University of Hawaii

General Catalogue

Admission and Degree Requirements

Announcement of Graduate and Undergraduate Courses of Instruction
for the Academic Year

1939-1940

Record of Degrees Conferred
in 1938
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University Calendar

1939 and 1940

1939

June 20, Tuesday  
Twenty-eighth annual Commencement.

June 26, Monday  
Registration for six-weeks summer session.

June 27, Tuesday  
Instruction begins.

July 4, Tuesday  
Independence Day (holiday).

Aug. 4, Friday  
Six-weeks summer session closes.

Aug. 5, Saturday  
Registration for post session.

Aug. 7, Monday  
Instruction begins.

Aug. 25, Friday  
Post session closes.

Sept. 1, Friday  
Last day for receiving applications for admission.

Sept. 18, Monday  
"Freshman Week."

Sept. 19, Tuesday

Sept. 20, Wednesday  
Registration of graduate students for thirty-second 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.

Sept. 20, Wednesday  
Registration of sophomores, juniors, and seniors, 8 a. m. to 4 p. m.

Sept. 21, Thursday  
Registration of freshmen, 8 a. m. to 4 p. m.

Sept. 22, Friday  
Registration of all other students, Friday 8 a. m. to 5 p. m.; Saturday 8 a. m. to 2 p. m.

Sept. 23, Saturday  

Sept. 25, Monday  
Instruction begins.

Nov. 11, Saturday  
Victory Day (holiday).

Nov. 15, Wednesday  
Last day to apply for graduate degrees to be received in June.

Nov. 30, Thursday  
Thanksgiving recess.

Dec. 2, Saturday  

Dec. 22, Friday  
Last day of classes before Christmas recess.
1940

Jan. 4, Thursday   Classes resume.
Jan. 30, Tuesday   Last day of formal class instruction, first semester.
Feb. 2, Friday     Final examinations, first semester.
      to
Feb. 10, Saturday   Registration of Regular students for second semester.
Feb. 15, Thursday   Registration of all other students for second semester.
Feb. 16, Friday     Instruction begins.
Feb. 17, Saturday   Washington's Birthday (holiday).
Mar. 22, Friday     Easter recess.
      to
Mar. 23, Saturday   Last day to arrange date of final examination for advanced degrees.
May 1, Wednesday   Eighteenth annual contest for Berndt prize.
May 23, Thursday   Memorial Day (holiday).
May 30, Thursday   Last day of formal class instruction, second semester.
June 5, Wednesday   Final examinations, second semester.
       to
June 6, Thursday    Kamehameha Day (holiday).
       to
June 15, Saturday   Last day for depositing graduate dissertations in University Library.
June 18, Tuesday    Twenty-ninth annual Commencement.
June 24, Monday     Registration for six-weeks summer session.
June 25, Tuesday    Instruction begins.
July 4, Thursday    Independence Day (holiday).
Aug. 2, Friday      Six-weeks summer session closes.
Aug. 3, Saturday    Registration for post session.
Aug. 5, Monday      Instruction begins.
Aug. 23, Friday     Post session closes.
Aug. 31, Saturday   Last day for receiving applications for admission.
Sept. 16, Monday    "Freshman Week."
      to
Sept. 17, Tuesday    Registration for thirty-third annual session.
Sept. 18, Wednesday
The Regents of the University

(The figure in parentheses after each name is the year in which that member was appointed.)

CHARLES R. HEMENWAY (1910), Chairman
Hawaiian Trust Company, Ltd.
Honolulu

MARY DILLINGHAM FREAR (1920)
1434 Punahou Street
Honolulu

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

CARL A. FARDEN (1933)
P. P. C. A. Experiment Station
Honolulu

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

HERBERT E. GREGORY (1937)
3066 Wailani Road
Honolulu

HERBERT K. KEPPELER (1938)
Bishop Estate
Honolulu
Administrative Officers

General

President..................................................David L. Crawford, LL.D.
Vice-President..........................................Arthur R. Keller, M.S.
Treasurer..................................................Gerald R. Kinnear, M.B.A.
Acting Director of Admissions ..................William Thomas Bryan, Ph.D.
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.
Assistant to the President.......................Charles F. Loomis, B.S.

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 and Acting
   Director of the Summer Sessions ..............Benjamin O. Wist, Ph.D.
Director of the Graduate Division .................Paul S. Bachman, Ph.D.
Director of the Oriental Institute .................Gregg M. Sinclair, M.A.
Director of the Adult Education Division .......R. Ray Scott, Ph.D.
Director of the Agricultural Extension Service ...Howry H. Warner, B.S.
Director of the Hawaii Agricultural Experiment
   Station..................................................John H. Beaumont, Ph.D.
Director of the Psychological Clinic .............Stanley D. Porteus, D.Sc.
The University of Hawaii

General Information

The University of Hawaii is situated in Honolulu, on the island of Oahu. Its campus lies at the mouth of Manoa Valley, three miles from the business center of Honolulu and overlooking Waikiki Beach, which is about two miles away. 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. In the 1937-1938 fiscal year about 40 per cent of the money expended came from territorial appropriations and about 25 per cent from federal funds.

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 regarded as a federal land-grant college and it has benefits from the Second Morrill Act of 1890, the Nelson Amendment of 1907, and subsequent legislation.

Open to All

Instruction in the University of Hawaii is available to all persons who are qualified, regardless of their sex, color, or nationality.

Fully Accredited

The University of Hawaii is fully accredited by the Association of American Universities. Its students may transfer to other American and to European universities on the same basis as may students of the oldest and largest American universities. Its students may also transfer to the leading oriental universities.

Control of the University

Government of the University resides in a board of regents consisting of seven members. Two are ex officio members: the president of the University and the territorial superintendent of public instruction or some other member of the Board of Commissioners of Public Instruction designated by the Governor of Hawaii (the incumbent is the superintendent). The other five members are 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 years into two semesters of 18 weeks each, a summer session of six weeks, and a post (summer) session of three 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.

College Colors

The college colors are green and white.
Communications to the University

Letters of general inquiry concerning the University should be addressed to the Registrar.

The registered cable address of the University is COLWAI.

History of the University

Before receiving its present name, the institution had been the College of Agriculture and Mechanic Arts from March 25, 1907 to 1911 and the College of Hawaii from 1911 to 1920. Instruction began in 1908 with two instructors and five students in a temporary location on the grounds now occupied by the Lincoln school in Honolulu. After a few years the institution was moved to its present site. When the College of Arts and Sciences was added in 1920, the name was changed to 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. The normal school, founded in 1896, had been situated during most of its existence at the intersection of Emerson, Lumah, and Quarry streets. In 1930 the school was moved to two new buildings adjoining the University campus. When the merger took place, 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 program consists of a College of Applied Science, a College of Arts and Sciences, a Teachers College, a graduate division, the Oriental Institute, and several departmental units. The University Adult Education Division conducts both credit and non-credit courses in communities of the territory other than Honolulu and non-credit courses on the University campus.

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, and, under proper regulation, at the request of private institutions and organizations, parents, or guardians. In addition the clinic conducts investigations in the field of psychology.

The Cooperative Extension Service in Agriculture and Home Economics conducted 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. The University directs it. 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 University of Today

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 attractive 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 the facilities of which 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 being 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 Science building, Teachers College, Farrington Hall, the Engineering Quadrangle, the Agriculture and Home Economics buildings, the University Union, and the Gymnasium. All of these except the Gymnasium are built of reinforced concrete.

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 dramatic work. The engineering laboratories and classrooms are in the five low concrete buildings composing the Engineering Quadrangle. An outdoor 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 120,000 bound volumes and about 322,000 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 library regulations may draw books.

Residence accommodations on or near the campus include the Charles H. Atherton House for men and a dormitory for women students. Meals are served at the University Union.

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

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 excellent instructional facilities for students of agriculture.

The herbariums 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 many species now extinct. The most valuable parts are the cotypes of Dr. W. Hillebrand's species and the types of many new species collected by later botanists.

Status of Students in the University

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

The undergraduate students, comprising about three-fourths of the student body, are of two kinds: the Regular students and the Unclassified students.

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

Unclassified students are persons 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 non-candidates.

Degree candidates are those who pass qualifying examinations and pursue programs of study leading to advanced degrees.
Five-year diploma candidates are persons taking post-graduate 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.

Non-credit 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; and

Students in non-credit courses conducted by the Adult Education Division.

Admission to the University

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

Persons who want 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. Their applications should be filed at least two months before the opening of the semester in which enrollment is desired; the University does not obligate itself to consider applications filed less than 30 days before the proposed date of registration. 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.

Every applicant for admission as a Regular student who has not previously earned credits in an institution of higher learning must take College Aptitude, English Placement, and Oral 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. Acceptable distributions of these units among courses of study are detailed hereafter.

Applicants whose preparatory school grades average *B* or better usually are admitted unless they fail seriously in the College Aptitude examination, in which case they may be rejected. Applicants whose preparatory school grades average *C* but who score above average in the College Aptitude test may be admitted. Special consideration is given to the quality of work done in the junior and senior years of the preparatory 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.

The College Aptitude, English Placement, and Oral English tests are given by the University in many high schools of the territory each spring. Students seeking admission in the autumn and who have not had such examinations take them during "Freshman Week" (see University Calendar, page 5). Other examinations given during "Freshman Week" include the Modern Language Placement test for students intending to enter advanced courses in Hawaiian, Chinese, Japanese, French, German, or Spanish; the Home Economics Placement test for freshmen planning to major in home economics; and the Mathematics Placement test for students intending to register for courses in mathematics.
Admission from a Four-year High School. Three of the 15 units presented from a four-year high school must be in English and one unit must be in algebra. Ten of the 15 should be from the following fields: English; physical, biological, and social sciences; mathematics; and foreign languages (but entrance credit in foreign languages is not granted unless at least 2 units in some one language are offered). The remaining 5 units may be in any subjects credited by the preparatory school toward its diploma, so long as no less than ½ unit nor more than 2 units is in any one of these subjects and 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.

Admission from a Three-year Senior High School. Three of the 12 units presented from a three-year senior high school must be in English. One unit must be in algebra unless the student had ninth grade general mathematics in intermediate (junior high) school. Eight of the 12 units should be in the following fields: English; physical, biological, and social sciences; mathematics; and foreign languages (but entrance credit in foreign languages is not granted unless at least 2 units in some one language are offered). The remaining 4 units may be in any subjects credited by the preparatory school toward its diploma, so long as no less than ½ unit nor more than 2 units is in any one of these subjects and 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.

Admission by Examination. Candidates who cannot or do not care to satisfy the foregoing admission requirements may take examinations offered by the College Entrance Examination Board (431 West 117th Street, New York City) and submit statements from the Board covering certain subjects, or take the comprehensive examinations offered by the Board and submit a certificate covering these examinations along with a complete record of work done in preparatory school. Applicants whom the 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 must meet special requirements for admission to some programs of university work. Each applicant should study the requirements of the college he intends to enter and the program that 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 offer high school algebra through quadratics, plane geometry, and trigonometry if they want to complete the university course in four years. It is strongly recommended that they also offer solid geometry, mechanical drawing and physics.

Prospective students of medicine should, in addition to high school algebra through quadratics and plane geometry, have 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 Week," the dates of which are stated in the University Calendar.
Entrance examinations, consultations with officers and instructors, and introductory lectures occupy the “week.”

**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. Credit toward graduation is given only in subjects in which a grade of C or better is 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 as a means of avoiding compliance with the requirements laid down for Regular students.

**Admission of Special Students**

Qualified persons interested in certain special 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 (page 5). 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 between 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(7,6),(994,992)
from a course during the last two weeks of a semester is not permitted. A student who drops a course without the formality of withdrawing receives an \( F \) in the course.

**Other Changes of Students' Programs of Study**

A student may not formally transfer from one of the University's colleges to another during the academic year. Such changes are to be applied for on a form obtainable at the Registrar's office and must have the approval of the deans of the two colleges concerned.

**Credits, Grades, and Grade Points**

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

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 non-laboratory 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 an 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 \( D \).

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.
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 transfers.)

Requirements for Advancement Toward Graduation

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

Further registration is denied to the following students:

1. those who fail to pass in any year (or who, when withdrawing from the University during a semester, fail to be passing in) 50 per cent of their registered credits;
2. those who fail to have earned, after two semesters' attendance, 1.5 times as many grade points as the total of their registered credits;
3. those who fail to have earned, 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, because of miscarriage of the mails, a warning fails to reach a student.

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 and Special Honors

Students who have completed two years of university work and have shown exceptional ability in certain fields of study may be permitted to carry on in-
dependent study in such fields, if they procure the approval of the heads of the departments concerned and the Committee on Honors. Students who fulfill these requirements may be excused from the usual attendance requirements in all courses given by the departments with which they are carrying on such independent work. Students successfully completing independent study programs may expect to receive at graduation the recognition of Special Honors. Before making application for permission to do independent study, students should consult the chairman of the Committee on Honors.

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 courses in military science must be taken by every physically fit male student 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 65 college credits. Military training in the junior and senior years is optional for students who have completed the basic courses.

Health, Physical Education, and Sports

To assist the student in the improvement and protection of health, the University does three things:

1. Requires a complete medical and physical examination of every new student, and subsequent examinations as conditions seem to require; for this there is no cost to the student if the University facilities are used.

2. Offers first-aid service at the Dispensary in the Gymnasium, available to all 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 require medical attention beyond that which the University nurse can reasonably give should make their own arrangements with a physician.

3. 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, in addition, at least one credit of physical education service courses each semester (see Physical Education in Courses of Instruction); although reasonable precautions against injury are exercised, no responsibility is assumed by the University for injuries received in sports or games on the campus.

Because of the interest of the student and alumni bodies in extra-mural sports and athletics, a Board of Athletic Control exists. It forms policies, drafts budgets, and makes contracts and other arrangements for contests between University of Hawaii athletes and those of other colleges. Of the Board's seven members, three are selected by the Associated Students of the University of Hawaii, two by the Alumni Association, and two by the faculty. The head of the Department of Physical Education acts as chairman.

Baccalaureate Degrees

Credit and Grade Point Requirements

Minimum credit requirements for the Baccalaureate (Bachelor's) 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's 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 (unless they take their fourth years in professional schools as described hereafter in *Preparation for Professional Degrees*) 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."

A recent amendment allows one additional year (that is, to September, 1943) to the students referred to in (b).

**Preparation for Professional Degrees**

The University of Hawaii permits the substitution of the first year in an approved professional school for the fourth year of certain University programs leading to a Baccalaureate degree. It grants the B.S. or the B.A. degree, whichever is appropriate to the program pursued, upon the satisfactory completion of three years of a University of Hawaii course and one year in an approved school of medicine, law, or theology. Bachelor's degrees thus awarded read as from the University of Hawaii.
Requirements of Medical Schools

The student in the University of Hawaii who expects to study later in a medical school may follow one of three procedures: (1) He may study here four years and procure a Bachelor's degree before entering medical school; (2) he may take a two-year program here, comprising only those courses required for admission to certain medical schools; or (3) he may study here three years and satisfy enough of the requirements for a Bachelor's degree to obtain it after one year in medical school.

The first of these alternatives is most strongly advised. Students who elect the second alternative must be sure that the two-year course will satisfy the entrance requirements of the medical schools to which they expect to go. Those who elect the third alternative obtain a better preparation for professional studies than do those who elect the second, and they may obtain a Bachelor's degree and a Doctor of Medicine degree within a seven-year period.

Those students who choose the first alternative—to remain in the University of Hawaii four years before going to medical school—may register either in the General Science program of the College of Applied Science to study for a B.S. degree or in Group III (Biological and Physical Sciences) in the College of Arts and Sciences to study for a B.A. degree.

If they choose the second alternative—two years in the University of Hawaii—or if they plan to remain here three years in preparation to receive a B.S. degree after an additional year in a medical school, students should register in the General Science program in the College of Applied Science.

Those students who plan to study three years in the University of Hawaii in preparation for receiving a B.A. degree after an additional year in medical school should register in Group III of the College of Arts and Sciences.

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 three must be in English, two in some one foreign language, two 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></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, 152, 153</td>
</tr>
<tr>
<td>Physics</td>
<td>8</td>
<td>Physics 102</td>
</tr>
<tr>
<td>Biology</td>
<td>8</td>
<td>Botany 101, Zoology 150 and 151</td>
</tr>
<tr>
<td>English Comp.</td>
<td>6</td>
<td>English 100 or 102</td>
</tr>
</tbody>
</table>

Other non-science subjects:

History, Language, Economics . 12

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

<table>
<thead>
<tr>
<th></th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>A modern foreign language</td>
<td>6 to 12</td>
</tr>
<tr>
<td>Advanced botany or advanced zoology</td>
<td>3 to 6</td>
</tr>
<tr>
<td>Psychology</td>
<td>3 to 6</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 Sessions

During the summer the University conducts two sessions, a six-weeks session and a three-weeks session, the latter known as the post session. The courses of instruction are on a par with those of the winter and spring semesters, and credits toward university degrees may be earned by students who qualify for entrance. By attending both sessions a student may earn 9 credits in one summer. The tuition fee is $5 per credit hour.

Because of its location, the University of Hawaii emphasizes oriental cultures and philosophy and offers numerous courses in those fields during the summer.

For persons interested in volcanology and its related fields, the Volcano Laboratory on the island of Hawaii (Kilauea Volcano) offers unusual opportunities for summer study.

An announcement of the summer sessions, issued in January of each year, may be obtained by addressing the Director of Summer Sessions.

The Adult Education Division

The Adult Education Division makes some of the University of Hawaii’s educational facilities available beyond the campus, offers non-credit courses on the campus in the late afternoon and evening, and occasionally schedules visiting lecturers and resident faculty members for public appearances on the campus. It offers credit and non-credit 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 also in all of the 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. Non-credit courses are open to all adults who wish to enroll.

Credits gained in University of Hawaii extension courses may be applied toward the Bachelor’s degree, but not more than 25 per cent of the total credits required to be earned in the University for the degree may be extension credits, and such credits are not counted as fulfilling the residence requirement.

Announcements of extension courses, non-credit 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>Percentage Refunded</th>
</tr>
</thead>
<tbody>
<tr>
<td>first 2 weeks of instruction</td>
<td>100%</td>
</tr>
<tr>
<td>third week</td>
<td>80%</td>
</tr>
<tr>
<td>fourth week</td>
<td>60%</td>
</tr>
<tr>
<td>fifth week</td>
<td>40%</td>
</tr>
<tr>
<td>sixth week</td>
<td>20%</td>
</tr>
<tr>
<td>remainder of semester</td>
<td>0%</td>
</tr>
</tbody>
</table>

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

A fee 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 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 book store.

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.

Locker assignments will be made in the business office during the first week of instruction.

At the request of the Associated Students of the University of Hawaii (ASUH) 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—$1 a year for freshmen, sophomores, and juniors, $2 for seniors—and the ASUH annual membership fee—$13 for undergraduates taking 10 or more semester hours. For other students the ASUH 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

Comfortable lodgings for men students are provided at Atherton House, a dormitory adjoining the campus. The rates for rooms range from $40 to $100 a semester.

Rentals in the Women’s Dormitory, situated on the campus, are uniformly $55 for the first semester and $50 for the second semester, payable in September and February. Residents supply their own sheets, blankets, pillow cases, towels, and curtains.

The Student Personnel office assists students in finding moderately priced living accommodations in private homes near the University.

Breakfasts and lunches are available at the University Union building, cafeteria style, at very reasonable rates. Evening dinners at the Union building are provided at the rates of $55 for the first semester and $50 for the second semester if paid in full at the beginning of each semester. If payments are made by the month, the evening meals are charged for at the rate of $15 a month, payable in advance before the first day of each month.

The total minimum expense to the average student is estimated at from $500
to $600 a year, including board, room, tuition, registration, course fees, class and student body fees, and books, but not including clothing, laundry, and other personal expenses.

For the convenience of students and instructional departments, the University operates a bookstore in the Union building.

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 extra-curricular student activities and to cooperate with the University administration in student affairs. Its members include all Regular students who pay ASUH fees. An elected council directs its activities.

Among the activities in which the ASUH 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 inter-collegiate 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, mainland America (and western Europe), Japan, and China with casts racially representative of each respective culture.

The ASUH Handbook distributed annually by the ASUH describes the organization and its functions in detail.

Student societies include more than thirty scholastic, honorary, professional, religious, and social organizations.

Student extra-curricular life centers in the University Union building, paid for partly by student, alumni, and faculty contributions, and opened in March, 1939.

The University of Hawaii Alumni Association has a full-time secretary with an office in the Union building.

Student mail is distributed in the Union building.

Student Personnel Office

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 a number of 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. Applications for loans to be used to defray registration costs must be filed with the Dean of Student Personnel at least one week before the first official registration day of any semester. The loan funds and the donors' preferences, if any, as to whom the beneficiaries shall be are as follows:

The Alumni Student Aid Fund.
The American Association of University Women of Honolulu—Women students.
The American Bankers Association—Seniors in Economics.
The American Legion Fund—Preferably descendants of U.S. war veterans.
Scholarships

Business and Professional Women's club.
The Chinese Students' Alliance Loan Fund—Members of C.S.A.
Chinese Women's University Club and the Chinese Women's Club—Chinese women.
The Commerce Club—Preferably members of the club.
The Daughters of the American Revolution Student Fund of Hawaii—Preferably children of D.A.R. members.
The Emergency Loan Fund (contributed by the Associated Women Students and others for short term loans).
The Future Farmers of America, Uniwai Chapter—Vocational agriculture students.
The George H. Lamy Loan Fund—Engineering students.
The Hawaiian University Association—Students of Hawaiian ancestry, preferably juniors and seniors.
The Helen Strong Carter Fund—Students needing dental treatment.
The Inez Wheeler Westgate Fund.
The Japanese Students' Association—Students of Japanese ancestry, preferably members of the association.
The Maui Woman's Club Fund—Students whose parents are Maui residents.
The McKinley Scholarship Fund—Students who have attended McKinley High School.
The Moir-Ross Health Fund.
The N.G.B. Fund.
The P.E.O. Sisterhood—Upperclass women.
The Representatives Club Fund—Students selected on the basis of need, scholastic standing, and interest in athletics.
The Rotary Club Fund—Needy students of junior and senior standing.
The Senior Fund—Seniors of any college.
The Student Fund of Teachers College—Students enrolled in Teachers College.
The Te Chih Sheh Fund—Members of Te Chih Sheh.

A number of persons, organizations, and the territorial legislature have made donations 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 $3,000 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.

Hakuba Kai—Two scholarships of $25 each awarded for the second semester to Japanese men students above freshman standing.

Hyung Jay Club—A scholarship of $60 awarded to a woman student of Korean ancestry and of junior or senior standing; preference given to women interested in the work of the Hyung Jay Club of the Y.W.C.A.

Ke Annenue—The sum of $50 awarded to a Hawaiian woman above freshman standing.

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 and needy upperclass student.

Maui Hawaiian Woman's Club—A scholarship of $100 awarded to a graduate of Maui High school.

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 $2,500, given by Florence Tucker Spaulding in memory of her son, Stephen Spaulding, ex-1927, 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.

Wakaba Kai—Two scholarships of $50 each awarded to Japanese women above freshman standing.

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

The following prizes for achievement in special fields are awarded annually:

Dean Prize for Research—The Arthur Lyman Dean prize offered by the University faculty for the encouragement of research.

Banks Memorial Prize—The Charles Eugene Banks Memorial Prize, the income from a $500 endowment, for 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 for the most outstanding senior majoring in chemistry.

Phi Beta Kappa Recognition Fund—A fund maintained by Phi Beta Kappa Association of Hawaii for the recognition of high scholastic standing among students.
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 seek, through the operation of a system of group electives, commencing with the sophomore year, to prepare the student for those activities that are professional rather than technical in their nature, such as law, medicine, teaching, journalism, commerce, and public and social service. In the main, the courses of study offered in this College are those generally recognized as forming the basis of a liberal education.

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

Admission—Maximum Student Load

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

Students in the College of Arts and Sciences may register for a maximum of 19 credit hours in any semester, including basic military science and physical education courses, provided that they have earned at least 45 grade points in the preceding semester. Those who fail to earn 45 grade points in any semester are limited to 16 hours in the succeeding semester. Freshmen in the College whose preparatory school average is below B also are limited to 16 hours.

No credit is granted for any course not regularly entered upon the registration card with the signature of the student's faculty adviser in the case of a freshman, a sophomore, or a junior, and the signatures of the adviser and the Dean in the case of a senior.

Requirements for Graduation

To be entitled to the degree of Bachelor of Arts, a candidate must have at least 128 semester hours of credit and 264 grade points (see Credits, Grades, and Grade Points), must meet certain language requirements (stated herein), and must pass the other courses prescribed for all students in the College of Arts and Sciences and the courses prescribed for students in one of the groups within the College (described herein). In mapping his program, with the assistance of his faculty adviser, the student should be sure that he meets all the requirements of the College and of the group he selects. Additional credits needed to meet the University requirement for graduation may be earned in any courses he chooses.

The Language Requirement. Every student in the College must complete one of the following: French 101 (second-year college French); Spanish 101 (second-year college Spanish); German 101 (second-year college German); German 102 (Scientific German); Oriental Studies 200 or 200 B (third-year college Chinese); Oriental Studies 202 (third-year college Japanese); Hawaiian 200 (third-year Hawaiian); or an equivalent. If advanced credit covering any of these courses is presented by a candidate at the time of admission to the University from any source other than an accredited college or university, the student must, in order to fulfill the language requirement, complete in the University of Hawaii a year's work in the language.
Group I—Social Sciences

Other College Requirements. Specific courses required of all students in the College, other than those needed to meet the language requirement, are listed herewith according to the year in which they can ordinarily be most advantageously taken:

First Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits each semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 100 or 102</td>
<td>3</td>
</tr>
<tr>
<td>Military science (men)</td>
<td>1</td>
</tr>
<tr>
<td>Physical education</td>
<td>1</td>
</tr>
<tr>
<td>Science—</td>
<td></td>
</tr>
<tr>
<td>For Groups I, II, and III students</td>
<td></td>
</tr>
<tr>
<td>Chemistry 101 or 102; or Botany 101; or Zoology</td>
<td>3 or 4</td>
</tr>
<tr>
<td>150, 151; or Survey 100</td>
<td></td>
</tr>
<tr>
<td>For Group IV students</td>
<td></td>
</tr>
<tr>
<td>Geography 150-151</td>
<td></td>
</tr>
<tr>
<td>Political Science 150-151 (may be taken in second year) by students in Groups I, II, and III</td>
<td>3</td>
</tr>
</tbody>
</table>

Second Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 150, 154, 156, or 158</td>
<td>3</td>
</tr>
<tr>
<td>Military science (men)</td>
<td>2</td>
</tr>
<tr>
<td>Physical education</td>
<td>1</td>
</tr>
</tbody>
</table>

Selection of a Group

Students preparing for the study of law or journalism or for public or social service select Group I, the Social Sciences.

Those who desire to specialize either in languages and literature or in art should select Group II.

Group III is designed for those students preparing for medicine or dentistry who wish to study for the degree of Bachelor of Arts. (For College of Applied Science courses in preparation for the study of medicine, see Preparation for Professional Degrees.)

Students desiring a training in economics and business register in Group IV.

Requirements of the Groups

Group I—Social Sciences

Each student in this group must earn 42 hours of credit in social science courses. In meeting this requirement he must take History 100, Economics 150-151, and Anthropology-Sociology 150-151. To satisfy the remaining hour requirements the student may, with the aid of his adviser, select courses from those that follow:

First and Second Years—

Geography 150, 151
Philosophy 150, 151
Political Science 170, 180, 190, 195, 196
Psychology 150, 151
Religion 150
Sociology 170
THIRD AND FOURTH YEARS—

Anthropology-Sociology 273.
Geography 252, 255, 258, 262, 263, 271, 299, 300, 301.
Psychology 200, 252, 280.
Religion 260, 261.

Group II—Languages, Literature, and Art

To satisfy the requirements of this group, the student must earn at least 40 semester hours chosen primarily from courses in English, French, German, Hawaiian, Oriental Languages and Literature, Music, Spanish, and Art. An aggregate of 18 of the 40 semester hours may, if the student prefers, be chosen from the following courses: History 100, 209-210; Anthropology-Sociology 150-151; Oriental Studies 253; Philosophy 150-151; and Religion 215, 270, 271.

Group III—Biological and Physical Sciences

Requirements of Group III are met by taking at least 48 semester hours in some group of related sciences. (For a statement of the minimum requirements of medical schools and of subjects strongly urged, see Preparation for Professional Degrees.) The 48 hours may be selected from the following:

FIRST AND SECOND YEARS:
Chemistry 101, 102, 150, 152, 153, 271.
Botany 101, 102, 151, 155, 156, 158, 161, 162, 173.
Mathematics 104, 106, 149, 150, 151, 152, 153.
Physics 102, 150, 151, 153, 155, 157.

THIRD AND FOURTH YEARS:
Agriculture 254.
Mathematics 252, 253, 254, 255, 272, 273, 275.
Physics 152, 202, 253, 255, 257, 261.
Geology 252, 253, 254, 255, 260, 261, 262, 200-300.

Group IV—Economics and Business

The only Group IV requirement of the first year (supplementing the requirements, including language, of the College) is History 100.
Second-year group requirements (supplementing those of the College) are:
Economics 150-151.
Business 160-161.
Business 150-151 or 152-153 (students planning to elect either the International Economics and Trade or the General Economic Problems programs, described herein, are exempt from this requirement).

Specialization in economics and business begins in the third year. The student then selects, with the assistance of group advisers, one of six fields or programs of study into which the courses offered are divided. These programs are: (1) Finance, (2) Merchandising, (3) International Economics and Trade, (4) Accounting, (5) General Economic Problems, and (6) Program for Business Women. Each of these programs comprises, in addition to a liberal allowance of elective credit hours, a group of required courses so selected as to present a considerable degree of specialization in the field concerned.

The third- and fourth-year courses in each of these programs follow:

**Finance**
- Economics 256, 257, 261, 265, 288.
- English 210, 211.

**Merchandising**
- Art 274.
- English 210, 211.

**International Economics and Trade**
- English 210, 211.
- Geography 252, 255.

**Accounting**
- Economics 256, 257, 296.
- English 210, 211.

**General Economic Problems**
- Business 267, 282, 288.
- English 210, 211.
- Political Science and History (6 credit hours).
- Anthropology-Sociology 150-151.

**Program for Business Women**
- Art 274.
- Economics 256, 257, 288.
- Political Science and History (6 credit hours).
- Anthropology-Sociology 150-151.
- English 210, 211.
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

Limited programs in Public Health Nursing and Social Work Training also are offered under its auspices.

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.

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 some cases a student may spend his fourth year at some approved professional college and receive a Bachelor of Science degree from this University. (See Preparation for Professional Degrees.)

In mapping 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
Agriculture

College and of the program he selects. Additional credits needed to meet University requirements for graduation, if any, may be earned in any courses he chooses.

Description of the programs follows:

Agriculture

The 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
- Vocational Agricultural Education

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 ten other units in Agriculture, plus enough electives or additional required courses to bring the aggregate to 136. The selection of the additional ten units in Agriculture varies with the major selected.

**First Year**

- Agriculture 100, 151, 152
- Botany 101
- Chemistry 101 or 102
- English 100 or 102
- Mathematics 149 or 150-151
- Military Science (men only)
- Physical Education

**Second Year**

- Agriculture 162 or 164
- Botany 151
- English 110, 150, 154, 156, or 158
- Geology 252 or 256
- Military Science (men only)
- Physical Education
- Physics 102

**Third Year**

- Agriculture 250, 254, 256

**Fourth Year**

- Agriculture 299

Students preparing for General Agriculture or 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 courses 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:

<table>
<thead>
<tr>
<th>THIRD YEAR</th>
<th>FOURTH YEAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture 162 or 164, whichever was not taken in second year</td>
<td>Agriculture 252, 260</td>
</tr>
<tr>
<td>Agriculture 291</td>
<td>Botany 173, 258, 263</td>
</tr>
<tr>
<td>Chemistry 150, 151</td>
<td>Chemistry 152</td>
</tr>
<tr>
<td>Zoology 170</td>
<td></td>
</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>THIRD YEAR</th>
<th>FOURTH YEAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture 253 or 261, 255</td>
<td>Agriculture 261 or 253, 257, 264</td>
</tr>
<tr>
<td>Chemistry 150, 151, 152, 153</td>
<td>Chemistry 260, 262</td>
</tr>
<tr>
<td></td>
<td>Zoology 253, 291</td>
</tr>
</tbody>
</table>

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 advisers 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- (post-graduate) year of work.

Experiment Station Training

A limited number of students in Agriculture, graduate or under-graduate, may be accepted by the Pineapple Producers Cooperative Association experiment station as assistants for a period of training. For this work they receive no University credit. Applications for such training should be made to the Director of the station.

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 graduates 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 an educational 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 104
- Mechanical Drawing 101
- Military Science
- Physical Education

**SECOND YEAR**
- Civil Engineering 151, 153
- Economics 150, 151
- English 110, 150, 154, 156 or 158
- Mathematics 106
- 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 256
- Mechanical Engineering 282, 283, 285
- Physics 202

**Sugar Technology**

Students who complete the Sugar Technology program get enough technical training so that they can be of immediate value in a subordinate position in the sugar industry and enough instruction in theory to prepare themselves for subsequent advancement.

The Hawaiian Sugar Planters’ Association offers many valuable 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 agriculturalist have some knowledge of processes in the sugar factory.
Sugar Chemistry Division

The work of the first two years follows closely that of the Agricultural division, but in the third and fourth years the course differs in offering more work in chemistry, with the purpose of giving such training in chemistry as shall prepare a student not only to become an efficient sugar chemist, but also to conduct investigations leading to better control in the manufacture of sugar.

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, or in connection with the work of the H.S.P.A. experiment station. Students 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  
CHEMISTRY DIVISION

FIRST YEAR

Botany 101  
Chemistry 101 or 102  
English 100 or 102  
Mathematics 149 or  
  Mathematics 150 and 151*  
Mechanical Drawing 101  
Military Science (men only)  
Physical Education

Botany 101  
Chemistry 101 or 102  
English 100 or 102  
Mathematics 149 or  
  Mathematics 150 and 151*  
Mechanical Drawing 101  
Art 154, 155, or Art 150, 151  
Military Science (men only)  
Physical Education

SECOND YEAR

Chemistry 150, 151  
Civil Engineering 101  
English 110, 150, 154, 156, or 158  
Military Science (men only)  
Physical Education  
Physics 102

Chemistry 150, 271  
English 110, 150, 154, 156, or 158  
Military Science (men only)  
Physical Education  
Physics 102

THIRD YEAR

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

Agriculture 250  
Chemistry 230  
Sugar Technology 201, 253, 256

FOURTH 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.

* Students who offer 3½ units of mathematics for entrance are not required to take Mathematics 149 or Mathematics 150 and 151, but are ordinarily expected to elect Mathematics 152, 153.
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 wants 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.

Students entering the University as freshmen planning to major in home economics take the English tests given to all beginning students and also take a Home Economics Placement Test (see page 13). Registration for the first year's work follows the completion of these tests.

**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
- Art 150, 151
- Physical Education
- Household Science 150, except that students whose achievement in the Home Economics Placement Test excuses them from Household Science 150 need not take this course.

Students excused from any freshman requirements may take in their first year either or both of two courses ordinarily required in the second year: Household Art 150-151 and Botany 156.

**Second Year's Program for Home Economics Majors**

Required courses for the second year in all four major fields are: English 110, 150, 154, 156, or 158, Household Science 102, Household Art 114, Economics 150, 151, Physical Education, and—unless they were taken in the first year—Household Art 150-151 and Botany 156. Additional requirements for the second year, varying with the major field selected, follow:

- Chemistry 152 (for Household Science majors);
- Art 154, 155 (for Household Art majors);
- Business 150, 151, Chemistry 152 (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 Science.** Requirements: Home Economics 250, 252, 253, 291; Household Science 200, and 249 or 251; Chemistry 260, 262, 263; Sociology 150, 151; Zoology 291. Suggested elective: Art 172.
Household Art. Requirements: Home Economics 250, 252, 253, 291; Art 170 and 270, or Art 276 and 277; Art 172, 175; Household Art 253; Household Science 272; Sociology 150, 151. Suggested electives: Art 171, 173, 250, 251.


Vocational Home Economics Education. Requirements: Home Economics 201, 250, 251, 252, 253, 291; Household Science 272, 273, and 251 or 249; Sociology 150, 151; Art 172; Education 250, 251, 253. 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: Household Art 253; Psychology 280; Zoology 291; 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
- Zoology
- Chemistry

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, 150, 154, 156, or 158 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. The introductory or fundamental course (6 or more credits each) in five of the following fields:
   - Mathematics
   - Physics
   - Botany
   - Zoology
   - Geology
   - Chemistry
   - Economics or Anthropology-Sociology
6. 66 credits in either the Group A (Physical Sciences) electives or the Group B (Biological Sciences) electives listed on the following pages
7. Either (a) For students whose major is one of the following, 30 hours of credit in that major:
   - Botany
   - Zoology
   - Chemistry
   - Physics and Mathematics
   or (b) For students whose major is premedical work, 20 hours of chemistry and 12 hours of zoology.

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

Students majoring in chemistry are required to take the following courses in chemistry: 101 or 102; 150, 152, 153, 230, 271, 211, 212, and may elect any other chemistry courses. 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 years of resident collegiate work or three years of work leading to a Bachelor of Science degree after a fourth year in a professional school 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 Preparation for Professional Degrees) 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 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>GROUP ELECTIVE WORK</th>
</tr>
</thead>
<tbody>
<tr>
<td>GROUP A—Physical Sciences</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>First Year</th>
<th>Second Year</th>
<th>Third and Fourth Years</th>
</tr>
</thead>
<tbody>
<tr>
<td>Geography 150, 151</td>
<td>Civil Engineering 101</td>
<td>Civil Engineering 231, 252, 253, 255</td>
</tr>
<tr>
<td>Language</td>
<td>Geology 252, 253, 256</td>
<td>Geology 254, 255, 260, 261, 262</td>
</tr>
<tr>
<td>Political Science 150, 151</td>
<td>Mathematics 106</td>
<td>Mathematics 252, 253, 254, 255, 272, 273, 275, 280, 281</td>
</tr>
<tr>
<td>Mathematics 104, 149, 150, 151, 152, 153</td>
<td>Mechanical Drawing 152</td>
<td>Mechanical Engineering 202, 203, 282</td>
</tr>
<tr>
<td>History 100</td>
<td>Physics 102, 150, 151</td>
<td>Physics 152, 202, 253, 255, 257, 261, 351</td>
</tr>
<tr>
<td>First-year electives may be taken by sophomores.</td>
<td>Sugar Technology 201, 250, 252</td>
<td>Sugar Technology 201, 250, 252</td>
</tr>
<tr>
<td>Second-year electives may be taken by juniors and seniors.</td>
<td></td>
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</tbody>
</table>
GROUP B—BIOLOGICAL SCIENCES

FIRST YEAR

Botany 101
Drawing
Geography 150, 151
Language
Political Science 150, 151
Zoology 150, 151
History 100

SECOND YEAR

Botany 102, 155, 156, 162, 173
Chemistry 150, 152, 153, 271
Geology 252, 253, 256
Household Science 102
Language
Psychology 150
Physics 102
Zoology 160, 161, 170, 173, 174, 180, 181
First-year electives may be taken by sophomores.

THIRD AND FOURTH YEARS

Agriculture 250, 254, 256, 261, 262
Botany 151, 158, 200, 253, 254, 258, 260, 263, 268, 269, 300, 365, 367, 370
Chemistry 230, 260, 261, 262, 263, 316, 317
Economics 150, 151
Geology 255, 260, 261, 262
Household Science 200
Physics 255, 257
Zoology 253, 254, 255, 260, 261, 310, 351, 352, 353, 355, 356, 362
Second-year electives may be taken by juniors and seniors.

Nursing Majors

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

The University courses required for completion of the School's program are:

Chemistry 101
Zoology 150-151
Psychology 150
English 100
Anthropology-Sociology 150
Botany 151, 156
Household Science 150, 155

This work may be completed in two semesters and one summer session by a student who devotes her full time to it. Such a student then enters the Queen's Hospital School for Nurses and spends the remaining three years of her program at the Hospital and School.

Alternatively, the University work may be spread over four semesters' time by a student who lives at the Harkness Home for Nurses and combines work in the Hospital with her University work. Such a student devotes full time to the School and Hospital during the third and fourth years of her program.

After completing the four-year program of the School, a student may, if she wishes, return to the University and enroll 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. The subsequent work in the University is planned to meet the individual needs and desires of each student, but must be mapped 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, 154, 156, or 158). 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 the Family Consultation Service, 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.)

Social Work Training

To meet a need for trained social workers, the University offers instruction in social work training. The courses are designed to afford persons already engaged in such work opportunity for further training, and to provide a year of professional training for graduates of this and other universities who in their undergraduate work have fulfilled certain basic requirements. (See Social Work Training in Courses of Instruction.)
Teachers College

Teachers College prepares teachers for the public schools of Hawaii, attempting in every possible way to provide an education that will enable them to give the most practical and cultural service possible to the people of the territory.

The program leading to the Bachelor of Education degree is four years long. A fifth, post-graduate, year of work is provided for students preparing for either elementary or secondary school teaching. The Five-year diploma is granted upon the completion of 30 credit hours of post-graduate work, including intern teaching and other required courses.

A program of professional preparation for teachers must include, along with courses for prospective teachers, courses for teachers in service. Through the Adult Education Division and the summer session, Teachers College offers courses designed especially to meet in-service needs.

Admission

Students entering Teachers College must meet certain standards of health, personality, and oral English, in addition to the general University requirements for admission. The number allowed to enter the freshman year is limited in order that those who graduate may be reasonably certain of obtaining positions in the schools of the territory.

Requirements for Graduation

Candidates are recommended for the degree of Bachelor of Education upon satisfactory completion of the requirements set forth on page 19 in addition to the following:

1. A minimum of 130 semester hours of course work,
2. A minimum of 264 grade points (see page 17), and
3. Prescribed work in studies in Elementary or Secondary Education as follows:

**Elementary Education**

- Participation and Practice Teaching: 12
- Other Education courses: 26
- English: 19
- Social Science: 13
- Natural Science: 12
- Physical and Health Education: 8
- Military Science (men): 6
- Art and Music: 8

**Secondary Education**

- Participation and Practice Teaching: 12
- Other Education courses: 26
- English: 18
- Social Science: 12
- Natural Science: 10
- Physical and Health Education: 8
- Military Science (men): 6
 Requirements for Graduation

Prospective secondary teachers must also complete two teaching majors, with a minimum of 24 semester hours in each, by the end of the fourth year, and a teaching minor of not less than 12 semester hours by the end of the fifth year. Typical teaching majors are: English, Social Studies, Science, Mathematics, Physical Education. Teaching minors are: Art, Commercial subjects, Dramatics and Speech, Journalism, Library Science, Music, Physical Education, Pre-Vocational subjects, and Club Activities.

Basic Courses*

During the first two (freshman and sophomore years) all Teachers College students carry the same work, with the exception of a few electives. These courses are as follows:

FIRST YEAR

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Education 100</td>
<td>3</td>
</tr>
<tr>
<td>English 100</td>
<td>3</td>
</tr>
<tr>
<td>History 100</td>
<td>3</td>
</tr>
<tr>
<td>Military Science (men)</td>
<td>(1)</td>
</tr>
<tr>
<td>Physical Education</td>
<td>1</td>
</tr>
<tr>
<td>Physical Education (women)</td>
<td>(1)</td>
</tr>
<tr>
<td>Survey 100</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>3</td>
</tr>
</tbody>
</table>

Total........................................ 17

SECOND YEAR

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology 135</td>
<td>2</td>
</tr>
<tr>
<td>Education 135</td>
<td>1</td>
</tr>
<tr>
<td>Education 180-181</td>
<td>3</td>
</tr>
<tr>
<td>English 152</td>
<td>3</td>
</tr>
<tr>
<td>Military Science (men)</td>
<td>(2)</td>
</tr>
<tr>
<td>Music 152-153</td>
<td>1</td>
</tr>
<tr>
<td>Physical Education</td>
<td>1</td>
</tr>
<tr>
<td>Sociology 150-151</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>3</td>
</tr>
</tbody>
</table>

Total........................................ 17 (women) 19 (men)

Advanced Courses

At the end of the second year students elect to specialize in either Elementary or Secondary Education.

* For descriptions of all courses offered in Teachers College see Teacher Education in Courses of Instruction.
### Teachers College

#### THIRD YEAR

**ELEMENTARY CURRICULUM**
*(Primary Years)*

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art 261</td>
<td></td>
</tr>
<tr>
<td>Biology 236</td>
<td>2</td>
</tr>
<tr>
<td>Education 235</td>
<td>1</td>
</tr>
<tr>
<td>Education 283-286</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></td>
</tr>
<tr>
<td>Physical and Health Education 220</td>
<td>2</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>
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</tr>
<tr>
<td>Electives</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>17</td>
</tr>
</tbody>
</table>

**ELEMENTARY CURRICULUM**
*(Upper Years)*

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<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 283-286</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>Physical and Health Education 220</td>
<td>2</td>
</tr>
<tr>
<td>Music 251</td>
<td>2</td>
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<tr>
<td>Agriculture 271</td>
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<tr>
<td>Social Science 271</td>
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</tr>
<tr>
<td>Electives</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>17</td>
</tr>
</tbody>
</table>

**SECONDARY CURRICULUM**

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Education 235</td>
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</tr>
<tr>
<td>Education 250-251</td>
<td>3</td>
</tr>
<tr>
<td>English 292-293</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>10</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>17</td>
</tr>
</tbody>
</table>
FOURTH YEAR

The program required of all fourth-year students in Teachers College 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 exclusively to practice teaching; the other half exclusively to required education courses. While one-half of the fourth-year 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.

COURSES

<table>
<thead>
<tr>
<th>Education</th>
<th>Credits</th>
<th>Sem. I</th>
<th>Sem. II</th>
</tr>
</thead>
<tbody>
<tr>
<td>Education 237</td>
<td></td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Education 254</td>
<td></td>
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<td>Education 261</td>
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<tr>
<td>Education 268</td>
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<td>2</td>
<td></td>
</tr>
<tr>
<td>Education 295</td>
<td></td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td></td>
<td>16</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>16</td>
<td>16</td>
</tr>
</tbody>
</table>

FIFTH YEAR

The work required of all fifth-year students in Teachers College consists of two parts: (1) one semester of interne 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 carries the interne teaching.

COURSES

<table>
<thead>
<tr>
<th>Education</th>
<th>Credits</th>
<th>Sem. I</th>
<th>Sem. II</th>
</tr>
</thead>
<tbody>
<tr>
<td>Education 340</td>
<td></td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Education 350</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Education 351</td>
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<td>2</td>
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<tr>
<td>Education 354</td>
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<tr>
<td>Education 390</td>
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<td>2</td>
<td></td>
</tr>
<tr>
<td>Education 395</td>
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<td></td>
<td>2</td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>16</td>
<td>16</td>
</tr>
</tbody>
</table>

Master of Education Degree

Candidates for the Master of Education degree must have met the essential requirements of the Bachelor of Education degree, including practice teaching. The candidate must complete a graduate program of 30 semester hours and present an acceptable thesis. For matriculation the candidate must pass a comprehensive examination in the fields of Philosophy of Education, Educational Psychology, History of Education, and Educational Administration. The matriculation examination may not be taken until the candidate can present graduate course credit in the four fields covered. Interne teaching or successful teaching experience is also prerequisite to matriculation. Graduate education course requirements for the Five-year diploma, with the exception of Education 354 and 395, are acceptable in partial fulfillment of requirements for
the Master of Education degree. The graduate program is explained further in another section of this catalogue, and an announcement of courses is issued separately.

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 page 32). Basic professional education courses and practice teaching are required. English usage and other selective criteria used in Teachers College apply to prospective vocational teachers as well. The students in these divisions register in Teachers College for the fifth (graduate) year, during which one semester is devoted to interne teaching and one to the education course requirements set up for all others.
The Graduate Division

Students registered in the Graduate Division are principally of two types: (1) candidates for advanced degrees and (2) teachers seeking professional improvement by taking graduate courses.

The Division offers opportunities for advanced study and research in the following fields:

- Anthropology
- Botany
- Business
- Chemistry
- Education
- English
- Entomology
- Genetics
- Geography
- History
- International Relations
- Nutrition
- Oriental Studies
- Philosophy
- Soil Science
- Speech
- Sociology
- Social Work
- Training
- Zoology

In several of these fields the opportunity is unusual.

Through the Oriental Institute of the University, graduate study and research in the cultures and civilizations of Eastern Asia are emphasized.

Study of the physical and biological sciences relating to tropical agriculture is facilitated by the Graduate School of Tropical Agriculture. 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 the related fields of physics and botany may be pursued at Kilauea Volcano Laboratory, situated at Kilauea Crater on the island of Hawaii.

Requirements for Advanced Degrees

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 that may be accepted is eight semester hours.

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 sixteen.

No extension course may be counted toward an advanced degree.

Students in the Graduate Division may not register for more than 16 credit hours in any semester, more than six credit hours in a six-weeks summer session, or more than three credit hours in any post summer session. The number of credit hours that may be carried by students engaged as faculty assistants is limited by the nature of their duties.

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.
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.

Candidates for advanced degrees who fail to complete successfully 75 per cent of the course credits they carry are automatically dropped from 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 students not interested in earning an advanced degree need not meet the requirements for admission to candidacy.

**The Master's Degree**

The University awards three Master's degrees, namely, the Master of Arts, the Master of Science, and the Master of Education.

The minimum period of residence is one academic year or four six-weeks summer sessions. All credits applying toward the Master's degree must be obtained within the five years preceding the date on which the degree is granted. Candidates failing to obtain the degree within five years after admission to candidacy must again qualify for candidacy. Exceptions to this rule may be made by the Director of the Graduate Division on the recommendation of the qualifying committee.

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 six semester hours may be earned in the thesis research course, except that in the natural and physical sciences a maximum of twelve is allowed. Of the credits in the major subject other than those received in connection with the preparation of the thesis at least one-half must be earned in courses numbered 300 or over. All of the course work 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 candidates in other fields.

A thesis is required of all candidates for the Master's degree. The thesis should deal with a topic 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 the preceding November 15 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 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*

The degree of Sugar Technologist (S.T.) is granted to Bachelors of Science in Sugar Technology from this institution and to other Bachelors of Science whose undergraduate work has included the proper basic studies. To become a candidate for this degree 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 Master's degrees.

*The Doctor of Philosophy Degree*

Ordinarily candidates for the Doctor of Philosophy (Ph.D.) degree are accepted only in those sciences basic to tropical agriculture.

For this degree the student is required to spend at least three academic years in residence, at least one year of which must be at the University of Hawaii; to complete satisfactorily a program of research and study prescribed by the committee in charge of his candidacy; and to pass certain examinations. 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.

**Graduate Fellowships and Scholarships**

The University offers a number of fellowships to graduates of accredited institutions 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 $250 to $600, 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.

Graduate scholarships are available to a limited number of qualified students in Oriental studies. A more detailed description of these scholarships may be obtained from the Director of the Oriental Institute.

The Graduate Division Announcement, issued annually, states further details of work in the Division.
Announcement of
Courses of Instruction for the Academic Year 1939-1940

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 are listed under Teacher Education.

Courses not offered in the academic year 1939-1940 may be found under Other Courses at the end of each group.

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

Professors Harold A. Wadsworth, B.S., John H. Beaumont, Ph.D., Louis A. Henke, M.S., Julius L. Collins, Ph.D.; Associate Professor Samuel H. Work, Ph.D.; Assistant Professors Charles M. Bice, B.S., Lyman A. Dean, Ph.D., Milton A. Miller, Ph.D.

Professor Wadsworth, chairman

Mr. Wadsworth

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

151 ANIMAL HUSBANDRY
Mr. Henke
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
Mr. Bice
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
Mr. Beaumont
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, Botany 101. Two lectures and one laboratory period a week. Laboratory fee $1.
250 **SOILS**

*First semester only; 4 credits.*

Origin and physical properties of local soils. Texture, structure, and moisture relations. Prerequisites: Chemistry 101 or 102, Physics 102. Three lectures or recitations and one laboratory period a week. Laboratory fee $2.

252 **SUGAR CANE PRODUCTION**

*H.S.P.A. Expt. Sta. Staff*

*First semester only; 4 credits.*

Varieties of cane, their planting, irrigation, fertilization, and harvesting. Visits to experimental fields and plantations. Students keep Fridays free as possible for field trips. Prerequisites: Agriculture 250, 254. Lectures, assigned readings, and laboratory periods. Laboratory fee $2.

254 **PRINCIPLES OF GENETICS**

*Mr. Miller*

*First semester only; 3 credits.*

Fundamentals of genetics, including principles of Mendelian and Neo-Mendelian inheritance, physical basis of heredity, variation, and an introduction to biometric methods. Two lectures and one laboratory period a week. Prerequisites: Botany 101 and Zoology or a year of either Botany or Zoology.

255 **POULTRY HUSBANDRY**

*Mr. Bice*

*Second semester only; 3 credits.*

Problems of management on a commercial poultry farm. Assigned readings, discussions, and an hour report on one phase of the poultry industry. Prerequisites: Agriculture 152. Two lectures and one recitation a week. Not open to freshmen. Laboratory fee $1.

256 **PRINCIPLES OF AGRONOMY**

*Mr. Miller*

*Second semester only; 3 credits.*

Botany of crop plants, principles of economic production of field and garden crops, crop rotation, maintenance of soil fertility. Two lectures and one laboratory period a week. Prerequisites: Botany 101, Chemistry 101 or 102. Laboratory fee $1.

257 **FEEDS AND FEEDING**

*Mr. Henke*

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

Principles of feeding and their application to farm and plantation animals.

259 **POULTRY HUSBANDRY**

*Mr. Bice*

*Second semester only; credit by arrangement.*

Special problems in poultry husbandry research. Individual work.

260 **PINEAPPLE PRODUCTION**

*P.P.C.A. Expt. Sta. Staff*

*First semester only; 3 credits.*

A general study of pineapple production. Prerequisites: Botany 101, Chemistry 101 or 102, Agriculture 250. Laboratory fee $1.

261 **BEEF AND SWINE PRODUCTION**

*Mr. Work*

*Second semester only; 3 credits. (Alternate with Agriculture 253.)*

The breeds, care, management, and feeding of beef cattle and swine, with particular reference to Hawaiian conditions. Two lectures or recitations and one laboratory or study period a week. Laboratory fee $1.

262 **ADVANCED GENETICS**

*Mr. Collins*

*Second semester only; 3 credits.*

Organization of germinal materials. Methods and results of modification of germinal materials. Primarily for those who expect to make genetics a major study or to engage in academic or experiment station work. Two lectures a week, problems, assigned reading, field trips, and demonstrations. Prerequisite: Agriculture 254.

264 **SEMINAR IN ANIMAL NUTRITION**

*Mr. Henke*

*Second semester only; 1 credit. (Alternate years.)*

Recent investigations in animal nutrition. Oral reports by students on special topics after a review of the literature. One class meeting each week. Prerequisites: Agriculture 257, sufficient training in Chemistry, and consent of instructor.

265 **AGRICULTURAL THESIS**

*Staff*

Credit by arrangement.

Advanced individual work in field, laboratory, and library.

267 **AGRICULTURAL CHEMISTRY**

*Mr. Dean*

*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.
Courses of Instruction

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.

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. Open to juniors and seniors. Three recitations, one laboratory period a week. 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. Two recitation-lecture periods a week.

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

302 RESEARCH IN GENETICS
Credit by arrangement.
Prerequisite: graduate standing and consent of instructor.

305 RESEARCH IN SOIL CHEMISTRY OR SOIL PHYSICS
Second semester only; 2 credits.
The crops, cultural practices, and agricultural institutions of the principal agricultural countries of the world. Two recitation-lecture periods a week.

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

OTHER COURSES
The following courses, ordinarily given in alternate years, will not be offered in 1939-40:
164 Truck Crop Production—First semester only; 3 credits.
253 Dairying—Second semester only; 3 credits.

Anthropology and Sociology

Professor Felix M. Keesing, D.Litt.; Associate Professor Andrew W. Lind, Ph.D.; Assistant Professors Gordon T. Bowles, Ph.D.; Denzel Carr, Ph.D.; John F. Embree, Ph.D.; Instructor (to be announced); Lecturers Peter H. Buck, D.S.O., M.D., Kenneth P. Emory, M.A.

Professor Keesing, chairman

150-151 INTRODUCTION TO THE STUDY OF MAN
Year course; 3 credits each semester.
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.

273 MODERN AMERICA
Second semester only; 3 credits.
Society in a new machine-age immigrant-settled country in contrast to that of old indigenous folk communities in Europe and Asia.

(Other courses in anthropology and sociology are listed separately under those titles.)

Anthropology

(Faculty listed under Anthropology and Sociology)

150-151 INTRODUCTION TO THE STUDY OF MAN
(For description, see Anthropology and Sociology.)
170 DEVELOPMENT OF MAN
Mr. Bowles
First semester only; 2 credits.
Introduction of physical anthropology and prehistoric archaeology: man's origin and place in nature. The development of racial differences. This course, when taken together with Anthropology 171 and Sociology 170, is accepted as equivalent to Anthropology and Sociology 150-151. Credit not obtainable in this course if Anthropology and Sociology 150-151 is taken for credit.

171 MAN AND CULTURE
Mr. Embree
Second semester only; 2 credits.
Relation of man to his culture; culture spread and independent invention; role of environment. Readings on selected tribes, e.g., Eskimo, Asiatic nomads, Australian, and African. This course, when taken together with Anthropology 170 and Sociology 170, is accepted as equivalent to Anthropology and Sociology 150-151. Credit not obtainable in this course if Anthropology and Sociology 150-151 is taken for credit.

180 ASIA
Mr. Bowles
Second semester only; 2 credits.
Introductory archaeology and ethnology of the peoples of Asia. Prehistoric races and cultures. Hunters and food gatherers; nomads and agriculturalists. The great civilizations. Primarily for late afternoon students. Credit not obtainable in this course if Anthropology 254 or Anthropology 275 is taken for credit.

250 THE POLYNESIANS
Mr. Keesing
First semester only; 2 credits.
Comparative study of the peoples of Polynesia. Theories as to their origins, migrations, and relationships. Special attention to ancient Hawaiian culture.

255 THE AMERICAN INDIAN
Mr. Embree
First semester only; 2 credits.
American Indian tribes and culture areas, especially in North America—Iroquois, Pueblo, Plains, etc. Also the civilizations of Mexico, Central America, and Peru.

257 PEOPLES OF THE WORLD
Mr. Embree
First semester only; 3 credits.
An ethnographic course dealing with the peoples and cultures of the world, their distribution, and their social and religious systems.

258 GENERAL ETHNOLOGY
Mr. Embree
Second semester only; 3 credits.
Development of human cultures; problems of diffusion, independent invention, and the relationship of environment to culture. Prerequisite: Anthropology and Sociology 150-151 or Anthropology 257.

259 LANGUAGES OF THE WORLD
Mr. Carr
Second semester only; 2 credits.

261 RACE AND RACE MIXTURE
Mr. Bowles
Second semester only; 2 credits.
Historic development of concepts of race. Genetic differences in man, especially as they affect human differentiation into "races." Factors in race crossings.

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

269 FOLKLORE
Mr. Embree
Second semester only; 2 credits.
Myth and legend in preliterate society. Function of myth in society. Development and spread of plot patterns. Reading of monographs on folklore of various tribes. Prerequisite: Anthropology and Sociology 150-151 or consent of instructor.

270 FOLK SOCIETY IN JAPAN AND CHINA
Mr. Embree
First semester only; 3 credits.
Peasant life in Japan and China. Village organization, festival and seasonal calendar. Family systems. Parallels and relationships of folk society in the two countries.
Courses of Instruction

272 Modern Changes Among Pacific Peoples  Mr. Keesing
   Second semester only; 2 credits.
   The experience of indigenous Pacific peoples in contact with western civilization. Economic, social, religious, and other adjustments. Forces making for change and conservatism.

273 Modern America  Mr. Embree
   (For description, see Anthropology and Sociology.)

275 Prehistory of Asia  Mr. Bowles
   First semester only; 3 credits.
   Prehistoric races and cultures of Asia, especially eastern Asia, including recent archaeological finds. Development of the great civilizations of the Near East and Far East.

277 Southeast Asia  Mr. Embree, Mr. Bowles
   Second semester only; 2 credits.
   Archaeology and ethnology of Burma, Siam, Indo-China, and Malaya, with attention to: (1) cultural and racial interrelations; (2) religious and other cultural influences from China and India.

280-281 Physical Anthropology  Mr. Bowles
   Year course; 3 credits each semester.
   Measurement and statistical treatment of skeletal anatomy and external morphology of man. Age, race, sex variations. Position of man and fossil man among the primates. Two lectures and one laboratory period a week. Prerequisite: Anthropology and Sociology 150-151, Zoology 150, or consent of instructor.

290 Independent Study and Honors  Staff
   Credit by arrangement.
   Prerequisite: consent of department chairman.

300 Advanced Reading  Staff
   Credit by arrangement.
   Prerequisite: consent of department chairman.

350-351 Seminar in Anthropology  Staff
   Year course; 2 credits each semester.
   Open to advanced students. Prerequisite: consent of department chairman.

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

Other Courses

The following courses, ordinarily given in alternate years, will not be offered in 1939-40:

252 Peoples of the Pacific—Second semester only; 2 credits.
254 Peoples of Asia—First semester only; 3 credits.
262 Introduction to Linguistics—First semester only; 3 credits.
263 Prehistory of Europe and Africa—Second semester only; 3 credits.
265 Primitive Society—First semester only; 2 credits.
268 Primitive Art and Craft—Second semester only; 2 credits.
271 Applied Anthropology—First semester only; 2 credits.
274 Foundations of Civilization in India—Second semester only; 2 credits.
278 Phonetics and Phonemics—Second semester only; 2 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.

156 **Beginning Commercial Art**  
*Mr. Norris*  
*First semester only; 2 credits.*  
Design applied to commercial layout. Lettering as the foundation of all commercial work. Study of advertising, posters, etc. in pencil, pen, and color. Prerequisites: Art 150-151, 154-155.

160-161 **Oil Painting**  
*Mr. Luquiens*  
*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**  
*Mr. Norris*  
*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 **Industrial Design**  
*Mr. Norris*  
*Second semester only; 2 credits.*  
Primarily an appreciation course to further the understanding of design in everyday objects, including "machine art": furniture, kitchen utensils, automobiles, radios, etc. Lectures, lantern slides, and some drawing. Prerequisite: Art 150-151.

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

175 **Textile Decoration**  
*Mrs. Fisher*  
*Second semester only; 2 credits.*  
Advanced problems in tie dye, batik, appliqué, etc. Prerequisite: Art 150-151.

250-251 **History of Art**  
*Mr. Norris*  
*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: junior standing or consent of instructor.

261 **Creative Art for the Primary Years**  
*(For description, see Teacher Education, Art.)*  
*Mrs. Fisher*

262 **Creative Art for the Upper Elementary Years**  
*(For description, see Teacher Education, Art.)*  
*Mrs. Fisher*

263 **Creative Art for the Secondary School Years**  
*(For description, see Teacher Education, Art.)*  
*Mrs. Fisher*

266 **Etching**  
*Mr. Luquiens*  
*First semester only; 2 credits.*  
Technical methods of etching. Outdoor subjects used, but advanced students are given opportunity for individual treatment of any subject matter they choose. Two periods weekly, studio and outdoor work. Prerequisite: Art 160-161.

270 **Advanced Composition**  
*Mr. Norris*  
*Second semester only; 2 credits.*  
Continuation of Art 170, allowing maximum freedom for individual expression in fields chosen by the student. Prerequisite: Art 170.
276-277  STAGE DESIGN  Mr. Norris

Year course; 2 credits each semester.
Designing for the stage. Study of sets, costumes, and lighting, including use of miniature models. The course cooperates with the University of Hawaii Theatre Guild in its productions. Prerequisites: Art 150-151, 154-155.

370-371  MODERN PAINTING AND DESIGN  Staff

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.

OTHER COURSES

The following courses, ordinarily given in alternate years, will not be offered in 1939-40:

173  Advanced Interior Decoration—Second semester only; 2 credits.
268  Landscape—First semester only; 2 credits.
269  Life Class—Second semester only; 2 credits.
272  Illustration—First 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.

Botany

Professor Harry F. Clements, Ph.D.; Visiting Professor Ernst Atchearn Bessey, Ph.D.; Associate Professors Oscar Nelson Allen, Ph.D., G. K. Parris, Ph.D., Maurice B. Linford, Ph.D.; Instructors Charles J. Engard, Ph.D., Daniel M. Weller; Graduate Assistant Robert W. Baxter, B.A. Absent on leave 1939-40: Professor Harold St. John, Ph.D.

Professor St. John, chairman

101  GENERAL BOTANY  Mr. Clements and Staff

Year course; 3 credits each semester.
Introduction to botany; structure of seed plants; relation of form to function; adjustment to environmental conditions; plant survey from algae to seed plants; evolution in relation to habitat. One lecture and two laboratory periods a week. Laboratory fee $4 a semester.

102  SYSTEMATIC BOTANY OF FLOWERING PLANTS  Mr. Baxter

Year course; 3 credits each semester.
Native and exotic Hawaiian flowering plants, their classification, history, distribution, use. Trips to mountains. Preparation of a herbarium. One lecture and two laboratory periods a week. Prerequisite: Botany 101. Laboratory fee $2 a semester.

103  EVOLUTION  Mr. Bessey

Second semester only; 2 credits.
Evolution in the plant kingdom, the simple ancestral plants, the lines of development to the complex higher plants. The place of evolution in science and human thought.

151  GENERAL BACTERIOLOGY  Mr. Allen

First semester, 4 credits; repeated second semester.
Introduction to physiological reactions and culture of microorganisms and laboratory technique; first semester emphasizes industrial and agricultural applications; second semester emphasizes medical phases. Two lectures and two laboratory periods a week. Prerequisite: Botany 101 or Zoology 151. Laboratory fee $5.

155  NUTRITION OF PLANTS  Mr. Clements

First semester only; 2 credits.
Nature of seeds; nutrition of the embryo during germination; intake of raw materials; manufacture of food by the adult plant. Two lectures a week with demonstrations. No prerequisites. Open to freshmen. Not open for credit to students who have taken Botany 173.
156 BACTERIA IN RELATION TO THE INDIVIDUAL AND THE PUBLIC

Mr. Allen

First semester, 2 credits; repeated second semester.

Major contributions of bacteriological research to agriculture, dairying, mechanisms of sewage disposal, and study of communicable diseases. Two lectures a week. No prerequisites. Open to freshmen. Not open for credit to students who have taken Botany 151.

158 MYCOLOGY

Mr. Bessey

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

Structure, classification, and physiology of major groups of fungi. One lecture and two laboratory periods a week. Prerequisite: Botany 101 or two semesters of zoology. Laboratory fee $5.

173 ELEMENTARY PLANT PHYSIOLOGY

Mr. Engard

Second semester only; 4 credits.

Introduction to plant physiology; osmosis, absorption of water and its ascent into plants, transpiration, mineral utilization, photosynthesis, storage, digestion, respiration, growth, photoperiodism. Three lectures and one laboratory period a week. Prerequisites: Botany 101 and Chemistry 101. Laboratory fee $2.

200 BOTANICAL PROBLEMS

Staff

First semester, credit by arrangement; repeated second semester.

The pursuit of any advanced botanical problem. Reading and laboratory work. Can be taken repeatedly. Prerequisite: consent of instructor concerned. Laboratory fee $1 a semester.

260 MEDICAL BACTERIOLOGY

Mr. Allen

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

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 two laboratory periods a week. Recommended for students of nursing and premeds. Prerequisite: Botany 151. Laboratory fee $5.

263 PLANT PATHOLOGY

Mr. Parris

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

Organisms (Fungi, Bacteria, Nematodes, and Viruses) that cause disease in plants, with special reference to Hawaii; symptoms, etiology of the pathogene, and control measures. One lecture and two laboratory periods a week; occasional field trips. Prerequisites: Botany 101, 158. Laboratory fee $3.50.

269 PLANT ANATOMY

Mr. Weller

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

Structure of vascular plants; origin and differentiation of tissues; relation to function. One recitation and two laboratory periods a week. Prerequisite: Botany 101. Desirable preparation: Botany 268. Laboratory fee $6.

300 BOTANICAL RESEARCH

Staff

Credit by arrangement.

Prerequisite: graduate standing and consent of instructor concerned. Laboratory fee $1.

303 PLANT PATHOLOGY SEMINAR

Linford

First semester only; 1 credit.

Review of present knowledge in selected fields of plant pathology. Prerequisite: consent of instructor.

310 BOTANICAL SEMINAR

Staff

Year course; 1 credit each semester.

Presentation of seminar reports, reports upon research, or reviews of current botanical literature. One recitation a week. May be taken repeatedly.

311 SEMINAR IN MYCOLOGY AND ITS APPLICATIONS

Mr. Bessey

Year course; 1 credit each semester.

Lectures and discussions of the life history of the various fungi and their economic importance.

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.

353 THE NITROGEN CYCLE (formerly Soil Science 350 in Graduate School
Courses of Instruction

58

of Tropical Agriculture)  Mr. Allen

First semester only; 1 credit.

A critical study of the transformation of nitrogenous materials in soil caused by microorganisms. Emphasis on practical aspects of these processes.

360 IMMUNOLOGY  Mr. Allen

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

Lectures and discussions dealing with the natural, active, and passive types of immunity to specific diseases. Common diagnostic serological reactions. Two two-hour lecture periods a week. Prerequisite, or to be taken same semester: Botany 260.

400 THESIS RESEARCH  Staff

Credit by arrangement.

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

OTHER COURSES

The following courses, ordinarily given in alternate years, will not be offered in 1939-40:

161 Plant Geography—First semester only; 2 credits
162 Structure of Economic Plants—First semester only; 3 credits.
253 Plant Ecology—Second semester only; 4 credits.
254 Advanced Taxonomy—First semester only; 4 credits.
258 Agricultural Microbiology—First semester only; 4 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.
352 Microbial Decomposition of Plant Materials—First semester only; 1 credit.
365 Taxonomy of the Dicotyledons (formerly 265)—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.

Business

(Faculty listed under Economics and Business.)

150-151 ELEMENTARY ACCOUNTING  Mr. Graham

Year course; 3 or 4 credits each semester.

Fundamental principles, including the accounting problems of single proprietorships, partnerships, and corporations. A 3-credit course; 1 credit laboratory in addition required of all economics and business majors who have not passed creditably two full years of high school bookkeeping. Laboratory open only to economics and business majors. Prerequisite: sophomore standing in the department or permission of instructor.

160-161 ELEMENTARY BUSINESS LAW (formerly 260-261)  Mr. Hochber

Year course; 2 credits each semester.


252-253 INTERMEDIATE ACCOUNTING  Mr. Delpech

Year course; 3 credits each semester.

The balance sheet: form, content, and such related problems as depreciation, valuation of assets. Mergers and the construction of consolidated statements. Evening course primarily for Unclassified students. Credit not obtainable in this course if Business 250-251 is taken for credit. Prerequisites: grade of C or better in one of the following, (1) Business 150-151, or (2) 152-153; and one of the following, (1) Economics 150-151, or (2) consent of instructor or department chairman.
254  COST ACCOUNTING  Mr. Graham  
*First semester only; 2 credits.*  
Elementary discussion of such aspects of cost accounting as sources of costs, cost units, 
cost gathering, and use of cost data. Prerequisite: credit or concurrent registration in one 
of the following, (1) Business 250-251, or (2) 252-253; and one of the following, (1) 
Economics 150-151, or (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: credit or concurrent registration in Business 150-151 
or 152-153 and 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. Pre­ 
requisites: credit or concurrent registration in Business 250-251 or 252-253 and in Economics 
150-151.

262  PRINCIPLES OF INSURANCE  Mr. Cameron  
*First semester only; 2 credits.*  
Contracts, types, and problems of carriers; state supervision of private insurance, 
insurance in state policy. Prerequisites: Economics 150-151 and Business 160-161.

264  PRINCIPLES OF BUSINESS  Mr. Cameron  
*Second semester only; 3 credits.*  
Choosing goods to handle; time to enter business; location, size, and legal form of 
organization; selecting, handling, and promoting executives; choosing selling policies; and 
promoting good public relations. Prerequisite: Economics 150-151.

265  CORPORATION FINANCE  Mr. Hoflich  
*Second semester only; 3 credits.*  
Determination of capital requirements; sources of and devices used to procure capital; 
making securities; control of capital disbursements; credit and income. Prerequisites: 
Economics 150-151 and either Business 150-151 or 152-153.

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

270-271  PRINCIPLES OF MARKETING  Mr. Hoeber  
*Year course; 3 credits each semester.*  
General survey of the marketing structure; problems of industrial society, emphasizing 
making functions and channels, market analysis and research, and marketing policies. Pre­ 
requisites: 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, Business 270-271.

280  SALESMANSHIP AND SALES MANAGEMENT  Mr. Hoflich  
*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, 
Business 270-271.

282  STATISTICS (formerly 291)  Mr. Hoflich  
*Second semester only; 3 credits.*  
The science; uses, characteristics, and sources; gathering material; statistical units; 
collecting and tabulating data; diagrams, frequency tables, and graphs; averages; index 
numbers; comparison of variables, etc. Prerequisite: junior standing.

285  LAW OF CONTRACTS (formerly 292)  Mr. Hoeber  
*Year course; 2 credits each semester.*  
Formation, sealed contracts, assignment, parties affected, joint and joint-and-several 
contracts, performance and breach, statute of frauds, illegality, discharge, etc. Prerequisite: 
grade of C or better in Business 160-161.
Courses of Instruction

291 LAW OF PERSONAL PROPERTY
   First semester only; 2 credits.
   Mr. Hoeber
   Nature of; methods of acquiring and transferring; ownership and possession and their legal incidents; chattel mortgages; bailments; safe-deposit boxes; public carriers of goods. Prerequisite: grade of C or better in Business 160-161.

292 LAW OF REAL PROPERTY
   Second semester only; 2 credits.
   Mr. Hoeber
   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: grade of C or better in Business 160-161.

298-299 Pro-Seminar in Accounting
   Year course; 2 credits each semester.
   Mr. Graham
   Prerequisite: permission of instructor.

305-306 Seminar in General Business
   Year course; 2 credits each semester.
   Staff
   Prerequisite: graduate standing and consent of department chairman.

Other Courses
The following courses, ordinarily given in alternate years, will not be offered in 1939-40:
152-153 Elementary Accounting—Year course; 3 credits each semester.
250-251 Intermediate Accounting—Year course; 3 credits each semester.
259 Office Management—Second semester only; 2 credits.
266 Investments and Investment Banking—First semester only; 3 credits.
273 Economics of Advertising—Second semester only; 3 credits.
276 Economics of Retail Merchandising—First semester only; 3 credits.
286 Law of Sales (formerly 293)—First semester only; 2 credits.
287 Laws of Bills, Notes, and Interest (formerly 294)—Second semester only; 2 credits.
288 Law of Partnerships—First semester only; 1 credit.
289 Law of Corporations—Second semester only; 2 credits.
290 Law of Agency—First semester only; 1 credit.

Chemistry and Sugar Technology
Professors Frank T. Dillingham, M.A., Leonora Neuffer Bilger, Ph.D., William R. McAllep; Associate Professor Earl M. Bilger, Ph.D.; Assistant Professor John H. Payne, Ph.D.; Instructor Giichi Fujimoto, M.S.

Professor Dillingham, chairman

Chemistry
(Faculty listed under Chemistry and Sugar Technology.)

Students specializing in chemistry are required to take the following courses: 101 or 102; 150, 152, 153, 230, 271, 211, and 212, and may elect any other chemistry courses. One year of college physics and one of mathematics are strongly advised.

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

*Mrs. Bilger*

Year course; 4 credits each semester.

A comprehensive survey designed for students who have had one year of chemistry in preparatory school. Three lecture or discussion periods and one laboratory practice a week. Laboratory fee $7 a semester.

150 **QUALITATIVE ANALYSIS**

*Mr. Bilger*

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 two laboratory periods a week. Prerequisite: Chemistry 101 or 102. Laboratory fee $8.

151 **QUANTITATIVE ANALYSIS, SHORT COURSE**

*Mr. Fujimoto*

Second semester only; 4 credits.

Principles of gravimetric and volumetric analysis. Two lectures and two laboratory periods a week. Prerequisite: Chemistry 101 or 102; 150. Laboratory fee $8.

152 **ELEMENTARY ORGANIC CHEMISTRY**

*Mr. Payne*

First semester only; 4 credits.

Introduction to chemistry of carbon compounds, dealing chiefly with fundamental principles and detailed study of the aliphatic series. Three lectures and one laboratory period a week. Prerequisite: Chemistry 101 or 102. Laboratory fee $9.

153 **INTERMEDIATE ORGANIC CHEMISTRY**

*Mr. Payne*

Second semester only; 4 credits.

Continuation of Chemistry 152, covering principally the aromatic and heterocyclic compounds. Three lectures and one laboratory period a week. Prerequisite: Chemistry 101 or 102. Laboratory fee $9.

211 **PHYSICAL CHEMISTRY**

*Mr. Bilger*

Year course; 3 credits each semester.

Fundamental theories and principles of chemistry. Three lectures a week. Prerequisites: Chemistry 150, 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 a 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 two laboratory periods a week. Prerequisites: Chemistry 101 or 102; 150. Laboratory fee $8 a semester.

240 **HONORS COURSE 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 101 or 102; 150, 152, 153, 230, 271; Mathematics 152, 153; Physics 102; credit or concurrent registration in Chemistry 211 and 212. Laboratory fee $6 a 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; 151, 152.

261 **AGRICULTURAL CHEMISTRY**

*Mr. Dillingham*

Second semester only; 4 credits.

Lectures, recitations, supplementary reading, and laboratory periods dealing with chemistry of soils, fertilizers, and foods. Prerequisite: Chemistry 260. Two lecture-recitations and two laboratory periods a week. Since the laboratory work in Chemistry 261 and Chemistry 263 is identical, students taking both courses can obtain 2 credits only for Chemistry 261. Laboratory fee $6.

262 **BIOLOGICAL CHEMISTRY LABORATORY**

*Mr. Dillingham*

First semester only; 1 credit.

A laboratory course covering experimental studies of proteins, fats, carbohydrates, enzymes, milk, urine. One laboratory period a week. Prerequisites: Chemistry 101 or 102; 151, 152. Laboratory fee $5.
263 **FOOD ANALYSIS**  
*Second semester only; 3 credits.*  
Chemistry of food; food laws, food preservation, and methods of food analysis. One lecture-recitation and two laboratory periods a week. Prerequisite: Chemistry 260. Since the laboratory work in Chemistry 261 and Chemistry 263 is identical, students taking both courses can obtain 2 credits only for Chemistry 261. Laboratory fee $6.

271 **COLLOIDAL CHEMISTRY**  
*Second semester only; 3 credits.*  
Chemistry of colloids. Assigned readings and written reports. Two lectures and one laboratory period a week. Laboratory fee $5.

302 **RESEARCH IN PHYTOCHEMISTRY**  
*Year course; credit by arrangement.*  
Designed for students who wish to pursue research in chemistry related to tropical agriculture. Prerequisite: consent of instructor. Laboratory fee $10 a semester.

310 **SEMINAR IN CHEMISTRY**  
*Year course; 1 credit each semester.*  
Recent advances in physico-chemical, organo-chemical, and analytical problems in biological fields. One 1/2-hour period a week. Prerequisite: 1 year of Physical Chemistry.

313 **SELECTED TOPICS IN ADVANCED PHYSICAL CHEMISTRY**  
*Year course; 2 credits each semester.*  
Phase rule, molecular structure, photochemistry, electrochemistry, and recent advances in physical 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 a semester.

315 **CHEMICAL LITERATURE**  
*Year course; 1 to 2 credits each semester.*  
Articles in current chemical periodicals are studied, and topics are assigned for reports. Prerequisites: Chemistry 101 or 102; 150, 152, 153, 230. May be taken in conjunction with Chemistry 211, 212, 316, and 317.

316 **ADVANCED QUANTITATIVE ANALYSIS**  
*Year course; 3 credits each semester.*  
Primarily a laboratory course covering the analysis of such materials as foodstuffs, fertilizers, soils, sugarhouse products, water, urine, etc. Prerequisites: Chemistry 101 or 102; 150, 152, 153, 230. Laboratory fee $6 a semester.

317 **ADVANCED ORGANIC CHEMISTRY**  
*First semester only; 3 credits.*  
Designed to develop maturity in the literature of the carbon compounds and manipulative technique in the laboratory. Two laboratory periods and one discussion hour a week. Prerequisite: Chemistry 153. Laboratory fee $9.

318 **CHEMISTRY RESEARCH**  
*Year course; credit by arrangement.*  
Research in pure or applied chemistry. Prerequisites: Chemistry 101 or 102; 150, 152, 153, 230, 271, or their equivalents; credit or concurrent registration in Chemistry 211, 212, and in 316, 317, or 350; and consent of instructor concerned. Laboratory fee $10 a semester.

319 **QUANTITATIVE MICROANALYSIS**  
*Second semester only; 2 credits.*  
Typical methods of both organic and inorganic quantitative microanalysis. Prerequisite: Chemistry 230. Laboratory fee $8.

320 **THEORETICAL ORGANIC CHEMISTRY**  
*Year course; 2 credits each semester.*  
Modern valence theories, Ingold and Pauling systems, resonance, new physical methods of investigation, rotary dispersion and optical activity, molecular rearrangements, and dipole moments. Prerequisite: senior standing. Open only to chemistry majors.

350 **ORGANIC ANALYSIS**  
*Second semester only; 3 credits.*  
Introduction to the technique of organic analysis, both qualitative and quantitative. Three laboratory periods a week. Prerequisites: Chemistry 153, 230. Laboratory fee $9.
Economics

400 Thesis Research

Credit by arrangement.

Only graduate students engaged in the preparation of theses may register in this course. Prerequisites: Chemistry 101 or 102; 150, 152, 153, 230, 271, or their equivalents; credit or concurrent registration in Chemistry 211, 212, and in 316, 317 or 350. Laboratory fee $10 each semester.

Chinese

(See Oriental Studies)

Economics and Business

Professors Merton K. Cameron, Ph.D., Matthew M. Graham, C.P.A.; Assistant Professors William H. Taylor, Ph.D., Harold J. Hoflich, Ph.D., Ralph C. Hoebel, J.D., J. J. Delpech, C.P.A.

Professor Cameron, chairman

Economics

(Faculty listed under Economics and Business.)

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.

250 Economic History of Japan

First semester only; 3 credits.
A detailed exposition of the feudal economical organization and its disintegration and the rise of capitalist enterprise and its relation to the state. Prerequisite: junior standing.

252 Economic Problems of Japan

Second semester only; 3 credits.
Agricultural changes, population pressure, industrialization, domestic and foreign trade, the labor movement, monetary changes, price fluctuations, and economic expansion and penetration overseas. Prerequisite: Economics 150-151 or consent of instructor.

256 Money, Credit, and Prices

First semester only; 3 credits.
Nature, history and kinds of money; characteristics of credit; monetary system of the United States; relation of money and credit to prices. Prerequisite: Economics 150-151.

257 Banking

Second semester only; 3 credits.
Nature and history of banking. The banking system of the United States; commercial banks, trust companies, savings banks, and related banking institutions. Prerequisites: Economics 150-151, 256.

261 Public Finance

Second semester only; 3 credits.
Public expenditures: extent, purposes, determinants, effects; public revenues: public domains and industries, fees, assessments, charges, taxation, public credit; fiscal administration. Prerequisite: Economics 150-151.

262-263 Practice Banking

Year course; 2 credits each semester.
Actual work in Honolulu banks two afternoons a week from 1 p.m. until the books are balanced; supplementary reading on bank organization and management. Prerequisites: Economics 256, 257, permission of instructor and of the bank concerned.

270 Public Utilities

Second semester only; 3 credits.
Economic characteristics and history of public utilities, excluding railroads. The public utility problem and state control. Prerequisite: Economics 150-151.

285 Theory and Control of Foreign Trade

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.
Courses of Instruction

291 Agricultural Economics
Second semester only; 3 credits.
Mr. Cameron

History of agriculture, rural life and population, tenancy, farm labor, large vs. small farms, mechanization, cooperation, agricultural credit, and government assistance. Prerequisite: Economics 150-151 or consent of instructor.

305-306 Seminar in General Economics
Year course; 2 credits each semester.
Mr. Cameron

Prerequisite: graduate standing and consent of instructor.

310-311 Seminar in the Economic History of Japan
Year course; 2 credits each semester.
Mr. Taylor

Prerequisite: graduate standing and consent of instructor.

315-316 Seminar in Finance
Year course; 2 credits each semester.
Mr. Hoflich

Prerequisite: graduate standing and consent of instructor.

400 Thesis Research
Credit by arrangement.

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

Other Courses

The following courses, ordinarily given in alternate years, will not be offered in 1939-40:

223 History of Economic Institutions—Year course; 3 credits a semester.
251 Economic History of China—First semester only; 3 credits.
253 Economic Problems of China—Second semester only; 3 credits.
254 Economic Problems of Europe—First semester only; 3 credits.
265 International Finance—Second semester only; 3 credits.
273 Ocean Transportation—Second semester only; 3 credits.
276 Trusts and Industrial Combinations—First semester only; 3 credits.
281 Labor Problems—First semester only; 3 credits.
288 Risk, Risk-Bearing, and Speculation—First semester only; 3 credits.
296 Recent Economic Thought—First semester only; 3 credits.
312-313 Seminar in the Economic History of China—Year course; 2 credits a semester.

Education
(See Teacher Education)

Engineering

Professors Carl B. Andrews, M.S., Arthur R. Keller, M.S., John Mason Young, M.M.E.; Assistant Professors Wilfred J. Holmes, M.S., Russell C. Brinker, C.E., Elvin A. Hoy, B.S.

Professor Andrews, chairman

Civil Engineering (CE)

C.E. 101 Plane Surveying
Year course; 3 credits each semester.
Mr. Andrews

Use of chain, tape, level, and transit. Map plating and computations. Lectures on Hawaiian land descriptions. One lecture and two field or drafting periods weekly. Prerequisites, or to be taken same semester: Mechanical Drawing 101, Mathematics 104. Laboratory fee $2 each semester.

C.E. 151 Graphical Statics
Second semester only; 2 credits.
Mr. Andrews

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  

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  

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 106.

C.E. 229 Municipal Engineering  

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, and disposal of storm water.

C.E. 231 Soil Mechanics  

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  

First semester only; 4 credits.  

Effect of forces on bodies, both at rest and in motion. Prerequisite: Mathematics 106.

C.E. 253 Structural Mechanics  

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  

Second semester only; 3 credits.  


C.E. 257 Railway Track, Turnouts, and Accessories  

Second semester only; 2 credits.  

Railway track, turnouts, crossings, crossovers, and accessories, and maintenance of railway tracks and structures. Prerequisite, or to be taken same semester: Civil Engineering 227.

C.E. 259 Higher Surveying  

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 106.

C.E. 260 Highway Economics  

First semester only; 2 credits.  

Continuation of Civil Engineering 153. Economics of road building, methods of paying for road construction, detailed design of highways and city streets. Prerequisite: Civil Engineering 153.

C.E. 262 Applied Fluid Mechanics  

First semester only; 2 credits.  

Selected topics in hydraulics, including non-uniform flow in open channels, transitions, unsteady flow, resistance of immersed and floating bodies, and the effects of viscosity. Prerequisite: Civil Engineering 255.

C.E. 276 Structural Design  

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  

Second semester only; 3 credits.  

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

C.E. 279  CONCRETE AND MASONRY STRUCTURES  Mr. Young
Second semester only; 3 credits.
Design of reinforced concrete structures such as beams, girders, columns, floor slabs, highway bridges. Prerequisite: Civil Engineering 252, 253.

C.E. 280  WATER ANALYSIS  Mr. Keller
Year course; 1 credit each semester.
Standard methods of making physical, chemical, and bacteriological examinations of water and sewage. Laboratory. Prerequisite, or to be taken same semester: Civil Engineering 229.

C.E. 284  HYDRAULICS LABORATORY  Mr. Holmes
First semester only; 1 credit.
Calibration of weirs, orifices, meters, nozzles, and short tubes. Loss of head in pipes. Tests and field trips. Prerequisite: Civil Engineering 255.

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, setting time, specific gravity, water content; other routine laboratory determinations. Prerequisite, or to be taken same semester: Civil Engineering 231.

Mechanical Drawing (MD)

M.D. 101  MECHANICAL DRAWING  Mr. Brinker
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. Hoy
First semester only; 3 credits.
Geometry of engineering drawing, analysis and design of structures, intersections and development of surfaces. Prerequisites: Mechanical Drawing 101, Mathematics 104.

Mechanical Engineering (ME)

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.

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. Young
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 106, Physics 102 or 150, 151.

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. Prerequisites: 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.

Experimental Engineering (XE)

X.E. 202 MATERIALS LABORATORY Mr. Holmes

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

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. 254 MATERIALS LABORATORY Mr. Holmes

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


Absent on leave 1939-1940: Instructors Robert C. Elliott, M.A., Cynthia Larry, M.A.

Professor Beck, chairman

All applicants for admission to the University as freshmen take oral and written English entrance examinations (see page 13). Those who fail to make certain grades in these examinations, if admitted to the University, are required to complete satisfactorily one or more of the Sub-freshman Courses, according to the nature of their deficiencies. No student required to take any Sub-freshman course in Speech may register for any other speech courses. No student required to take English 50 may register for any course in Literature or any other course in Composition.

Courses in English are listed in six groups: Sub-freshman Courses, Composition, Journalism, Literature, Professional Courses and Speech.

SUB-FRESHMAN COURSES

A ORAL ENGLISH FOR FOREIGN STUDENTS Staff

Year course; no credit.

Required of all students not citizens of the United States 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 each semester.
Courses of Instruction

35 Practical Speaking

Year course; no credit.

Required of those whose speech is slightly below standard. Fee $1 each semester.

50 Elementary Composition

Year course; no credit.

Required of those whose written English is below standard. Fee $1 each semester.

COMPOSITION

English 100 or 102 is a prerequisite to all other English courses except English 30, 35, 50, 130, and 134.

100 COMPOSITION

Year course; 3 credits each semester.

Principles and practice of composition with conferences for personal criticism. Required during the freshman year of all students in the University except those taking English 50 or English 102.

102 COMPOSITION

Year course; 3 credits each semester.

This course parallels English 100, but stresses writing and reading rather than the mechanics of composition. Restricted to students making the highest score on the English Placement examination.

110 English Applied in Technical Writing

Year course; 2 credits each semester.

The principles of technical exposition, with composition and analysis of reports, papers, and selected types of business letters.

116 Advanced Composition

First semester only; 3 credits.

Practice in various forms of writing, with criticism and illustrative reading. Prerequisite: sophomore standing.

210 Business Correspondence

First semester only; 2 credits.

The principles and practices, psychology, and composition of business letters. Designed for Economics and Business students. Prerequisite: junior standing.

OTHER COURSES

The following courses, ordinarily given in alternate years, will not be offered in 1939-40:

216 The One-Act Play—First semester only; 3 credits.

217 The Short Story—Second semester only; 3 credits.

JOURNALISM

120 News Writing

First semester only; 3 credits.

Principles of newspaper publication. Recognition of news; structure and style. Prerequisite: sophomore standing, B or better in English 100 or 102, or consent of instructor.

121 Advanced News Writing

Second semester only; 3 credits.

Continuation of English 120 into more complex news writing. Prerequisite: English 120 or consent of instructor.

211 Principles of Publicity

Second semester only; 2 credits.

The psychology of publicity writing; practice in the preparation of promotion articles for newspapers and the writing of pamphlets. Designed for Economics and Business students. Prerequisite: junior standing.

222 Elements of Publishing

First semester only; 1 credit.

Typography. Mechanical makeup of newspapers, books, advertisements. Prerequisite: English 121 or consent of instructor.
English

223 NEWS EDITING

Mr. Orne

Second semester only; 2 credits.

Rewriting, copy reading, headline writing. Prerequisite: English 121 or consent of instructor.

229 PRO-SEMINAR IN JOURNALISM

Mr. Orne

Year course; 2 credits each semester.

Conferences, reading and reports, individual studies. Discussion of practices of Ka Leo, the student-operated campus newspaper. Prerequisite: high standing on Ka Leo staff and consent of instructor.

LITERATURE

One of the following courses is prerequisite to all courses numbered 200 or more: English 150, 154, 156, or 158.

150 INTRODUCTION TO ENGLISH LITERATURE

Mr. Clark

Year course; 3 credits each semester.

A survey of English literature from Beowulf to Wells. Prerequisite: English 100 or 102.

154 INTRODUCTION TO DRAMATIC LITERATURE

Mr. Wilson

Year course; 3 credits each semester.

A historical and critical study of modern drama and the stage from 1600 to the present day. Prerequisite: English 100 or 102.

156 INTRODUCTION TO PROSE LITERATURE

Mr. LeRoy, Mr. Wilson

Year course; 3 credits each semester.

The chief types of literature, including the novel, essay, biography, and satire, with emphasis on the appreciation of literary excellence. Prerequisite: English 100 or 102.

158 CONTEMPORARY LITERATURE

Miss Schwartz

Year course; 3 credits each semester.

Representative contemporary novelists, poets, biographers, and short story writers. Prerequisite: English 100 or 102.

160 LITERATURE OF THE PACIFIC ISLANDS

Mr. Stroven

Year course; 1 credit each semester.

A survey of the literature of the South Seas, including narratives by Melville, Stevenson, London, Maugham, Nordhoff and Hall, and other writers.

170 INTRODUCTION TO POETRY

Mr. Clark

Second semester only; 3 credits.

A study of poetry and poetic techniques with emphasis on the appreciation of literary excellence.

250 EUROPEAN MASTERS

Mr. Sinclair

Year course; 3 credits each semester.

A study of the writings in translation of sixteen European masters from Dante to Ibsen.

260 AMERICAN LITERATURE

Mr. Stroven

Year course; 3 credits each semester.

A critical survey of American literature from colonial times to the present, with special attention to the main currents of American thought and culture.

270 THE ENGLISH NOVEL FROM ITS BEGINNINGS TO THE PRESENT

Mr. Neil

Year course; 3 credits each semester.

A chronological and critical survey of the development of the English novel with reports on the works of the leading novelists.

272 ENGLISH DRAMA FROM ITS BEGINNINGS TO THE PRESENT

Mr. Wilson

Year course; 3 credits each semester.

A chronological and critical survey of English drama, including a consideration of the development of dramatic forms and the work of major playwrights.

276 SHAKESPEARE

Miss Schwartz

Year course; 3 credits each semester.

First semester, Shakespeare's histories and comedies; second semester, his tragedies.

280 THE AGE OF MILTON

Mr. Holahan

Second semester only; 3 credits.

A critical study of the principal works of Milton and his contemporaries.
Courses of Instruction

282 THE AGE OF POPE AND JOHNSON  Mr. Clark
Second semester only; 3 credits.
The 18th century as the parent of the 20th, and the influence on literature of the ascendency of science and the middle class.

284 THE AGE OF WORDSWORTH  Mr. Neil
Year course; 3 credits each semester.
The principal poets and prose writers of the Romantic Movement.

289 THE HISTORY OF LITERARY CRITICISM  Mr. Beck
First semester only; 3 credits.
The development of modern standards of criticism from their classical sources through the major periods of English literary history.

296 THE DEVELOPMENT OF MODERN ENGLISH  Miss Lound
First semester only; 2 credits.
The historical development of modern usage in pronunciation, spelling and grammar.
(Also listed under Speech.)

350 SEMINAR IN ENGLISH LITERATURE  Staff
Year course; 2 credits each semester.
An introduction to methods of independent study and research applied to some special aspect of English literature. May be repeated until an aggregate of 6 credits has been earned.

355 INDIVIDUAL STUDIES  Staff
Year course; 2 credits each semester.
Supervised investigation in fields of special interest or value to the student. May be repeated until an aggregate of 6 credits has been earned.

360 SEMINAR IN AMERICAN LITERATURE  Mr. Stroven
Year course; 2 credits each semester.
A seminar in American literature similar in method and scope to English 350. May be repeated until an aggregate of 6 credits has been earned.

400 THESIS RESEARCH  Credit by arrangement.

Other Courses
The following courses, ordinarily given in alternate years, will not be offered in 1939-40:

252 World Literature—Year course; 3 credits a semester.
254 Modern Continental Drama—Year course; 3 credits a semester.
262 The Frontier in American Literature—Year course; 2 credits a semester.
274 The Age of Chaucer—First semester only; 3 credits.
275 The Age of Elizabeth—Second semester only; 3 credits.
286 The Victorian Age—Year course; 3 credits a semester.
288 The Twentieth Century—Year course; 3 credits a semester.

PROFESSIONAL COURSES
The following courses in English given in Teachers College are open only to students in that college. (For descriptions see Teacher Education, ENGLISH.)

152 GENERAL ENGLISH  Mr. Coale
290-291 ENGLISH IN THE ELEMENTARY SCHOOL  Mr. Coale
292-293 ENGLISH IN THE SECONDARY SCHOOL  Mr. Coale
294-295 LITERATURE OF THE ELEMENTARY SCHOOL  Mr. Coale

SPEECH

130 FUNDAMENTALS OF PUBLIC SPEAKING  Mr. Peavey
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. Beck*

*Second semester only; 3 credits.*  
The technique of constructing effective arguments; emphasis on analysis, reasoning, brief drawing, evidence, and persuasive techniques. Practice in argumentative speaking. Prerequisite: English 130.

134 **VOICE AND DICTION**  
*Staff*

*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.

137 **THE FORMS OF ADDRESS**  
*Staff*

*Second semester only; 3 credits.*  
Preparation and delivery of the more important forms of public address, including speeches of courtesy, occasional speeches, and various types of business talks.

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.

146 **DRAMATICS LABORATORY**  
*Mr. Wyman*

*Year course; 1 credit each semester.*  
A laboratory course in dramatic interpretation and stage management, using University Theatre Guild productions as material.

230 **ORAL INTERPRETATION**  
*Mrs. Buckley*

*First semester only; 3 credits.*  
Oral interpretation of various forms of literature; emphasis on development of the speaking voice, articulation, and pronunciation. Prerequisites: English 134 and consent of instructor.

240 **SPEECH IMPROVEMENT LABORATORY**  
*Mr. Beck*

*First semester, 1 credit; repeated second semester.*  
Observation of English 30 classes and training in classroom techniques. Open only to students in Teachers College.

246 **ELEMENTARY ACTING**  
*Mr. Wyman*

*Year course; 3 credits each semester.*  
Discussions and practical work demonstrating the fundamental principles of acting. Prerequisite: consent of instructor.

249 **PRO-Seminar in Oratory and Forensics**  
*Mr. Beck*

*Year course; 2 credits each semester.*  
Directed research in oratory, debating, and materials of proof and persuasion. Prerequisites: English 130, 132; consent of instructor.

296 **THE DEVELOPMENT OF MODERN ENGLISH**  
*Miss Lound*

*First semester only; 2 credits.*  
The historical development of modern usage in pronunciation, spelling, and grammar. (Also listed under Literature.)

297 **THE SOUNDS OF ENGLISH**  
*Miss Henderson*

*Year course; 2 credits each semester.*  
Elementary phonetics, with emphasis on ear training and the production of English speech sounds.

298 **CORRECTION OF SPEECH DEFECTS, ELEMENTARY COURSE**  
*Miss Henderson*

*First semester only; 2 credits.*  
The speech apparatus as it functions in the production of speech sounds and the correction of functionally defective speech.

299 **TECHNIQUES OF SPEECH IMPROVEMENT IN THE ELEMENTARY SCHOOL**  
*Miss Henderson*

*Second semester only; 2 credits.*  
The general speech problems of the schools of Hawaii, materials adapted to the various school grades, and techniques for their application. Prerequisite: English 297 or its equivalent.

302 **THE SPEECH CLINIC**  
*Miss Henderson*

*Year course; 2 credits each semester.*  
Supervised practice in the correction of defective speech. Prerequisites: English 297 and 298, or their equivalent. May be repeated until an aggregate of six credits has been earned.
Courses of Instruction

355  **INDIVIDUAL STUDIES**

*Year course; 2 credits each semester.*

Investigation in fields of special interest or value to the student. May be repeated until an aggregate of 6 credits has been earned. Prerequisite: English 297.

**Other Courses**

The following courses, ordinarily given in alternate years, will not be offered in 1939-40:

- 236  **Foundations of Public Discussion**—First semester only; 3 credits.
- 300  **Correction of Speech Defects, Advanced Course**—Second semester only; 2 credits.

**French**

*Visiting Professor* to be announced; *Instructor* Eva Métroix, Licenc-es-Lettres. Absent on leave 1939-40: *Professor* Irving O. Pecker, B.A.

100  **ELEMENTARY FRENCH**

*Year course; 3 credits each semester.*

Grammar, phonetics, diction, reading of easy prose and poetry.

101  **INTERMEDIATE FRENCH**

*Year course; 3 credits each semester.*

Review of grammar, composition, reading from selected modern authors. Prerequisite: one year of French in college or two years in preparatory school.

200  **MODERN FRENCH LITERATURE**

*Year course; 3 credits each semester.*

Post-war literature, lectures, essays, composition. Prerequisite: two years of college French or equivalent.

202  **CONVERSATION AND COMPOSITION**

*Year course; 2 credits each semester.*

Discussion of various aspects of contemporary French life with a view to building practical vocabulary. Essays on assigned topics. May be taken twice for credit. Prerequisite: French 200 or equivalent.

252  **MODERN FRENCH DRAMA**

*First semester only; 2 credits.*

Plays of Brioux, Rest, Maeterlinck, Giraudoux, Gersdorff, etc. Lectures, discussions, reports. Prerequisite: three years of college French or equivalent.

253  **ADVANCED FRENCH SEMINAR**

*Second semester only; 2 credits.*

Critical study of the most recent publications in the novel, theatre, and biography. Reports on individual research. Prerequisite: French 252.

260-261  **INDIVIDUAL RESEARCH**

*Year course; credit by arrangement.*

Research on any phase or period of French literature in which student may be interested. Prerequisite: consent of instructor.

**Other Courses**

The following courses, ordinarily given in alternate years, will not be offered in 1939-40:

- 201  **Phonetics**—Year course; 1 credit a semester.
- 250  **Classic Drama**—First semester only; 2 credits.
- 251  **Romantic School**—Second semester only; 2 credits.

**Geography**

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

150  **ELEMENTS OF GEOGRAPHY**

*First semester only; 3 credits.*

Relationship of people to their natural environment.
151 Economic Geography  Mr. Coulter, Mr. Jones
    *Second semester only; 3 credits.*
    Relationship of production and distribution of industrial raw materials to natural
    environment.

180 Elementary Meteorology  Mr. Jones
    *Second semester only; 2 credits.*
    Elements of weather; the preparation of a weather map; principles of forecasting.

200 Field Geography  Mr. Coulter, Mr. Jones
    *Year course; credit by arrangement.*
    Field and library work in human and economic geography; collection, evaluation and pre-
    sentation of field data. Prerequisite: consent of instructors.

202 Map Reading  Mr. Jones
    *First semester only; 2 credits.*
    Reading and interpretation of topographic maps. One laboratory period and one lecture
    a week.

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 any one of the following
    —Geography 150, 151, 261, Geology 252.

255 Geography of Asia  Mr. Coulter
    *Second semester only; 3 credits.*
    Geographic regions of Asia. Prerequisite: junior standing or any one of the following—
    Geography 150, 151, 261, Geology 252.

258 Geography of Europe  Mr. Jones
    *First semester only; 2 credits.*
    Major geographic regions of Europe. Prerequisite: junior standing or one course in
    geography.

261 Occupational Geography  Mr. Jones
    (For description, see *Teacher Education, Geography.*)

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.

271 Political Geography  Mr. Jones
    *Second semester only; 2 credits.*
    Political areas and their boundaries; economic relationships between political units. De-
    sirable preparation: Geography 150.

299 Honors Course  Mr. Coulter, Mr. Jones
    *Credits by arrangement.*
    Semi-independent study. Prerequisite: consent of instructors.

300 Geography Seminar  Mr. Coulter, Mr. Jones
    *Year course; 2 credits each semester.*
    Prerequisite: consent of instructors.

301 Seminar in Political Geography  Mr. Jones
    *Year course; 2 credits each semester.*
    Special studies in political geography. Prerequisite: consent of instructor.

400 Thesis Research  Mr. Coulter, Mr. Jones
    *Credit by arrangement.*
    Only graduate students engaged in the preparation of theses may register in this course.
Courses of Instruction

Geology

Professor Harold S. Palmer, Ph.D.

252 Physical Geology
   Mr. Palmer
   First semester only; 3 credits.
   Materials composing the earth. Operation and effects of geologic agents. Two recitations and one laboratory period a week. Prerequisite: any of the following: Botany 101, Chemistry 101 or 102, Geography 150 and 151, Physics 102 or 150 and 151, or Zoology 150 and 151. Laboratory fee $1.

253 Historical Geology
   Second semester only; 3 credits.
   History of the earth, of its continents and ocean basins, and of its inhabitants. Two recitations and one laboratory period a week. Prerequisite: Geology 252 or 256. Laboratory fee $1.

254 Economic Geology
   First semester only; 3 credits. (Alternate years.)
   Distribution, nature, and origin of deposits of metallic and non-metallic minerals. Three recitations a week. Prerequisite: Geology 252 or 256.

255 Geology of Ground Water
   Second semester only; 2 credits. (Alternate years.)
   Origin, amount, circulation, recovery, and quality of ground water. Two recitations with demonstrations a week. Prerequisite: Geology 252 or 256. Laboratory fee $1.

261 Crystallography
   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.

200-300 Geology Seminar
   First semester; repeated second semester. Credit by arrangement.
   Special work by arrangement. Prerequisite: consent of instructor.

Other Courses

The following courses, ordinarily given in alternate years, will not be offered in 1939-40:

256 Geology for Engineers—First semester only; 3 credits.
260 Physiographic Regions of the United States—First semester only; 3 credits.
262 Volcanology—Second semester only; 2 credits.

German

Assistant Professor Maria Hoermann, B.A.; Instructor Bertha Mueller, Ph.D.

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

101 Intermediate German
   Miss Mueller
   Year course; 3 credits each semester.
   Continuation of grammar. Vocabulary building through discussion of pictures. Reading and practice of sight reading. In the second semester students keep a diary in German, which is corrected by the instructor.

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

201 Contemporary Literature
   Mrs. Hoermann
   Year course; 3 credits each semester.
   Reading supplemented by exercises in composition.

202 Advanced Scientific German
   Mrs. Hoermann
   Year course; 1 or 2 credits each semester.
   Reading and translation of scientific material and practice in sight translation. Prerequisites: 2 years of college German and consent of instructor. May be repeated once.
250 Readings in German Literature Mrs. Hoermann, Miss Mueller
Year course; 1 or 2 credits each semester.
Prerequisite: consent of instructor concerned.

Other Courses
The following course, ordinarily offered in alternate years, will not be offered in 1939-40:
200 Classical Literature—Year course; 3 credits a semester.

Hawaiian

Professor Henry P. Judd, B.A.

100 A First Course in the Hawaiian Language Mr. Judd
Year course; 3 credits each semester.
Elements of the language.
101 Second Course in the Hawaiian Language Mr. Judd
Year course; 3 credits each semester.
Reviewing Hawaiian grammar.
200 Advanced Hawaiian Language Mr. Judd
Year course; 3 credits each semester.
Composition. Reading of Hawaiian antiquities.
250-251 Great Leaders of Hawaii Mr. Judd
Year course; 1 credit each semester.
A biographical approach to the study of Hawaiian history.

History

Professors Paul S. Bachman, Ph.D., Shao Chang Lee, M.A., Shou-Yi Ch'en, Ph.D.; Exchange Professor Walter B. Posey, Ph.D.; Associate Professor Ralph S. Kuykendall, M.A.; Assistant Professor Klaus Mehnert, Ph.D.; Instructor Shunzo Sakamaki, Ph.D.; Absent on leave 1939-40: Assistant Professor Charles H. Hunter, Ph.D.

Professor Bachman, chairman

100 History of Western Civilization Mr. Bachman, Mr. Mehnert
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.

209-210 Political and Social History of England Mr. Posey
Year course; 3 credits each semester.
Political, social, industrial, intellectual, and religious life of the English people. Primarily for students majoring in English.

213 History of Modern Russia Mr. Mehnert
First semester only; 3 credits.
Survey of Russian history from Peter the Great to Stalin.

216 History of Russian Culture and Thought in the 19th and 20th Centuries Mr. Mehnert
Year course; 2 credits each semester.
The contribution of Russian literature and thought to modern civilization; Pushkin, Gogol, Tolstoy, Dostoevski, Chekhov, Lenin, Stalin, and others.

218 Europe in the Pacific Mr. Mehnert
Year course; 3 credits each semester.
History of European exploration, settlement, trade, and political rivalry in the Pacific areas.

225 History of China Mr. Lee
Year course; 3 credits each semester.
A general survey of Chinese history; development of institutions; impact of western culture upon Chinese civilization.
Courses of Instruction

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.

229 History of the Cultural Relations Between China
   and the Occident  Mr. S. Y. Ch'en
   Year course; 2 credits each semester.
   Religious, intellectual, and commercial relations between China and the occidental
   countries from the earliest times to the present.

235 History of Ancient China  Mr. S. Y. Ch'en
   Second semester only; 3 credits.
   Intensive study of the formative period of Chinese civilizations and institutions; emphasis
   on recent archaeological discoveries and modern researches.

241-242 History of the United States  Mr. Posey
   Year course; 3 credits each semester.
   A detailed political, economic, and social survey of the American people from 1607-1890.

243 The United States, 1890-1936  Mr. Posey
   Second semester only; 3 credits.
   A survey of the political, economic, and social transformation of the United States since
   the close of the frontier period.

250 The History of Early Civilization in the Far East  Mr. Sakamaki
   First semester only; 2 credits.
   A general survey of the development of civilization in Eastern Asia.

251 History of Thought in Japan  Mr. Sakamaki
   Second semester only; 2 credits.
   A study of the major schools of thought and important thinkers, social reformers,
   economists, statesmen, and educators of the Far East.

266 Diplomatic History of Japan  Mr. Sakamaki
   Year course; 2 credits each semester.
   Early relations; causes of seclusion; reopening; emergence as a great power; formulation
   of present foreign policies.

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

295 Social History of China  Mr. S. Y. Ch'en
   Year course; 2 credits each semester.
   Principal stages of China's social development from the dawn of Sinicite culture to the
   invasion of the old empire by new forces from the occidental world.

310 Seminar in Historical Method  Mr. Posey
   First semester only; 2 credits.

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

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

316 Seminar in Chinese Cultural History  Mr. S. Y. Ch'en
   Year course; 2 credits each semester.

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

327 Seminar in Hawaiian History  Mr. Kuykendall
   First semester only; 2 credits.
400 Thesis Research

Credit by arrangement.

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

Other Courses

The following courses, ordinarily given in alternate years, will not be offered in 1939-40:

204 Diplomatic and Colonial History of Modern Europe—Year course; 2 credits a semester.
211 Constitutional History of England—First semester only; 2 credits.
212 History of Central Europe—First semester only; 3 credits.
219 Europe in Asia—First semester only; 3 credits.
244-245 Diplomatic History of the United States—Year course; 3 credits a semester.
249 Representative Americans—Second semester only; 2 credits.
252 Constitutional History of the United States—Second semester only; 2 credits.
253-254 History of Hispanic America—Year course; 2 credits a semester.
276 History of the Hawaiian Islands—First semester only; 2 credits.
285 Russia in Asia—First semester only; 2 credits.
286 Russia in the Pacific—Second semester only; 2 credits.
311 Seminar in American Diplomatic History—Second semester only; 2 credits.
318 Seminar: Russia in the Far East—Year course; 2 credits a semester.

Home Economics

Professor Carey D. Miller, M.S.; Associate Professor Martha Potgieter, Ph.D.; Assistant Professors Ruth Douglass, M.S., Theodora Floyd, M.A., R.N., (and one to be announced); Instructors Jana Glenn, M.S., Helen Yonge, B.S., (and one to be announced); Lecturer Mary Douglas Smith, M.A. Assistant Nora Wong Mark, B.S. Absent on leave 1939-40: Assistant Professor Katherine Bazore, M.S.

40: Assistant Professor Katherine Bazore, M.S.

Professor Miller, chairman

See College of Applied Science for programs in Home Economics. After the first year the student may choose a major in Household Science, Household Art, Institutional Management, or Home Economics, (Vocational Education).

General Courses

H. E. 100 Orientation in Home Economics

First semester only; 1 credit.

Application of social ethics to daily life; position of women in the family and community. Choice of a vocation; vocational opportunities in home economics.

H. E. 101 Hygiene and Home Nursing

Second semester only; 3 credits.

Principles of healthful living applied to the individual and the community. Home care of the sick. Two lectures and one laboratory period a week.

H. E. 201 Consumer Buying

Second semester only; 2 credits.

Problems of consumers in purchasing foods, clothing, cosmetics, drugs, furniture, and equipment. Brief survey of market structure, advertising agencies, testing bureaus, and consumer-buying habits. Prerequisite: junior standing.
Courses of Instruction

H. E. 250 HOUSEHOLD MANAGEMENT

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. Prerequisite: junior standing. First semester: two lectures, one laboratory period a week. Second semester: one lecture, one laboratory period a week. Laboratory fee $2 second semester.

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. Smith

Second semester only; 2 credits—with laboratory, 3 credits.
Importance of the pre-school years in the development of the individual. A constructive program of training the normal child in the home. Home Economics majors required to take one laboratory period. Planned especially for Home Economics students. Prerequisite: Psychology 150 or Education 180-181

H. E. 253 CHILD CARE Miss Floyd

First semester only; 2 credits.
Reproduction, prenatal care, childbirth, infant and pre-school care, growth, minor ailments, and common diseases of children. Discussion and practice of home nursing.

H. E. 255 NURSERY SCHOOL FIELD PRACTICE Miss Miller

First semester, 3 credits; repeated second semester.
Work under the supervision of the director and staff of Castle Kindergarten of Honolulu. Prerequisites: H. E. 252, one of the following—(1) H. S. 200 or (2) H. S. 272; and consent of department chairman.

H. E. 291 PRACTICE COURSE IN HOME MANAGEMENT Miss Douglass

First semester, 4 credits; repeated second semester.
Groups of four to six students live in a supervised practice house for nine weeks. Practical application of courses in Home Economics. Meal preparation, time and money management, and human relationships. Conferences and laboratory period. Students share subsistence costs.

H. E. 295 FIELD PRACTICE IN HOME ECONOMICS Staff

First semester, 3 credits; repeated second semester.
Work under the direction of a county home demonstration agent of the University Agricultural Extension Service. Students selected at the end of the junior year by the department chairman and the assistant director of the Extension Service. Prerequisite: senior standing.

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. 110 ELEMENTS OF CLOTHING CONSTRUCTION Mrs. Mark

First semester only; 2 credits.
Fundamentals of cutting, fitting, and constructing simple garments. Two laboratory periods a week. Laboratory fee $3.

H. A. 111 CLOTHING AND TEXTILES

Second semester only; 3 credits.
Use of commercial patterns and selection of textiles for clothing construction. Three laboratory periods a week. Laboratory fee $4.

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

H. A. 150-151 CLOTHING SELECTION

Year course; 1 credit each semester.
Color, design, suitability, quality, and cost of clothing and accessories. Laboratory fee $1.
H. A. 253 ADVANCED CLOTHING CONSTRUCTION  
*First semester only; 3 credits.*  
Tailoring and advanced instruction in choice of materials; practice in the art of design and dressmaking. Prerequisite: Household Art 114. Laboratory fee $3.

**HOUSEHOLD SCIENCE**

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

H. S. 150 ELEMENTARY FOOD PREPARATION  
*First semester only; 3 credits.*  
Fundamental processes of food preparation; meal planning and serving. Production, manufacture, and composition of common foods. One lecture and two laboratory periods a week. Required of students whose placement tests show insufficient preparation for Household Science 102. Laboratory fee $3.

H. S. 155 ELEMENTARY NUTRITION FOR NURSING STUDENTS  
*Second semester only; 3 credits.*  
Principles of nutrition in relation to health and disease. Emphasis on nutritive value and use of foods grown or used in Hawaii. One lecture, two laboratory periods a week. Laboratory fee $5.

H. S. 200 NUTRITION  
*Year course; 3 credits each semester.*  
Nutritive requirements of man; function of food in the body; nutritive value of foods and their place in the diet. Two lectures and one laboratory period a week. Prerequisites: Chemistry 101 or 102; Chemistry 152; credit or concurrent registration in Chemistry 260, 262. Laboratory fee $5.

H. S. 249-349 RESEARCH  
*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 $3.

H. S. 251 FOOD INVESTIGATION  
*Second semester only; 2 or 3 credits.*  
Special problems relating to cost, preparation, and utilization of food, either of a general nature or with reference to Hawaiian conditions. Reading, laboratory, and conferences. Prerequisite: Household Science 102. Laboratory fee $5.

H. S. 260 QUANTITY COOKERY (Formerly 261.)  
*First semester only; 3 credits.*  
Food problems of institutions, including preparation and serving of food in large quantities, menu planning, and food costs. One lecture and two three-hour laboratory periods a week. Prerequisite: Household Science 102. Laboratory fee $5.

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

H. S. 263 INSTITUTIONAL BUYING  
*Second semester only; 2 credits.*  
Selection and purchase of foods and equipment for an institution. Prerequisite: Household Science 261.

H. S. 264 PROBLEMS IN INSTITUTIONAL MANAGEMENT  
*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.

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

H. S. 273 RACIAL FOOD HABITS IN HAWAII Miss Yonge
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 two laboratory periods a week. Prerequisite: Household Science 272. Laboratory fee $5.

H. S. 350-351 SEMINAR IN NUTRITION Miss Miller
First and/or second semester; 1 credit each semester.
Review of current literature. Preparation of reports and reviews of articles on assigned topics. One 1½-hour meeting a week. Prerequisite: consent of instructor.

H. S. 373 RACIAL FOOD HABITS IN HAWAII Miss Miller, Miss Yonge
Second semester only; 4 credits.
Foods and food habits of racial groups in Hawaii and in countries bordering the Pacific. Two lectures and two laboratory periods a week. Students may not receive credit for both this course and for Household Science 273. Prerequisites: Household Science 102; Household Science 200, 272, or equivalent; and consent of instructor. Laboratory fee $5.

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

Japanese
(See Oriental Studies.)

Mathematics

Professors Ernest C. Webster, C.E., Arthur R. Keller, M.S.; Assistant Professors Elvin A. Hoy, B.S., Wilfred J. Holmes, M.S., Russell C. Brinker, C.E.; Instructor Ruth Yap Hoy, M.A.

Professor Webster, chairman

104 ENGINEERING MATHEMATICS Mr. Webster, Mr. Holmes
Year course; 5 credits each semester.
Plane and solid analytic geometry, spherical trigonometry, and a short course in advanced algebra and differentiation. Required of freshmen in Engineering. Prerequisites: two years of high school algebra, one year of plane geometry, one semester of plane trigonometry. Desirable preparation: solid geometry.

106 CALCULUS Mr. Hoy
Year course; 3 credits each semester.
Differential and integral calculus. Required of sophomores in Engineering. Prerequisite: Mathematics 104 or 152-153.

149 ALGEBRA, PLANE TRIGONOMETRY, AND ANALYTIC GEOMETRY Mr. Brinker, Mrs. Hoy
Year course; 3 credits each semester.
Second-year algebra, plane trigonometry, and analytic geometry. Prerequisites: one year of high school algebra, one year of plane geometry. Six hours a week.

150 PLANE TRIGONOMETRY Mr. Keller, Mr. Holmes
First semester only; 3 credits.
Prerequisites: two years of high school algebra and one year of plane geometry.

151 ALGEBRA AND ANALYTIC GEOMETRY Mr. Keller, Mr. Holmes
Second semester only; 3 credits.
Prerequisites: two years of high school algebra, one year of plane geometry, one semester of plane trigonometry.

152-153 ANALYSIS Mrs. Hoy
Year course; 3 credits each semester.
Analytic geometry, differentiation, integration, and applications, intended to meet the needs of students of natural science. Prerequisites: two years of high school algebra, one year of plane geometry, one semester of plane trigonometry.
Military Science and Tactics

254-255 APPLICATIONS OF HIGHER MATHEMATICS IN ENGINEERING AND PHYSICAL SCIENCE Mr. Hoy

Year course; not more than 3 credits each semester. (Alternate years.)

Elliptic integrals, simple harmonic motion, solution of equations, determinants and matrices, infinite series, partial differentiation, Fourier series, multiple, line and improper integrals, differential equations, vector analysis, probability, curve fitting. Prerequisite: Mathematics 106.

260 TEACHING OF ELEMENTARY MATHEMATICS Mrs. Hoy

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.

275 THEORY OF EQUATIONS Mrs. Hoy

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

Graphing of functions. Solution of higher order equations by the various methods. Prerequisite: Mathematics 149 or 150-151.

280 ELEMENTARY STATISTICS Mr. Hoy

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

Organization of tables, graphs, frequency distributions, normal law, time series, trend and ratio charts, simple correlation. Prerequisites: knowledge of elementary algebra, geometry, and logarithms.

281 ADVANCED STATISTICS Mr. Hoy

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.

OTHER COURSES

The following courses, ordinarily given in alternate years, will not be offered in 1939-40:

252-253 Advanced Calculus and Differential Equations—Year course; 3 credits a semester.

272-273 History of Mathematics—Year course; 3 credits a semester.

When sufficient demand is apparent, the following courses are offered:


Military Science and Tactics


Major Gillis in charge

Military Science 101 and 102 must be taken by every physically fit male student 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 65 college credits. Military training in the junior and senior years is optional for students who have completed the basic courses.

Students in Military Science 101 and 102 who possess the necessary qualifications may, if they obtain permission of the officer in charge, obtain the usual R.O.T.C. credit for participation in the band that serves the R.O.T.C. The instruction provided is described in Music 266, a division of Teacher Education.
Courses of Instruction

MS 101 ROTC Basic

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).

Major Gillis and Staff

MS 102 ROTC Basic

Year course; 2 credits each semester.
Leadership; automatic rifle; characteristics of infantry weapons; extended order drill; combat principles; infantry drill. Three hours a week, theoretical and practical. Pre-requisite: Military Science 101. Uniform rehabilitation fee 75 cents (not refundable).

Major Gillis and Staff

MS 203 ROTC Advanced

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. Pre-requisite: Military Science 102 or credit for equivalent ROTC work.

Major Gillis and Staff

MS 204 ROTC Advanced

Year course; 3 credits each semester.
Leadership; military history and policy; defense against tanks and air craft; military law; signal communication; combat training; allied subjects. Five hours a week, theoretical and practical. Pre-requisite: Military Science 250.

Major Gillis and Staff

MS 250 Summer Camp

Summer following completion of Military Science 203; 2 credits.
Field leadership; firing infantry weapons; camp sanitation; marches; physical training; demonstrations; field problems. Six weeks duration. Pre-requisite: Military Science 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.

Mr. Hart

120 Sight Reading and Choral Singing

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

Mr. Hart

135 Harmony and Counterpoint

Year course; 2 credits each semester.

Mr. Hart

200 Music Appreciation

Year course; 2 credits each semester.

Mr. Thompson

210 Musical Form and Analysis

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. Attention given to the special structure of music. Works of composers analyzed to exemplify evolution of the art from folk songs to symphonies and operas.

Mr. Hart

Oriental Studies

Professors Shao Chang Lee, M.A., Wing-tsit Chan, Ph.D., Shou-Yi Ch’en, Ph.D.;
Assistant Professors Denzel Carr, Ph.D., Chenk-Woon Taam, Ph.D.; Instructors Yukuo Uyehara, M.A., Kenneth K. S. Ch’en, M.A., Shunzo Sakamaki, Ph.D.

Professor Gregg M. Sinclair, M.A., chairman

For allied courses, see Russian 100, 101; English 252; History 218, 219, 225, 226, 229, 235, 250, 251, 277, 285, 286, 295, 315, 316, 318; Political Science 151, 268, 301; Philosophy 270-271, 321; Anthropology 250, 252, 254, 259, 261, 262, 270, 274, 275, 277, 278; Psychology 252; Economics 250, 251, 252, 253, 310-311, 312-313; Geography 255, 263; Sociology 256, 258.
CHINESE LANGUAGE, LITERATURE, AND HISTORY

100 **First-Year Chinese**  
*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**  
*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**  
*Year course; 3 credits each semester.*  
Reading of short stories, novels, and modern plays. Letter writing, composition, and translation.

200B **Third-Year Chinese for Occidental Students**  
*Year course; 3 credits each semester.*  
Same as Oriental Studies 200.

210-211 **Intensive Chinese Reading Course**  
*Year course; 6 credits each semester.*  
Designed for those majoring in Oriental Studies in preparation for examination in an oriental language. (The passing of this examination is prerequisite to admission to candidacy for the Master's degree in Oriental Studies.)

221 **Chinese Literature in Chinese**  
*Year course; 2 credits each semester.*  
Critical study of classical and modern masterpieces of prose and poetry. Prerequisite: Oriental Studies 200 or equivalent.

241 **Oriental Religions**  
*Year course; 2 credits each semester.* (Alternate years.)  
Historical development of the religions of India, China, and Japan. Lectures, assigned readings, and temple tours.

250-251 **Chinese Literature in English**  
*Year course; 2 credits each semester.*  

253 **Oriental Art**  
*Year course; 2 credits each semester.*  
The arts of different periods in India, China, Korea, and Japan. Illustrated lectures, assigned readings, and visits to Honolulu Academy of Arts.

268 **Great Oriental Philosophers**  
*First semester only; 2 credits.* (Alternate years.)  
The basic ideas of Hinduism, Buddhism, Taoism, and Confucianism and their influence on oriental life and thought. Not open to students who have taken Philosophy 270-271.

281 **Confucian Philosophy**  
*Second semester only; 2 credits.* (Alternate years.)  
The ethical, social, religious, educational and metaphysical philosophies of Confucius, Mencius, Chu Hsi, etc.; their influence on Chinese culture; their position in modern China and Japan.

293 **Methods and Bibliography in Chinese Studies**  
*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.

295 **Chinese Intellectual History**  
*Year course; 2 credits each semester.*  
Factors that have shaped and modified the Chinese outlook on life and nature. A non-technical treatment of the making of the Chinese mind.

302 **Seminar in Chinese Historical Literature in Chinese**  
*Year course; 2 credits each semester.*  
Prerequisite: consent of instructor.
Courses of Instruction

303 Seminar in Chinese Philosophy
Year course; 2 credits each semester.
Prerequisite: consent of instructor.
Mr. Chan

322 Chinese Reading Course for Japanologists
Second semester only; 3 credits. (Alternate years.)
A direct reading approach to Chinese for students who read Japanese or Korean (characters) fluently. National phonetic exercises; differences in phonetic and grammatical structure explained. Prerequisite: consent of instructor.
Mr. Carr

Other Courses
The following courses, ordinarily given in alternate years, will not be offered in 1939-40:

100B First-Year Chinese for Occidental Students—Year course; 3 credits a semester.

101B Intermediate Chinese for Occidental Students—Year course; 3 credits a semester.

254-255 Chinese Philosophy and Art—Year course; 2 credits a semester.

263 Chinese Aesthetics—First semester only; 2 credits.

291 Chinese Civilization—Year course; 2 credits a semester.

Japanese Language, Literature, and History

102 First-Year Japanese
Year course; 3 credits each semester.
Mr. Uyehara

102B First-Year Colloquial Japanese for Occidental Students
Year course; 3 credits each semester.
A direct-method introduction to conversation and reading of Katakana and Hiragana texts with a limited number of the most frequently used Chinese characters.
Mr. Carr

103 Second-Year Japanese
Year course; 3 credits each semester.
Mr. Uyehara

103B Second-Year Colloquial Japanese for Occidental Students
Year course; 3 credits each semester.
Mr. Uyehara

202 Third-Year Japanese
Year course; 3 credits each semester.
Mr. Uyehara

215 Intensive Japanese Reading
First semester only; 6 credits.
Five hundred characters presented in carefully graded material. Supervised supplementary reading for those qualified. Twelve hours of outside preparation a week. Open only to graduate and upper division students majoring in Oriental Studies.
Mr. Carr, Mr. Uyehara

216 Continuation Japanese Reading Course
Second semester only; 6 credits.
Students are supplied with reading material suitable to individual needs, with a view to enabling them to read independently in their own fields. Prerequisite: Oriental Studies 215.
Mr. Carr, Mr. Uyehara

223 Japanese Literature in Japanese
Year course; 2 credits each semester.
Reading of representative works in Japanese literature; emphasis on thought trends and beliefs. Essays, lectures, and discussions.
240 **Japanese Literature in English**  
*Year course; 2 credits each semester.*  
Lectures and selections from English translations of Japanese classics supplement the reading of Aston's *History of Japanese Literature.*

256-257 **History of Japanese Culture and Institutions**  
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.

301 **Seminar in Japanese Historical Literature in Japanese**  
Staff  
*Year course; 2 credits each semester.*  
Research in Japanese history and literature. Prerequisite: graduate standing.

321 **Japanese Reading Course for Sinologists**  
Mr. Carr  
*First semester only; 3 credits. (Alternate years.)*  
A direct reading approach to Japanese for students who read Chinese or Korean (characters) fluently. Kana exercises; differences in phonetic and grammatical structure. Prerequisite: consent of instructor.

**Sanskrit**

206 **Second-Year Sanskrit**  
*Year course; 2 credits each semester.*

**Other Courses**  
The following courses, ordinarily given in alternate years, will not be offered in 1939-40:  
205 Elementary Sanskrit (Formerly O. S. 104)—*Year course; 2 credits a semester.*

**Special Research**

300 **Advanced Reading and Research**  
Staff  
*Credit by arrangement.*

400 **Thesis Research**  
Staff  
*Credit by arrangement.*

**Philosophy**

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

*Assistant Professor Moore, chairman*

150-151 **History of Philosophy (Introductory Course)**  
Mr. Moore  
*Year course; 3 credits each semester.*  
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.

200 **Philosophies of Life**  
Mr. Moore  
*First semester only; 3 credits.*  
The several great Western philosophies and typical theories of the nature of the Good Life. Some comparative consideration of Eastern philosophies. Advised as preparation for Philosophy 201.

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

260-261 **Idealism as a Philosophy**  
Mr. Moore  
*Year course; 2 credits each semester. (Alternate years.)*  
Essential principles and forms of Idealism; reasons for adopting the idealistic attitude. Work consists largely of reading Plato. One 2-hour meeting each week. Credit only if taken full year.
Courses of Instruction

262 THE PHILOSOPHY OF EXPERIMENTALISM  
Mr. Sayers  
Second 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 department chairman.

270-271 EASTERN PHILOSOPHIES  
Mr. Chan  
Year course; 2 credits each semester.  
First semester, basic philosophical movements of India, Persia, and Arabia; second semester, those of China and Japan—all treated as living philosophies.

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.

300 READINGS IN PHILOSOPHY  
Mr. Moore  
Year course; 2 credits each semester.

310 SEMINAR IN LOGIC  
Mr. Moore  
Second semester only; 2 credits.  
Prerequisite: Philosophy 280.

321 SEMINAR IN COMPARATIVE PHILOSOPHY  
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.

400 THESIS RESEARCH  
Staff  
Credit by arrangement.

OTHER COURSES  
The following courses, ordinarily given in alternate years, will not be offered in 1939-40:

252-253 Problems of Philosophy—Year course; 2 credits a semester.  
Related courses in other departments: Oriental Studies 241, 268, 281, 303; Religion 261, 280; Education 340, 345; History 251.

Physical Education  

Professor Knox, chairman  
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 physical education service courses each semester. Students whose physical examinations indicate that class work would be inappropriate for them may be given special corrective work. Normal requirements for graduation including the following (or equivalent in credits transferred from another college):

<table>
<thead>
<tr>
<th>For men</th>
<th>For women</th>
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<tbody>
<tr>
<td>1 semester of</td>
<td>P.E. 101 or 102 or 103</td>
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</table>
Physical Education

For juniors and seniors, physical education is optional. Each service course yields 1 credit per semester. No course may be repeated for credit.

Grades are based on achievement in: (1) knowledge of rules and strategy; (2) physical skills; and (3) social values such as sportsmanship, leadership, and cooperation.

SERVICE COURSES

Courses for men only

100 Tumbling
101 Football, Speedball
102 Basketball
103 Baseball, Volley Ball
104 Weight Lifting
105 Light Work
106 Tennis
107 Swimming
108 Advanced Tumbling
109 Advanced Swimming
110 Advanced Tennis
111 Varsity Football
112 Varsity Basketball
113 Varsity Baseball
114 Varsity Track
115 Varsity Wrestling
116 Varsity Tennis
117 Varsity Swimming
121 Advanced Varsity Football

Courses for women only

122 Advanced Varsity Basketball
123 Advanced Varsity Baseball
124 Advanced Varsity Track
125 Advanced Varsity Wrestling
126 Advanced Varsity Tennis
127 Advanced Varsity Swimming

Courses for both men and women

128 Advanced Varsity Basketball
129 Advanced Varsity Baseball
130 Swimming
131 Tennis
132 Basketball, Hockey, Volley Ball
133 Soccer, Speedball, Baseball
134 Rhythms
135 Bowling
136 Advanced Swimming
137 Advanced Tennis
138 Varsity Football
139 Varsity Basketball
140 Varsity Baseball
141 Varsity Track
142 Varsity Swimming
143 Varsity Wrestling
144 Varsity Tennis
145 Varsity Swimming
146 Varsity Wrestling
147 Varsity Tennis
148 Varsity Baseball
149 Varsity Track
150 Social Dancing
151 Archery

PROFESSIONAL COURSES

Teachers College students desiring to major in physical education select a minimum of 24 credits from the following courses:

170 COMMUNITY RECREATION Mr. Knox
Second semester only; 3 credits.
Principles of organized play; the program, leadership in recreation, problems in organization and supervision of community recreation.

175 FIRST AID Mrs. Bennett
First semester only; 1 credit.
Emergency care of accidents, with special reference to school and playground.

180 PERSONAL HYGIENE (Women only) Mrs. Bennett
Year course; 1 credit each semester.
(Description same as 181.)

181 PERSONAL HYGIENE FOR MEN AND WOMEN Mr. Knox
First semester, 3 credits; repeated second semester.
Fundamentals of personal health. Emphasis on problems of the college student. Credit not given in both this course and 180.

220 PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOL Mrs. Waterman
(For description, see Teacher Education, Physical and Health Education.)

224 THEORY OF INDIVIDUAL ATHLETICS (Women) Miss Gay
(For description, see Teacher Education, Physical and Health Education.)

226 SURVEY OF RHYTHMICS (Women) Miss Gay
(For description, see Teacher Education, Physical and Health Education.)
Courses of Instruction

232  **Theory of Minor Sports (Men)**  
     Mr. Knox  
     (For description, see Teacher Education, Physical and Health Education.)

238  **Theory of Individual Gymnastics**  
     Mrs. Waterman  
     *First semester only; 2 credits.*  
     Principles and methods of corrective exercise.

240  **Theory of Major Sports, Football (Men)**  
     Mr. Klum  
     (For description, see Teacher Education, Physical and Health Education.)

241  **Theory of Major Sports, Basketball (Men)**  
     Mr. Gill  
     (For description, see Teacher Education, Physical and Health Education.)

242  **Theory of Major Sports, Baseball (Men)**  
     Mr. Gill  
     (For description, see Teacher Education, Physical and Health Education.)

243  **Theory of Major Sports, Track (Men)**  
     Mr. Kaulukukui  
     (For description, see Teacher Education, Physical and Health Education.)

245  **Theory of Group Athletics (Women)**  
     Miss Gay  
     (For description, see Teacher Education, Physical and Health Education.)

256  **Principles of Public School Health**  
     (formerly 356)  
     Mrs. Waterman  
     (For description, see Teacher Education, Physical and Health Education.)

260  **Physiology of Exercise**  
     Mrs. Bennett  
     *Second semester only; 2 credits.*  
     The 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.

280  **Organization and Administration of Health and Physical Education**  
     Mr. Knox  
     (For description, see Teacher Education, Physical and Health Education.)

282  **History and Principles of Physical Education**  
     Mr. Knox  
     (For description, see Teacher Education, Physical and Health Education.)

352  **Principles of Public Health**  
     Mr. Rhea  
     *Second semester only; 2 credits.*  
     Problems of public health: sanitation; the program of the local and federal health agencies.

**Physics**

*Associate Professor Willard H. Eller, Ph.D.; Assistant Professor Stanley S. Ballard, Ph.D.; Instructor Iwao Miyake, M.S.*

**.Associate Professor Eller, chairman**

102  **College Physics**  
     Mr. Ballard and Assistants  
     *Year course; 4 credits each semester.*  
     Three lectures and one laboratory period a week. Prerequisites: Mathematics 149, Mathematics 150 and 151, or equivalent. Laboratory fee $4 a semester.

150  **General Physics**  
     Mr. Eller  
     *First semester only; 4 credits.*  
     Three lectures and one laboratory period a week. Prerequisite, or to be taken same semester: Mathematics 106. Laboratory fee $4.

151  **General Physics**  
     Mr. Eller  
     *Second semester only; 4 credits.*  
     Three lectures and one laboratory period a week. Prerequisites: Physics 150; credit or concurrent registration in Mathematics 106. Laboratory fee $4.

152  **General Physics**  
     Mr. Eller  
     *First semester only; 3 credits. (Formerly Physics 250.)*  
     Two lectures and one laboratory period a week. Required of all juniors in Engineering. Prerequisite: Physics 150.
153 **Elementary Radio**

*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.

155 **Electrical Machinery and Instruments**

*First semester only; 2 credits.*

A non-mathematical treatment of principles of construction, operation, and use of direct and alternating current machinery and instruments.

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**

*Year course; 3 credits each semester.*

The 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.

253 **Electrical Measurements**

*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 two laboratory periods a week. Prerequisite: Physics 152 or equivalent. Laboratory fee $8.

255 **Light**

*First semester only; 3 credits.*

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

256 **Optics Laboratory**

*First semester only; 1 credit.*

Experiments in geometrical and physical optics. One laboratory period a week. Prerequisite, or to be taken same semester: Physics 255. Laboratory fee $4.

257 **X-Ray**

*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 Research in Advanced Physics**

*Staff*

Credit by arrangement.

Students pursue any desired branch of physics through recommended reading, occasional consultations, and written reports, or may carry out some experimental problem. Prerequisites: Physics 102 or equivalent; Mathematics 152-153 or equivalent.

275 **Electricity and Magnetism**

*First semester only; 3 credits.*

Fundamental theory of electric and magnetic phenomena. Prerequisites: Physics 102 or equivalent; Mathematics 152-153 or equivalent.

361 **Reading or Research in Graduate Physics**

*Staff*

Credit by arrangement.

Students pursue some branch of physics through recommended reading, occasional consultations, and written reports, or carry on supervised experimental work. Prerequisites: 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.

**Other Courses**

The following course, ordinarily given in alternate years, will not be offered in 1939-40:

280 **Modern Physics—Second semester only; 3 credits.**
When sufficient demand is apparent, the following courses are offered:
263 Theoretical Mechanics; 266 Sound; 270 Heat; 351 Theoretical Physics; 353 Advanced Physical Optics; 355 Spectroscopy; 356 Theory of Spectra; 357 Kinetic Theory of Gases; 358 Thermodynamics; 359 Electronics; 360 Atomic Physics; 375 Advanced Electricity and Magnetism.

Political Science
Professor Paul S. Bachman, Ph.D.; Exchange Professor Walter B. Posey, Ph.D.; Visiting Associate Professor Edmond Spellacy, Ph.D.; Assistant Professor Klaus Mehnert, Ph.D.; Lecturers D. Ransom Sherretz, M.A., George F. Larsen.

Professor Bachman, chairman

150 AMERICAN GOVERNMENT AND POLITICS
Mr. Bachman
First semester only; 3 credits.
A rapid survey of national and territorial political institutions and problems. Emphasis on duties and privileges of citizenship.

151 GOVERNMENTS OF EUROPE AND THE FAR EAST
Mr. Bachman, Mr. Mehnert
Second semester only; 3 credits.
A survey of the governmental organization and politics of the states of Europe and of the Far East.

170 INTERNATIONAL RELATIONS
Mr. Bachman
First semester only; 2 credits.
Economic nationalism, imperialism, policies of the great powers.

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

190 MUNICIPAL ADMINISTRATION
Mr. Spellacy
Second semester only; 3 credits.
The function of city government: civil service, finance, city planning, zoning, police, fire protection, traffic, health, water sewage, public works, utilities, recreation.

195 POLICE ADMINISTRATION: ORGANIZATION
Mr. Sherretz
Second semester only; 2 credits.
Historical development of police systems; present day law enforcement problems; organization and functioning of the Honolulu police.

196 POLICE ADMINISTRATION: CRIMINAL INVESTIGATION
Mr. Larsen
First semester only; 2 credits.
Scientific methods of investigation and identification.

211 POLICE ADMINISTRATION: CRIMINOLOGY
Mr. Sherretz
First semester only; 2 credits.
Crime and criminals; extent and cost of crime; making of the criminal; machinery of justice; history of punishment; penal institutions.

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

262 THE GOVERNMENTS OF THE FAR EAST
Mr. Bachman
Second semester only; 2 credits.
The governmental organization and politics of Japan, Manchoukuo, and China.

282 PUBLIC ADMINISTRATION
Mr. Spellacy
First semester only; 3 credits.
Relationship of administration to policy forming agencies; organization of administrative staffs; centralization of responsibility.
283 **PUBLIC SERVICE**  
*Second semester only; 3 credits.*  
The recruitment, training, promotion, and control of government employees.  

292 **GOVERNMENT AND BUSINESS**  
*Year course; 2 credits each semester.*  
Constitutional limitations; regulatory legislation; problems of control through administrative commissions.  

301 **SEMINAR IN FAR EASTERN INTERNATIONAL RELATIONS**  
*Year course; 2 credits each semester.*  

320 **SEMINAR IN PUBLIC ADMINISTRATION**  
*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.  

**OTHER COURSES**  
The following courses, ordinarily given in alternate years, will not be offered in 1939-40:  

- **212 Police Administration: Crime Prevention**—First semester only; 2 credits.  
- **213 Police Administration: Criminal Law**—First semester only; 2 credits.  
- **214 Police Administration: Evidence**—Second semester only; 2 credits.  
- **258 Conduct of American Foreign Relations**—First semester only; 2 credits.  
- **261 International Law**—Second semester only; 2 credits.  
- **268 International Relations of the Far East**—Second semester only; 2 credits.  
- **270 Government of Hawaii**—Second semester only; 2 credits.  

Portuguese  
*(Courses to be announced.)*  

Psychology  

*Professors* Thayne M. Livesay, Ph.D., Stanley D. Porteus, D.Sc.; *Assistant Professor* Madorah E. Smith, Ph.D.  

*Professor Livesay, chairman*  

150 **GENERAL PSYCHOLOGY**  
*First semester only; 3 credits.*  

151 **APPLIED PSYCHOLOGY**  
*Second semester only; 3 credits.*  
Application of psychological principles to practical life situations. Special attention to industrial, business, legal, and medical fields. Prerequisite: Psychology 150 or equivalent.  

200 **READING OR RESEARCH**  
*Credits by arrangement.*  
Research problems or intensive reading in some field of individual interest. Prerequisite: consent of instructor concerned.  

252 **RACIAL PSYCHOLOGY**  
*Second semester only; 2 credits.*  
The nature and importance of racial differences with special reference to racial research in Hawaii. Prerequisite: Psychology 150 or equivalent.  

259 **CHILD PSYCHOLOGY**  
*(For description, see* Teacher Education, Education.)*  

Miss Smith
### Courses of Instruction

**267 Psychology and Treatment of Exceptional Children**  
*Miss Smith*

*Second semester only; 2 credits.*  
Psychological and educational aspects of problems presented by various types of exceptional children. Adjustments in curricula and methods desirable in work with such children.

**268 Mental Hygiene**  
*(For description, see Teacher Education, Education.)*  
*Miss Smith*

**280 Social Psychology**  
*Mr. Porteus*

*First semester only; 2 credits.*  
The psychology of human relations. Psychological factors that determine the behavior of an individual in his many social relationships. Prerequisite: Psychology 150 or equivalent.

**300 Reading or Research**  
*Staff*

*Year course; credit by arrangement.*  
Research problems or intensive reading in some field of psychology. Prerequisites: graduate standing and consent of department chairman.

**361 Mental Deficiency and Abnormality**  
*(For description, see Teacher Education, Education.)*  
*Miss Smith*

**371 Experimental Child Study**  
*(For description, see Teacher Education, Education.)*  
*Miss Smith*

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**Public Health Nursing**

*Assistant Professor Theodora Floyd, M.A., R.N.; Instructor Jana Glenn, M.S.*

**150 Public Health Nursing**  
*Miss Floyd*

*First semester only; 3 credits.*  
The development, methods, and technique of public health nursing. Emphasis on the social and preventive aspects of service to the family and community.

**156 Child Hygiene**  
*Miss Floyd and Special Lecturers*

*First semester only; 3 credits.*  
Hygiene of normal childhood from birth through school age; functions of the public health nurse in urban and rural communities; observation in institutions doing child health work.

**158 Nutrition**  
*Miss Glenn*

*First semester 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.

**160 Public Health Administration**  
*Special Lecturers*

*First semester only; 2 credits.*  
Methods for the protection and promotion of community health; epidemiology and control of communicable diseases; modern public health organization and administration; statistical methods in health work.

**171 Field Program**  
*Miss Floyd and Field Supervisors*

*Second semester only; 10 credits.*  
Practical training in home visiting for both bedside and instructive care; experience in kindergarten and school health work, pre-natal and child health conferences, tuberculosis and other clinics, and social case work.

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**Religion**

The Hawaii School of Religion, though 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 Hubert Winthagen, B.Th., Stephen G. Mark, M.A.*

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

151 PROBLEMS IN RELIGIOUS THOUGHT
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
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
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
First semester only; 2 credits.
The thought of the five great prophets studied from the angle of their own historical situation and with a consideration of the permanence of their message.

211 THE LIFE AND TEACHINGS OF JESUS
Second semester only; 2 credits.
The known teachings of Jesus, with their philosophical and practical implications.

215 THE HISTORICAL DEVELOPMENT OF THE BIBLE
Second semester only; 2 credits.
A survey of present knowledge of the origin and development of the English Bible in the light of historical, archeological, and literary research.

220-221 PERSONALITIES OF CHRISTIAN HISTORY
Year course; 2 credits each semester.
The men and women whose lives have marked stages in the history of the Christian church.

230-231 FUNDAMENTAL BELIEFS OF THE CHRISTIAN FAITH
Year course; 2 credits each semester.
Analysis of the various beliefs of the Christian church; the evidence that is presented to support them.

250 A COMPARATIVE STUDY OF RELIGIONS
First semester only; 2 credits.
The origin, development, and major ideas of the great religions.

260 THE PSYCHOLOGY OF RELIGION
First semester only; 2 credits.
Analysis of religious behavior from the psychological point of view, dealing with its appearance in its most significant forms.

261 RELIGION AND ETHICS
Second semester only; 2 credits.
Problems arising from the relationship between religion and ethics; modern thought on these problems.

270 RELIGION AND ART
First semester only; 2 credits.
The way in which religious life and thought have found expression in art.

271 RELIGION AND LITERATURE
Second semester only; 2 credits.
Interpretations of religion that have appeared in the literature of the English-speaking world.

280-281 THE PHILOSOPHY OF RELIGION
Year course; 2 credits each semester.
Major problems that are faced in an attempt to construct an adequate philosophy of religion.
Courses of Instruction

350-351 Seminar in Religion
Credit by arrangement.
Prerequisites: any 2 courses in religion.

Russian
Assistant Professor Denzel Carr, Ph.D.

100 Elementary Russian
Year course; 3 credits each semester. (Alternate years.)
A phonetic and direct-method introduction of a basic vocabulary and common grammatical forms, followed by reading of Harper's Russian Reader (Tolstoy's stories).

Other Courses
The following course, ordinarily given in alternate years, will not be offered in 1939-40:
101 Intermediate Russian—Year course; 3 credits a semester.

Social Work Training
Visiting Professor Faith Fairfield Gordon, M.D.; Assistant Professor (to be announced).

200 Introduction to Social Work
Year course; 3 credits each semester. Historical development and present trends in all fields of social welfare; field trips to local institutions and agencies. Prerequisite: senior standing.

300 Theory of Social Case Work
Year course; 3 credits each semester. An introductory course. Principles of social case work and their application. Students combine this course with field work in a social agency. Prerequisites: graduate standing and consent of instructor.

302 Methods in Social Case Work
Year course; 3 credits each semester. Continuation of Social Work Training 300. More advanced techniques of social case work practice. Field work practice required of all students. Prerequisites: graduate standing and consent of instructor.

303 Health and Disease
First semester only; 2 credits. A study of bodily functions; conservation of health; causes, symptoms, transmission, and treatment of diseases; the function of the social worker in health problems. Prerequisites: graduate standing and consent of instructor.

Sociology
(Faculty listed under Anthropology and Sociology.)

150-151 Introduction to the Study of Man
(For description, see Anthropology and Sociology.)

170 Elementary Sociology
First semester only; 2 credits. Man's cultural heritage and social nature. Personality and the group. Crowds and publics. Races, nations, and classes. Social interaction and social change. This course, when taken together with Anthropology 170 and Anthropology 171, is accepted as equivalent to Anthropology and Sociology 150-151. Credit not obtainable in this course if Anthropology and Sociology 150-151 is taken for credit.

252 The Community
First semester only; 3 credits. An orientation to community problems. The nature, types, growth, and institutional bases of the community.

254 The Urban Community
Second semester only; 3 credits. Sociological principles applied to the modern city. Structure, growth, social and personal life organization in an urban setting, with special reference to Honolulu. Field trips. Prerequisite: Sociology 252.
255 SOCIAL DISORGANIZATION

*Second semester only; 3 credits.*

The factors in contemporary society that condition personal and social disorganization. An introduction to problems of delinquency, dependency, degeneracy, and defectiveness. Field trips.

256 RACE RELATIONS IN HAWAII

*First semester only; 3 credits.*

Problems of cultural contacts in a commercial and plantation frontier. Research findings relative to movement, accommodation, and assimilation of the immigrant groups in Hawaii.

258 RACE RELATIONS IN THE PACIFIC

*Second semester only; 3 credits.*

A survey of typical situations of race and culture contacts in the Pacific area. Conflict and accommodation; caste; race prejudice; miscegenation; the race relations cycle.

267 THE FAMILY

*First semester only; 3 credits.*


268 HUMAN MIGRATIONS

*First semester only; 3 credits.*


269 PERSONALITY AND CULTURE

*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 and Sociology 150-151.

273 MODERN AMERICA

*(For description, see Anthropology and Sociology.)*

274 SOCIAL CHANGE

*Second semester only; 3 credits.*

The nature of and the major factors affecting social change in the modern world. The role of invention and science. Social forecasting. Prerequisite: Anthropology and Sociology 150-151.

290 INDEPENDENT STUDY AND HONORS

*Credit by arrangement.*

Prerequisite: consent of instructor.

300 ADVANCED READING

*Credit by arrangement.*

Prerequisite: consent of instructor.

350-351 SEMINAR IN SOCIOLOGY

*Year course; 2 credits each semester.*

Open to senior and graduate students. Prerequisite: consent of instructor.

400 THESIS RESEARCH

*Credit by arrangement.*

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

OTHER COURSES

The following courses, ordinarily given in alternate years, will not be offered in 1939-40:

253 The Rural Community—Second semester only; 3 credits.

266 Social Institutions—Second semester only; 3 credits.

270 Population and Society—First semester only; 3 credits.

271 Human Ecology—Second semester only; 3 credits.

272 Collective Behavior—First Semester only; 3 credits.

275 Modern Sociological Theories—First semester only; 3 credits.

276 Principles of Sociology—Second semester only; 3 credits.
Courses of Instruction

Spanish

Instructor John Earl Aguiar, M.A.

100 Elementary Spanish

Mr. Aguiar

Year course; 3 credits each semester.

Conversation and dictation. Both Castilian and Latin-American pronunciation.

101 Modern Spanish Literature

Mr. Aguiar

Year course; 3 credits each semester.


102 Phonetics

Mr. Aguiar

Year course; 1 credit each semester.

Elementary course in general phonetics. Reading and writing exercises in Spanish pronunciation. Prerequisite: one year of college Spanish or equivalent.

250 Spanish Classics

Mr. Aguiar

First semester only; 2 credits.

Works of Cervantes, Lope de Vega, Tirso de Molina, Calderon de la Barca, etc. Composition and conversation. Prerequisite: two years of college Spanish or equivalent.

251 Spanish Seminar

Mr. Aguiar

Second semester only; 2 credits.

Rapid reading of modern Spanish novels, plays, and current periodicals. Individual research and reports on assigned topics. Prerequisite: Spanish 250.

Other Courses

The following courses, ordinarily given in alternate years, will not be offered in 1939-40:

252 Modern Spanish Novel—First semester only; 2 credits.

253 Modern Spanish Drama—Second semester only; 2 credits.

Sugar Technology

(Faculty listed under Chemistry and Sugar Technology.)

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

201 Sugar Analysis

Mr. Dillingham

Year course; 3 credits each semester.

Apparatus for and methods of analysis of sugarhouse products and by-products. One lecture and two laboratory periods a week. Prerequisites: previous or concurrent registration in Chemistry 101 or 102; 150, 151 or 250. Laboratory fee $7 a semester.

250 Sugarhouse Calculations

Mr. Dillingham

First semester only; 1 credit.

Instruction in sugarhouse calculations and in making out laboratory reports such as those required by plantations in Hawaii. Prerequisites: Sugar Technology 201, 253.

252 Sugar Manufacture

Mr. McAllp

First semester only; 3 credits.

Manufacture of sugar, with particular reference to Hawaiian principles and practice. Three lectures a week. Prerequisites: Sugar Technology 201, 253.

253 Summer Factory Practice

Mr. Dillingham, Mr. McAllp

Summer following completion of junior year; 6 credits.

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

255 Field Practice

Mr. McAllp

Second semester only; 16 credits.

Practical work during the second semester of the senior year as a student assistant at the experiment station of the Hawaiian Sugar Planters' Association. Prerequisite: all other courses required for graduation in Sugar Technology. If this requirement has not been met at the end of the first semester, arrangements may be made to take this course in the first semester of the following year.
256 **Heat in the Sugar Factory**  
*Second semester only; 3 credits.*  
Calculations and lectures on heat relations and the influence of variables on the heat balance of cane sugar factories. Prerequisite: previous or concurrent registration in Sugar Technology 201.

257 **Factory Practice**  
*Second semester only; 16 credits.*  
Practical work as an apprentice in a sugar factory during the second semester of the senior year. Prerequisites: all other courses required for graduation in Sugar Technology.

Survey Courses

*Professor Harold S. Palmer, Ph.D.; Instructor Spencer W. Tinker, M.S.*

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, and freshmen in Teachers College. Three lectures a week. Admission for second semester only by consent of instructor.

205 **Hawaiian Natural History**  
*Second semester only; 2 credits.*  
Review of various fields of local natural science. Lectures and reading.

Other Courses

The following course, ordinarily given every year, will not be offered in 1939-40:

251 **History of Science**—Second semester only; 2 credits.

Teacher Education

The courses under this heading constitute the curriculum of Teachers College. Because of the professional nature of the Teachers College courses, registration is ordinarily restricted to Teachers College students. An exception may be made for a student in another college who procure the permission of his Dean and that of the Dean of Teachers College.

Certain required and elective 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.

**Agriculture**

*Visiting Professor Clarence S. Anderson, Ph.D. Absent on leave 1939-40; Associate Professor Fred E. Armstrong, M.S.*

270 **Farm Practice**  
*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**  
*First semester, 1 credit; repeated second semester.*  
For prospective elementary school teachers. Designed to develop ability to conduct home and school gardens. Study of fertilizers, insect control, and plant propagation.

**Arithmetic**

*Assistant Professor Madorah E. Smith, Ph.D.*

150 **Arithmetic for Teachers**  
*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
Instructor Jessie S. Fisher, Ed.B.

261 Creative Art for the Primary Years
Second semester only; 2 credits.
Provides 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
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
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
Instructor Elizabeth D. W. Brown, Ph.D.

135 Biology
Year course; 2 credits each semester.
Underlying biological principles of plants and animals. Morphological, physiological, and ecological study of types from lower and higher forms. One lecture and one laboratory period a week. Laboratory fee $1 a semester.

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. Prerequisite: Biology 135. Laboratory fee $1.

Education

BASIC 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.

ADVANCED COURSES

219 Adult Education—The Art of Discussion
First semester only; 2 credits.
235 Participation Teaching  
Mr. Sayers, Mr. Bryan  
*Year course; 1 credit each semester.*  
Similar to Education 135, providing illustrative material for education 250-251 and 285-286.

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, four hours weekly.

246 Adult Education—Organization and Methods  
Mr. Scott  
*Second semester only; 2 credits.*  
The continuation school; community service centers; workers' education; the state and adult education; methods of teaching in the adult school.

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, 8 credits; repeated second semester.*  
Supervised practice teaching in Home Economics. Observation, teaching, and conferences. Open only to seniors and graduates. Prerequisite, or to be taken same semester: Home Economics 251.

254 Practice Teaching  
Miss Caro, Mr. Hancey, Mr. Tinker, Miss Traut, Miss Copp, Miss Freitas  
*First semester, 8 credits; repeated second semester.*  
Nine weeks of full-time teaching supervised by staff members of Teachers College Elementary and Intermediate School.

260 Statistical Method  
Mr. Hoy  
*First semester, 2 credits; repeated second semester.*  
Statistical and graphic methods of value to teachers and administrators. Tabulation, graphical representation, calculations of measures of central tendency and dispersion, calculation and interpretation of zero order correlations.

261 Educational Measurements  
Miss Smith  
*First semester, 2 credits; repeated second semester.*  
The use of informal and standardized tests in school work; practice in scoring such tests and interpreting the results. Nine weeks, four hours weekly.

267 Psychology and Treatment of Exceptional Children  
Miss Smith  
*(For description, see *Psychology*.)

268 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, four hours weekly.

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

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

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

285-286 Elementary Education  
Mr. Sayers, Mr. Bryan  
*Year course; 3 credits each semester.*  
Problems of elementary education arising from contrasting views and practices.
### 291 Adult Education—Aims and Principles

**Mr. Scott**

*First semester only; 2 credits.*

The adult education movement and its philosophy; its relation to political and social organization; local application; psychology of adult learning.

### 292 Leadership of Group Work for Boys and Girls

**Mr. Eichelberger**

*First semester only; 2 credits.*

The 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, stressing comparisons with the United States.

### 294 Educational Sociology

**Mr. Gordon**

*Second semester only; 2 credits.*

The factors and situations within the contemporary school and community which 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. Tanner**

*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, four hours weekly.

### 296 History of Education in Hawaii

**Mr. Gordon**

*First semester only; 2 credits.*

Preview of the socio-economic influence which 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 which have influenced education in Hawaii. Industry and immigration; Organic Act and legislation; secondary education; teacher preparation; higher education.

### Graduate Courses

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor(s)</th>
<th>Credits</th>
<th>Semester(s)</th>
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<tr>
<td>300</td>
<td>Reading or Research</td>
<td>Staff</td>
<td>1 to 3</td>
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<td>Individual reading or research. Prerequisites:</td>
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<td>Teachers College and instructor concerned.</td>
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<td>340</td>
<td>Philosophy of Education</td>
<td>Mr. Sayers</td>
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<td>First, repeated second</td>
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<td></td>
<td>Philosophy and science in education; the American democratic social tradition; basic views of human behavior; improvement of life; reconstruction in education.</td>
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<td>345</td>
<td>Seminar in Philosophy of Education</td>
<td>Mr. Sayers</td>
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<td>Social and psychological theory involved in</td>
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<td>controversial educational issues. Prerequisites:</td>
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<td>Education 340 or equivalent and consent of</td>
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<td>permission of instructor is obtained.</td>
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<td>350</td>
<td>History of Education</td>
<td>Mr. Tanner</td>
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<td>First, repeated second</td>
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<td></td>
<td>Development of educational thought and practice</td>
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<td>to present time studied to determine origins of</td>
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<td>influence responsible for modern school systems.</td>
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<td>351</td>
<td>Advanced Educational Psychology</td>
<td>Mr. White</td>
<td>2</td>
<td>First, repeated second</td>
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<td>Application of experimental evidence in</td>
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<td>psychology to major educational problems. The</td>
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<td>354</td>
<td>Internationale Teaching</td>
<td>Mr. Wist, Mr. Sayers,</td>
<td>14</td>
<td>First, repeated second</td>
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<td>Mr. Anderson, Miss Douglass</td>
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<td>Full-time teaching under special supervision in</td>
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<td>selected public schools. Restricted to fifth-year</td>
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361 Mental Deficiency and Abnormality
(For description, see Psychology.)
Miss Smith

363 Seminar in Educational Administration
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.
Mr. Wist

364 The Community and Public School Administration
First semester, 2 credits; repeated second semester.
A seminar dealing with interrelations of school and community as they affect the work of the school administrator.
Mr. Scott

365 The Supervision of Instruction
Second semester only; 2 credits.
A seminar of the supervisory aspect of the work of the principal. The place of supervision; organization for supervisory service; techniques. Restricted to administrators and prospective administrators. Prerequisite: consent of instructor.
Mr. Wist

371 Experimental Child Study
Second semester only; 2 credits.
Experimentation in child psychology. Prerequisite: consent of instructor.
Miss Smith

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

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

390 Public School Administration
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 rules and regulations.
Mr. Wist

395 Seminar for Intern Teacher
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.
Staff

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

Other Courses
The following courses, ordinarily given, will not be offered in 1939-40:
259 Child Psychology—First semester only, 2 credits.
270 Agricultural Project Work—Second semester, 3 credits.
271 Principles of Vocational Education—Second semester, 3 credits.

English

Associate Professor Willis B. Coale, Ph.D.; Instructors Cynthia B. Geiser, M.A., Gaylord C. Leroy, Ph.D., Stewart C. Wilcox, Ph.D.; Lecturer Helen C. Twitchell, B.A.

152 Introduction to Literature
Year course; 3 credits each semester.
Mr. Coale, Mr. Wilcox, Mr. Leroy

201-202 Appreciation of Children's Literature
Year course; 2 credits each semester.
Methods for increasing the pleasure derived by children from books. Outstanding books for children considered.
Mrs. Twitchell
Courses of Instruction

290-291 **ENGLISH IN THE ELEMENTARY SCHOOL**
Year course; 3 credits each semester.
Mr. Coale
Reading and the creative phases of expression. Problems of usage and speech, especially as found in Hawaii.

292-293 **ENGLISH IN THE SECONDARY SCHOOL**
Year course; 3 credits each semester.
Mr. Coale
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**
First semester, 1 credit; repeated second semester.
Mrs. Geiser
Literature suitable for children in grades one to six. First semester emphasis upon materials for primary years, second semester for upper elementary years.

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

261 **OCCUPATIONAL GEOGRAPHY**
First semester, 3 credits; repeated second semester.
Mr. Jones
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.)
Mr. Coulter

263 **GEOGRAPHY OF PACIFIC ISLANDS**
(For description, see Geography.)
Mr. Coulter

**Library Science**
Instructor Cynthia B. Geiser, M.A.

200 **SEMINAR IN LIBRARY METHODS**
First semester, 2 credits; repeated second semester.
Mrs. Geiser
Evaluation of library techniques as applied to school libraries; emphasis upon local problems. Prerequisite: consent of instructor.

260 **LIBRARY OBSERVATION AND PARTICIPATION**
First semester, 2 credits; repeated second semester.
Mrs. Geiser
An orientation to library routine to help the student determine his aptitude for library work.

262 **ORGANIZATION AND ADMINISTRATION OF SCHOOL LIBRARIES**
Year course; 2 credits each semester.
Mrs. Geiser
First semester emphasis upon essentials of school library organization, second semester upon relation of the library to the school program.

264 **SCHOOL LIBRARY PRACTICE**
First semester, 2 credits; repeated second semester.
Mrs. Geiser
Students are assigned as assistants to librarians in selected public schools.

268 **CATALOGUING AND CLASSIFICATION**
First semester only; 2 credits.
Mrs. Geiser
Principles of dictionary cataloguing; Dewey decimal classification; simple subject heading work; practice in cataloguing and classifying children's books.

280 **BOOK SELECTION**
Second semester only; 2 credits.
Mrs. Geiser

**Music**
Instructors Dorothy M. Kahananui, Ed.M., Carlos Hancey, B.S.

152-153 **FUNDAMENTALS OF MUSIC**
Year course; 1 credit each semester.
Mrs. Kahananui
250 **Music for the Primary Years**  
*First semester only; 2 credits.*  
Music materials and procedures for the primary years. Prerequisite: Music 152-153.

251 **Music for the Upper Elementary Years**  
*Second semester only; 2 credits.*  
Music materials and procedures for the upper elementary years. Prerequisite: Music 152-153.

252 **Music in the Secondary School**  
*Second semester only; 2 credits.*  
The adolescent and music. Special groups in the secondary school. Music units and materials for the secondary school. Prerequisite: Music 152-153.

261 **Music History to the Classical Period**  
*Second semester only; 2 credits.*  

262 **Music History—Classicism, Romanticism**  
*First semester only; 2 credits.*  
The Viennese period. Nineteenth century romanticism as influenced by social evolution.

263 **Music History—Twentieth Century**  
*Second semester only; 2 credits.*  
Nineteenth century nationalism and twentieth century modernism.

264 **Choral Conducting**  
*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**  
*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**  
*First semester, 2 credits; repeated second semester.*  
A 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**  
*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**  
*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.

*Physical and Health Education*


170 **Community Recreation**  
(For description, see *Physical Education.*)  
Mr. Knox

175 **First Aid**  
(For description, see *Physical Education.*)  
Mrs. Bennett

180 **Personal Hygiene (Women Only)**  
(For description, see *Physical Education.*)  
Mrs. Bennett

181 **Personal Hygiene**  
(For description, see *Physical Education.*)  
Mr. Knox
220 **Physical Education in the Elementary School**

*Year course; 2 credits each semester.*

Methods, materials, and activities for the elementary grades. Combination of lecture and laboratory, 3 periods a week.

**Mrs. Waterman**

224 **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.

**Miss Gay**

226 **Survey of Rhythmics (Women)**

*First semester only; 2 credits.*

Fundamentals of movement and rhythm basic to all types of dance. Basic methods and materials in modern folk and tap dance. Combination of lecture and laboratory, 3 periods a week.

**Miss Gay**

232 **Theory of Minor Sports (Men)**

*Year course; 2 credits each semester.*

Methods of teaching mass games, tumbling, and stunts. Group techniques for teaching tennis, swimming, volleyball.

**Mr. Knox**

238 **Theory of Individual Gymnastics**

*(For description, see Physical Education.)*

**Mrs. Waterman**

240 **Theory of Major Sports, Football (Men)**

*First semester only; 2 credits.*

Theory and practice in the coaching of football.

**Mr. Klam**

241 **Theory of Major Sports, Basketball (Men)**

*First semester only; 2 credits.*

Theory and practice in the coaching of basketball.

**Mr. Gill**

242 **Theory of Major Sports, Baseball (Men)**

*Second semester only; 2 credits.*

Theory and practice in the coaching of baseball.

**Mr. Gill**

243 **Theory of Major Sports, Track (Men)**

*Second semester only; 2 credits.*

Theory and practice in the coaching of track.

**Mr. Kaulukukui**

245 **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.

**Miss Gay**

256 **Principles of School Health Education**

*Second semester only; 2 credits.*

The field of health education; principles governing health; methods and materials for teaching health; problems of administration of the health program.

**Mrs. Waterman**

260 **Physiology of Exercise**

*(For description, see Physical Education.)*

**Mrs. Bennett**

280 **Organization and Administration of Health and Physical Education**

*Second semester only; 3 credits.*

The activity program; interscholastic and intramural athletics; the physical education plant; school health education; student leaders; management of finances; testing in physical education.

**Mr. Knox**

282 **History and Principles of Physical Education**

*First semester only; 2 credits.*

Historical survey, aims and objectives of physical education; its relation to general education. Selection and adaptation of activities to different ages and conditions.

**Mr. Knox**

352 **Principles of Public Health**

*(For description, see Physical Education.)*

**Mr. Rhea**
Zoology

Scouting

Lecturers Frederick B. Forbes, B.A., Edna P. Reese.

240 Boy Scout Training Course  Mr. Forbes

Second semester only; 2 credits.

Scout methods and materials. Introduction to scouting; Cub division; boy scouting and senior divisions; sea scouting; rovering. Boy Scout certificate issued upon completion of course.

283 Girl Scout Training Course  Miss Reese

Second semester only; 2 credits.

Tenderfoot, second- and first-class badge requirements. Visits to Girl Scout troops and outdoor trips.

Social Science

Instructor George P. Gordon, M.A.

251 Social Science in the Secondary School  Mr. Gordon

Second semester only; 2 credits.

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 adopted to nature of material and special subject matter trends of individual interest.

Zoology

Professors Charles H. Edmondson, Ph.D., Walter Carter, Ph.D.; Associate Professors Christopher J. Hamre, Ph.D., Frederick G. Holdaway, Ph.D., Joseph E. Alicata, Ph.D.; Assistant Professor Milton A. Miller, Ph.D.; Instructor Jens M. Ostergaard; Lecturers David T. Fullaway, M.A., C. B. Keck, M.S.

Professor Edmondson, chairman

Students expecting to continue in graduate work in Zoology should include in their undergraduate course Zoology 150, 151, 253, 260, and 261, Agriculture 254, and fundamental courses in Chemistry, Physics, and Botany.

Students who plan to pursue graduate work in Entomology should take Zoology 150, 151, 170, 173, 260, 291, Agriculture 254, 8 credits in Chemistry, 8 credits in Physics, 6 credits in General Botany. In addition, Zoology 362 is recommended.

A biological laboratory at Waikiki provides excellent opportunity for marine biological studies. Special investigators are offered every possible facility for research.

150 General Zoology  Staff

First semester only; 4 credits.

An introductory course. Biological principles; studies of structure, development, relationship, and distribution of animals. Two lectures and two laboratory periods a week. Laboratory fee $5.

151 Comparative Anatomy of the Vertebrates  Staff

Second semester only; 4 credits.

A continuation of Zoology 150. Comparative study of the organ systems of typical vertebrates and the structural and evolutionary relationships of vertebrate groups. Two lectures and two laboratory periods a week. Prerequisite: Zoology 150. Laboratory fee $3.

160-161 Mammalian Anatomy  Mr. Ostergaard

Year course; 2 credits each semester.

A laboratory course primarily for premedical students. Careful dissection of a typical mammal. Prerequisites: Zoology 150, 151. Two laboratory periods a week. Laboratory fee $6 a semester.
170 **GENERAL ENTOMOLOGY**  Mr. Holdaway  
*First semester only; 3 credits.*  
An introductory course. The study of insects: structure, habits, biology, and classification. Emphasis on insects characteristic of Hawaii. Two lectures and one laboratory period a week. Prerequisites: Biology 135, Zoology 150, or Botany 101; both Zoology and Botany recommended. Laboratory fee $2.  

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 $2.  

174 **MEDICAL AND VETERINARY ENTOMOLOGY**  Mr. Alicata  
*First semester only; 2 credits.*  
Arthropod-borne diseases of man and domesticated animals; emphasis on the habits, distribution, prevention, and control of arthropods involved. Prerequisite: Zoology 170 or consent of instructor.  

180-181 **ANIMAL ECOLOGY**  Mr. Edmondson  
*Year course; 3 credits each semester.*  
The relation of organisms to their environment. Lectures in Dean Hall: laboratory work at the Marine Biological Laboratory, Waikiki; library work. Prerequisites: (1) Zoology 150, 151, or (2) Biology 135, or (3) Botany 101. Laboratory fee $2.  

253 **PARASITOLOGY**  Mr. Alicata  
*Second semester only; 3 credits.*  
Parasites affecting man and domesticated animals. Emphasis on classification, morphology, life history, and control. One lecture and two laboratory periods a week. Prerequisites: junior standing; Zoology 150, 151. Laboratory fee $4.  

254 **INSECT MORPHOLOGY**  Mr. Holdaway  
*First semester only; 2 credits.*  
Comparative morphology of insects, special attention to structures of importance in economic and systematic entomology. Homologies of structures. Insect anatomy. Two laboratory periods a week. Prerequisite: Zoology 170. Laboratory fee $2.  

255 **SYSTEMATIC ENTOMOLOGY**  Mr. Holdaway  
*Second semester only; 2 credits.*  
History of nomenclature. The international code. Classification of insects. Practice in insect taxonomy. Each student selects a particular group for special study, collection, and report. Two laboratory periods a week, including a short course of lectures. Prerequisite: Zoology 254. Laboratory fee $2.  

257 **PLANT QUARANTINE AND INSPECTION**  Mr. Fullaway  
*Second semester only; 3 credits.*  
Quarantine laws and regulations; ship and cargo inspection. Practical experience in plant inspection. In cooperation with entomologists of the Territorial Board of Agriculture and Forestry and under the supervision of the Plant Inspection Service. One lecture and two laboratory periods a week. Prerequisites: Zoology 254, 255. Desirable preparation: Zoology 173.  

259 **APICULTURE**  Mr. Keck  
*Second semester only; 3 credits.*  
Structure, life history, general behavior, activities, and products of the honey bee; practical in bee keeping; bee diseases; relation of bees to agriculture and horticulture. Two lectures and one laboratory period a week. Prerequisite: Zoology 170 or permission of instructor. Laboratory fee $2.  

260 **HISTOLOGY**  Mr. Hamre  
*First semester only; 3 credits.*  
Study of tissues, principles of histology, and microscopic anatomy of organ systems of a limited number of vertebrate animals. Lectures and laboratory. Prerequisites: Zoology 150, 151. Laboratory fee $5.  

261 **VERTEBRATE EMBRYOLOGY**  Mr. Hamre  
*Second semester only; 3 credits.*  
Principles of embryology illustrated by a detailed study of the development of the chick and frog. Lectures and laboratory. Prerequisites: Zoology 150, 151. Laboratory fee $5.  

**PRINCIPLES OF GENETICS**  Mr. Miller  
(For description, see Agriculture 254.)
285 **Evolution and Eugenics**

*Second semester only; 2 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. Desirable preparation: a course in genetics.

291 **Physiology**

*Second semester only; 3 credits.*

The functions characteristic of the various systems of organs of the human body. Prerequisite: junior standing.

300 **Research**

*Credits by arrangement.*

Prerequisites: graduate standing and consent of department chairman.

310 **Zoological Seminar**

*Year course; 1 credit each semester.*

Presentation of seminar reports, reports upon research, or reviews of current zoological literature. Open to upper division undergraduates who obtain consent of instructor. May be taken repeatedly.

351 **Cellular Biology**

*Second semester only; 2 credits.*

A seminar course for the study of the cell and its inclusions as a protoplasmic unit. Special reference to the development of the germ cell and the recent methods of experimentation. Open to upper division undergraduates who obtain consent of instructor. Prerequisites: Zoology 150, 151, 260.

352 **Insect Ecology**

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

Insect habitats, synecology, autecology; emphasis on recent advances. Lectures, discussions, field work, and experimental work. Prerequisite: Zoology 255 or consent of instructor.

353 **Principles of Applied Entomology**

*Second semester only; 3 credits (Alternate years.)*

Economic problems from the standpoint of history and recent advances. Insect vectors of plant and animal diseases. Reduction of insect damage by reduction of insect abundance and host susceptibility. In collaboration with entomologists of Hawaiian experiment stations and others. Lectures, assigned readings, and reports. Prerequisites: Zoology 173 and 352, or consent of instructor.

355-356 **Insect-Transmitted Diseases of Plants**

*Year course; first semester, 2 credits; second semester, 1 credit.*

Lectures in first semester; current literature second semester.

362 **Microtechnique**

*First semester only; 2 credits.*

The fixing, staining, and mounting of animal tissues. Two laboratory periods a week. Prerequisite: Zoology 260. Laboratory fee $8.

370 **Systematic Zoology**

*Year course; 2 credits each semester.*

A systematic survey of the invertebrate and vertebrate fauna of Hawaii (exclusive of insects). Open to upper division undergraduates who obtain consent of instructor. Laboratory fee $2 a semester.

400 **Thesis Research**

*Credit by arrangement.*

Only graduate students engaged in the preparation of theses in Zoology may register in this course.
All of these awards were made in June except those whose recipients' names are starred. The single star signifies that the award was made in February, the double star that it was made in August.

Academic Degrees

**DOCTOR OF PHILOSOPHY**

Mark Wheeler Westgate, B.S., University of Hawaii, 1932; M.S., University of Hawaii, 1933.

Thesis: *Chemical Investigation on the Sterols of Five Tropical Oils.*

**MASTER OF SCIENCE**


Austin Emery Jones, A.B., University of California, 1924.


Thomas Newton Shaw, B.S., California Institute of Technology, 1937.


**MASTER OF ARTS**

**Neil William Ackland, B.A., Albion College, 1923.**

Thesis: *Some Implications of the Use of the Seashore Measures of Musical Talent in our Secondary School Administration.*

Gertrude Fehmer Dow, B.A., University of Hawaii, 1930.


Eureka Barnum Forbes, B.A., University of Hawaii, 1933.

Thesis: *The Life and Work of Cochran Forbes, Missionary to the Hawaiian Islands from 1832 to 1847.*

**Frederick Gotwald Holahan, B.A., Pennsylvania State College, 1937.**


Sunao Idehara, B.A., University of Hawaii, 1937.

Thesis: *United States and the Algeciras Conference.*

George Theodore Lecker, A.B., Arizona State Teachers College, 1933.


Richard Alan Liebes, B.S., University of California, 1934.


**Ralph Waldo Emerson Reid, B.S., Northwestern University, 1936.**


Beth Alene Roberts, A.B., Brigham Young University, 1936.


*Ruth Davis Ross, B.A., University of Hawaii, 1932.*

**Degrees Conferred in 1938**

**MASTER OF EDUCATION**

Albert Edward Adams, B.A., Culver-Stockton College, 1924.

Thesis: *A Survey of Religious Education Conducted by the Hawaiian Board of Missions and the Inter-Church Federation in the Public Schools of Oahu.*

Ross Wilbur Bachman, B.S., Dakota Wesleyan University, 1928.

Thesis: *The Reading Program of a Small Rural Elementary School.*

**Joseph Ingman Bakken, A.B., St. Olaf College, 1925.**


Lida Haggarty, Ed.B., University of Hawaii, 1937.


Elizabeth Ruley Miller, A.B., Oxford College for Women, 1919.

Thesis: *A Follow-up Study of Fifty Former Waialee Training School Boys.*

**Mary Moodie, B.A., University of Hawaii, 1932.**

Thesis: *Norms for the Hawaiian Islands on the MacQuarrie Mechanical Ability Test.*


**BACHELOR OF SCIENCE**

**IN AGRICULTURE**

Minoru Awada
Nam Young Chung
Mitsugi Doi
George Fukuda
Mitsuyoshi Fukuda
Asakuma Goto
Sheong Hee
Yutaka Hiroki
Morio Ishado
Masami Iwamura
Masato Kobatake
Akio Kubota
Franklin Sui Chong Loo
William Tai Choong Look
Kazuo Maeda
Minoru Matsuura
George Dung Loy Mau
Walter Wha Inn Nahm
Hung Sum Nip
Shokyo Tachikawa
Shiro Takei
Frederick Bow Wah Tan
Sau Hoy Wong

**IN GENERAL SCIENCE**

Doak Carey Cox
James Kazuo Hayashi
Henry Masashi Kawano
Kong Tong Mau
Allen Kwan Sau Pang
Lily Yuriye Utsumi (*Honors in Chemistry*)

**IN HOME ECONOMICS**

Irvine Tewksbury Baptiste
Bernice K. Chang
Margaret Ngit Ngo Chow
Pearl Sau Pung Choy
Unoyo Kojima
Juanita Lum-King
Michie Morimoto
Barbara Fumiko Okazaki

*Alice Moy Pang
Futae Shimokawa
Florence Emily Wilder
Chew Young Wong
Minnie Ngan Hung Wong
Phyllis Hung Sim Wong
Bernice Sai Lin Young
IN CIVIL ENGINEERING
Roy William Ahrens
Kwan You Chang
Albert Chong Chock
George Victor Clark
Ah Leong Ho
Tim Ho
Hing Chock Lau
Ah Sum Leong
Harry K. Stewart, Jr.
George Yamanaga

IN SUGAR TECHNOLOGY
Raj Narayan Agarwala
Lawrence Allen Boggs
Robert Harrison Hughes

BACHELOR OF ARTS
Augustine Ahuna
Otomatsu Aoki
*Mason Washington Ayer
Frances Rosalia Baehl
Leland Earle Black
Richard Langdon Burkland
Ellen Kam Lin Chang
*Jennie Ching
Herbert Young Cho Choy
Wai Chee Chun
Katherine Jessie Cockburn
Alice Brown Correa
*Alfred Ainoa Espinda
**Mary Marken Ewing
Reaka Lcimokihana Franson
Harry Masato Fujikane
Akira Fukunaga
Robert Francis Gill, Jr.
(Honors in Chemistry)
John Yat Sun Goo
Brooke Margaret Mary Greaney
*Mae Sarepta Moody Harper
Hatsue Hongo
Arthur Lawson Husted, Jr.
*Lucille Loy Ing
Jeanne Clarma Ingalls
(Honors in Chemistry)
Eleanor Waterhouse Isenberg
William Sekifumi Ishikawa
Albert Kai
Edna Umeyo Kanemoto
Takeo Kimura
Masanori Kono
Shiro Kumashiro
Edwin Lai
Kam Fook Lai
Henry Choy Lau
Kenneth Keong Lau
Ah Quon Leong
(Honors in Anthropology)

Sybil Yen Hao Lo
Mitsuo Maeda
Sadie Evensen Marsland
Betty Louise McCormack
Enos Medeiros, Jr.
Thomas Sweet Min
Kimiyo Miyahara
Iwao Mizuta
Malcolm Moore
*Helen Erna Nieman
James Saburo Nishiki
Richard Yoshiharu Noda
**Thomas Shoichi Ogata
Henry Tsuneci Ogawa
Takeshi Ogi
*Margaret Takayo Ohta
**Shirley Frances Oka
Matsuyo Okabe
Tsugio Okada
**Anne Eugenia Old
Rupert Saiki
Ryosaku Shigemura
John James Stone
Fred Susumu Takahashi
*Edison Bow Kwong Tan
Edwin Yoshiki Uesato
Hidesuке Uyenoyama
Marion Pauahi Webster
Arthur Fook Won
Eva Fukuda Wong
Koon Leong Wong
Misako Yamamoto
Tadao Yamamoto
Paul Shinn Yap
Iao Yasui
William Yee
Dorothy Elizabeth Young
**Leslie Zane
Degrees Conferred in 1938

BACHELOR OF EDUCATION

Eythel Yatsuko Abe
*Florence Ho Akana
Puamana Kate Akana
*Cecelia Steward Akina
*Eva Rapoza Almeida
**Lena Kumalae Among
Ethel Stewart Angco
Kam Yuen Au
Charlotte Betts
**Regina Maria Brady
Virginia Evelyn Brownlowe
**Emily Perry Cabral
Florence Mary Ann Camara
**Gertrude Lin Tai Loo Chai
Beatrice Sun-Kiu Chang
**Daisy Chang
Dorothy Yim Chang
**Violet Kam Chee
*Kim Young Ching
Esther Lee Chock
Elsie Koon Wah Chun
Ruby Kam Sim Chun
Betty Wha Sook Chung
**Joe Elza Crawford
*Amoy Elsie Davis
**Armandina Adele DeArce
Robert Edward Doe
**Frances Emilie Dunn
Virginia Sanford Evans
Edna Lucille Fernandes
*Beatrice Jook Yee Fong
Tatsue Laura Fujita
Phoebe Kaiulani Furtado
*Minnie Silva Girod
Elizabeth Kau Goo
**Phyllis Ching Gottesburen
Stella Yoon Haan
John Do Won Han
*Virginia Gilliland Harrison
**Hisashi Hasegawa
**Helen Apolonia Havlichek
**Hatsuye Higaki
*Anna H. Hill
**Peter T. Hirata
Blanche Aoe Hong
*Edith Kyung Sin Hong
Elizabeth Yuk Shen Ing
*Grace Fui Len Ing
Mary Yuk Chin Ing
*William Yuen Ing
Maude E. Cheda Irwin
*Mitsuko Thelma Izutsu
**Rosalind Juliet Andrade Johnson
Lei Dorothy Kamakaiwi
*Gladys Humiko Kameda
Mary Shu En Kau
*Thomas Kaulukukui
*Helen Kanako Kawano
**Francis Masao Koga
**Ellen Ah San Kubo
**Harlan Tsutomu Kubo
**Mabel Sakamoto Kubota
**Yuri Sugahara Kurio
**Kenneth Kakuro Kurokawa
Thomas Lum Lau
Josefa Dorothea Ledesma
*Alice Wook Hee Lee
*Alyce Yuke Chin Lee
**Annie May Lee
**Gladys Fujikado Lee
**Marvie Frances Lee
Miyo Hee Lee
Violet Charlotte Lee
*Edna Leong
Beatrice Yuen Oi Liu
Edna Liwai
Beatrice K. L. Loo
Mabel Nee Keon Loo
Ruth Oie Tuck Loo
Hazel Nee Keon Loo
*Ngan Sum Lum
Rose Chong Lung
Puarose Mahi
**Masao Maruyama
Tsuruyo Masuda
*Chieno Peggy Masumoto
Albert Joseph McKinney
Phyllis Medeiros
*Marie Merkel
Frances G. Miles
**June Umeda Minato
*Eleanor Ayako Miyake
Francis Tsutomu Miyake
Mildred Watanabe Miyamoto
*Moehau Martha Moore
*Elsie Ching Motoyama
*Brian Kazuo Mukai
**Miyoko Nakagami
Jane Harumi Nakano
*Haruko Nishikawa
**Albert Yoshio Nobu**  
**Ellen Shigeko Kubo Nobu**  
Lily Tsuyuko Okada  
Itsuko Irene Okano  
**Winifred Tom O'Rourke**  
John Edward Osmanski  
**Virginia Peralta**  
*Caroline Koerner Perry*  
Rosalind Kahiwahiwa Phillips  
**Alice Cameron Reid**  
**Antoinette Martinsen Rockfort**  
Hitoshi Sakai  
*Flora Santos*  
Lily Doong How Shak  
Shiho Shinoda  
William Boyd Shook  
*Adeline Sitro*  
Faith Sin  
*Eleanor Tsz Oi Soong*  
**Hazel Pine Spalding**  
*Itsuko Sueoka*  
**Harriet Shizuko Suzuki**  
*Sumi I. Tahakuki*  
**Natsuyo Viola Takafuji**  
Doris Kinie Takeuchi  
**Margaret Lee Tam**  
*Pina Sau Ping Tam*  
*Thelma Tenn*  
*Ethel Sadame Tomoguchi*  
Bessie Younglan Tong  
*Johanna Vanderwall*  
*Marian G. Wallace*  
*Rose Carol Warinner*  
*Sunu Watanabe*  
*Ella Teal Westly*  
Lucia Keliiopohina White  
*Romaine Whittaker*  
Margaret Louise Whittington  
**Alexandra Akana Williams**  
Ella Wittrock  
*Charlotte Kui Lin Wong*  
**Eleanor Amana Wong**  
*Elizabeth Wong*  
*Ruth Choy Wong*  
*Sau Chun Wong*  
**Katherine Yuk Hoon Wongwai**  
Violet Tam Wun  
Ruth Shigeko Yamamoto  
*Douglas Shigeharu Yamamura*  
Masami Yamato  
Ella Pil Soo Yang  
**Hazel Yap**  
Jessica Lai Young  
Anita Hahn Yue  
Esther Nyuk Lan Zane

FIVE-YEAR DIPLOMA

*Shogo Abe*  
*Lynette Hoona Ste Amoy*  
Leatrice Fumiiko Arakawa  
*Margaret Hung Kam Au*  
Stanley F. Bento  
Lois Evangeline Blaisdell  
Tamara Burmeister  
Carolyn Ah Sam Chang  
Nyuk Shin Ching  
**Hung Fat Choy**  
Violet Eleanor Choy  
Henry Won On Chun  
Lydia Chew Pung Chun  
Margaret Wong Chun  
Beatrice D’Araujo  
Florence DeMello  
Lionel Vernon Dupont  
*Martha Keonaona Dye*  
Kuulei Hiroko Emoto  
Hubert Victor Everly  
Hajime Fujimoto  
Edith Yuk Ngan Goo  
*Kuniko Hamamoto*  
*Elnyn Lo*  
*Beatrice Sung Yee Lm*  
Charles Chung-Wong Lum  
Wallace Michio Maeda  
Florence Fusako Makishima  
Clarence Norio Masumoto  
*Margaret Hifumi Monden*  
Edna Suzuki Nagakura  
**Katsuko Nakamura**  
Martha Sakamaki Nakata  
*Haruko Laura Okano*  
Mitsuo Okazaki  
Edna Mitsue Omatsu  
*Helen Chow Pipi*  
Richard Ratekin  
*Constance Fusayo Sagara*  
Kiyoshi Sakai  
Wygelia Hollis Smith  
*Arthur P. Song*  
Evelyn Mitsuko Sumida  
Alice Umiko Suzuki  
Robert Shinichi Taira  
Yasuo Takata
Degrees Conferred in 1938

*Ritsuyo Hirai
Mae Hoshino
**Edward C. Hustace
Namiko Iwashita
*Flora Cho Kang
*Yoshiko Irene Kashiwa
*Joyce Natsuko Kawamoto
*Haruko Kawasaki
Shiyono Kinoshita
Tokuiji Kubota
*Klara Kumeyo Kurano
*Aheong Peggy Lee
*Irene Kuen Yen Lee
*Thomas Chung Tung Lee
*Dorothy Ngan Foong Lo

PUBLIC HEALTH NURSING CERTIFICATE

Mary Noyes Dolan
Emilia Navarro
Hanayo Okamoto

Reuben Tam
Mathilda Ziegelhoefer Tamura
*Matsuko Tamura
*Margaret Elizabeth Thoene
Bernard Chang Ting
Lily Teshima Tominaga
*Lily Akiyau Tyau
*Florian Hu Wong
Hong Kwun Wong
*Marion Yin Ping Wong
*Yuriko Yamamoto
*Thelma Chiyono Yasutake
Toshimi Yoshinaga
Margaret Zane

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<th>Degree</th>
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<tbody>
<tr>
<td>Ritsuyo Hirai</td>
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<tr>
<td>Mae Hoshino</td>
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<td>Edward C. Hustace</td>
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<td>Namiko Iwashita</td>
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<td>Flora Cho Kang</td>
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<td>Yoshiko Irene Kashiwa</td>
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<td>Joyce Natsuko Kawamoto</td>
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<td>Haruko Kawasaki</td>
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<td>Shiyono Kinoshita</td>
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<td>Tokuiji Kubota</td>
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<td>Toshimi Yoshinaga</td>
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<td>Margaret Zane</td>
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<td>Public Health Nursing Certificate</td>
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<td>Mary Noyes Dolan</td>
<td>Clara Sadako Sakamoto</td>
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<td>Emilia Navarro</td>
<td>Ruth Fujiko Yokoyama</td>
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<tr>
<td>Hanayo Okamoto</td>
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### Summary of Enrollment, 1938-1939

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<tr>
<th></th>
<th>Degree candidates</th>
<th>Graduate students</th>
<th>Undergraduate students</th>
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<tbody>
<tr>
<td>Candidates for advanced degrees</td>
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<tr>
<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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<tr>
<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>
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<td>Sophomores</td>
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<td>Freshmen</td>
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<td>Public Health Nurses</td>
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<td>Teachers College</td>
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<td>Seniors</td>
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<td>Unclassified students</td>
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<td>Total undergraduates</td>
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<td>Total graduates</td>
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<td>Less duplicates</td>
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<td>(February graduates</td>
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<td>who became graduate</td>
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<td>students)</td>
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<tr>
<td>Non-credit students</td>
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<td><strong>GRAND TOTAL</strong></td>
<td><strong>2916</strong></td>
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</table>

#### Summer sessions, 1938

1468

### Geographic Distribution of Enrollment, 1938-1939

*(Summer sessions and non-credit students excluded)*

<table>
<thead>
<tr>
<th>Location</th>
<th>1938</th>
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<tbody>
<tr>
<td>Oahu</td>
<td>1981</td>
<td>3</td>
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<td>Hawaii</td>
<td>243</td>
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<td>Maui</td>
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<td>Kauai</td>
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<td>Alabama</td>
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