</td>
<td>Mr. Chapin</td>
<td>2 credits</td>
<td>A study of model speeches and practice in the preparation of sales talks, group discussions, business conferences, formal addresses, after-dinner speeches, and other speeches of courtesy; designed for economics and business students. Prerequisite: junior standing.</td>
</tr>
<tr>
<td>240</td>
<td>Speech Improvement Laboratory</td>
<td>Miss Henderson</td>
<td>1 credit; repeated second semester</td>
<td>Observation of English 30 classes; training in classroom techniques; open only to Teachers College students.</td>
</tr>
<tr>
<td>246</td>
<td>Elementary Acting</td>
<td>Mr. Wyman</td>
<td>3 credits</td>
<td>Discussions and practical work demonstrating the fundamental principles of acting. Prerequisite: consent of instructor.</td>
</tr>
<tr>
<td>247</td>
<td>Elementary Directing</td>
<td>Mr. Wyman</td>
<td>3 credits</td>
<td>Emphasis on stage speech, stage presence, characterization, and pantomime. Prerequisites: English 246 and consent of instructor.</td>
</tr>
<tr>
<td>249</td>
<td>Proseminar in Oratory and Forensics</td>
<td>Mr. Larson</td>
<td>2 credits each semester</td>
<td>Directed research in oratory, debating, and materials of proof and persuasion. Prerequisites: English 130, 132, consent of instructor.</td>
</tr>
<tr>
<td>297</td>
<td>The Sounds of English</td>
<td>Miss Henderson</td>
<td>2 credits each semester</td>
<td>The speech apparatus as it functions in the production of speech sounds, and the correction of functionally defective speech.</td>
</tr>
<tr>
<td>299A</td>
<td>Techniques of Speech Improvement in the Elementary School</td>
<td>Miss Henderson</td>
<td>2 credits</td>
<td>General speech problems of the schools of Hawaii; materials adapted to the elementary grades and the techniques for their application. Prerequisite: English 297 or its equivalent.</td>
</tr>
<tr>
<td>299B</td>
<td>Techniques of Speech Improvement in the Secondary School</td>
<td>Miss Henderson</td>
<td>2 credits</td>
<td>Speech problems of secondary schools in Hawaii; materials and techniques adapted to their solution. Prerequisite: English 297 or its equivalent.</td>
</tr>
</tbody>
</table>

### GRADUATE COURSES IN LITERATURE AND SPEECH

<table>
<thead>
<tr>
<th>Course Code</th>
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</tr>
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<tbody>
<tr>
<td>300</td>
<td>Directed Research</td>
<td>Staff</td>
<td>credit by arrangement</td>
<td>Directed research in (a) American literature, (b) English literature, (c) Speech. May be repeated until an aggregate of 6 credits has been earned.</td>
</tr>
</tbody>
</table>
302 **THE SPEECH CLINIC**

Miss Henderson

Year course; 2 credits each semester.

Supervised practice in the correction of defective speech. Prerequisites: English 297, 298, or their equivalents. May be repeated until an aggregate of 6 credits has been earned.

340 **TEACHING REMEDIAL COMPOSITION**

First semester, 1 credit; repeated second semester.

Supervised participation in the conduct of the English Composition Laboratory. For Teachers College students only.

350 **SEMINAR**

Mr. LeRoy, Mr. Chapin

Year course; 2 credits each semester.

(a) Literature—Mr. LeRoy, (b) Speech (subject for 1941-42: An Analytical Study of Propaganda and Censorship)—Mr. Chapin. May be repeated until an aggregate of 6 credits has been earned.

400 **THESIS RESEARCH**

Staff

Credit by arrangement.

Only graduate students engaged in the preparation of theses may register in this course.

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**French**

(See Romance Languages)

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**Geography**

*Associate Professor* John Wesley Coulter, Ph.D.; *Assistant Professor* Stephen B. Jones, Ph.D.

150 **ELEMENTS OF GEOGRAPHY**

Mr. Coulter, Mr. Jones

First semester, 3 credits; repeated second semester.

Relationship of people to their natural environment.

151 **ECONOMIC GEOGRAPHY**

Mr. Coulter, Mr. Jones

First semester, 3 credits; repeated second semester.

Relationship of production and distribution of industrial raw materials to natural environment.

200 **GEOGRAPHY OF OAHU (FIELD COURSE)**

Mr. Coulter

First semester, 2 credits; repeated second semester.

Trips to areas illustrating salient features of natural, human, and economic geography. One afternoon a week. Prerequisite: consent of instructor.

202 **MAPS AND MAP READING**

Mr. Jones

Second semester only; 2 credits.

History of maps, map projections, reading of topographic maps, economic and social maps.

252 **GEOGRAPHY OF NORTH AMERICA**

Mr. Coulter

First semester only; 3 credits.

Major geographic regions of North America; relationship between principal economic activities and natural environment. Prerequisite: junior standing or one of the following—Geography 150, 151, 261, Geology 150.

255 **GEOGRAPHY OF ASIA**

Mr. Coulter

Second semester only; 3 credits.

Geographic regions of Asia. Prerequisite: junior standing or one of the following—Geography 150, 151, 261, Geology 150.

258 **GEOGRAPHY OF EUROPE**

Mr. Jones

First semester only; 3 credits.

Geographic regions of Europe; areas of political and historical significance.
COURSES OF INSTRUCTION

261 OCCUPATIONAL GEOGRAPHY  Mr. Jones
(For description, see Teacher Education, Geography for Teachers.)

262 GEOGRAPHY OF HAWAII  Mr. Coulter
First semester only; 2 credits.
Natural environment; economic activities of the people. Prerequisite: one course in geography or junior standing.

263 GEOGRAPHY OF PACIFIC ISLANDS  Mr. Coulter
Second semester only; 2 credits.
The islands of the Pacific (except Hawaii). Prerequisite: one course in geography or junior standing.

290 INDEPENDENT STUDY  Mr. Coulter, Mr. Jones
Credit by arrangement.
Prerequisite: consent of instructor concerned.

300 DIRECTED RESEARCH  Mr. Coulter, Mr. Jones
Year course; 2 credits each semester.
Prerequisite: consent of instructor concerned.

400 THESIS RESEARCH  Mr. Coulter, Mr. Jones
Credit by arrangement.
Only graduate students engaged in the preparation of theses may register in this course.

*FREQUENTLY OFFERED BUT NOT TO BE GIVEN IN 1941-42:
204 Weather—First semester only; 3 credits.
205 Climate—Second semester only; 3 credits.
271 Political Geography—Second semester only; 3 credits.

Geology

Professor Harold S. Palmer, Ph.D.

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

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

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

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

255 GEOLOGY OF GROUND WATER  Mr. Palmer
Second semester only; 2 credits.
Origin, amount, circulation, recovery, and quality of ground water. Prerequisite: Geology 150. Laboratory fee $1.

261 CRYSTALLOGRAPHY  Mr. Palmer
Second semester only; 1 credit.
Geometrical laws of crystals, crystallographic systems, and chief crystal forms. One combined lecture and laboratory period a week. Prerequisite: consent of instructor.

290 INDEPENDENT STUDY  Mr. Palmer
Credit by arrangement.
Prerequisite: consent of instructor.
GERMAN—HAWAIIAN

300 GRADUATE GEOLOGY
First semester, credit by arrangement; repeated second semester.
Special work on the graduate level. Prerequisite: consent of instructor.

† FREQUENTLY OFFERED BUT NOT TO BE GIVEN IN 1941-42:
260 Physiographic Regions of the United States—First semester only; 3 credits.
262 Volcanology—Second semester only; 2 credits.

German

Assistant Professors Maria Hörmann, B.A., Bertha Mueller, Ph.D.

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

101 INTERMEDIATE GERMAN
Year course; 3 credits each semester.
Continuation of grammar; vocabulary building through discussion of pictures; reading and practice of sight reading.

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

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

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

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

† FREQUENTLY OFFERED BUT NOT TO BE GIVEN IN 1941-42:
200 Classical Literature—Year course; 3 credits each semester.

Hawaiian

Professor Henry P. Judd, B.A.

100 ELEMENTARY HAWAIIAN
Year course; 3 credits each semester.
Elements of the language.

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

200 ADVANCED HAWAIIAN
Year course; 3 credits each semester.
Composition; reading of Hawaiian antiquities.

250-251 GREAT LEADERS OF HAWAII
Year course; 1 credit each semester.
A biographical approach to the study of Hawaiian history.

280-281 SEMINAR IN HAWAIIAN
Year course; 1 credit each semester.
COURSES OF INSTRUCTION

Health and Physical Education


Mr. Gill
Mr. Llambias
Mr. Kaulukukui
Mr. Yempuku

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

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

All freshman men are required to take Health and Physical Education 100. Freshman women take 102. Sophomore men and women must take 105, and have a choice of courses numbered 110 to 140 in the alternate semester. The lower division health and physical education courses (100 to 199) may not be taken by juniors and seniors except where needed to fulfill graduation requirements, or by special permission of the dean of the college concerned.

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

FRESHMAN COURSES

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

102 Individual and Team Sports (Women)  
Year course; 1 credit each semester.
Similar to 100, designed for women students; activities engaged in are basketball, volleyball, hockey, soccer, tennis, and swimming.

104 Corrective Work  
First semester, 1 credit; repeated second semester.  
Light and corrective exercises for students whose physical examinations indicate the inadvisability of more active exercise.

SOPHOMORE COURSES

Required

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

Choice of one of the following:

Each course is given the first semester, for 1 credit; repeated the second semester. Two class meetings weekly.

110 Football, Speedball (Men)  
Mr. Gill

111 Tumbling (Men)  
Mr. Llambias

112 Basketball (Men)  
Mr. Kaulukukui

113 Baseball (Men)  
Mr. Llambias

114 Weight Lifting (Men)  
Mr. Yempuku

115 Tennis (Men)  
Mr. Kaulukukui

116 Swimming (Men)  

117 Judo (Men)  

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HEALTH AND PHYSICAL EDUCATION

118 **HANDBALL, BADMINTON** (Men)  
119 **APPARATUS** (Men)  
120 **SOCCER, SPEEDBALL** (Women)  
121 **BASKETBALL, VOLLEYBALL** (Women)  
122 **BASEBALL, HOCKEY** (Women)  
123 **BOWLING** (Women)  
124 **TENNIS** (Women)  
125 **SWIMMING** (Women)  
126 **RIFLE** (Women)  
131 **ARCHERY** (Men and Women)  
132 **CLOG AND TAP DANCING** (Men and Women)  
133 **LIFE SAVING** (Men and Women)

ADVANCED AND PROFESSIONAL COURSES

200 **FIRST AID**  
First semester only; 1 credit.  
Prevention and treatment; emergency care of accidental injury; special reference to school and playground; practical work in the use of bandage and splints.

220 **PHYSICAL EDUCATION IN THE PRIMARY SCHOOL YEARS**  
First semester only; 2 credits.  
Methods, materials, and activities for the primary grades of the elementary school. Three class periods a week.

221 **PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOL**  
Second semester only; 2 credits.  
Methods, materials, and activities for the upper grades of the elementary school. Three class periods a week.

222 **PRINCIPLES OF PHYSICAL EDUCATION**  
First semester only; 2 credits.  
Influences shaping the physical education program; nature and purpose of the program; motivation and method; character development; leadership; principles of curriculum making.

223 **PUBLIC SCHOOL HEALTH**  
First semester, 2 credits; repeated second semester.  
The field of health education; principles governing health; methods and materials for teaching health; problems of administration of the health program.

224 **THEORY OF MAJOR SPORTS** (Men)  
Second semester only; 3 credits.  
Theory and practice of major sports (football, basketball, baseball, track); fundamentals of offensive and defensive tactics, play in various positions, strategy, organization.

225 **THEORY OF MINOR AND INDIVIDUAL SPORTS** (Men)  
Second semester only; 2 credits.  
Similar to Health and Physical Education 224, with emphasis upon minor sports (volleyball, soccer, tennis, speedball, swimming).

226 **ACTIVITY TEACHING TECHNIQUES** (Men)  
First semester only; 2 credits.  
Theory and practice in teaching calisthenics, games of low organization, tumbling, gymnastics, pyramids.

227 **THEORY OF INDIVIDUAL ATHLETICS** (Women)  
First semester only; 2 credits.  
Teaching technique in archery, badminton, bowling, golf, swimming, diving, tennis. One lecture, 2 laboratory periods a week.

228 **THEORY OF GROUP ATHLETICS** (Women)  
Second semester only; 2 credits.  
Technique of play and organization of team sports for junior and senior high schools. One lecture, 2 laboratory periods a week.
COURSES OF INSTRUCTION

229 SURVEY OF RHYTHMICS (Women) Miss Gay
First semester only; 2 credits.
Fundamentals of movement and rhythm basic to all types of the dance; basic methods and materials in modern folk and tap dancing. Three lecture and laboratory periods a week.

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

260 PHYSIOLOGY OF EXERCISE Mr. Llambias
First semester only; 3 credits.
Mechanics of muscular movement; fatigue; physiological value of various kinds of activity; effects of exercise on heart, lungs, etc.; training of athletes; children's need for activity.

270 COMMUNITY RECREATION Miss Gay
Second semester only; 3 credits.
Rules of organized play; the program, leadership in recreation, problems in organization, and supervision of community recreation.

280 ORGANIZATION AND ADMINISTRATION OF HEALTH AND PHYSICAL EDUCATION Mr. Llambias
Second semester only; 2 credits.
The activity program; interscholastic and intramural athletics; the physical education plant; school health education; student leaders; management of finances; testing in physical education.

History

Associate Professors Charles II. Hunter, Ph.D., Ralph S. Kuykendall, M.A.; Assistant Professor Shunzo Sakamaki, Ph.D. Absent on leave 1941-42: Professor Shou-Yi Ch'en, Ph.D.

Associate Professor Hunter, chairman

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

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

204 DIPLOMATIC AND COLONIAL HISTORY OF MODERN EUROPE Mr. Hunter
Year course; 2 credits each semester.
Nineteenth century colonial expansion, alliances and alignments for World War I, the Treaty of Versailles, postwar developments, and World War II.

209-210 POLITICAL AND SOCIAL HISTORY OF ENGLAND Mr. Hunter
Year course; 3 credits each semester.
Political, social, industrial, intellectual, and religious life of the English people; designed for students majoring in English literature.

218 EUROPE IN THE PACIFIC Mr. Sakamaki
Year course; 3 credits each semester.
History of European exploration, settlement, trade, and political rivalry in the Pacific area.

226 HISTORY OF JAPAN Mr. Sakamaki
Year course; 3 credits each semester.
General survey of Japanese history; development of institutions; impact of western culture upon Japanese civilization.
241-242 **History of the United States**
Mr. Hunter
Year course; 3 credits each semester.
A detailed political, economic, and social survey of the history of the American people from 1607 to 1890.

243 **The United States 1890-1941**
Mr. Hunter
Second semester only; 3 credits.
The political, economic, and social transformation of the United States since the close of the frontier period.

249 **Representative Americans**
Mr. Hunter
First semester only; 2 credits.
Biographical sketches of leading characters in American history from the Revolution to the present; lectures and reports, reading from standard biographies.

250 **History of Early Civilization in the Far East**
Mr. Sakamaki
First semester only; 3 credits.
A general survey of the development of civilization in eastern Asia.

251 **History of Thought in Japan**
Mr. Sakamaki
Second semester only; 3 credits.
The major schools of thought and important thinkers, social reformers, economists, statesmen, and educators of the Far East.

276 **History of the Hawaiian Islands**
Mr. Kuykendall
Year course; 2 credits each semester.
A general course in some detail; emphasis on the period of the monarchy.

296-297 **History of Japanese Culture and Institutions**
(formerly Oriental Studies 256-257)
Mr. Sakamaki
Year course; 2 credits each semester.
Cultural history of Japan from ancient times to Meiji period; development of institutions, impact of Chinese civilization, introduction of Buddhism, influence of western civilization.

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

310 **Seminar in Historical Method**
Mr. Hunter
First semester only; 2 credits.
Required of masters' degree candidates in history and international relations; recommended for prelegal seniors.

313 **Seminar in Historiography**
Mr. Hunter
Second semester only; 2 credits.

315 **Seminar in Japanese History**
Mr. Sakamaki
Year course; 2 credits each semester.

319 **Seminar: Europe in the Pacific**
Year course; 2 credits each semester.

400 **Thesis Research**
Credit by arrangement.
Only graduate students engaged in the preparation of theses may register in this course.

*Frequently offered but not to be given in 1941-42:*

- 205 Cultural History of Europe—Year course; 2 credits each semester.
- 207 Nationalism in the Modern World—First semester only; 2 credits.
- 208 European Expansion—Second semester only; 2 credits.
- 211 Constitutional History of England—First semester only; 2 credits.
- 216 History of Russian Culture and Thought—Year course; 2 credits each semester.
- 225 History of China—Year course; 3 credits each semester.
- 229 History of Cultural Relations Between China and the Occident—Year course; 2 credits each semester.
COURSES OF INSTRUCTION

235 History of Ancient China—First semester only; 3 credits.
236 History of Modern China—Second semester only; 3 credits.
244-245 Diplomatic History of the United States—Year course; 3 credits each semester.
252 Constitutional History of the United States—Second semester only; 3 credits.
253-254 Hispanic America—Year course; 2 credits each semester.
266 Diplomatic History of Japan—Year course; 2 credits each semester.
277 The Pacific Region in Modern Times—Year course; 2 credits each semester.
311 Seminar in American Diplomatic History—Second semester only; 2 credits.

Home Economics

Professor Carey D. Miller, M.S.; Associate Professor Katherine Roberts, Ph.D.; Assistant Professors Katherine Bazore, M.A., Ruth Douglass, M.S.; Instructors Marian Weaver, M.S., Helen Lind, B.S., Martha Swoyer, M.S., Dagmar C. Gustafson, M.S., Nora Mark, B.S., Shirley Newsom, M.S.; Assistant Carol Mitchelson, M.S.; Lecturer Louise Childs, M.D. Absent on leave 1941-42: Associate Professor Martha Porgierer, Ph.D.

Assistant Professor Bazore, chairman

GENERAL COURSES (H.E.)

H.E. 100 ORIENTATION IN HOME ECONOMICS Miss Bazore
First semester only; 1 credit.
Application of social ethics to daily life; position of women in the family and community; choice of a vocation; vocational opportunities in home economics.

H.E. 101 HYGIENE AND HOME NURSING Miss Weaver
Second semester only; 3 credits.
A practical study of personal and community health; the acquisition of skill in basic home nursing procedures. Two lectures and one laboratory period a week.

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

H.E. 250 HOUSEHOLD MANAGEMENT Miss Bazore
First semester, 3 credits; second semester, 2 credits.
Contribution of homemaker and family members to better home living; management of time and money; arrangement, selection, cost, and care of equipment. First semester: two lectures, one laboratory period a week. Second semester: one lecture, one laboratory period a week. Laboratory fee $2 second semester. Prerequisite: junior standing.

H.E. 251 HOME ECONOMICS EDUCATION Miss Douglass
Second semester only; 3 credits.
Curriculum content, teaching procedures, and current educational philosophies and practices as they apply to home economics education. Prerequisite: junior standing.

H.E. 252 CHILD TRAINING Mrs. Childs
Second semester only; 2 credits.
Importance of the preschool years in the development of the individual; a constructive program of training the normal child in the home; planned especially for home economics students. Prerequisite: Psychology 150 or Education 180-181.

H.E. 253 CHILD CARE First semester only; 2 credits.
Reproduction, prenatal care, childbirth, infant and preschool care, growth, minor ailments, and common diseases of children.
H.E. 260 NURSERY SCHOOL PARTICIPATION FOR HOME ECONOMICS STUDENTS
First semester, 2 credits; repeated second semester.
Laboratory and conferences planned to give students firsthand experience in dealing with children of the preschool age.

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

H.E. 265 PROBLEMS RELATING TO NURSERY SCHOOL AND THE PRESCHOOL CHILD
First semester, 2 credits; repeated second semester.
Problems of behavior, clothing, nutrition, and the child in the home situation; readings, conferences and laboratory. Prerequisites: Home Economics 252, 253, and 260.

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

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

HOUSEHOLD ART (H.A.)

H.A. 109 CLOTHING CONSTRUCTION Mrs. Mark
First semester, 2 credits; repeated second semester.
Selection of cloth for costume; brief study of cotton, flax, rayon; construction of garments from commercial patterns. Two laboratory periods a week. Not open to majors in Home Economics. Laboratory fee $3.

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

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

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

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

H.A. 253 ADVANCED CLOTHING CONSTRUCTION Miss Gustafson
First semester only; 3 credits.
Tailoring and advanced clothing construction; study of wool textiles. Prerequisite: Household Art 114. Two laboratory periods a week. Laboratory fee $3.
COURSES OF INSTRUCTION

HOUSEHOLD SCIENCE (H.S.)

H.S. 102 FOOD ECONOMICS Miss Bazore
Year course; 3 credits each semester.
Economic conditions related to food purchase; selection, preparation, and comparison of foods; composition, cost, and season; meal planning and serving. One lecture, 2 laboratory periods a week. Prerequisites: Chemistry 101 or 102; Household Science 150. Laboratory fee $5 each semester.

H.S. 150 ELEMENTARY FOOD PREPARATION Mrs. Lind
First semester, 3 credits; repeated second semester.
Fundamental processes of food preparation; meal planning and serving; production, manufacture, and composition of common foods. One lecture and 2 laboratory periods a week. Laboratory fee $5.

H.S. 155 ELEMENTARY NUTRITION FOR NURSING STUDENTS Miss Weaver
Second semester only; 3 credits.
Principles of nutrition in relation to health and disease; emphasis on nutritive value and use of foods grown or used in Hawaii. Prerequisite: Household Science 150. One lecture, 2 laboratory periods a week. Laboratory fee $5.

H.S. 200 NUTRITION Miss Miller
Year course; 3 credits each semester.
Nutritive requirements of man; function of food in the body; nutritive value of foods and their place in the diet. Two lectures and one laboratory period a week. Prerequisites: Chemistry 149; Chemistry 101 or 102; credit or concurrent registration in Chemistry 260, 262. Laboratory fee $5 each semester.

H.S. 250 DIET AND DISEASE Miss Weaver
First semester, 3 credits; repeated second semester.
Nutritive therapy in abnormal conditions; reading, conferences, and laboratory. Two lectures and one laboratory period a week. Prerequisite: Household Science 102. Laboratory fee $2.

H.S. 260 QUANTITY COOKERY Miss Mitchelson
Second semester only; 3 credits.
Food problems of institutions; preparation and serving of food in large quantities, menu planning, and food costs. One lecture and two 3-hour laboratory periods a week. Prerequisite: Household Science 102. Laboratory fee $2.

H.S. 261 INSTITUTIONAL MANAGEMENT Miss Swoyer
Second semester only; 2 credits.
Organization and administration of food departments of institutions such as college cafeterias, school cafeterias, college residence halls, and hospitals. Prerequisite: Household Science 260.

H.S. 263 INSTITUTIONAL BUYING Miss Mitchelson
Second semester only; 2 credits.
Selection and purchase of foods and equipment for an institution. Prerequisite: Household Science 260.

H.S. 264 PROBLEMS IN HOSPITAL DIETETICS AND MANAGEMENT Miss Swoyer
First semester, 4 credits; repeated second semester.
Field practice for senior and graduate student dietitians in the Queen's Hospital of Honolulu. Prerequisites: Household Science 200, 260, 261, 263, 265.

H.S. 265 INSTITUTIONAL ACCOUNTS Miss Swoyer
Second semester only; 3 credits.
Principles of accounting applied to management of school cafeterias, tea rooms, residence halls, and other food service units. One lecture and 2 laboratory periods a week. Prerequisite: Household Science 260.
H.S. 266 Problems in Residence Hall Management
Miss Swoyer
First semester, 4 credits; repeated second semester.
Planning and directing preparation of meals in a university women's residence hall; directing housekeeping in residence hall. Prerequisites: Household Science 200, 260, 261, 263, 265.

H.S. 272 Elementary Nutrition
Miss Weaver
First semester only; 3 or 4 credits.
Nutrition in relation to health of the individual and the family; planning of adequate diets utilizing foods available in Hawaii. Two lectures and one laboratory period a week for Preschool majors; 2 lectures and 2 laboratory periods a week for Home Economics majors. Prerequisite: Household Science 102 or consent of instructor. Laboratory fee $5.

H.S. 273 Racial Food Habits in Hawaii
Miss Bazore, Mrs. Lind
Second semester only; 4 credits.
The planning and preparation of meals for various racial groups at different income levels; emphasis on adequate diets at minimum cost. Two lectures and 2 laboratory periods a week. Prerequisite: Household Science 272. Laboratory fee $5.

H.S. 275 Preparation of Food for Children
Miss Weaver, Miss Newsom
Second semester only; 3 credits.
Planning meals for children; problems involved in planning, selecting, preparing, and serving the noon lunch in preschools and children's groups.

H.S. 349 Research
Miss Miller
Credit by arrangement.
Problems according to preparation of each student; nutritional investigations; animal and human feeding experiments. Prerequisites: Household Science 200 and consent of instructor. Laboratory fee $5 each semester.

H.S. 350-351 Seminar in Nutrition
Miss Mitchelson
First and/or second semester; 1 credit each semester.
Review of current literature; preparation of reports; reviews of articles on assigned topics. One 1 1/2-hour meeting a week. Prerequisite: consent of instructor.

H.S. 360 Island Foods for Institutional Use
Miss Mitchelson
First semester, 3 credits; repeated second semester.
Cost, preparation, and utilization of island foods in institutional food service units. Prerequisite: Household Science 260.

H.S. 400 Thesis Research
Staff
Credit by arrangement.
Only graduate students engaged in the preparation of theses may register in this course.

Japanese
(See Oriental Languages)

Mathematics

Professors Ernest C. Webster, C.E., Arthur R. Keller, M.S.; Assistant Professors Wilfred J. Holmes, M.S., Joel B. Cox, Eng.; Instructors Kenichi Watanabe, Ph.D., William M. Cade, M.S.; Assistant Shigeo Okubo, M.S.

Assistant Professor Holmes, chairman

149 Algebra
Mr. Cade, Mr. Okubo, Mr. Cox
First semester, 3 credits; repeated second semester.
Second-year algebra. Six hours a week. Prerequisites: One year of high school algebra, one year of plane geometry.
150 **PLANE TRIGONOMETRY**
   First semester, 3 credits; repeated second semester.
   Prerequisites: Mathematics 149 or 2 years of high school algebra and one year of plane geometry.

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

152 **PLANE ANALYTICAL GEOMETRY**
   First semester, 3 credits; repeated second semester.
   Prerequisite: Mathematics 151 or 2 years of high school algebra and one year of plane geometry.

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

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

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

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

254-255 **APPLICATION OF HIGHER MATHEMATICS IN ENGINEERING AND PHYSICAL SCIENCE**
   Year course; 3 credits each semester. (Alternate years.)
   Infinite series, small oscillations, special integrals, vector analysis, calculus of variations, conformal representation, differential equations. Prerequisite: Mathematics 155 or equivalent.

260 **TEACHING OF ELEMENTARY MATHEMATICS**
   First semester only; 2 credits. (Alternate years.)
   Principles of arithmetic, geometry, algebra, and trigonometry with reference to methods of teaching. Prerequisites: high school algebra and geometry or Mathematics 149.

280 **ADVANCED STATISTICS**
   Second semester only; 3 credits. (Alternate years.)
   Regression lines, correlation of non-measurable characters, probability, point binomial, curve fitting, graduating data to theoretical curves, sampling, multiple and partial correlation, finite differences. Prerequisite: Mathematics 280.

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

**FREQUENTLY OFFERED BUT NOT TO BE GIVEN IN 1941-42:**
   252-253 Advanced Calculus and Differential Equations—Year course; 3 credits each semester.
   272-273 History of Mathematics—Year course; 3 credits each semester.
   275 Theory of Equations—Second semester only; 3 credits.
Military Science and Tactics


Major Kerr in charge

M.S. 101 and 102 must be taken by every physically fit male student who is a citizen, who is at least 14 years old, whose 26th birthday has not passed at the time of enrollment in the University, who (1) is (or was at the time of entering the University) a freshman or a sophomore, or (2) is an unclassified student carrying more than 9 credit hours of work and having fewer than 64 college credits. Military training in the junior and senior years is optional for students who have completed the basic courses.

Students in M.S. 101 and 102 who possess the necessary qualifications may, if they procure permission of the officer in charge, obtain Military Science credit by participating in the band that serves the Reserve Officers' Training Corps.

M.S. 101 R.O.T.C. BASIC

Major Kerr and Staff

Year course; 1 credit each semester.
Military fundamentals; leadership; rifle marksmanship; map reading; outline of military history; citizenship; hygiene and first aid; infantry drill. Three hours a week, theoretical and practical. Uniform rehabilitation fee 75 cents (not refundable).

M.S. 102 R.O.T.C. BASIC

Major Kerr and Staff

Year course; 1 credit each semester.
Leadership; automatic rifle; characteristics of infantry weapons; extended order drill; combat principles; infantry drill. Three hours a week, theoretical and practical work. Prerequisite: M.S. 101. Uniform rehabilitation fee 75 cents (not refundable).

M.S. 103 R.O.T.C. ADVANCED

Major Kerr and Staff

Year course; 3 credits each semester.
Leadership; technique of infantry weapons; aerial photographs; operation of motor vehicles; estimate of situation; administration; combat principles. Five hours a week, theoretical and practical. Open only to students selected by University. Prerequisite: M.S. 102 or credit for equivalent R.O.T.C. work.

M.S. 203 R.O.T.C. ADVANCED

Major Kerr and Staff

Year course; 3 credits each semester.
Leadership; military history and policy; defense against tanks and aircraft; military law; signal communication; combat training; allied subjects. Five hours a week, theoretical and practical. Prerequisite: M.S. 203.

M.S. 250 SUMMER CAMP

Summer following completion of M.S. 203; 2 credits.
Field leadership; firing of infantry weapons; camp sanitation; marches; physical training; demonstrations; field problems. Six weeks' duration. Prerequisite: M.S. 203.

Music

Professor Fritz Hart, F.R.C.M.; Lecturer Verne Waldo Thompson, B.Mus.

110 HISTORY OF MUSIC

Year course; 2 credits each semester.
History of music from 1250 to the present; each school considered in order of historical importance; attention to outstanding composers of each era.

120 SIGHT READING AND CHORAL SINGING

Year course; 2 credits each semester.
Training in sight reading and the elements of music; choral singing.

135 HARMONY AND COUNTERPOINT

Year course; 2 credits each semester.
COURSES OF INSTRUCTION

200 Music Appreciation
Mr. Thompson
Year course; 2 credits each semester.
A discovery course designed to cultivate listening skill; records and class demonstrations; special attention to orchestral instruments; discussion of newer records.

201 Advanced Music Appreciation
Mr. Thompson
Year course; 2 credits each semester.
The symphony as an art form; critical analysis of representative works; second semester devoted to Wagner and the music drama; special attention to "The Ring"; Wagner's theories in relation to those of his period.

210 Musical Form
Mr. Hart
Year course; 2 credits each semester.
The special structure of music; works of composers analyzed to exemplify evolution of the art from folk songs to symphonies and operas.

220 Advanced Harmony and Counterpoint
Mr. Hart
Year course; 2 credits each semester.

Oriental Languages

Professor Shao Chang Lee, M.A.; Assistant Professor Cheuk-Woon Taam, Ph.D.; Instructor Yukuo Uyehara, M.A.; Assistants Tuen-Kung Chang, M.A., Sophia C. H. Han, B.A.

Professor Lee, chairman

CHINESE

100 First-Year Chinese
Miss Han
Year course; 3 credits each semester.
Study of 250 foundation characters each semester; reading and construction of simple sentences, simple conversation, and translation.

101 Second-Year Chinese
Mr. Chang
Year course; 3 credits each semester.
Study of 250 additional foundation characters and idioms each semester; reading, composition, conversation, and translation.

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

221 Chinese Literature in Chinese
Mr. Lee
Year course; 3 credits each semester.
Critical study of classical and modern masterpieces of prose and poetry. Prerequisite: O.L. 200 or equivalent.

240-241 Religious Literature of the Orient
Mr. Lee
Year course; 3 credits each semester.
A study of historical documents and the masterpieces of religious literature of China and Japan, tracing the origin and development of Hinduism, Confucianism, Taoism, Buddhism, and Shinto.

250-251 Chinese Literature in English
Mr. Lee
Year course; 3 credits each semester.
Critical study of Chinese prose and poetry in English translation; lectures on the development of Chinese literature and its contribution to world literature.

293 Methods and Bibliography in Chinese Studies
Mr. Taam
First semester only; 3 credits.
Designed to familiarize the student with the main fields of Chinese research in China and abroad, the special methods evolved, and the principal sources of bibliographical information. Prerequisite: junior standing.
### JAPANESE

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Instructor</th>
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<tbody>
<tr>
<td>102</td>
<td><strong>FIRST-YEAR JAPANESE</strong>&lt;br&gt;Year course; 3 credits each semester.&lt;br&gt;Reading and translation of Japanese language readers <em>Katakana, Hiragana</em>, and simple Chinese characters; dictation, composition, and oral exercises.</td>
<td>Mr. Uyehara</td>
</tr>
<tr>
<td>103</td>
<td><strong>SECOND-YEAR JAPANESE</strong>&lt;br&gt;Year course; 3 credits each semester.&lt;br&gt;Reading and translation of Japanese language readers, and the learning of more Chinese characters; dictation, composition, and letter writing.</td>
<td>Mr. Uyehara</td>
</tr>
<tr>
<td>202</td>
<td><strong>THIRD-YEAR JAPANESE</strong>&lt;br&gt;Year course; 3 credits each semester.&lt;br&gt;Reading and translation of advanced Japanese language readers and modern literature.</td>
<td>Mr. Uyehara</td>
</tr>
<tr>
<td>260</td>
<td><strong>JAPANESE LITERATURE IN ENGLISH</strong>&lt;br&gt;Year course; 2 credits each semester.&lt;br&gt;Lectures and selections from English translations of Japanese classics; reading of Aston's <em>History of Japanese Literature</em>.</td>
<td>Mr. Uyehara</td>
</tr>
</tbody>
</table>

### GRADUATE COURSES IN CHINESE AND JAPANESE

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Instructor</th>
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<tbody>
<tr>
<td>300</td>
<td><strong>ADVANCED READING AND RESEARCH</strong>&lt;br&gt;Credit by arrangement.</td>
<td>Staff</td>
</tr>
<tr>
<td>400</td>
<td><strong>THESIS RESEARCH</strong>&lt;br&gt;Credit by arrangement.</td>
<td>Staff</td>
</tr>
</tbody>
</table>

### ALSO ACCEPTABLE TOWARD A MAJOR IN ORIENTAL LANGUAGES:


### Philosophy

**Professors** Wing-tsit Chan, Ph.D., E. Vern Sayers, Ph.D.; **Associate Professor** Charles A. Moore, Ph.D.

**Professor Chan, chairman**

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>150-151</td>
<td><strong>HISTORY OF PHILOSOPHY</strong>&lt;br&gt;Year course; 3 credits each semester.&lt;br&gt;Western philosophy from era of great Greek thinkers to modern times; first semester, Greek and medieval periods; second semester, modern philosophy; basic course in philosophy. Prerequisite: sophomore standing.</td>
<td>Mr. Moore</td>
</tr>
<tr>
<td>200</td>
<td><strong>PHILOSOPHIES OF LIFE</strong>&lt;br&gt;First semester only; 3 credits.&lt;br&gt;Western philosophies and typical theories of the nature of the good life; some comparative consideration of eastern philosophies; advised as preparation for Philosophy 201.</td>
<td>Mr. Moore</td>
</tr>
<tr>
<td>201</td>
<td><strong>PROBLEMS OF CONDUCT</strong>&lt;br&gt;Second semester only; 3 credits.&lt;br&gt;Practical problems of individual and social life; social and economic justice; crime and punishment; happiness; sex life, the family, etc. Desirable preparation: Philosophy 200.</td>
<td>Mr. Moore</td>
</tr>
<tr>
<td>253</td>
<td><strong>PROBLEMS OF PHILOSOPHY</strong>&lt;br&gt;Second semester only; 3 credits.&lt;br&gt;Persistent problems and types of philosophy; special reference to contemporary discussion of those problems. Prerequisite: one course in philosophy or consent of instructor.</td>
<td>Mr. Moore</td>
</tr>
<tr>
<td>263</td>
<td><strong>CHINESE AESTHETICS</strong>&lt;br&gt;Second semester only; 2 credits.&lt;br&gt;Oriental philosophy expressed in art; theories of color and form, music and poetry, humor and taste, inspiration, Zen, harmony of man and nature, relation of art and ethics.</td>
<td>Mr. Chan</td>
</tr>
</tbody>
</table>
COURSES OF INSTRUCTION

270-271 EASTERN PHILOSOPHIES
Mr. Chan
Year course; 3 credits each semester.
Fundamental philosophical movements of India, Persia, Arabia, China, and Japan—all treated as living philosophies; basic course in oriental philosophy.

278 POLITICAL PHILOSOPHY
Mr. Moore
First semester only; 3 credits.
Great political philosophies, including those of Plato, Aristotle, Aquinas, Machiavelli, Hobbes, Locke, Rousseau, Hegel, Mill; also such types as democracy, pluralism, fascism, socialism, communism.

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

283-284 BUDDHIST PHILOSOPHY
Mr. Chan
Year course; 2 credits each semester.
Buddhist philosophy in India, China, Korea, and Japan, and its influence on far eastern culture and thought.

285 EDUCATION INTEGRATION TOWARD A PHILOSOPHY OF LIFE
Mr. Moore
Second semester only; 3 credits.
An attempt to coordinate various and even conflicting approaches to life and reality encountered by students in college. Prerequisite: senior standing.

287 COMPARATIVE PHILOSOPHY
Mr. Chan
First semester only; 2 credits.
Eastern ideas and ideals compared with those of the West.

290 INDEPENDENT STUDY
Credit by arrangement.
Prerequisite: consent of department chairman.

300 DIRECTED READING IN PHILOSOPHY
Staff
Year course; 2 credits each semester.
Study of particular thinkers, periods, types, or problems.

321 SEMINAR IN COMPARATIVE PHILOSOPHY
(East and West)
Mr. Moore, Mr. Chan
Year course; 2 credits each semester.
Comparison of eastern and western philosophy generally, and of specific great systems of East and West. Prerequisites: Philosophy 150-151, 270-271 or their equivalents.

345 PHILOSOPHY OF EXPERIMENTALISM (Pragmatism)
Mr. Sayers
First semester only; 2 credits.
Experimentalism as a development of the pragmatism of Charles Peirce and William James; emphasis upon views of Dewey and George H. Mead. Prerequisite: senior standing or consent of instructor.

400 THESIS RESEARCH
Credit by arrangement.

Also acceptable toward a major in Philosophy:
History 251, Religion 261, 275-276.

Physical and Health Education
(See Health and Physical Education)

Physics
Professor Willard H. Eller, Ph.D.; Assistant Professor Stanley S. Ballard, Ph.D.; Instructor Iwao Miyake, M.S.

Professor Eller, chairman
102 COLLEGE PHYSICS Mr. Ballard and Assistants
Year course; 4 credits each semester.
Three lectures and one laboratory period a week. Prerequisite: Mathematics 150 or equivalent. Laboratory fee $4 each semester.

150 GENERAL PHYSICS Mr. Miyake
First semester only; 4 credits.
Three lectures and one laboratory period a week. Prerequisite: credit or concurrent registration in Mathematics 154. Laboratory fee $4.

151 GENERAL PHYSICS
Second semester only; 4 credits.
Three lectures and one laboratory period a week. Prerequisites: Physics 150; credit or concurrent registration in Mathematics 154. Laboratory fee $4.

152 GENERAL PHYSICS Mr. Eller
First semester only; 3 credits.
Two lectures and one laboratory period a week. Prerequisite: Physics 150. Laboratory fee $4.

153 ELEMENTARY RADIO Mr. Miyake
First semester only; 3 credits.
Fundamentals of radio: theory, design, and construction of radio receiving and amplifying equipment. Two lectures and one laboratory period a week. Prerequisite: high school physics or equivalent. Laboratory fee $4.

157 RADIO
Second semester only; 2 credits.
Continuation of Physics 153; more advanced radio theory and practice; theory, design, and construction of modern A.C. receiving sets and audio amplifiers. One lecture and one laboratory period a week. Prerequisite: Physics 153. Laboratory fee $4.

202 ELECTRICAL ENGINEERING Mr. Eller
Year course; 3 credits each semester.
Theory, construction, and operation of direct and alternating current electrical machinery equipment. Two lectures and one laboratory period a week. Prerequisite: Physics 152. Laboratory fee $4 each semester.

253 ELECTRICAL MEASUREMENTS Mr. Eller
Second semester only; 3 credits.
Electrical measuring instruments and circuits; their use in the measurement of the fundamental electric and magnetic quantities. One lecture and 2 laboratory periods a week. Prerequisites: Physics 152 or equivalent, Mathematics 154 or equivalent. Laboratory fee $8.

255 LIGHT Mr. Ballard
First semester only; 3 credits.
Principles of geometrical and physical optics. Prerequisite: Physics 102 or equivalent.

256 OPTICS LABORATORY Mr. Ballard
First semester only; 1 credit.
Experiments in geometrical and physical optics. One laboratory period a week. Prerequisite: credit or concurrent registration in Physics 255. Laboratory fee $4.

257 X-RAY Mr. Ballard
Second semester only; 2 credits. (Alternate years.)
Historical development of the knowledge and theory of X-rays; modern X-ray equipment and technique; applications of X-rays in industry and medicine. Prerequisite: Physics 102 or equivalent.

261 READING OR LABORATORY WORK IN ADVANCED PHYSICS Staff
Credit by arrangement.
Reading, consultations, and written reports; or supervised experimental work. Prerequisites: Physics 102 or equivalent, Mathematics 154 or equivalent.

275 ELECTRICITY AND MAGNETISM Mr. Eller
First semester only; 3 credits.
Fundamental theory of electric and magnetic phenomena. Prerequisites: Physics 102 or equivalent, Mathematics 154 or equivalent.
COURSES OF INSTRUCTION

300 DIRECTED READING OR RESEARCH Staff
Credit by arrangement.
Reading, consultations, and written reports; or supervised experimental work. Prerequisite: graduate standing and consent of department chairman.

400 THESIS RESEARCH Staff
Credit by arrangement.
Only graduate students engaged in the preparation of theses may register for this course.

FREQUENTLY OFFERED BUT NOT TO BE GIVEN IN 1941-42:
280 Modern Physics—Second semester only; 3 credits.
355 Spectroscopy—First semester only; 3 credits.

OFFERED WHEN DEMAND IS SUFFICIENT:
263 Theoretical Mechanics; 270 Heat; 356 Theory of Spectra; 375 Advanced Electricity and Magnetism.

Political Science

Professor Paul S. Bachman, Ph.D.; Associate Professor Charles H. Hunter, Ph.D.; Instructor William E. Williamson, M.A.

Professor Bachman, chairman

150 AMERICAN GOVERNMENT AND POLITICS Mr. Bachman
Year course; 3 credits each semester.
A survey of national and territorial political institutions and problems.

195 POLICE ADMINISTRATION: ORGANIZATION Mr. Williamson
First semester only; 2 credits.
Historical development of police systems; present-day law enforcement problems; organization and functioning of the Honolulu police.

198 POLICE ADMINISTRATION: THE ADMINISTRATION OF CRIMINAL JUSTICE Mr. Williamson
Second semester only; 2 credits.
Crime and criminals; extent and cost of crime; making of the criminal; machinery of justice; history of punishment; penal institutions.

210 POLICE ADMINISTRATION: CRIMINAL INVESTIGATION Mr. Williamson
Second semester only; 2 credits.
Fundamental practices of criminal investigation as used by modern police departments.

213 POLICE ADMINISTRATION: CRIMINAL LAW AND EVIDENCE Mr. Williamson
First semester only; 2 credits.
Elements of criminal law and evidence of importance to police officers.

254 MUNICIPAL GOVERNMENT (formerly 180) Mr. Williamson
First semester only; 3 credits.
The city as a political subdivision; forms of city government; consolidation of city and county; municipal politics.

255 MUNICIPAL ADMINISTRATION (formerly 190) Mr. Williamson
Second semester only; 3 credits.
The function of city government: civil service, finance, city planning, zoning, police, fire protection, traffic, health, water, sewerage, public works, utilities, recreation.

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

258 CONDUCT OF AMERICAN FOREIGN RELATIONS Mr. Hunter
Second semester only; 2 credits.
The determination of American foreign policies; administration of the American foreign service.
260 INTERNATIONAL RELATIONS
First semester only; 2 credits.
A study of the basic forces in international relations.

262 GOVERNMENTS AND POLITICS OF THE FAR EAST
Second semester only; 2 credits.
The international and domestic political problems of the countries of the Far East.

268 PUBLIC ADMINISTRATION
First semester only; 3 credits.
Relationship of administration to policy-forming agencies; organization of administrative staffs; centralization of responsibility.

283 PUBLIC PERSONNEL ADMINISTRATION
Second semester only; 3 credits.
The recruitment, training, promotion, and control of government employees.

302 SEMINAR IN INTERNATIONAL RELATIONS
Year course; 2 credits each semester.

320 SEMINAR IN PUBLIC ADMINISTRATION
Year course; 2 credits each semester.

FREQUENTLY OFFERED BUT NOT TO BE GIVEN IN 1941-42:
261 International Law—Second semester only; 2 credits.
263 Governments and Politics of Europe—Second semester only; 2 credits.
301 Seminar in Far Eastern International Relations—Year course; 2 credits each semester.

Portuguese
(See Romance Languages)

Psychology

Professors Thayne M. Livesay, Ph.D., Stanley D. Porteus, D.Sc.; Assistant Professors Colin J. Herrick, Ph.D., Charles H. Honzik, Ph.D., Madorah E. Smith, Ph.D.; Instructor MacEldin Trawick, Ph.D.

Professor Livesay, chairman

Psychology 150-151 (or equivalent) is prerequisite to all other courses in the department.

150-151 GENERAL PSYCHOLOGY
Year course; 3 credits each semester.
Introductory course surveying human behavior. Two lectures and one laboratory period a week. Prerequisite: sophomore standing. Laboratory fee $2 a semester.

250 APPLIED PSYCHOLOGY (formerly 151)
First semester only; 3 credits.
Application of psychological principles to practical life situations; special attention to industrial, business, legal, and medical fields.

263 PSYCHOLOGY OF DELINQUENT AND CRIMINAL BEHAVIOR
Second semester only; 2 credits.
Psychological factors in antisocial and asocial behavior; methods of treatment in delinquency and crime.

267 PSYCHOLOGY AND TREATMENT OF EXCEPTIONAL CHILDREN
Second semester only; 2 credits.
Psychological and educational aspects of problems presented by various types of exceptional children; methods desirable in work with such children.
## COURSES OF INSTRUCTION

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Credit Hours</th>
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<tbody>
<tr>
<td>275</td>
<td>SYSTEMATIC PSYCHOLOGY</td>
<td>Mr. Livesay</td>
<td>3</td>
<td>Mr. 2nd only; 3 credits. The various systems of psychology; existentialism, functionalism, behaviorism, purposivism, and Gestalt.</td>
</tr>
<tr>
<td>280</td>
<td>SOCIAL PSYCHOLOGY</td>
<td>Mr. Herrick</td>
<td>2</td>
<td>1st only; 2 credits. The psychology of human relations. Psychological factors that determine behavior of an individual in his social relationships.</td>
</tr>
<tr>
<td>292</td>
<td>MENTAL HYGIENE</td>
<td>Mr. Trawick</td>
<td>3</td>
<td>2nd only; 3 credits. Conditions requisite to mental health and satisfactory social adjustment; causes of and means of preventing maladjustments and neuroses.</td>
</tr>
<tr>
<td>295</td>
<td>ABNORMAL PSYCHOLOGY</td>
<td>Mr. Trawick</td>
<td>3</td>
<td>2nd only; 3 credits. The nature and causes of the psychoneuroses and insanity; incipient abnormal traits manifested in everyday life; psychotherapy.</td>
</tr>
<tr>
<td>297</td>
<td>CLINICAL PSYCHOLOGY</td>
<td>Mr. Porteus</td>
<td>2</td>
<td>2nd only; 2 credits. Methods of diagnosis and treatment in psychological clinic practice.</td>
</tr>
<tr>
<td>300</td>
<td>READING OR RESEARCH</td>
<td>Staff</td>
<td></td>
<td>Research or intensive reading in some field of psychology. Prerequisites: graduate standing and consent of department chairman.</td>
</tr>
<tr>
<td></td>
<td>A also acceptable toward a major in PSYCHOLOGY:</td>
<td></td>
<td></td>
<td>Education 259, 260, 371, Mathematics 280, 281, Philosophy 280, and Religion 260.</td>
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<tr>
<td></td>
<td>A frequently offered but not to be given in 1941-42:</td>
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<td></td>
<td>252 Racial Psychology—2nd only; 2 credits.</td>
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### Public Health Nursing

Instructors Virginia A. Jones, B.S., R.N., Marian Weaver, M.S., Louise Childs, M.D.

**Instructor Jones, director**

<table>
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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>150</td>
<td>PUBLIC HEALTH NURSING</td>
<td>Miss Jones</td>
<td>3</td>
<td>1st only; 3 credits. The development, methods, and technique of public health nursing; emphasis on the social, preventive, and teaching aspects of service to the family and the community.</td>
</tr>
<tr>
<td>156</td>
<td>CHILD HYGIENE</td>
<td>Mrs. Childs</td>
<td>3</td>
<td>1st only; 3 credits. The physiology and hygiene of pregnancy, labor, and the puerperium; development, growth, and physical and mental hygiene of childhood from fetus through school age; history and present status of maternity and child health work.</td>
</tr>
<tr>
<td>158</td>
<td>NUTRITION</td>
<td>Miss Weaver</td>
<td>3</td>
<td>1st only; 3 credits. Nutrition and diet as related to needs of individuals and family groups; emphasis on nutritive value of local foods and racial diets. Two lectures and one 2½-hour laboratory period a week.</td>
</tr>
<tr>
<td>160</td>
<td>PUBLIC HEALTH ADMINISTRATION</td>
<td>Special Lecturers</td>
<td>2</td>
<td>1st only; 2 credits. Methods of protection and promotion of community health; epidemiology and control of communicable diseases; modern public health organization and administration; statistical methods in health work. Three recitations a week.</td>
</tr>
</tbody>
</table>
162 TEACHING IN PUBLIC HEALTH NURSING
Miss Jones
First semester only; 2 credits.
Basic principles underlying teaching and learning; selection and organization of materials used in health teaching; methods used with groups and individuals.

171 FIELD PROGRAM
Miss Jones and Field Supervisors
Second semester only; 10 credits.
Instruction and guided experience in home visiting for both bedside and instructive care, in school health work, in maternal and child health conferences, and in chest and other clinics. 32 hours a week.

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

Religion

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

Professor J. Leslie Dunstan, Ph.D.; Lecturers George J. Meinzinger, M.A., Stephen G. Mark, M.A.

Professor Dunstan, director

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

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

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

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

210 LIVES AND TEACHINGS OF THE OLD TESTAMENT PROPHETS
Mr. Dunstan
First semester only; 2 credits.
The thought of the five great prophets studied from the angle of their own historical situation and with consideration of the permanence of their message.

211 THE LIFE AND TEACHINGS OF JESUS
Mr. Dunstan
Second semester only; 2 credits.
The known teachings of Jesus; their philosophical and practical implications.

240-241 CHRISTIAN CHURCH IN HISTORY
Year course; 3 credits each semester.
Mr. Meinzinger
Survey of the history of the Church as an institution; its relationship to other lines of human development.

250-251 A COMPARATIVE STUDY OF RELIGIONS
Year course; 3 credits each semester.
Mr. Dunstan
Origin, development, literature, practices, and major ideas of the great religions.

260 THE PSYCHOLOGY OF RELIGION
First semester only; 2 credits.
Mr. Dunstan
Analysis of religious behavior from the psychological point of view, dealing with its appearance in its most significant forms.

[95]
COURSES OF INSTRUCTION

261 RELIGION AND ETHICS
Mr. Dunstan
Second semester only; 2 credits.
Problems arising from the relationship between religion and ethics; modern thought on these problems.

270 RELIGION AND ART
Mr. Mark
Year course; 2 credits each semester.
The way in which religious life and thought have found expression in art. A $4 set of illustrative material required.

275-276 THE PHILOSOPHY OF RELIGION
Mr. Dunstan
Year course; 3 credits each semester.
Analysis of religious experience to show its basic element; emphasis upon the significance of this for a constructive philosophical position.

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Romance Languages

Professor Irving O. Pecker, B.A.; Instructors Norman P. Sacks, Ph.D., Eva Métraux, Lic. ès L., John Earl Aguiar, M.A.

Professor Pecker, chairman

FRENCH

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

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

200 MODERN FRENCH LITERATURE
Mrs. Métraux
Year course; 3 credits each semester.
Novel, biography, drama; composition and diction. Prerequisite: 2 years of college French or equivalent.

201 PHONOLOGY
Mr. Pecker
Year course; 1 credit each semester.
Study of French sounds, diction, and conversation; required for a major in French. Prerequisite: 2 years of college French or equivalent.

252 MODERN FRENCH DRAMA
Mr. Pecker
First semester only; 2 credits.
Readings from Brieux, Rostand, Maeterlinck, Giraudoux, Bataille, Géraldy, Cocteau, etc.; rapid reading of, and reports on, outside assignments. Prerequisite: French 200 or consent of instructor.

253 ADVANCED FRENCH SEMINAR
Mr. Pecker
Second semester only; 2 credits.
Continuation of study outlined for French 252, or similar work on some phase or period of French literature. Prerequisite: French 200 or consent of instructor.

255 SURVEY OF FRENCH LITERATURE
Mrs. Métraux
Year course; 2 credits each semester.
History of French literature from the 16th century; readings from anthologies; reports on assigned topics. Prerequisite: French 200 or consent of instructor.

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

† FREQUENTLY OFFERED BUT NOT TO BE GIVEN IN 1941-42:
202 Conversation and Composition—Year course; 2 credits each semester.
250 Classic Drama—First semester only; 2 credits.
251 Romantic School—Second semester only; 2 credits.
SOCIAL WORK TRAINING

PORTUGUESE

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

101 INTERMEDIATE PORTUGUESE
Mr. Sacks
Year course; 3 credits each semester.
Conversation, grammar review, commercial correspondence, reading of Portuguese and Brazilian authors; some attention to dialectical peculiarities. Prerequisite: Portuguese 100 or consent of instructor.

SPANISH

100 ELEMENTARY SPANISH
Staff
Year course; 3 credits each semester.
Conversation, essentials of grammar, Spanish and Latin American readings; emphasis upon the oral aspect of the language.

101 MODERN SPANISH LITERATURE
Mr. Aguiar
Year course; 3 credits each semester.
Works of Galdós, Valera, Pereda, Ibáñez and others; conversation and composition; review of grammar; commercial correspondence. Prerequisite: a year of Spanish in college or 2 years in preparatory school.

102 PHONETICS
Mr. Aguiar
Year course; 1 credit each semester.
Reading and writing exercises in both Castilian and Latin American pronunciation. Prerequisite: a year of Spanish in college or 2 years in preparatory school.

250 SPANISH CLASSICS
Mr. Pecker
First semester only; 2 credits.
Works of Cervantes, Lope de Vega, Tirso de Molina, Calderón de la Barca, etc.; composition and conversation. Prerequisite: 2 years of Spanish in college or equivalent.

251 ADVANCED SPANISH SEMINAR
Mr. Pecker
Second semester only; 2 credits.
Rapid reading of Spanish novels, plays and current periodicals; individual research and reports on assigned topics. Prerequisite: Spanish 250 or consent of instructor.

Social Work Training

Professor Ferris F. Laune, Ph.D.; Associate Professor Andrew W. Lind, Ph.D.; Instructors Margareta Frisbee, M.A., Martha Wood, M.S.S.

Professor Laune, director of the program

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

200 INTRODUCTION TO SOCIAL WORK
Miss Frisbee
First semester only; 3 credits.
The origins, philosophy, scope, aims, and methods of contemporary social work; typical problems and agencies. Open only to majors in sociology and psychology. Prerequisite: senior standing.

201 SOCIAL WORK IN HAWAII
Miss Frisbee
Second semester only; 2 credits.
Designed to familiarize the student with the social agencies of Hawaii and the problems with which they deal. Prerequisite: Social Work Training 200.
COURSES OF INSTRUCTION

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

310 Mental Hygiene for Social Workers
First semester only; 3 credits.
The psychiatric approach in the theory and practices of social case work.

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

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

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

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

350 Public Welfare Administration
Second semester only; 2 credits.
The history, functions, and organization of local, state, and federal governments as related to those who need special care.

352 Social Research
(For description, see Anthropology and Sociology.)

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

Sociology
(See Anthropology and Sociology)

Spanish
(See Romance Languages)

Sugar Technology
(See Chemistry and Sugar Technology)

Survey Courses

Professors Harold S. Palmer, Ph.D., Harold St. John, Ph.D.

100 A Survey of the Natural Sciences
Year course; 3 credits each semester.
Items from various fields of natural science, selected to illustrate what is known and how it has been learned. Primarily for freshmen in Groups I and II of the College of Arts and Sciences. Admission for the second semester only by consent of instructor.
250 HISTORY OF SCIENCE

Second semester only; 2 credits.

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

Teacher Education


Professor Wist, chairman

The courses under this heading, together with some of those listed under Health and Physical Education, constitute the curriculum of Teachers College. Because of the professional nature of these courses, registration in them is ordinarily restricted to Teachers College students. This restriction does not apply to courses in Health and Physical Education numbered 100 to 199. Also, exception may be made for a student in another college who procures the premission of his dean and that of the dean of Teachers College.

Certain required courses are not included among Teacher Education courses because they are offered in other colleges and departments. Descriptions of these courses are found elsewhere in this catalogue.

PROFESSIONAL EDUCATION COURSES

100-101 ORIENTATION TO EDUCATION

Year course; 3 credits each semester.

Orientation of the student to personal and professional aspects of education. First semester attention centered on personal problems, second semester on various fields of education.

135 PARTICIPATION TEACHING

Year course; 1 credit each semester.

Students assigned as assistants to classroom teachers in public schools; practical experience, observation, and illustrative material for Education 180-181. One laboratory period a week.

180-181 INTRODUCTION TO EDUCATIONAL PSYCHOLOGY

Year course; 3 credits each semester.

Nature, control, modification, development, and neural basis of human behavior; individual differences; nature, conditions, and improvement of learning; mind and its development.

234 LABORATORY IN CHILD DEVELOPMENT

Year course; 1 credit each semester.

Participation and observation in the nursery-kindergarten.

235 PARTICIPATION TEACHING

Year course; 1 credit each semester.

Similar to Education 135, providing illustrative material for Education 250-251 and 285-286.
COURSES OF INSTRUCTION

237 DIRECTED LEARNING
Mr. Bryan
First semester, 2 credits; repeated second semester.
Exploration and examination of the literature of directing study and learning; critical discussion of principles and techniques of guiding pupil experiences. Nine weeks, 4 hours weekly.

238 PRESCHOOL AND PRIMARY MATERIALS AND PROCEDURES
Miss Roberts
Second semester only; 2 credits.
The educational experiences provided for and methods used with preschool and primary children; selection of activities and materials.

250-251 SECONDARY EDUCATION
Mr. Bryan
Year course; 3 credits each semester.
Background and development; adolescence; functions and objectives; curricula; teaching techniques; organization and planning of materials; statistical techniques and evaluation; principles of organization and administration.

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

254 PRACTICE TEACHING
Miss Caro, Miss Roberts, and Staff
First semester, 6 credits; repeated second semester.
Nine weeks of full-time teaching supervised by staff members of Teachers College Elementary and Intermediate School.

255 PRACTICE TEACHING CONFERENCE
Mr. Sayers, Mr. Bryan, Miss Roberts, and Staff
First semester, 2 credits; repeated second semester.
Discussion of problems arising from immediate experience as classroom teachers. Separate sections for Preschool, Primary, Upper Elementary, and Secondary curriculums.

259 CHILD PSYCHOLOGY
Miss Smith
First semester only; 2 credits.
Mental, social, and emotional development of the child from infancy to adolescence; interests and abilities at different age levels. Prerequisite: Psychology 150 or Education 180.

261 EDUCATIONAL MEASUREMENTS
Miss Smith
First semester, 2 credits; repeated second semester.
Use of informal and standardized tests in school work; practice in scoring such tests and interpreting the results. Nine weeks, 4 hours weekly.

263 TESTING OF YOUNG CHILDREN
Miss Smith
First semester, 2 credits; repeated second semester.
Observation and training in the administration of specific tests for young children.

265 PSYCHOLOGY AND TREATMENT OF EXCEPTIONAL CHILDREN
Miss Smith
(For description, see Psychology.)

266 MENTAL HYGIENE
Miss Smith
First semester, 2 credits; repeated second semester.
Factors that determine personality; conditions requisite to the preservation of health; applications to various fields of behavior. Nine weeks, 4 hours weekly.

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

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

272 TEACHING AGRICULTURAL RELATED SUBJECTS
Mr. Armstrong
First semester only; 3 credits.
Correlating general school subjects with vocational agriculture in Hawaii.
TEACHER EDUCATION

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

275 Practice Teaching in Vocational Agriculture  Mr. Armstrong
Second semester only; 3 credits.
Full-time teaching under supervision for 3 weeks in selected centers.

283-284 Child Development  Miss Roberts
Year course; 2 credits each semester.
The physical, mental, emotional, and social aspects of the development of young children.

285-286 Elementary Education  Mr. Sayers, Miss Roberts
Year course; 3 credits each semester.
Problems of elementary education arising from contrasting views and practices.

292 Leadership of Group Work for Boys and Girls  Mr. Eichelberger
First semester only; 2 credits.
Principal national programs of group work for youth; democratic procedure in program building based on individual and group needs. Each student advises some group in school, church, or community.

293 Comparative Education  Mr. Gordon
First semester only; 2 credits.
Analysis of modern educational practices in countries of Europe and the Pacific area, emphasizing comparisons with the United States.

294 Educational Sociology  Mr. Gordon
Second semester only; 2 credits.
Factors and situations within the contemporary school and community that influence man's behavior, studied in order to discover the conditions within which a better education may develop.

295 History of Education in the United States  Mr. Gordon
First semester, 2 credits; repeated second semester.
The evolution of American education; an aid in making use of the historical method in interpreting current educational movements and trends. Nine weeks, 4 hours weekly.

296 History of Education in Hawaii  Miss Babbitt
First semester only; 2 credits.
Review of the socioeconomic influences that brought about an American public school system in Hawaii previous to annexation.

297 Hawaiian Educational History in Modern Times  Mr. Gordon
Second semester only; 2 credits.
Events of the present century that have influenced education in Hawaii; industry and immigration; Organic Act and legislation; secondary education; teacher preparation; higher education.

298 Parent Education  Staff
First semester, 2 credits; repeated second semester.
Preparation for the directing of parent education in connection with preschool and elementary teaching.

300 Reading or Research  Mr. Sayers
Credit by arrangement.
Individual reading or research. Prerequisites: graduate standing and consent of dean of Teachers College and instructor concerned.

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

345 Seminar in Philosophy of Education Mr. Sayers
Second semester only; 2 credits.
Social and psychological theory involved in controversial educational issues. Prerequisites: Education 340 or equivalent and consent of instructor. May be repeated for credit if permission of instructor is obtained.

350 History of Education
First semester, 4 credits; repeated second semester.
Survey of educational thought as a basis for study of modern school practices.

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

354 Intern Teaching Mr. Sayers, Mr. Bryan, Miss Roberts, Mr. Armstrong, Miss Douglass
First semester, 14 credits; repeated second semester.
Full-time teaching under special supervision in selected public schools. Restricted to fifth-year students.

363 Seminar in Educational Administration Mr. Wist
First semester only; 2 credits.
Organization for public education; taxation; equalization; internal problems of school administration; personnel; pupil classification; records and reports. Restricted to administrators and prospective administrators. Prerequisite: consent of instructor.

365 The Supervision of Instruction Mr. Wist
Second semester only; 2 credits.
A seminar of the supervisory work of the principal; the place of supervision; organization for supervisory service; techniques. Restricted to administrators and prospective administrators. Prerequisite: consent of instructor.

371 Experimental Child Study Miss Smith
First semester only; 2 credits.
Experimentation in child psychology. Prerequisite: consent of instructor.

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

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

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

395 Seminar for Intern Teachers Mr. Sayers, Mr. Bryan, Miss Roberts, Mr. Armstrong, Miss Douglass
First semester, 2 credits; repeated second semester.
Problems arising from immediate experiences as classroom teachers. Separate sections for elementary, secondary, and vocational education groups. Restricted to fifth-year students.

400 Thesis Research Staff
Credit by arrangement.
Only graduate students engaged in the preparation of theses may register in this course.

RELATED COURSES

AGRICULTURE FOR TEACHERS

270 Farm Practice Mr. Armstrong
First semester, 2 credits; repeated second semester.
Acquisition of skills, under supervision, in animal husbandry, dairy husbandry, poultry, vegetables, fruits, and field crops.
271 School and Home Gardening

Mr. Armstrong
First semester, 1 credit; repeated second semester.
Designed to develop ability to conduct home and school gardens; study of fertilizers, insect control, and plant propagation. For prospective elementary school teachers.

ARITHMETIC FOR TEACHERS

150 Arithmetic for Teachers
Miss Smith
Second semester only; 1 credit.
Required for admission to junior standing of all students below standard in arithmetical skill, as determined by a placement examination. Two recitation periods a week.

ART FOR TEACHERS

261 Creative Art for the Preschool and Primary Years
Mrs. Fisher
Second semester only; 2 credits.
Designed to provide a working knowledge of tools, materials, and processes in the work of the primary years. Limited to 30 students. Laboratory fee $1.

262 Creative Art for the Upper Elementary Years
Mrs. Fisher
First semester only; 2 credits.
Similar to Art 261 but with emphasis upon the work of the upper elementary years. Limited to 30 students. Laboratory fee $1.

263 Creative Art for the Secondary School Years
Mrs. Fisher
First semester, 2 credits; repeated second semester.
Similar to Art 261 but with emphasis upon the work of the secondary school years. Limited to 30 students. Laboratory fee $1.

BIOLOGY FOR TEACHERS

236 Science for the Elementary School

First semester, 2 credits; repeated second semester.
Suitable and available science materials and literature for use in the elementary grades. One lecture and one laboratory or field trip a week.

ENGLISH FOR TEACHERS

152 Introduction to Literature
Mr. Coale
Year course; 3 credits each semester.
Development of critical standards in literature; knowledge of reading resources; literature as an interpretation of life.

201-202 Appreciation of Children’s Literature
Mrs. Twitchell
Year course; 2 credits each semester.
Methods of increasing the pleasure derived by children from books; outstanding books for children considered.

290-291 English in the Elementary School
Mr. Coale
Year course; 3 credits each semester.
Teaching of English in the secondary school years; reading and literature emphasized during first semester, language and composition during second semester.

294-295 Literature for the Elementary School
Mrs. Geiser
First semester, 1 credit; repeated second semester.
Literature suitable for children in grades 1 to 6; first semester emphasis upon materials for primary years, second semester, for upper elementary years.

296 Literature for Young Children
Mrs. Geiser
First semester, 1 credit; repeated second semester.
Literature suitable for children of the preschool and early primary years.

GEOGRAPHY FOR TEACHERS

261 Occupational Geography
Mr. Jones
First semester, 3 credits; repeated second semester.
Problems based upon occupational life of peoples of the world, from standpoint of adaptation to environment; consideration of available sources of materials for elementary grades.
262 GEOGRAPHY OF HAWAII
(For description, see Geography.)

263 GEOGRAPHY OF PACIFIC ISLANDS
(For description, see Geography.)

Mr. Coulter

HEALTH AND PHYSICAL EDUCATION FOR TEACHERS
(See page 79.)

Mr. Coulter

LIBRARY SCIENCE FOR TEACHERS

200 SEMINAR IN LIBRARY METHODS
First semester, 2 credits; repeated second semester.
Evaluation of library techniques as applied to school libraries; emphasis upon local problems. Prerequisite: consent of instructor.

Mrs. Geiser

260 LIBRARY OBSERVATION AND PARTICIPATION
First semester, 2 credits; repeated second semester.
An orientation to library routine to help the student determine his aptitude for library work.

Mrs. Geiser

262 ORGANIZATION AND ADMINISTRATION OF SCHOOL LIBRARIES
Year course; 2 credits each semester.
First semester emphasis upon essentials of school library organization, second semester upon relation of the library to the school program.

Mrs. Geiser

264 SCHOOL LIBRARY PRACTICE
First semester, 2 credits; repeated second semester.
Students are assigned as assistants to librarians in selected public schools.

Mrs. Geiser

268 CATALOGUING AND CLASSIFICATION
First semester only; 2 credits.
Principles of dictionary cataloguing; Dewey decimal classification; simple subject heading work; practice in cataloguing and classifying children's books.

Mrs. Geiser

280 BOOK SELECTION
Second semester only; 2 credits.
Evaluation and choice of books for school libraries; standard book selection aids examined; reading of books from school lists.

Mrs. Geiser

MUSIC FOR TEACHERS

152 ELEMENTS OF MUSICIANSHIP
Second semester only; 2 credits.
Music reading and choral singing, elementary theory and conducting, with attention to proper phrasing and correct diction as means to proper interpretation.

Mrs. Kahananui

250 MUSIC FOR THE PRESCHOOL AND PRIMARY YEARS
First semester only; 2 credits.
Music materials and procedures for the preschool and primary years. Prerequisite: Music 152.

Mrs. Kahananui

251 MUSIC FOR THE UPPER ELEMENTARY YEARS
Second semester only; 2 credits.
Music materials and procedures for the upper elementary years. Prerequisite: Music 152.

Mrs. Kahananui

252 MUSIC IN THE SECONDARY SCHOOL
First semester only; 2 credits.
The adolescent and music; special groups in the secondary school; music units and materials for the secondary school. Prerequisite: Music 152.

Mrs. Kahananui

261 MUSIC HISTORY TO THE CLASSICAL PERIOD
First semester only; 2 credits.
Pre-Christian music; the Christian church and musical evolution; the rise of secular music in the West and its influence on musical evolution; early classical music.

Mrs. Kahananui
262 MUSIC HISTORY—CLASSICISM, ROMANTICISM Mrs. Kahananui
First semester only; 2 credits.
The Viennese period; 19th century romanticism as influenced by social evolution.

263 MUSIC HISTORY—20TH CENTURY Mrs. Kahananui
Second semester only; 2 credits.
Nineteenth century nationalism and 20th century modernism.

264 CHORAL CONDUCTING Mrs. Kahananui
First semester only; 1 credit.
Organization and seating of choral groups; use of the baton and hands in conducting; selection of materials for amateur choral groups.

265 CONDUCTING INSTRUMENTAL GROUPS Mr. Ratekin
Second semester only; 1 credit.
Supervised practice in methods of teaching and conducting elementary instrumental groups; opportunity to observe, assist, and conduct instrumental classes in Teachers College Intermediate School.

266 BAND Mr. Ratekin
First semester, 2 credits; repeated second semester.
Study of standard overtures, light concert, and military band music. Class gives concerts and provides music for military, athletic, and other campus functions.

268 BAND AND ORCHESTRA METHODS Mr. Ratekin
First semester only; 2 credits.
Instruments of the band and orchestra and methods of teaching; each student taught to play simple forms of music on two instruments.

269 PROBLEMS OF THE INSTRUMENTAL MUSIC TEACHER Mr. Ratekin
Second semester only; 2 credits.
Problems of the intermediate school teacher in the organization and teaching of instrumental and vocal music; emphasis on local conditions.

SCOUT TRAINING FOR TEACHERS

240 BOY SCOUT TRAINING Mr. Forbes
Second semester only; 2 credits.
Scout methods and materials; introduction to scouting: Cub division; boy scouting and senior divisions; sea scouting; roving. Boy scout certificate issued upon completion of course.

283 GIRL SCOUT TRAINING Miss Reese
Second semester only; 2 credits.
Tenderfoot, second- and first-class badge requirements; visits to girl scout troops and outdoor trips.

SOCIAL SCIENCE FOR TEACHERS

251 SOCIAL SCIENCE IN THE SECONDARY SCHOOL Mr. Gordon
Second semester only; 2 credits.
Designed to develop an acquaintance with objective types, sources, organization, and use of materials in the secondary school curriculum.

271 SOCIAL SCIENCE MATERIALS FOR CHILDREN Mr. Gordon
First semester, 1 credit; repeated second semester.
Organizing social studies in the integrated program; procedures adapted to nature of material and special subject-matter trends of individual interest.

274 VISUAL MATERIALS IN THE SOCIAL STUDIES Mr. Gordon
First semester only; 2 credits.
Such aids as text illustrations, maps, news photographs, cartoons, museum collections, and motion pictures evaluated in terms of their contribution to effective teaching.

275 MUSEUM MATERIALS IN TEACHING Mr. Gordon
Second semester only; 2 credits.
Local museum collections identified and studied under the direction of staff members; suggestions for effective classroom use and student visits.
COURSES OF INSTRUCTION

Zoology

Professors Charles H. Edmondson, Ph.D., Christopher J. Hamre, Ph.D.; Associate Professor Frederick G. Holdaway, Ph.D.; Instructor Jens M. Ostergaard; Lecturer Walter Carter, Ph.D.

Professor Hamre, chairman

Zoology 100, 151, 170, 180, 181, 191, 261, Agriculture 254, and fundamental courses in chemistry and physics are recommended for students majoring in zoology. Zoology 100, 170, 173, 191, 254, 255, 260, Agriculture 254, 10 credits in botany, 12 credits in chemistry, and 8 credits in physics are suggested for students majoring in entomology. Zoology 100, 151, 160, 191, 260, 261, 262, Botany 100, 151, 24 credits in chemistry, and 8 credits in physics are suggested for premedical students.

A biological laboratory at Waikiki provides excellent opportunity for marine biological research. Special investigators are offered every possible facility for research.

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

151 COMPARATIVE ANATOMY OF THE VERTEBRATES Mr. Hamre
Second semester only; 4 credits.
Comparative study of the organ systems of typical vertebrates and the structure and relationships of vertebrate groups. Two lectures and 2 laboratory periods a week. Prerequisites: 3 credits in chemistry, and 8 credits in physics are suggested for premedical students.

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

170 GENERAL ENTOMOLOGY Mr. Holdaway
First semester only; 3 credits.
An introductory course; insects, their structure, habits, biology, and classification; emphasis on insects characteristic of Hawaii. Two lectures and one laboratory period a week. Prerequisites: Zoology 100, Botany 100, Botany 101, (2) Biology 135. Laboratory fee $3.

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

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

181 ANIMAL ECOLOGY Mr. Edmondson
Second semester only; 3 credits.
The relation of organisms to their environment. One lecture and 2 laboratory periods a week. Prerequisites: Zoology 100, Botany 100. Laboratory fee $3.

191 PHYSIOLOGY Mr. Edmondson
Second semester only; 3 credits.
Functions of the systems of organs of the human body. Prerequisites: either (1) Zoology 100 and Botany 100 or (2) a year of chemistry.
253 PARASITOLOGY
Second semester only; 3 credits.
Parasites affecting man and domesticated animals; emphasis on classification, morphology, life history, and control. One lecture and 2 laboratory periods a week. Prerequisites: Zoology 100, Botany 100. Desirable preparation: Zoology 180. Laboratory fee $4.

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

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

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

285 EVOLUTION AND EUGENICS
Mr. Hamre
Second semester only; 3 credits.
The doctrine of organic evolution, its historical development, supporting evidence, theories, and applications; human genetics and evolution and their social import. Prerequisite: one year of zoology or botany.

300 RESEARCH
Staff
Credit by arrangement.
Directed research in (a) marine zoology—Mr. Edmondson, (b) anatomy and histology—Mr. Hamre, (c) entomology—Mr. Holdaway. Prerequisite: graduate standing or consent of department chairman.

310 ZOOLOGY SEMINAR
Year course; 1 credit each semester.
Presentation of reports upon research, or reviews of zoological literature. Prerequisite: senior or graduate standing in zoology.

370 SYSTEMATIC ZOOLOGY
Mr. Edmondson
Year course; 2 credits each semester.
Survey of the invertebrate and vertebrate fauna of Hawaii (exclusive of insects). Two laboratory periods a week.

400 THESIS RESEARCH
Staff
Credit by arrangement.
Only graduate students engaged in the preparation of theses in zoology may register in this course.

† FREQUENTLY OFFERED BUT NOT TO BE GIVEN IN 1941-42:
254 Insect Morphology—First semester only; 3 credits.
255 Systematic Entomology—Second semester only; 3 credits.
351 Cellular Biology—First semester only; 2 credits.

† OFFERED WHEN DEMAND IS SUFFICIENT:
257 Plant Quarantine and Inspection—Second semester only; 2 credits.
259 Apiculture—Second semester only; 3 credits.
352 Insect Ecology—First semester only; 3 credits.
353 Principles of Applied Entomology—Second semester only; 3 credits.
355-356 Insect-Transmitted Diseases of Plants—Year course; 4 credits.
DEGREES, DIPLOMAS, AND CERTIFICATES
CONFERRED IN 1940

The annual record of degrees, diplomas, and certificates conferred appeared formerly in this publication, the General Catalogue, but the record for 1940 was published in the Report for the Fiscal Year July 1, 1939 to June 30, 1940, published in November, 1940. Future records will appear in the annual reports.
### SUMMARY OF ENROLLMENT

#### First and Second Semesters 1940-1941

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<th>Degree Candidates</th>
<th>Graduate Students</th>
<th>Undergraduate Students</th>
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<td>Candidates for advanced degrees</td>
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<td>Candidates for five-year diplomas</td>
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<td>Other graduate students</td>
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<td>College of Arts and Sciences</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>Freshmen</td>
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<td>College of Applied Science</td>
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<td>Seniors</td>
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<tr>
<td>Juniors</td>
<td>67</td>
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<tr>
<td>Sophomores</td>
<td>76</td>
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<tr>
<td>Freshmen</td>
<td>95</td>
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<tr>
<td>Unclassified students</td>
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<td>269</td>
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<tr>
<td>TOTAL</td>
<td>2139</td>
<td>466</td>
<td>2299</td>
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- Total undergraduate students: 2299
- Total graduate students: 466
- Less duplicates (February graduates who became graduate students): 19

**GRAND TOTAL**

- Noncredit students in credit courses: 178
- Total: 2924

#### Summer sessions, 1940

Adult Education Division, first and second semesters 1941-42

<table>
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<tr>
<th></th>
<th>Candidates for advanced degrees</th>
<th>Candidates for five-year diplomas</th>
<th>Other graduate students</th>
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#### Geographic Distribution of Enrollment in First and Second Semesters 1940-41

<table>
<thead>
<tr>
<th>State</th>
<th>Candidates for advanced degrees</th>
<th>Candidates for five-year diplomas</th>
<th>Other graduate students</th>
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<td>Oahu</td>
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<tr>
<td>Hawaii</td>
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<tr>
<td>Maui</td>
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<tr>
<td>Kauai</td>
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<td>Molokai</td>
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<tr>
<td>Lanai</td>
<td>5</td>
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<td>California</td>
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<td>Colorado</td>
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<td>Connecticut</td>
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<td>Florida</td>
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<td>Idaho</td>
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<td>Illinois</td>
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<td>Indiana</td>
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<td>TOTAL</td>
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- TOTAL: 2746

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