



University of Hawaii
Bulletin

GENERAL CATALOGUE
1940-41

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UNIVERSITY OF HAWAII

General Catalogue for 1940-41

Admission and Degree Requirements
— Announcement of Graduate and
Undergraduate Courses of Instruction
for the Academic Year 1940-41 —
Record of Degrees Conferred in 1939

UNIVERSITY OF HAWAII BULLETIN

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UNIVERSITY CALENDAR

1940 AND 1941

1940

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."
Sept. 17, Tuesday	
Sept. 18, Wednesday	} Registration of graduate students for thirty-third 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.
through	
Sept. 21, Saturday	
Sept. 18, Wednesday	Registration of sophomores, juniors, and seniors, 8 a.m. to 4 p.m.
Sept. 19, Thursday	Registration of freshmen, 8 a.m. to 4 p.m.
Sept. 20, Friday	} Registration of all other students, Friday 8 a.m. to 5 p.m.; Saturday 8 a.m. to 2 p.m.
Sept. 21, Saturday	
Sept. 23, Monday	Instruction begins.
Nov. 5, Tuesday	Election day (holiday).
Nov. 11, Monday	Victory day (holiday).
Nov. 21, Thursday	} Thanksgiving recess.
through	
Nov. 23, Saturday	
Dec. 21, Saturday	Last day of classes before Christmas recess.

UNIVERSITY CALENDAR

1941

Jan. 6, Monday	Classes resume.
Jan. 28, Tuesday	Last day of formal class instruction, first semester.
Jan. 31, Friday through Feb. 8, Saturday	} Final examinations, first semester.
Feb. 13, Thursday	
Feb. 14, Friday Feb. 15, Saturday	} Registration of all other students for second semester.
Feb. 14, Friday	
Feb. 15, Saturday	Last day to apply for graduate degrees to be received in June.
Feb. 22, Saturday	Washington's birthday (holiday).
Apr. 11, Friday Apr. 12, Saturday	} Easter recess.
May 1, Thursday	
May 22, Thursday	Nineteenth annual contest for Berndt prize.
May 30, Friday	Memorial day (holiday).
June 4, Wednesday	Last day of formal class instruction, second semester.
June 5, Thursday through June 14, Saturday	} Final examinations, second semester.
June 11, Wednesday	
June 14, Saturday	Last day for depositing graduate dissertations in University Library.
June 17, Tuesday	Thirtieth annual Commencement.
June 30, Monday	Registration for summer session.
July 1, Tuesday	Instruction begins.
July 4, Friday	Independence day (holiday).
Aug. 8, Friday	Summer session closes.
Aug. 30, Saturday	Last day for receiving applications for admission.
Sept. 15, Monday Sept. 16, Tuesday	} "Freshman Week."
Sept. 17, Wednesday through Sept. 20, Saturday	

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.
Director of Admissions.....	BRUCE WHITE, Ph.D.
Director of Public Relations.....	CHARLES F. LOOMIS, B.A.
Registrar.....	HELEN B. MACNEIL, M.A.
Librarian.....	MARY P. PRINGLE
Dean of Student Personnel.....	ERNEST C. WEBSTER, C.E.
Assistant Dean of Student Personnel.....	CENIE S. HORNING, B.A.

Divisional

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

THE UNIVERSITY OF HAWAII

General Statement

The University of Hawaii 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.

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

Open to All

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

Fully Accredited

The University is fully accredited by the Association of American Universities. Its students may transfer to other American and to European universities on the same basis as may students of other 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 year into two semesters of 18 weeks each and a summer session of six weeks. The semester beginning in the autumn is known as the first semester, and that beginning in the winter is known as the second semester.

College Colors

The college colors are green and white.

Communications to the University

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

The registered cable address of the University is COLWAI.

History of the University

Before receiving its present name, the institution had been the College of Agriculture and Mechanic Arts from 1907 to 1911 and the College of Hawaii from 1911 to 1920. Instruction began in 1908 with two instructors and five students in a temporary location on the grounds now occupied by the Lincoln School in 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, Lunalilo, 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 organization consists of the College of Applied Science, the College of Arts and Sciences, the Teachers College, and the Graduate Division. The University Adult Education Division conducts both credit and noncredit courses in communities of the territory other than Honolulu and noncredit courses on the University campus. The Oriental Institute assists the University in planning and maintaining its course offerings in the field of Oriental studies, as well as conducting its own program of research and other work in that field.

Related Services

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

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

The Cooperative Extension Service in Agriculture and Home Economics 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, and is under the direction of the University. This station coordinates its research with that of the Hawaiian Sugar Planters' Association and that of the Pineapple Producers Cooperative Association.

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

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

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

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

Cooperating Institutions

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

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

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

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

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

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

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

Campus and Buildings

The principal buildings on the campus are Hawaii Hall, Gartley Hall, Dean Hall, the Library, the Social Science building, Teachers College and its training school, Farrington Hall, the Engineering Quadrangle, the Agriculture and the Home Economics buildings, the University Union, and the Gymnasium. All of these except the Gymnasium and the training school 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 dramatics work. The engineering laboratories and classrooms are in the five 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 125,000 bound volumes and about 325,000 pamphlets, is a depository for government publications. Extensive collections of Chinese and

Japanese works and a growing collection of valuable books and periodicals about Hawaii are among its features. Its collections of local and mainland newspapers, and literary, technical, and scientific periodicals are available throughout the day and evening. All persons complying with the regulations may draw books.

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

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

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

The herbaria of the University and of the Bishop Museum, which are combined under the custodianship of the Museum, contain the most nearly complete collection of Hawaiian plants in existence, including some species now extinct. The most valuable parts are the 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 noncredit students.

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

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

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

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

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

Five-year diploma candidates are persons taking postgraduate work in Teachers College.

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

Noncredit students include:

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

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

Admission to the University

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

Persons who 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*). 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 $\frac{1}{2}$ unit nor more than 2 units are 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 $\frac{1}{2}$ unit nor more than 2 units are 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*. Students entering in the autumn receive a circular telling them how to proceed in registering. Courses offered in the University are described in this catalogue under *Courses of Instruction*, and a schedule stating time and place of meeting of each course is issued by the registrar in mid-September for the first semester and in mid-January for the second semester.

Registration of Undergraduate Students

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

Registration of Graduate Students

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

Credit Must be Arranged in Advance

The number of credits obtainable in most courses is announced in the catalogue and in the time schedule. However, certain courses in which students carry on

individual work are marked *credit by arrangement*, or the number of their credits is listed as *var* (variable). Such statements do not signify that the credits are to be determined at the end of the semester. The student registers for a definite number of credits and may earn no more nor less than that number.

Late Registration

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

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

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

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

Withdrawal from Courses or from the University

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

During the first six weeks of a semester a formal withdrawal is marked *W* by the registrar. A withdrawal at a later time but prior to the last two weeks of a semester is marked *W'* if the work of the student while he was registered in the course was passable; otherwise it is marked *F* (for failure). Withdrawal from a course during the last two weeks of a semester is not permitted. A student who drops a course without the formality of withdrawing receives an *F* in the course.

Other Changes of Students' Programs of Study

A student may not formally transfer from one of the University's colleges to another during the academic year. Such changes 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, Grade Points, Honors

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

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

classroom and two hours in preparatory work, but the division of this time usually is left to the instructor in charge.

Grades given in undergraduate courses are *A, B, C, D, E, F,* and *I*. The lowest passing grade is *D*. A grade of *E* is a conditional failure and a grade of *I* is an incomplete. Such grades can be removed from the record; to bring about their removal students are expected to take the initiative by conferring with instructors. An *E* may be removed by passing a special examination or performing special work prescribed by the instructor, provided this is done in the semester following that for which the condition was given. However, no grade points (defined herein) are given on a course in which a condition was recorded. An *I* is given to a student who has failed to complete 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 as students must gain grade points in the same proportion to credit hours required for graduation as that demanded of other students.

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

Transfers to Other Institutions

Students should bear in mind that accredited American institutions of higher learning, including the University of Hawaii, give transfer students credit toward graduation only in subjects in which the grade received was *C* or better. (See *Tuition and Fees* for further note on 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 have failed to pass in any semester (or who, when withdrawing from the University during a semester, are not passing in) 50 per cent of their registered credits;

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

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

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

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

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

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

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

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

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

Independent Study

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

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 64 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 and Health 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 extramural 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 and athletic groups. 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 degrees who, by taking a year of additional work in Teachers College, complete the Teachers College five-year program are awarded five-year diplomas.

Residence Requirements

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

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

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

Time Within Which Work Must Be Completed

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

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

"(b) All others will be allowed ten years from the same date."

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

Requirements of Medical Schools

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

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

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

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

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

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

SUMMER SESSION—ADULT EDUCATION

	<i>Semester Hours</i>	<i>University of Hawaii Equivalent</i>
Chemistry	20	Chemistry 101 or 102, 150, 151 or 230, 152, 153
Physics	8	Physics 102
Biology	8	Botany 101, Zoology 150 and 151
English composition	6	English 100 or 102

Other nonscience 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:

	<i>Semester Hours</i>
A modern foreign language	6 to 12
Advanced botany or advanced zoology	3 to 6
Psychology	3 to 6
Advanced mathematics, including trigonometry	3 to 6

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

Summer Session

A six-weeks summer session conducted by the University offers teachers and others opportunities for professional improvement. A three-weeks post session, established in 1938 to assist graduates of the former Territorial Normal School to obtain baccalaureate degrees within the time limit fixed by University rules, has served its purpose and will be discontinued after the summer of 1940. Courses of instruction in the summer session 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. 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.

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

The Adult Education Division

The Adult Education Division makes some of the University of Hawaii's educational facilities available beyond the campus, offers noncredit courses on the campus in the late afternoon and evening, and schedules visiting lecturers and resident faculty members for public appearances on the campus. It offers credit and noncredit extension courses at times and places convenient for the persons thus served, offers a limited number of correspondence courses, and occasionally broadcasts courses by radio. It arranges for faculty members to address organizations in Honolulu and 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. Noncredit 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 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:

Withdrawal during—

first 2 weeks of instruction.....	100%
third week " "	80%
fourth week " "	60%
fifth week " "	40%
sixth week " "	20%
remainder of semester.....	0%

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 bookstore.

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

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

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

Living Accommodations and Expenses

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.

Women students are accommodated in two dormitories. In one of them rentals are \$55 for the first semester and \$50 for the second semester, payable in September and February, and its residents supply their own sheets, blankets, pillow cases, towels, and curtains. The other is a cooperative house, whose accommodations are available at lower rates to women students who desire to assist in the work of cooking and housekeeping. Information about the cooperative house may be obtained at the student personnel office.

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

Meals are available at the University Union building, cafeteria style, at very reasonable rates.

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 extracurricular student activities and to cooperate with the University administration in student affairs. Its members include all regular students who pay A.S.U.H. fees. An elected council directs its activities.

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

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

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

The *ASUH Handbook*, distributed annually by the A.S.U.H., describes the organization and its functions in detail.

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

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

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

Alumni Student Aid Fund.

American Bankers Association—Seniors in economics.

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

Business and Professional Women's Club.

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

Commerce Club—Preferably members of the Club.

Daughters of the American Revolution Student Fund of Hawaii—Preferably children of D.A.R. members.

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

Future Farmers of America, Uniwai Chapter—Vocational agriculture students.

George H. Lamy Loan Fund—Engineering students.

Hawaiian Japanese Civic Association—Students of Japanese ancestry.

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

Helen Strong Carter Fund—Students needing dental treatment.

Inez Wheeler Westgate Fund.

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

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

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

Moir-Ross Health Fund.

N.G.B. Fund.

P.E.O. Sisterhood—Caucasian upperclasswomen.

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

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

Senior Fund—Seniors of any college.

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

Te Chih Sheh Fund—Members of Te Chih Sheh.

Scholarships

A number of persons, organizations, and the territorial legislature have made donations or grants that enable the University to offer financial assistance to students in the form of scholarships. All scholarship awards are made in the president's office, after careful study of applications that are submitted on forms

obtainable from the president's secretary. Unless otherwise specified, all scholarships are awarded annually and may be withdrawn from an individual if a good standard of scholastic work is not maintained. Applications for scholarships should be addressed to the president of the University, unless otherwise specified, and should be submitted before May 15 if they are to receive adequate attention.

The names and the characteristics of the scholarship funds follow:

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

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

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

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

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

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

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

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

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

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

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

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

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 Anuenue—The sum of \$50 awarded to a Hawaiian woman above freshman standing.

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

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

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

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

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

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

Stephen Spaulding—The income of an endowment of \$2500, given by Florence Tucker Spaulding in memory of her son, Stephen Spaulding, ex-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.

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

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

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

Hawaiian Section of the American Chemical Society Prize—A one-year student membership in the American Chemical Society is awarded each year to the most outstanding senior majoring in chemistry.

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

COLLEGE OF ARTS AND SCIENCES

The College of Arts and Sciences has a twofold purpose. Its first aim is to make possible a comprehensive and thorough acquaintance with those fields of thought and achievement, both in the humanities and the sciences, upon which our present civilization has been reared. Its second aim is to prepare for those activities which are professional rather than technical in their nature, such as law, medicine, journalism, commerce, and public and social service. In the main, the subjects offered in this College are those generally recognized as forming the basis of a liberal education.

Because of its 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, Grade Points, Honors*) must meet the language requirement, and must pass the other courses required of all students in the College and the courses prescribed for students in one of the groups within the College. In planning 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. After September 1941, a major and a minor subject will be required of all students in the College. The choice may be made during the sophomore year, but must be made by the beginning of the junior year.

The Language Requirement. Every student in the College must complete one of the following or an equivalent: French 101, Spanish 101, German 101, German 102, Portuguese 101, Oriental Studies 200, Oriental Studies 200B, Oriental Studies 202, Hawaiian 200. If advanced credit in any of these courses is presented 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.

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 taken to the best advantage:

COLLEGE OF ARTS AND SCIENCES

FIRST YEAR

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

SECOND YEAR

English 150, 154, 156, or 158	3
Military science (men)	2
Physical education	1

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 in languages, in literature, or in art should select Group II.

Group III is designed for 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 *Requirements of Medical Schools.*)

Students desiring 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—

- Anthropology 170, 171, 175, 180
- Geography 150, 151
- Philosophy 150, 151
- Political Science 180, 190, 195
- Psychology 150-151
- Religion 150
- Sociology 170

THIRD AND FOURTH YEARS—

- Anthropology-Sociology 273
- Anthropology 250, 252, 254, 255, 257, 258, 259, 261, 263, 265, 267, 268, 269, 270, 271, 272, 274, 275, 277, 280-281, 290

Economics 223, 250, 251, 252, 253, 254, 256, 257, 261, 265, 270, 273, 276, 281, 285, 288, 291, 296
 Geography 202, 205, 252, 255, 258, 262, 263, 271, 290
 History 204, 205, 207, 209-210, 211, 212, 218, 219, 225, 226, 229, 235, 236-237, 241-242, 243, 244-245, 249, 250, 251, 252, 266, 276, 277, 285, 286, 295
 Oriental Studies 241, 256-257, 268, 269, 281, 282, 283, 291, 293
 Philosophy 200, 201, 253, 261, 262, 270-271, 275-276, 278, 280, 282, 285, 290
 Political Science 260, 270
 Psychology 200, 250, 252, 275, 280, 290
 Religion 260, 261
 Sociology 252, 253, 254, 255, 256, 258, 266, 267, 268, 269, 270, 271, 272, 274, 276, 290

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, Spanish, Hawaiian, Oriental languages and literature, music, 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 *Requirements of Medical Schools.*) The 48 hours may be selected from the following:

FIRST AND SECOND YEARS—

Chemistry 101, 102, 150, 152, 153, 271
 Botany 101, 102, 103, 151, 155, 156, 158, 160, 161, 173, 180, 181
 Zoology 150, 151, 160, 161, 170, 173, 174, 180, 181
 Mathematics 104, 106, 149, 150, 151, 152, 153
 Physics 102, 150, 151, 153, 155, 157

THIRD AND FOURTH YEARS—

Agriculture 254
 Anthropology 261, 280-281
 Chemistry 211, 212, 230, 260, 262, 263
 Botany 200, 253, 254, 258, 260, 263, 269, 273, 274, 275, 276
 Zoology 253, 254, 255, 257, 259, 260, 261, 285, 291
 Mathematics 252, 253, 254, 255, 272, 273, 275, 280, 281
 Physics 152, 202, 253, 255, 256, 257, 261, 270, 275, 280
 Geology 200, 252, 253, 254, 255, 260, 261, 262

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.

English 210 and 237 are required in all of the programs during the third or fourth year. Other third- and fourth-year courses in each of the programs follow:

FINANCE

Business 255, 264, 265, 266, 267, 282, 288

Economics 256, 257, 261, 265, 288

MERCHANDISING

Art 274

Business 259, 264, 270-271, 273, 276, 280, 286, 287

Economics 256, 257, 270, 288, 291

INTERNATIONAL ECONOMICS AND TRADE

Business 267, 270-271, 275, 285

Economics 250, 251, 252, 253, 254, 256, 257, 265, 273, 285

Geography 252, 255

ACCOUNTING

Business 250-251 or 252-253, 254, 255, 256, 259, 265, 270-271, 282, 285, 288

Economics 256, 257, 296

GENERAL ECONOMIC PROBLEMS

Business 267, 282, 288

Economics 223, 256, 257, 261, 265, 270, 273, 276, 281, 285, 291, 296

Political science and history (6 credit hours)

Anthropology-Sociology 150-151

PROGRAM FOR BUSINESS WOMEN

Art 274

Business 256, 259, 265, 270-271, 273, 276, 280, 282, 287

Economics 256, 257, 288

Political science and history (6 credit hours)

Anthropology-Sociology 150-151

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.*)

COLLEGE OF APPLIED SCIENCE

The College of Applied Science combines the instructional programs usually offered by colleges of agriculture and colleges of engineering. Its principal programs are in the following fields:

Agriculture
Civil Engineering
Sugar Technology
Home Economics
General Science

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

Description of the programs follows:

Agriculture

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 10 other units in Agriculture, plus enough electives or additional required courses to bring the aggregate to 136. The selection of the additional 10 units in Agriculture varies with the major selected.

FIRST YEAR	SECOND YEAR
Agriculture 100, 151, 152	Agriculture 162 or 164
Botany 101	Botany 151, 173
Chemistry 101 or 102	English 110, 150, 154, 156, or 158
English 100 or 102	Military science (men only)
Mathematics 149 or 150-151	Physical education
Military science (men only)	Physics 102
Physical education	
THIRD YEAR	FOURTH YEAR
Agriculture 250, 254, 256	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:

THIRD YEAR

Agriculture 162 or 164, whichever
was not taken in second year
Agriculture 291
Chemistry 150, 151
Botany 158, 263; or 273, 275

FOURTH YEAR

Agriculture 252, 260, 267, 268
Botany 158, 263; or 273, 275
Chemistry 152

Animal Science

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

THIRD YEAR

Agriculture 253 or 261; 255
Chemistry 150, 151, 152, 153

FOURTH YEAR

Chemistry 260, 262
Agriculture 253 or 261; 257, 264
Zoology 253, 291
Zoology 150 (if not previously elected)

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- (postgraduate) year of work.

Civil Engineering

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

The general plan provides a broad foundation in English, mathematics, chemistry, physics, and drawing during the first two years. The work of the last two years is more technical and professional, embracing the study of the principles involved in power development by means of the various prime movers, including steam engines, water wheels, gas and gasoline engines, and steam turbines, study of the design of such machines and of the materials entering into their construction, and practical tests to determine their working efficiency and economy of operation. The last two years' work is aimed to fit students to assume gradually, as practical experience is acquired, those administrative responsibilities that are more and more devolving upon men of technical training, and ultimately to become skillful practical engineers. As far as possible, the importance of each subject is illustrated by application of it to some work that is met in actual practice. It is also intended that the course shall be valuable from 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	SECOND YEAR
Chemistry 101 or 102	Civil Engineering 151, 153
Civil Engineering 101	Economics 150, 151
English 100 or 102	English 110, 150, 154, 156 or 158
Mathematics 104	Mathematics 106
Mechanical Drawing 101	Mechanical Drawing 152
Military science	Mechanical Engineering 150
Physical education	Military science
	Physical education
	Physics 150, 151
THIRD YEAR	FOURTH YEAR
Civil Engineering 227, 252, 253, 255	Civil Engineering 276, 277, 279
Experimental Laboratory (X.E.)	Geology 256
202, 203	Mechanical Engineering 282, 283, 285
Mechanical Engineering 202, 203	Physics 202
Physics 152, 253	

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 they receive 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 sugar-house products is also required, since familiarity with this work is often valuable for an agricultural chemist. Lecture courses on heat in the sugar factory and on cane sugar manufacture are required, for it is desirable that the agriculturist have some knowledge of processes in the sugar factory.

Sugar Chemistry Division

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

* Students who offer $3\frac{1}{2}$ 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.

tion. 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 *Admission to the University*). 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 students whose achievement in the home economics placement test excuses them from 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; Anthropology-Sociology 150-151; Zoology 291. Suggested elective: Art 172.

Household Art. Requirements: Home Economics 250, 252, 253, 291; Art 170 and 270, or Art 171 and 173; Art 172, 175; Household Art 253; Household Science 272; Anthropology-Sociology 150, 151. Suggested electives: Art 250, 251, 276, 277.

Institutional Management. Requirements: Home Economics 250, 291; Household Science 200, 251, 260, 261, 263, 273; Chemistry 260, 262; Zoology 291; Economics 281; Anthropology-Sociology 150-151; Psychology 280. Suggested elective: Household Science 249.

Vocational Home Economics Education. Requirements: Home Economics 201, 250, 251, 252, 253, 291; Household Science 272, 273, and 251 or 249; Anthropology-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 (bacteriology, plant | physics and mathematics |
| physiology, taxonomy) | (either combined or separate) |
| zoology (entomology, general | chemistry |
| zoology, premedical zoology) | nursing |

The major should be selected during the freshman year.

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

- (1) Chemistry 101 or 102 in the freshman year
- (2) English 100 or 102 in the freshman year; English 110, 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) Six or more credits each in five of the following groups:

Mathematics 104, 149,	Geology 252-253
150-151, 152-153	Chemistry 101 or 102
Physics 102 or 150-151, 152	Economics 150-151 or
Botany 101	Anthropology-Sociology 150-151
Zoology 150, 151	
- (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 credit in that major:

botany	chemistry
zoology	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 or three years of resident collegiate work and those students who plan to get a B.S. degree before going to medical school should enter this program. The subjects they choose must, to a large extent, be governed by the admission requirements prescribed

by the American Medical Association (see *Requirements of Medical Schools*) and by the school the student expects to enter. Such students who do not enter with algebra through quadratics, plane geometry, and trigonometry must take either Mathematics 149 or 150-151 in the freshman year.

Courses from which the Physical Sciences and Biological Sciences electives must be selected follow:

GROUP ELECTIVE WORK

GROUP A—PHYSICAL SCIENCES

FIRST YEAR	SECOND YEAR	THIRD AND FOURTH YEARS
Drawing	Chemistry 150, 151,	Chemistry 211, 212, 230,
Geography 150, 151	152, 153, 271	260, 262, 263, 310, 313,
Language	Civil Engineering 101	315, 316, 317, 318, 319,
Political Science	Geology 252, 253, 256	320, 350
150, 151	Language	Civil Engineering 231,
Mathematics 104,	Mathematics 106	252, 253, 255
149, 150, 151, 152, 153	Mechanical Drawing 152	Geology 254, 255, 260, 261,
History 100	Physics 102, 150, 151	262
	<i>First-year electives may</i>	<i>Mathematics 252, 253, 254,</i>
	<i>be taken by sophomores.</i>	<i>255, 272, 273, 275, 280,</i>
		<i>281</i>
		<i>Mechanical Engineering</i>
		<i>202, 203, 282</i>
		<i>Physics 152, 202, 253, 255,</i>
		<i>257, 261, 275, 280, 361</i>
		<i>Sugar Technology 201,</i>
		<i>250, 252</i>
		<i>Second-year electives may</i>
		<i>be taken by juniors and</i>
		<i>seniors.</i>

GROUP B—BIOLOGICAL SCIENCES

FIRST YEAR	SECOND YEAR	THIRD AND FOURTH YEARS
Botany 101	Botany 102, 155, 156, 173	Agriculture 250, 254, 256,
Drawing	Chemistry 150, 151, 152,	261, 262
Geography 150, 151	153, 271	Anthropology 261, 280,
Language	Geology 252, 253, 256	281
Political Science 150, 151	Household Science 102	Botany 151, 158, 200, 253,
Zoology 150, 151	Language	254, 258, 260, 263, 269,
History 100	Psychology 150	273, 274, 275, 276, 300,
	Physics 102	365, 367, 370
	Zoology 160, 161, 170, 173,	Chemistry 230, 260, 262,
	174, 180, 181	263, 316, 317
	<i>First-year electives may</i>	Economics 150, 151
	<i>be taken by sophomores.</i>	Geology 255, 260, 261, 262
		Household Science 200,
		249, 251, 272, 350, 351
		Physics 255, 257, 275, 280
		Zoology 253, 254, 255, 260,
		261, 310, 351, 352, 353,
		355, 356, 362
		<i>Second-year electives may</i>
		<i>be taken by juniors and</i>
		<i>seniors.</i>

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:

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

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 planned in consultation with the dean and the student's adviser, and must, in general, follow the requirements of the Biological Sciences group. A total of 136 credits is required for graduation. The student must complete a second year of college English (English 150, 154, 156, or 158). In addition, the student must acquire at least 6 credits each in at least five of the following:

botany	chemistry
zoology	nutrition
mathematics	geology
physics	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.*)

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, postgraduate, 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 postgraduate work, including interne 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. In late afternoon, evening, and Saturday morning classes and summer session classes, 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 in the section of this catalogue entitled *Baccalaureate Degrees* in addition to the following:

- (1) A minimum of 130 semester hours of course work,
- (2) A minimum of 264 grade points (see *Credits, Grades, Grade Points, Honors*) 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, prevocational 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

COURSES	<i>Credits</i>	
	<i>Sem. I</i>	<i>Sem. II</i>
Education 100.....	3	3
English 100.....	3	3
History 100.....	3	3
Military science (men).....	(1)	(1)
Physical education.....	1	1
Physical Education 180 (women).....	(1)	(1)
Survey 100.....	3	3
Electives	3	3
Total	17	17

SECOND YEAR

COURSES	<i>Credits</i>	
	<i>Sem. I</i>	<i>Sem. II</i>
Biology 135.....	2	2
Education 135.....	1	1
Education 180-181.....	3	3
English 152.....	3	3
Military science (men).....	(2)	(2)
Music 152-153.....	1	1
Physical education.....	1	1
Sociology 150-151.....	3	3
Electives	3	3
Total	17 (women)	17 (women)
	19 (men)	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)

COURSES	Credits	
	Sem. I	Sem. II
Art 261.....	..	2
Biology 236.....	2	..
Education 235.....	1	1
Education 285-286.....	3	3
English 290-291.....	3	3
English 294.....	1	..
Geography 261.....	..	3
Physical and Health Education 220.....	2	2
Music 250.....	2	..
Agriculture 271.....	1	..
Social Science 271.....	..	1
Electives	2	2
Total	17	17

ELEMENTARY CURRICULUM

(UPPER YEARS)

COURSES	Credits	
	Sem. I	Sem. II
Art 262.....	2	..
Biology 236.....	..	2
Education 235.....	1	1
Education 285-286.....	3	3
English 290-291.....	3	3
English 295.....	..	1
Geography 261.....	3	..
Physical and Health Education 220.....	2	2
Music 251.....	..	2
Agriculture 271.....	..	1
Social Science 271.....	1	..
Electives	2	2
Total	17	17

SECONDARY CURRICULUM

COURSES	Credits	
	Sem. I	Sem. II
Education 235.....	1	1
Education 250-251.....	3	3
English 292-293.....	3	3
Electives	10	10
Total	17	17

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 second carries the required courses.

COURSES

	Credits	
	Sem. I	Sem. II
Education 237.....	2	..
Education 254.....	3	..
Education 261.....	2	..
Education 268.....	2	..
Education 295.....	2	..
English 240.....	..	1
Electives	15
	—	—
Total	16	16

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

	Credits	
	Sem. I	Sem. II
Education 340.....	4	..
Education 350.....	4	..
Education 351.....	2	..
Education 354.....	..	14
Education 390.....	2	..
Education 395.....	..	2
Electives	4	..
	—	—
Total	16	16

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

Nursery-Kindergarten Education

As the result of a gift from the Henry and Dorothy Castle Memorial Foundation to the University, plans are being developed for a new department in Teachers College. This department will offer training to prospective teachers of the preschool years and will maintain a nursery-kindergarten laboratory school.

Physical and Health Education

Beginning with the academic year 1940-41, the University physical and health education program will be administered as a department in Teachers College. It will continue as heretofore to serve all colleges of the University in terms of degree and other requirements.

THE GRADUATE DIVISION

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

Graduate work is offered in the following fields:

anthropology	genetics	physical geology and
botany	geography	geophysics
business	history	physics
chemistry	international relations	sociology
education	nutrition	social work training
English	Oriental studies	soil science
entomology	philosophy	speech
		zoology

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

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

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 ordinarily accepted is 8 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 16.

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 6 credit hours in a six-weeks summer session, nor more than 3 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.

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

Graduate students not interested in earning advanced degrees need not meet the requirements for admission to candidacy.

The Master's Degree

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

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

Thirty semester hours of graduate study are required for the master's degree. All work connected with the thesis must be registered for as thesis research (course number 400 in each major field). A maximum of 6 semester hours may be earned in the thesis research course, except that in the natural and physical sciences a maximum of 12 is allowed. At least 8 credits toward the master's degree must be earned in courses primarily for graduate students (300-399). All of the 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 February 20 and must submit copies of the completed thesis to the members of his committee for final checking by May 15. Instructions on the form of the thesis may be obtained from the director.

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

The 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 the master's degree.

The Doctor of Philosophy Degree

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

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

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 \$225 to \$630, pay no registration, tuition, or laboratory fees, carry a limited program of graduate study toward the master's degree, and act as readers and research or laboratory assistants.

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 states further details of work in the Division.

ANNOUNCEMENT OF COURSES OF INSTRUCTION FOR THE YEAR 1940-41

College of Arts and Sciences
DEAN: THAYNE M. LIVESAY, PH.D.

College of Applied Science
DEAN: ARTHUR R. KELLER, M.S.

Teachers College
DEAN: BENJAMIN O. WIST, PH.D.

Graduate Division
DIRECTOR: PAUL S. BACHMAN, PH.D.

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

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

Courses not offered in the academic year 1940-41 but given at other times 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.; *Associate Professors* Samuel H. Work, Ph.D., Lyman A. Dean, Ph.D.; *Assistant Professors* Charles M. Bice, B.S., Milton A. Miller, Ph.D.; *Lecturers* Julius L. Collins, Ph.D., J. C. Ripperton, M.S., Elver M. Hodges, M.S.

Professor Wadsworth, chairman

- 100 **ORIENTATION COURSE** Mr. Wadsworth
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.

164 TRUCK CROP PRODUCTION

First semester only; 3 credits. (Alternates with Agriculture 162.)

Origin, description, cultural requirements, and distribution of more important vegetable crops in Hawaii. Two lectures and one laboratory period a week. Prerequisites: Chemistry 101 or 102, Botany 101. Laboratory fee \$1.

250 SOILS

Mr. Wadsworth

First semester only; 4 credits.

Origin and physical properties of local soils. Texture, structure, and moisture relations. Three lectures or recitations and one laboratory period a week. Prerequisites: Chemistry 101 or 102, Physics 102. 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. Lectures, assigned readings, and laboratory periods. Prerequisites: Agriculture 250, 254. Laboratory fee \$2.

253 DAIRYING

Mr. Work

Second semester; 3 credits. (Alternates with Agriculture 261.)

A study of dairy cows; production and marketing of milk and milk products; milk testing, separating, etc. Two lectures or recitations and one laboratory period a week. Laboratory fee \$1.

254 PRINCIPLES OF GENETICS

Mr. 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. Prerequisite: Botany 101 or a year of 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. Two lectures and one recitation a week. Prerequisites: Agriculture 152 and sophomore standing. Laboratory fee \$1.

256 PRINCIPLES OF AGRONOMY

Mr. Hodges

Second semester only; 3 credits.

Field crops, their distribution, character, culture, utilization, and improvement. 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.

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.

262 ADVANCED GENETICS

Mr. Collins

Second semester only; 3 credits.

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

264 SEMINAR IN ANIMAL NUTRITION

Mr. Henke

Second semester only; 1 credit.

Recent investigations in animal nutrition. Oral reports by students on special topics after a review of literature. Prerequisites: Agriculture 257, sufficient training in chemistry, and consent of instructor.

265 AGRICULTURAL THESIS

Staff

Credit by arrangement.

Advanced individual work in field, laboratory, and library.

COURSES OF INSTRUCTION

- 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.
- 268 AGRICULTURAL CHEMISTRY LABORATORY** Mr. Dean
Second semester only; 2 credits.
Analysis of soils, fertilizers, and feeds. Prerequisites: Chemistry 151 or 230, Agriculture 250, and credit or concurrent registration in Agriculture 267. Laboratory fee \$2.
- 275 PASTURE MANAGEMENT** Mr. Ripperton
First semester only; 3 credits.
Plant species on local pastures, exotic species adapted to Hawaii; principles of pasture management. Two lectures and one laboratory period a week. Prerequisite: Agriculture 256.
- 281 AGRICULTURAL MACHINERY** H.S.P.A. Expt. Sta. Staff
Second semester only; 1 credit.
Kinds and types of machinery used in plantation work. Lectures by various individuals each covering a type of machine used in a particular division of a plantation. Field trips to plantations to see machines demonstrated. Given through cooperation with the H.S.P.A. engineering committee.
- 291 IRRIGATION PRACTICE** Mr. Wadsworth
Second semester only; 4 credits.
Irrigation in its relation to crop production. Development, distribution, and measurement of water; soil-moisture and its effect on plant growth. Three recitations, one laboratory period a week. Prerequisite: junior standing. Laboratory fee \$1.
- 299 COMPARATIVE AGRICULTURE** Mr. Wadsworth
Second semester only; 2 credits.
The crops, cultural practices, and agricultural institutions of the principal agricultural countries of the world.
- 300 READING AND RESEARCH IN AGRICULTURE** Staff
First semester, credit by arrangement; repeated second semester.
Prerequisite: graduate standing and consent of instructor concerned.
- 301 SEMINAR IN GENETICS** Mr. Collins
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** Mr. Collins
Credit by arrangement.
Prerequisite: graduate standing and consent of instructor.
- 305 RESEARCH IN SOIL CHEMISTRY OR SOIL PHYSICS** Mr. Wadsworth, Mr. Dean
Credit by arrangement.
Prerequisite: graduate standing and consent of instructor concerned.
- 306 RESEARCH IN TROPICAL HORTICULTURE** Mr. Beaumont, Mr. Jones
First semester, credit by arrangement; repeated second semester.
Prerequisite: graduate standing and consent of instructors.
- 307 SOIL SCIENCE SEMINAR** Mr. Dean, Mr. Wadsworth
Year course; 1 credit each semester.
Presentation of seminar reports, research reports, or reviews of soil science literature. May be taken repeatedly. Prerequisite: graduate standing or consent of instructors.
- 400 THESIS RESEARCH** Staff
Credit by arrangement.
Open only to graduate students engaged in the preparation of theses in genetics, soil science, or horticulture.

OTHER COURSES

The following courses, ordinarily given in alternate years, will not be offered in 1940-41:

162 Tropical Pomology—First semester only; 3 credits.

261 Beef and Swine Production—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., John F. Embree, Ph.D.; Instructor Bernhard L. Hörmann, M.A.; Lecturers Peter H. Buck, D.S.O., M.D., Kenneth P. Emory, M.A.

Professor Keesing, chairman

150-151 INTRODUCTION TO THE STUDY OF MAN Mr. Embree, Mr. Bowles,
Mr. Hörmann

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 Mr. Embree

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

150-151 INTRODUCTION TO THE STUDY OF MAN Mr. Embree, Mr. Bowles,
Mr. Hörmann

(For description, see *Anthropology and Sociology*)

175 RACE Mr. Bowles

Second semester only; 2 credits.

Origin, evolution, and differentiation of the human species. Varieties of fossil and living man. Primarily for late afternoon students. Credit not obtainable in this course if Anthropology 261 is taken for credit.

254 PEOPLES OF ASIA Mr. Bowles

First semester only; 3 credits.

Ethnology and races of Asia. Hunters and food gatherers, nomads and agriculturists. The great civilizations.

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.

261 RACE AND RACE MIXTURE Mr. Bowles

First semester only; 3 credits.

Historic development of concepts of race. Physical differences in man, especially as they affect human differentiation into "races." Genetic factors in race crossings.

263 PREHISTORY OF EUROPE AND AFRICA Mr. Bowles

Second semester only; 3 credits.

Preclassical archaeology. Cultures and races of the early and late stone ages. Domestication of plants and animals, the use of metals, and commencement of civilization.

265 PRIMITIVE SOCIETY Mr. Embree

First semester only; 3 credits.

Study of the diverse types of preliterate social organization with the aim of better understanding human society. Prerequisite: Anthropology and Sociology 150-151 or consent of instructor.

COURSES OF INSTRUCTION

- 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.
- 268 PRIMITIVE ART AND CRAFT** Mr. Embree
Second semester only; 2 credits.
Survey of art forms and techniques of preliterate peoples of the world; types of design, relation of art form to culture.
- 270 FOLK SOCIETY IN JAPAN AND CHINA** Mr. Embree
Second 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.
- 274 INDIA** Mr. Bowles
Second semester only; 3 credits.
Archaeological and ethnological survey of India. Prehistoric and historic cultures and civilizations; development of caste, religion, and other institutions.
- 280-281 PHYSICAL ANTHROPOLOGY** Mr. Bowles
Year course; 3 credits each semester.
First semester: man's position among the primates; age, race, sex variations of man; measurement and statistical treatment of skeletal anatomy. Second semester: comparative external morphology of the living. Two lectures and one laboratory period a week. Prerequisite: Anthropology and Sociology 150-151 or Zoology 150.
- 290 INDEPENDENT STUDY** Staff
Credit by arrangement.
Prerequisite: consent of department chairman.
- 300 ADVANCED READING AND RESEARCH** 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 1940-41:

- 170 Development of Man—First semester only; 2 credits.
171 Man and Culture—Second semester only; 2 credits.
180 Asia—Second semester only; 2 credits.
250 The Polynesians—Second semester only; 3 credits.
252 Peoples of the Pacific—First semester only; 3 credits.
255 The American Indian—First semester only; 2 credits.
259 Languages of the World—Second semester only; 2 credits.
269 Folklore—Second semester only; 2 credits.
271 Applied Anthropology—First semester only; 2 credits.
272 Modern Changes among Pacific Peoples—Second semester only; 2 credits.
275 Prehistory of Asia—Second semester only; 3 credits.
277 Southeast Asia—Second semester only; 2 credits.

Art

Associate Professor Huc-Mazelet Luquiens, B.F.A.; *Instructors* Jessie Shaw Fisher, Ed.B., Ben Norris, B.A., Robert Lee Eskridge; *Lecturer* Edgar Craig Schenck, M.F.A.

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** Mr. Norris, Mrs. Fisher
 Year course; 2 credits each semester.
 Elements of design and composition; line, mass, color, etc. Exercises in various design styles to stimulate appreciation and to provide background for advanced work. This course, or the equivalent in experience, is prerequisite to all advanced study.
- 154-155 FREEHAND DRAWING AND BEGINNING PAINTING** Mr. Luquiens, 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. Eskridge
 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
 First 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.
- 253 MODERN PAINTING** Mr. Schenck
 First semester only; 2 credits.
 European painting from the 17th century to the present, both as related to its cultural setting and as contributing to the formation of modern taste. Lectures and reading assignments. Prerequisite: Art 250-251 or consent of instructor. The course is given only when there is a registration of at least 15 students.
- 261 CREATIVE ART FOR THE PRIMARY YEARS** Mrs. Fisher
 (For description, see *Teacher Education, Art for Teachers.*)

COURSES OF INSTRUCTION

- 262 CREATIVE ART FOR THE UPPER ELEMENTARY YEARS Mrs. Fisher
(For description, see *Teacher Education, Art for Teachers.*)
- 263 CREATIVE ART FOR THE SECONDARY SCHOOL YEARS Mrs. Fisher
(For description, see *Teacher Education, Art for Teachers.*)
- 268 LANDSCAPE PAINTING Mr. Luquiens
First semester only; 2 credits.
Landscape in oils. Two periods a week, out of doors and in the studio. Prerequisite: Art 160-161.
- 269 LIFE CLASS Mr. Luquiens
Second semester only; 2 credits.
Drawing from the model, with a view to establishing a foundation for the imaginative use of the human figure. Prerequisite: Art 154-155. Studio fee \$4, to cover model expense.
- 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.
- 274 COMMERCIAL ART FOR ECONOMICS AND BUSINESS STUDENTS Mr. Norris
Second semester only; 2 credits.
Art principles applied to merchandising. Newspaper and magazine advertising, window and showcase display, clothing, furniture, choice of textiles, color psychology. Lectures and lantern slides. Primarily for students of economics and business. Prerequisite: junior standing or consent of instructor.
- 275 ADVANCED COMMERCIAL ART Mr. Eskridge
Second semester only; 2 credits.
Art in business from a designer's point of view. Advertising psychology and business requirements; practical work in various fields. Prerequisite: Art 156.
- 286-287 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 1940-41:

- 173 Advanced Interior Decoration—Second semester only; 2 credits.
252 Renaissance Painting—First semester only; 2 credits.
266-267 Etching—Year course; 2 credits each semester.
272 Illustration—First semester only; 2 credits.
273 Advanced Illustration—Second semester only; 2 credits.
276-277 Stage Design—Year course; 2 credits each semester.

Botany

Professors Harold St. John, Ph.D., Harry F. Clements, Ph.D., Harold E. Clark, Ph.D., Oscar Nelson Allen, Ph.D.; *Associate Professor* G. K. Parris, Ph.D.; *Assistant Professors* Charles J. Engard, Ph.D., George F. Papenfuss, Ph.D.; *Lecturer* Richard H. P. Sia, M.D.

Professor St. John, chairman

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

- 102 **SYSTEMATIC BOTANY OF FLOWERING PLANTS** Mr. St. John
 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.
- 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. 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. Not open for credit to students who have taken Botany 151.
- 161 **PLANT GEOGRAPHY** Mr. St. John
 First semester only; 2 credits.
 Plant distribution throughout the world; vegetation of forests, grasslands, deserts, tundra, mountains, and oceans; special attention to origin, development, ecology, and economic importance. Laboratory fee \$2.
- 173 **ELEMENTARY PLANT PHYSIOLOGY** Mr. Engard
 Second semester only; 4 credits.
 Introduction to plant physiology; osmosis, absorption of water and its ascent in plants, transpiration, mineral utilization, photosynthesis, storage, digestion, respiration, growth, photoperiodism. Three lectures and one laboratory period a week. Prerequisites: Botany 101, Chemistry 101. Laboratory fee \$2.
- 180 **ALGOLOGY** Mr. Papenfuss
 First semester only; 3 credits.
 Structure and life histories of the more common species of algae; their importance and relationships. One lecture and two laboratory periods a week. Prerequisite: Botany 101. Laboratory fee \$3.
- 181 **PLANT LIFE OF THE SEA** Mr. Papenfuss
 Second semester only; 3 credits.
 Marine plants, their distribution, life histories, environments and importance in the cycle of life in the sea. Two lectures and one laboratory period (at the Marine Biological Laboratory, Waikiki), a week. Laboratory fee \$3.
- 200 **BOTANICAL PROBLEMS** Staff
 First semester, credit by arrangement; repeated second semester.
 Pursuit of any advanced botanical problem. Reading and laboratory work. May be taken repeatedly. Prerequisite: consent of instructor concerned. Laboratory fee \$1.
- 254 **ADVANCED TAXONOMY** Mr. St. John
 First semester only; 2 or more credits.
 Synopsis of lower Dicotyledons from Piperaceae to Rosaceae, with laboratory study of important families; plant distribution and independent identification of collections. Qualified students may do part of their work in the Bishop Museum herbarium. One lecture and one or more laboratory periods a week. Prerequisite: Botany 102. Laboratory fee \$1.
- 258 **AGRICULTURAL MICROBIOLOGY** Mr. Allen
 First semester only; 4 credits. (Alternate years.)
 Role of microorganisms in transformations of inorganic and organic materials in soil; relation of these processes to agriculture; survey of the pathogenic soil microorganisms. Two lectures and two laboratory periods a week. Recommended for students of agriculture. Prerequisite: Botany 151. Laboratory fee \$5.
- 260 **MEDICAL BACTERIOLOGY** Mr. Sia
 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 preparing for nursing and medicine. Prerequisite: Botany 151. Laboratory fee \$5.

COURSES OF INSTRUCTION

- 269 PLANT ANATOMY** Mr. Engard
Second semester only; 3 credits. (Alternate years.)
Structure of vascular plants; origin and differentiation of tissues; relation of structure to function. One recitation and two laboratory periods a week. Prerequisite: Botany 101. Desirable preparation: Botany 268 or Zoology 362. Laboratory fee \$6.
- 273 PLANT BIOPHYSICS** Mr. Clements
First semester only; 3 credits. (Alternate years.)
Intensive work on physical aspects of plant physiology, including water relations, drought resistance, permeability, the nature of protoplasm, mineral nutrition. Prerequisites: Botany 173, organic chemistry, one year of college physics.
- 274 LABORATORY TECHNIQUE IN PLANT BIOPHYSICS** Mr. Engard
First semester only; 2 credits. (Alternate years.)
Parallels Botany 273 and should be taken with it, although this is not required. Two laboratory periods a week. Laboratory fee \$5.
- 275 PLANT BIOCHEMICS** Mr. Clements
Second semester only; 3 credits. (Alternate years.)
Intensive study of chemical aspects of plant physiology, including photosynthesis, nitrogen assimilation, fat metabolism, translocation and storage, enzymes, respiration, growth hormones. Prerequisites: Botany 173, organic chemistry, one year of college physics.
- 276 LABORATORY TECHNIQUE IN PLANT BIOCHEMICS** Mr. Clark
Second semester only; 2 credits. (Alternate years.)
Parallels Botany 275 and should be taken with it, although this is not required. Two laboratory periods a week. Laboratory fee \$5.
- 300 BOTANICAL RESEARCH** Staff
Credit by arrangement.
Prerequisite: graduate standing and consent of instructor concerned. Laboratory fee \$1.
- 310 BOTANICAL SEMINAR** Staff
Year course; 1 credit each semester.
Presentation of seminar reports, reports on research, or reviews of current botanical literature. May be taken repeatedly.
- 351 PLANT PHYSIOLOGY SEMINAR** Mr. Clements
Second semester only; 1 credit.
Discussion of topics of particular interest to the group. May be repeated several times.
- 352 MICROBIAL DECOMPOSITION OF PLANT MATERIAL** Mr. Allen
First semester only; 1 credit. (Alternate years.)
A review of current literature on the decomposition of nitrogenous and carbohydrate organic materials in soil by bacteria and fungi.
- 360 IMMUNOLOGY** Mr. Allen, Mr. Sia
Second semester only; 3 credits. (Alternate years.)
Lectures and discussions dealing with natural, active, and passive types of immunity to specific diseases. Common diagnostic serological reactions. Two lectures and one laboratory period a week. Prerequisite: Botany 260. Laboratory fee \$3.
- 365 TAXONOMY OF THE DICOTYLEDONS** Mr. St. John
Second semester only; 1 credit. (Alternate years.)
A synoptical treatment of the Dicotyledons, from the Leguminosae to the Ericaceae, with reference to their gross morphology, economic value, and distribution. Prerequisite: Botany 102.
- 370 PHYSIOLOGY OF BACTERIA** Mr. Allen
Second semester only; 3 credits. (Alternate years.)
Analysis of the major physiological processes carried on by bacteria and yeasts, such as growth processes, energy relationships, and enzymatic reactions; current literature reviewed. Two two-hour periods a week. Prerequisite: Botany 258 or 260.
- 372 DETERMINATIVE BACTERIOLOGY** Mr. Allen
Second semester only; 3 credits. (Alternate years.)
Survey of major systems of bacterial classification; review of methods useful in identification of unknown organisms. Two two-hour lecture periods a week. Prerequisite: Botany 258 or 260.
- 400 THESIS RESEARCH** Staff
Credit by arrangement.

OTHER COURSES

The following courses, ordinarily given in alternate years, will not be offered in 1940-41:

- 103 Evolution—Second semester only; 2 credits.
- 158 Mycology—First semester only; 3 credits.
- 160 Flower and Tree Identification—First semester only; 2 credits.
- 253 Plant Ecology—Second semester only; 4 credits.
- 263 Plant Pathology—Second semester only; 3 credits.
- 303 Plant Pathology Seminar—First semester only; 1 credit.
- 353 The Nitrogen Cycle Seminar—First semester only; 1 credit.
- 367 Taxonomy of the Higher Dicotyledons—Second semester only; 1 credit.

Business

Professors Merton K. Cameron, Ph.D., Matthew M. Graham, C.P.A.; *Instructors* Kan Jung Luke, M.B.A., Frederick W. Wagner, Ph.D.; *Lecturer* J. J. Delpech, C.P.A. Absent on leave 1940-41: *Associate Professor* William H. Taylor, Ph.D. (first semester only); *Assistant Professor* Ralph C. Hoerber, J.D.

Professor Merton K. Cameron, chairman

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. Prerequisite: sophomore standing in the department or permission of instructor.

152-153 **ELEMENTARY ACCOUNTING** Mr. Delpech

Year course; 3 credits each semester.

Duplicates the subject matter of Business 150-151; primarily for unclassified evening students; scheduled only in the evening. Credit not obtainable in both this course and Business 150-151. Prerequisite: unclassified student status or permission of instructor.

161 **ELEMENTARY BUSINESS LAW (Formerly 160-161)**

First semester, 3 credits; repeated second semester.

Nature and sources of law; judicial procedure; brief survey of business law, emphasizing historical, social, and preventive aspects of principles discussed. Prerequisite: sophomore standing.

250-251 **INTERMEDIATE ACCOUNTING** Mr. Graham

Year course; 3 credits each semester.

The balance sheet; form, content, and such related problems as depreciation, valuation of assets, etc.; mergers, construction of consolidated statements. Prerequisites: Economics 150-151, and a grade of C or better in Business 150-151 or 152-153.

259 **OFFICE MANAGEMENT AND SECRETARIAL SCIENCE**

Second semester only; 3 credits.

Classification of office activities; distribution of authority and responsibility; employment; compensation; measuring efficiency; procedure and layout; indexing and filing; qualifications and functions of a secretary. Prerequisites: Economics 150-151, Business 150-151.

264 **PRINCIPLES OF BUSINESS** Mr. Cameron

First semester only; 3 credits.

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

266 **INVESTMENTS AND INVESTMENT BANKING** Mr. Wagner

First semester only; 3 credits.

Economic theory and tests of investment; personnel of investors; investment credit analysis; mathematics of investment; tools of investment; types of investment institutions and their functioning. Prerequisites: Economics 150-151; credit or concurrent registration in Business 150-151 or 152-153.

267 **BUSINESS CYCLES AND BUSINESS FORECASTING**

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.

- 273 **ECONOMICS OF ADVERTISING** Mr. Luke
First semester only; 3 credits.
History and present importance; methods and media; agencies and campaigns; costs and their measurement; evaluation from social and economic points of view. Prerequisites: Economics 150-151; credit or concurrent registration in Business 270-271.
- 276 **ECONOMICS OF RETAIL MERCHANDISING** Mr. Luke
Second semester only; 3 credits.
Analysis of consumers and their buying habits; history of retailing; store organization and management; sales promotion. Prerequisites: Economics 150-151; credit or concurrent registration in Business 270-271.
- 282 **STATISTICS**
Second semester only; 3 credits.
The science; uses; characteristics; sources; gathering material; statistical units; collecting and tabulating data; diagrams, frequency tables, and graphs; averages; index numbers; comparison of variables. Prerequisite: junior standing.
- 305-306 **SEMINAR IN BUSINESS** Staff
Year course; maximum of 3 credits each semester.
Open only to qualified graduate students.

OTHER COURSES

The following courses, ordinarily given in the alternate years, will not be offered in 1940-41:

- 252-253 Intermediate Accounting—Year course; 3 credits each semester.
- 254 Cost Accounting—First semester only; 2 credits.
- 255 Analysis of Financial Statements—Second semester only; 2 credits.
- 256 Income Tax Problems and Procedure—Second semester only; 2 credits.
- 262 Principles of Insurance—First semester only; 2 credits.
- 265 Corporation Finance—Second semester only; 3 credits.
- 270-271 Principles of Marketing—Year course; 3 credits each semester.
- 275 Practice of Foreign Trade—Second semester only; 3 credits.
- 280 Salesmanship and Sales Management—First semester only; 3 credits.
- 285 Law of Contracts—Year course; 2 credits each semester.
- 286 Law of Sales—First semester only; 2 credits.
- 287 Law of Bills, Notes, and Interest—Second semester only; 2 credits.
- 288 Law of Partnerships and Corporations—Second semester only; 3 credits.
- 290 Law of Agency—First semester only; 1 credit.
- 291 Law of Personal Property—First semester only; 2 credits.
- 292 Law of Real Property—Second semester only; 2 credits.

Chemistry and Sugar Technology

Professors Frank T. Dillingham, M.A., Leonora Neuffer Bilger, Ph.D.; *Associate Professor* Earl M. Bilger, Ph.D.; *Assistant Professors* John H. Payne, Ph.D., Wilfred J. Holmes, M.S.; *Instructor* Giichi Fujimoto, M.S.; *Lecturer* Raymond Elliott.

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** Mr. Payne, Mr. Fujimoto
 Year course; 4 credits each semester.
 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 lectures or discussion periods and one laboratory period 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 152. 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, 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.
- 262 BIOLOGICAL CHEMISTRY LABORATORY** Mr. Dillingham
 First semester only; 1 credit.
 Experimental studies of proteins, fats, carbohydrates, enzymes, milk, urine. One laboratory period a week. Prerequisites: Chemistry 101 or 102; 151, 152. Laboratory fee \$5.
- 263 FOOD ANALYSIS** Mr. Dillingham
 Second semester only; 3 credits.
 Chemistry of food; food laws, food preservation, and methods of food analysis. One lecture-recitation and two laboratory periods a week. Prerequisite: Chemistry 260. Laboratory fee \$6.

COURSES OF INSTRUCTION

- 271 COLLOIDAL CHEMISTRY** Mr. Bilger
Second semester only; 3 credits.
Chemistry of colloids. Assigned readings and written reports. Two lectures and one laboratory period a week. Laboratory fee \$5.
- 281 HISTORY OF CHEMISTRY** Mr. Bilger
Second semester only; 2 credits.
The historical foundations of the facts and theories of chemistry, from the earliest times through alchemy to the present; emphasis upon achievements that led to new basic ideas and the personalities of great chemists. Prerequisite: credit or concurrent registration in Chemistry 230.
- 310 SEMINAR IN CHEMISTRY** Mr. Bilger
Year course; 1 credit each semester.
Recent advances in chemistry. Prerequisites: graduate standing and credit or concurrent registration in Chemistry 211, 212.
- 313 SELECTED TOPICS IN ADVANCED PHYSICAL CHEMISTRY** Mr. Bilger
First semester only; 2 credits.
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.
- 315 CHEMICAL LITERATURE** Staff
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** Mr. Dillingham, Mr. Fujimoto
Year course; 3 credits each semester.
Primarily a laboratory course covering analysis of such materials as foodstuffs, fertilizers, soils, sugar-house products, water, urine, etc. Prerequisites: Chemistry 101 or 102; 150, 152, 153, 230. Laboratory fee \$6 a semester.
- 317 ADVANCED ORGANIC CHEMISTRY** Mr. Payne
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** Staff
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** Mr. Fujimoto
Second semester only; 2 credits.
Typical methods of both organic and inorganic quantitative microanalysis. Prerequisite: Chemistry 230. Laboratory fee \$8.
- 320 THEORETICAL ORGANIC CHEMISTRY** Mrs. Bilger
Year course; 2 credits each semester.
Modern theories of valence and the chemical link. Ingold and Pauling systems, resonance, new physical methods of investigation, molecular rearrangements, dipole moments. Prerequisite: senior or graduate standing and permission of instructor. Open only to chemistry majors.
- 350 ORGANIC ANALYSIS** Mr. Payne
Second semester only; 3 credits.
Introduction to technique of organic analysis, both qualitative and quantitative. Three laboratory periods a week. Prerequisites: Chemistry 153, 230. Laboratory fee \$9.
- 400 THESIS RESEARCH** Staff
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

Professor Merton K. Cameron, chairman
(Faculty listed under *Business*)

- 150-151 PRINCIPLES OF ECONOMICS** Mr. Cameron
 Year course; 3 credits each semester.
 Principles underlying consumption, production, and distribution of wealth; analysis of important current economic problems. Prerequisite: sophomore standing.
- 223 HISTORY OF ECONOMIC INSTITUTIONS** Mr. Cameron
 Year course; 3 credits each semester.
 Population and agricultural changes, labor and manufacturing systems, and transportation, trade, money, banking, and credit developments from earliest times, emphasizing causes and effects of changes. Prerequisite: sophomore standing.
- 252 ECONOMIC HISTORY AND PROBLEMS OF JAPAN** Mr. Taylor
 Second semester only; 3 credits.
 A detailed exposition of the feudal economic organization and its disintegration, and the rise of capitalistic enterprise and its relation to the state. Prerequisite: junior standing.
- 253 ECONOMIC HISTORY AND PROBLEMS OF CHINA** Mr. Taylor
 Second semester only; 3 credits.
 A historical survey of Chinese economic institutions; discussion of recent agricultural, industrial, financial, and trade problems. Prerequisite: Economics 150-151 or consent of instructor.
- 254 ECONOMIC PROBLEMS OF EUROPE**
 First semester only; 3 credits.
 Postwar domestic and international economic problems and policies of the more important European countries, especially those of the United Kingdom, France, Germany, and Russia. Prerequisite: Economics 150-151 or consent of instructor.
- 256 MONEY, CREDIT, AND PRICES** Mr. Wagner
 First semester only; 3 credits.
 Nature, history, and kinds of money; characteristics of credit; monetary system of the United States; monetary standards; value of money; relation of money and credit to prices. Prerequisite: Economics 150-151.
- 257 BANKING** Mr. Wagner
 Second semester only; 3 credits.
 Nature and history of banking; the banking system of the United States, including commercial banks, trust companies, savings banks, and related banking institutions. Prerequisites: Economics 150-151, 256.
- 261 PUBLIC FINANCE** Mr. Wagner
 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** Mr. Cameron
 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.
- 265 INTERNATIONAL FINANCE** Mr. Taylor
 Second semester only; 3 credits.
 International loans and investments; the instruments, technique, and organization of foreign exchange; varying monetary standards and foreign exchange; manipulation of exchange by national governments. Prerequisites: credit or concurrent registration in Economics 256 and 257.
- 273 OCEAN TRANSPORTATION** Mr. Cameron
 Second semester only; 3 credits.
 Economic characteristics, history, and vehicles of ocean transportation; services, organization, and rate-making theories and practices of ocean carriers; subsidies and government control. Prerequisite: Economics 150-151.
- 281 LABOR PROBLEMS** Mr. Wagner
 First semester only; 3 credits.
 Sources of wage earners; wages, hours, environment, and unemployment; labor organizations and their weapons and accomplishments; labor legislation; cooperation and socialism as remedies for the labor problem. Prerequisite: Economics 150-151.

COURSES OF INSTRUCTION

288 RISK, RISK-BEARING AND SPECULATION

Mr. Wagner

First semester only; 3 credits.

Study of risks arising from economic processes and hazards such as fire, accident, and death, and of institutions, such as insurance and speculation, devised to meet them. Prerequisite: Economics 150-151.

296 RECENT ECONOMIC THOUGHT

Second semester only; 3 credits.

General survey of economic thought from John Stuart Mill to the present time with special emphasis on value and distribution. Prerequisites: junior standing and *B* in Economics 150-151 or permission of the instructor.

305-306 SEMINAR IN ECONOMICS

Staff

Year course; maximum of 3 credits each semester.

Open only to qualified graduate students.

311 SEMINAR IN THE ECONOMIC HISTORY AND PROBLEMS OF THE FAR EAST

Mr. Taylor

Second semester only; 3 credits.

Open only to qualified graduate students.

400 THESIS RESEARCH

Staff

Credit by arrangement.

Open only to graduate students engaged in the preparation of theses.

OTHER COURSES

The following courses, ordinarily given in alternate years, will not be offered in 1940-41:

270 Public Utilities—First semester only; 3 credits.

276 Trusts and Industrial Combinations—First semester only; 3 credits.

285 Theory and Control of Foreign Trade—First semester only; 3 credits.

291 Economics of Agriculture—Second semester only; 3 credits.

Education

(See Teacher Education)

Engineering

Professors Arthur R. Keller, M.S., Carl B. Andrews, M.S.; *Visiting Professors* Leonard C. Urquhart, C.E., Charles E. O'Rourke, C.E.; *Assistant Professors* Wilfred J. Holmes, M.S., Russell C. Brinker, C.E.; *Instructors* Kenichi Watanabe, Ph.D., William M. Cade, M.S.; *Assistant* Shigeo Okubo, M.S.; *Lecturer* E. C. Holtzworth, Lt. (CC), U.S.N. Absent on leave 1940-41: *Assistant Professor* Elvin A. Hoy, B.S.

Professor Andrews, chairman

CIVIL ENGINEERING (C.E.)

C.E. 101 PLANE SURVEYING

Mr. Andrews, Mr. Cade

Year course; 3 credits each semester.

Use of chain, tape, level, and transit. Map platting and computations. Lectures on Hawaiian land descriptions. One lecture and two field or drafting periods weekly. Prerequisites: credit or concurrent registration in Mechanical Drawing 101, Mathematics 104. Laboratory fee \$2 each semester.

C.E. 151 GRAPHICAL STATICS

Mr. Andrews

Second semester only; 2 credits.

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

- C.E. 153 ROADS AND PAVEMENTS** Mr. Keller
 Second semester only; 2 credits.
 Construction and maintenance of various types of city streets and rural highways. Prerequisites: Civil Engineering 101, Mechanical Drawing 101.
- C.E. 227 ROUTE SURVEYING** Mr. Brinker
 Year course; 3 credits each semester.
 Reconnaissance; preliminary survey; paper location; curve computations; field location. Platting profiles; determining grade lines. Earthwork computations for location of railroad or highway. One 7-hour continuous period a week. Prerequisites: Civil Engineering 101, 153; Mathematics 106.
- C.E. 229 MUNICIPAL ENGINEERING** Mr. Keller
 Year course; 3 credits each semester.
 City water supply, waterworks, fire protection, methods of treating water used for a public supply, sewage and garbage disposal, sewage treatment, and disposal of storm water.
- C.E. 231 SOIL MECHANICS** Mr. Andrews
 Year course; 2 credits each semester.
 Physical factors in earth pressure phenomena; soil phenomena in earthwork operations and foundation work.
- C.E. 252 ANALYTICAL AND APPLIED MECHANICS** Mr. Andrews
 First semester only; 4 credits.
 Effect of forces on bodies, both at rest and in motion. Prerequisite: Mathematics 106.
- C.E. 253 STRUCTURAL MECHANICS** Mr. Andrews
 Second semester only; 4 credits.
 Action and effect of internal stresses in bodies and members of structures. Prerequisite: Civil Engineering 252.
- C.E. 255 HYDRAULICS** Mr. Brinker
 Second semester only; 3 credits.
 Water pressure, strength of pipe, stability of gravity dams. Water flow through orifices, nozzles, and weirs. Manometers, Pitot tubes and Venturi meters. Steady flow in pipes and open channels. Prerequisites: credit or concurrent registration in Civil Engineering 252, 253.
- C.E. 257 RAILWAY TRACK, TURNOUTS, AND ACCESSORIES** Mr. Andrews
 Second semester only; 2 credits.
 Railway track, turnouts, crossings, crossovers, and accessories, and maintenance of railway tracks and structures. Prerequisite: credit or concurrent registration in Civil Engineering 227.
- C.E. 259 HIGHER SURVEYING** Mr. Brinker
 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** Mr. Keller
 First semester only; 2 credits.
 Continuation of Civil Engineering 153. Economics of road building, methods of paving for road construction, detailed design of highways and city streets. Prerequisite: Civil Engineering 153.
- C.E. 276 STRUCTURAL DESIGN** Mr. Urquhart
 First semester only; 3 credits.
 Stress computation and design of plate girders and steel building trusses and other structural members. Complete detail drawings and specifications, carefully supervised and checked. Prerequisite: Civil Engineering 253.
- C.E. 277 BRIDGE DESIGN** Mr. O'Rourke
 Second semester only; 3 credits.
 Design of a single track through bridge for a given conventional loading, including all computations, drawings, and specifications. Prerequisite: Civil Engineering 276.
- C.E. 279 CONCRETE AND MASONRY STRUCTURES** Mr. Urquhart, Mr. O'Rourke
 Year course; 3 credits each semester.
 Elementary theory of reinforced concrete, beams, columns, footings, retaining walls. In the second semester, design of floor systems for buildings, bins, reservoirs, combined footings, highway bridges, miscellaneous structures. Prerequisites: Civil Engineering 252, 253.

COURSES OF INSTRUCTION

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: credit or concurrent registration in Civil Engineering 229.

C.E. 281 ADVANCED STRUCTURAL ANALYSIS Mr. Urquhart
First semester only; 2 credits.
Deflections, analysis of rigid frames, the two-hinged arch, and other redundant structures. Prerequisite: senior standing or consent of instructor.

C.E. 282 FOUNDATIONS Mr. O'Rourke
Second semester only; 2 credits.
Design and construction of various types of foundations for bridges and buildings, underpinning, theory of bearing capacity. Prerequisite: senior standing or consent of instructor.

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

MECHANICAL DRAWING (M.D.)

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

M.D. 152 DESCRIPTIVE GEOMETRY Mr. Watanabe
First semester only; 3 credits.
Geometry of engineering drawing, analysis and design of structures, intersections and development of surfaces. Prerequisites: Mechanical Drawing 101, Mathematics 104.

MECHANICAL ENGINEERING (M.E.)

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

M.E. 202 MATERIALS OF ENGINEERING Mr. Urquhart
First semester only; 2 credits.
Properties of cements, limes, and plasters, plain and reinforced concrete. Methods of manufacture and standard tests for quality. Prerequisites: Mathematics 106, Mechanical Drawing 152.

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

M.E. 282 STEAM MACHINERY Mr. Holmes
First semester only; 3 credits.
Fundamental laws governing transformation of heat into work; properties of gases, laws of expansion, heat measurement, mechanical equivalent of heat, properties of steam, steam tables. Prerequisites: Mathematics 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. Prerequisite: Mechanical Engineering 282 or consent of instructor.

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

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

EXPERIMENTAL ENGINEERING (X.E.)

- X.E. 202 MATERIALS LABORATORY** Mr. Holmes, Mr. Okubo
 First semester only; 1 credit.
 Testing cements, concrete, reinforced concrete, and aggregates used in making concrete. Operation and calibration of testing machines. Prerequisite: Mechanical Engineering 202. Laboratory fee \$2.50.
- X.E. 203 MATERIALS LABORATORY** Mr. Holmes, Mr. Okubo
 Second semester only; 1 credit.
 Continuation of Experimental Engineering 202 in testing laboratory practice. Various tests of timber and metals. Prerequisite: Experimental Engineering 202. Laboratory fee \$2.50.
- X.E. 254 MATERIALS LABORATORY** Mr. Holmes, Mr. Okubo
 First semester only; 1 credit.
 A continuation of Experimental Engineering 202 and 203 for students who wish to make tests not ordinarily included in routine testing work. Prerequisite: Experimental Engineering 203. Laboratory fee \$2.50.

OTHER COURSES

The following courses, ordinarily given in alternate years, will not be offered in 1940-41:

- C.E. 262 Applied Fluid Mechanics—First semester only; 3 credits.
 C.E. 288 Arches—First semester only; 2 credits.

English

Professors N. B. Beck, Ph.D., Gregg M. Sinclair, M.A.; *Associate Professors* Charles H. Neil, M.A., Laura V. Schwartz, Ph.D., Arthur E. Wyman, B.S., Willis B. Coale, Ph.D.; *Assistant Professors* Florence M. Henderson, Ph.D., Carl G. Stroven, Ph.D., Willard Wilson, Ph.D., Gaylord C. LeRoy, Ph.D., Stewart C. Wilcox, Ph.D.; *Instructors* Muriel J. Bergstrom, M.A., Stanley Orne, M.A., Lucinda N. Bukeley, Robert C. Elliott, M.A., Howard L. Miller, M.A., Esther M. Lound, M.A., Charles S. Bouslog, B.A., Marshall W. Stearns, B.A., Orvin P. Larson, Ph.D., James W. Abel, M.A.; *Assistants* Ruth Bricker, B.A., Norman J. Wright, B.A., J. Roy Petersen, B.A. Absent on leave 1940-41: *Assistant Professor* Thomas Blake Clark, Ph.D.; *Instructors* Fred G. Holahan, M.A., Cynthia Larry, M.A., William A. McCartney, M.A.

Professor Beck, chairman

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

Students deficient in oral English are required to complete successfully one or more of the Special Speech Courses, according to the nature of their deficiencies. Students deficient in composition are required to take without credit two hours a week of composition laboratory in addition to the regular freshman composition course.

SPECIAL SPEECH COURSES

- A ORAL ENGLISH FOR FOREIGN STUDENTS** Staff
 Year course; no credit.
 Required of 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 a semester.

COURSES OF INSTRUCTION

35 PRACTICAL SPEAKING

Staff

Year course; no credit.

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

COMPOSITION

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

100 COMPOSITION

Staff

Year course; 3 credits each semester.

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

102 COMPOSITION

Mr. Neil

Year course; 3 credits each semester.

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

110 ENGLISH APPLIED IN TECHNICAL WRITING

Mr. Wilcox

Year course; 2 credits each semester.

Principles of technical exposition. Composition and analysis of reports, papers, and selected types of business letters.

210 BUSINESS ENGLISH

Mr. Stroven, Mr. Wilson, Mr. Beck

First semester only; 2 credits.

Principles and practice, psychology and composition of business letters, advertisements, and other forms of publicity. Designed for economics and business students. Prerequisite: junior standing.

216 THE ONE-ACT PLAY

Mr. Wilson

First semester only; 2 credits.

Technique of the one-act play, analysis of selected examples, and writing of original plays.

217 THE SHORT STORY

Mr. Wilson

Second semester only; 2 credits.

Analysis of model stories and writing of original short stories. Prerequisite: English 150 or equivalent.

OTHER COURSES

The following course, ordinarily given in alternate years, will not be offered in 1940-41:

116 Advanced Composition—First semester only; 3 credits.

JOURNALISM

120 NEWS WRITING

Mr. Orne

First semester only; 3 credits.

An introduction to journalism with emphasis on reporting and with practice in news writing. News recognition, structure, and style; journalistic vocations. Some work on *Ka Leo*. Two lecture-recitation periods and one 2-hour laboratory period a week. Prerequisite: B or better in English 100 or 102; or consent of instructor.

121 ADVANCED NEWS WRITING

Mr. Orne

Second semester only; 3 credits.

Continuation of English 120 into more complex forms. Some work on *Ka Leo*. Two lecture-recitation periods and one 2-hour laboratory period a week. Prerequisite: English 120 or consent of instructor.

222 MECHANICS OF PUBLISHING

Mr. Orne

First semester only; 1 credit.

Printing processes; type faces; typographical display; type calculations; newspaper illustration processes. Reading and reports. Prerequisite: English 121 or consent of instructor.

223 NEWS EDITING

Mr. Orne

Second semester only; 1 credit.

Copyreading, headline writing, news display, illustration. Prerequisite: English 222 or consent of instructor.

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

229 PROSEMINAR IN JOURNALISM Mr. Orne
 First semester, 1 credit; repeated second semester.
 Conferences, reading and reports, individual studies. Laboratory work on *Ka Leo*. May be taken several times. Prerequisite: consent of instructor.

OTHER COURSES

The following course, ordinarily given in alternate years, will not be offered in 1940-41:

211 Principles of Publicity—Second semester only; 2 credits.

LITERATURE

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

150 INTRODUCTION TO ENGLISH LITERATURE Staff
 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 GENERAL LITERATURE Staff
 Year course; 3 credits each semester.
 The chief types of literature, including the novel, essay, biography, satire, and poetry. Emphasis on the appreciation of literary excellence. Prerequisite: English 100 or 102.

158 INTRODUCTION TO CONTEMPORARY LITERATURE Staff
 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 literature of the South Seas, including narratives by Melville, Stevenson, London, Maugham, and Nordhoff and Hall.

252 WORLD LITERATURE Mr. Sinclair
 Year course; 3 credits each semester.
 English translation of major writers of Japan, China, and India, first semester; the classics of Persia, Arabia, Greece, and Italy, second semester.

260 AMERICAN LITERATURE Mr. Stroven
 Year course; 3 credits each semester.
 A critical survey of American literature from colonial times to the present. 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. 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.

274 THE AGE OF CHAUCER
 First semester only; 3 credits.
 An introduction to medieval thought as exemplified in European and English literature.

COURSES OF INSTRUCTION

- 275 **THE AGE OF ELIZABETH** Miss Schwartz
Second semester only; 3 credits.
The English Renaissance as portrayed by the poets, dramatists, and great prose writers of the period.
- 280 **THE AGE OF MILTON**
Second semester only; 3 credits.
A critical study of the principal works of Milton and his contemporaries.
- 286 **THE VICTORIAN AGE** Mr. Neil
Year course; 3 credits each semester.
The prominent poets and prose writers of the period between 1830 and 1890.
- 288 **TWENTIETH CENTURY**
Year course; 3 credits each semester.
Representative works of the leading English and American novelists, playwrights, poets, and essayists since 1890.
- 289 **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.
- 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 1940-41:

- 170 Introduction to Poetry—First semester only; 3 credits.
250 European Masters—Year course; 3 credits each semester.
254 Modern Continental Drama—Year course; 3 credits each semester.
276 Shakespeare—Year course; 3 credits each semester.
282 The Age of Pope and Johnson—Second semester only; 3 credits each semester.
284 The Age of Wordsworth—Year course; 3 credits each semester.
296 Development of Modern English—First semester only; 2 credits.

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 for Teachers.*)

- 152 **GENERAL ENGLISH** Mr. Coale, Mr. Wilcox, Mr. LeRoy
290-291 **ENGLISH IN THE ELEMENTARY SCHOOL** Mr. Coale
292-293 **ENGLISH IN THE SECONDARY SCHOOL** Mr. Coale
294-295 **LITERATURE FOR THE ELEMENTARY SCHOOL** Mrs. Geiser

SPEECH

- 130 FUNDAMENTALS OF PUBLIC SPEAKING** Mr. Larson, Mr. Abel
 First semester, 3 credits; repeated second semester.
 The fundamentals of action, projection, self-control before audiences; outlining and speech organization. Platform speaking throughout the course.
- 132 ARGUMENTATION AND DEBATE** Mr. Larson
 Second semester only; 3 credits.
 The technique of constructing effective arguments; emphasis on analysis, reasoning, brief drawing, evidence, and persuasion. Practice in argumentative speaking. Prerequisite: English 130.
- 134 VOICE AND DICTION** 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.
- 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. Bukeley
 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.
- 237 BUSINESS AND PROFESSIONAL SPEAKING** Mr. Miller, Mr. Larson
 Second semester only; 2 credits.
 A study of model speeches and practice in the preparation of sales talks, group discussions, business conferences, formal addresses, after-dinner speeches, and other speeches of courtesy. Designed for economics and business students. Prerequisite: junior standing.
- 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 PROSEMINAR 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.
- 297 THE SOUNDS OF ENGLISH** Miss Henderson
 Year course; 2 credits each semester.
 Elementary phonetics. 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.
- 299B TECHNIQUES OF SPEECH IMPROVEMENT IN THE SECONDARY SCHOOL** Miss Henderson
 Second semester only; 2 credits.
 The general speech problems of schools in Hawaii, the materials adapted to secondary grades, and the technique 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, 298, or their equivalent. May be repeated until an aggregate of 6 credits has been earned.

COURSES OF INSTRUCTION

- 355 INDIVIDUAL STUDIES** Staff
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.
- 400 THESIS RESEARCH** Staff
Credit by arrangement.

OTHER COURSES

The following courses, ordinarily given in alternate years, will not be offered in 1940-41:

- 137 The Forms of Address—Second semester only; 3 credits.
236 The Foundations of Speech Discussion—First semester only; 3 credits.
299A Techniques of Speech Improvement in the Elementary School—Second semester only; 2 credits.
300 Correction of Speech Defects, Advanced Course—Second semester only; 2 credits.

French

*Professor Irving O. Pecker, B.A.; Instructor Eva Métraux, Licence-es-Lettres.
Professor Pecker, chairman of Romance Languages department*

- 100 ELEMENTARY FRENCH** Mrs. Métraux
Year course; 3 credits each semester.
Grammar, phonetics, diction, reading of easy prose and poetry.
- 101 INTERMEDIATE FRENCH** Mrs. Métraux
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** Mr. Pecker
Year course; 3 credits each semester.
Postwar literature, lectures, essays, composition. Prerequisite: two years of college French or equivalent.
- 202 CONVERSATION AND COMPOSITION** Mr. Pecker
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.
- 250 CLASSIC DRAMA** Mr. Pecker
First semester only; 2 credits.
Masterpieces of Corneille, Racine, and Molière. Lectures in French upon the literary history of the period. Additional outside reading and research.
- 251 ROMANTIC SCHOOL** Mr. Pecker
Second semester only; 2 credits.
Readings from Lamartine, de Musser, Hugo, etc. Lectures in French upon the significance and influence of the Romantic Movement. Individual research and reports on assigned topics.
- 260-261 INDIVIDUAL RESEARCH** Mr. Pecker
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 1940-41:

- 201 Phonetics—Year course; 1 credit each semester.
252 Modern French Drama—First semester only; 2 credits.
253 Advanced French Seminar—Second semester only; 2 credits.
255 Survey of French Literature—Year course; 2 credits each semester.

Geography

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

- 150 **ELEMENTS OF GEOGRAPHY** Mr. Coulter, Mr. Jones
 First semester 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
 First semester only; 3 credits.
 Elements of weather; preparation of a weather map; principles of forecasting. Two lectures and one laboratory period a week.
- 200 **FIELD GEOGRAPHY** Mr. Coulter, Mr. Jones
 Year course; credit by arrangement.
 Field and library work in human and economic geography; collection, evaluation, and presentation of field data. Prerequisite: consent of instructors.
- 202 **CARTOGRAPHY AND MAP READING** Mr. Jones
 First semester only; 3 credits.
 Map projections; reading of topographic maps; preparation of economic and social maps. Two lectures and one laboratory period a week.
- 205 **CLIMATOLOGY** Mr. Jones
 Second semester only; 3 credits.
 Climatic principles; climates of the continents and oceans. Two lectures and one laboratory period 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
 Second semester only; 3 credits.
 Geographic regions of Europe; areas of political and historical significance.
- 261 **OCCUPATIONAL GEOGRAPHY** Mr. Jones
 (For description, see *Teacher Education, Geography for Teachers.*)
- 262 **GEOGRAPHY OF HAWAII** Mr. Coulter
 First semester only; 2 credits.
 Natural environment; economic activities of the people. Prerequisite: one course in geography or junior standing.
- 263 **GEOGRAPHY OF PACIFIC ISLANDS** Mr. Coulter
 Second semester only; 2 credits.
 The islands of the Pacific (except Hawaii). Prerequisite: one course in geography or junior standing.
- 290 **INDEPENDENT STUDY** Mr. Coulter, Mr. Jones
 Credit by arrangement.
 Prerequisite: consent of 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.

OTHER COURSES

The following course, ordinarily given in alternate years, will not be offered in 1940-41:

271 Political Geography—Second semester only; 2 credits.

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 Mr. Palmer
 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.

256 GEOLOGY FOR ENGINEERS Mr. Palmer
 First semester only; 3 credits.
 Materials composing the earth. Operation and effects of geologic agents. Meteorology surveyed. Prerequisite: junior standing in civil engineering or consent of instructor.

260 PHYSIOGRAPHIC REGIONS OF THE UNITED STATES Mr. Palmer
 First semester only; 3 credits.
 Prerequisite: Geology 253. Two recitations and one laboratory period a week.

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

262 VOLCANOLOGY Mr. Palmer
 Second semester only; 2 credits.
 Classification, eruptive types, products, structures, distribution, and periodicity of volcanoes. Prerequisites: Geology 252 or 256 and credit or concurrent registration for a year of college physics.

200-300 GEOLOGY SEMINAR Mr. Palmer
 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 1940-41:

254 Economic Geology—First semester only; 3 credits.

255 Geology of Ground Water—Second semester only; 2 credits.

German

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

- 100 **ELEMENTARY GERMAN** Mrs. Hörmann, Miss Mueller
 Year course; 3 credits each semester.
 For beginners. Grammar developed from easy reading material. Exercises 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.
- 102 **SCIENTIFIC GERMAN** Mrs. Hörmann
 Year course; 3 credits each semester.
 Sentence construction and analysis. Translation from difficult German scientific readings.
- 200 **CLASSICAL LITERATURE** Mrs. Hörmann
 Year course; 3 credits each semester.
 Reading supplemented by exercises in composition.
- 202 **ADVANCED SCIENTIFIC GERMAN** Mrs. Hörmann
 Year course; 1 or 2 credits each semester.
 Reading and translation of scientific material and practice in sight translation. Prerequisites: 2 years of college German and consent of instructor. May be repeated once.
- 250 **READINGS IN GERMAN LITERATURE** Mrs. Hörmann, 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 1940-41:

- 201 Contemporary Literature—Year course; 3 credits each semester.

Hawaiian

Professor Henry P. Judd, B.A.

- 100 **ELEMENTARY HAWAIIAN** Mr. Judd
 Year course; 3 credits each semester.
 Elements of the language.
- 101 **INTERMEDIATE HAWAIIAN** Mr. Judd
 Year course; 3 credits each semester.
 Reviewing Hawaiian grammar.
- 200 **ADVANCED HAWAIIAN** 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.
- 280-281 **SEMINAR IN HAWAIIAN** Mr. Judd
 Year course; 1 credit each semester.

History

Professors Paul S. Bachman, Ph.D., Shao Chang Lee, M.A., Shou-Yi Ch'en, Ph.D.;
Associate Professors Ralph S. Kuykendall, M.A., Charles H. Hunter, Ph.D.;
Assistant Professors Klaus Mehnert, Ph.D., Shunzo Sakamaki, Ph.D.

Professor Bachman, chairman

- 100 HISTORY OF WESTERN CIVILIZATION 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.
- 205 CULTURAL HISTORY OF EUROPE Mr. Mehnert
 Year course; 2 credits each semester.
 Europe's main contributions to culture and civilization from ancient Greece to modern times.
- 207 NATIONALISM IN THE MODERN WORLD Mr. Sakamaki
 First semester only; 2 credits.
 Development and significance of modern nationalism; comparison of trends in Europe and the Far East.
- 211 CONSTITUTIONAL HISTORY OF ENGLAND Mr. Hunter
 First semester only; 2 credits.
 Anglo-Saxon institutions, Norman innovations; development under the Angevins; the limitation of the royal power; rise of the cabinet system.
- 225 HISTORY OF CHINA Mr. Lee
 Year course; 3 credits each semester.
 General survey of Chinese history; development of institutions; impact of western culture upon Chinese civilization.
- 226 HISTORY OF JAPAN Mr. Sakamaki
 Year course; 3 credits each semester.
 General survey of Japanese history; development of institutions; impact of western culture upon Japanese civilization.
- 229 HISTORY OF THE CULTURAL RELATIONS BETWEEN CHINA AND THE OCCIDENT Mr. 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.
- 236-237 HISTORY OF MODERN CHINA Mr. Ch'en
 Year course; 2 credits each semester.
 Survey of the multiple changes and readjustments since the arrival of the Europeans overseas. First semester: 1600-1842; second semester: 1842 to the present.
- 244-245 DIPLOMATIC HISTORY OF THE UNITED STATES Mr. Hunter
 Year course; 3 credits each semester.
 The relations of the United States with Europe, Latin America, and the Far East from 1775 to the present.
- 250 THE HISTORY OF EARLY CIVILIZATION IN THE FAR EAST Mr. Sakamaki
 First semester only; 3 credits.
 A general survey of the development of civilization in eastern Asia.
- 251 HISTORY OF THOUGHT IN JAPAN Mr. Sakamaki
 Second semester only; 3 credits.
 The major schools of thought and important thinkers, social reformers, economists, statesmen, and educators of the Far East.
- 252 CONSTITUTIONAL HISTORY OF THE UNITED STATES Mr. Hunter
 First semester only; 3 credits.
 The genesis, drafting, ratification, and development of the federal constitution.
- 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.

- 276 HISTORY OF THE HAWAIIAN ISLANDS Mr. Kuykendall
 Year course; 2 credits each semester.
 A general course in some detail, with emphasis on the period of the monarchy.
- 285 RUSSIA IN ASIA Mr. Mehnert
 First semester only; 3 credits.
 The history of Russia's conquest and colonization of Siberia and central Asia; early relations with China; rivalry with Great Britain.
- 286 RUSSIA IN THE PACIFIC Mr. Mehnert
 Second semester only; 3 credits.
 Russia's occupation of the Siberian Pacific Coast; her activities in Alaska, California, and Hawaii; and her modern relations with China and Japan.
- 310 SEMINAR IN HISTORICAL METHOD Mr. Hunter
 First semester only; 2 credits.
- 311 SEMINAR IN AMERICAN DIPLOMATIC HISTORY Mr. Hunter
 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. 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 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 1940-41:

204 Diplomatic and Colonial History of Modern Europe—Year course; 2 credits each semester.

209-210 Political and Social History of England—Year course; 3 credits each semester.

212 History of Central Europe—First semester only; 3 credits.

216 History of Russian Culture and Thought—Year course; 2 credits each semester.

218 Europe in the Pacific—Year course; 3 credits each semester.

219 Europe in Asia—First semester only; 3 credits.

235 History of Ancient China—Second semester only; 3 credits.

241-242 History of the United States—Year course; 3 credits each semester.

243 The United States, 1890-1936—Second semester only; 3 credits.

249 Representative Americans—Second semester only; 2 credits.

253-254 Hispanic America—Year course; 2 credits each semester.

277 The Pacific Region in Modern Times—First semester only; 2 credits.

295 Social History of China—Year course; 2 credits each semester.

313 Seminar in Historiography—Second semester only; 2 credits.

318 Seminar: Russia in the Far East—Year course; 2 credits each semester.

Home Economics

Professor Carey D. Miller, M.S.; *Associate Professor* Martha Potgieter, Ph.D.; *Assistant Professors* Katherine Bazole, M.A., Ruth Douglass, M.S.; *Instructors* Jana Glenn, M.S., Helen Lind, B.S., Martha Swoyer, M.S., Dagmar C. Gustafson, M.S., Nora Mark, B.S.; *Assistants* Marguerite Cork, B.S., Carol Yocum, B.S.; *Lecturer* Frank Gaudin, M.D.

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.)

H.E. 100 ORIENTATION IN HOME ECONOMICS Miss Bazole
 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

Miss Glenn

Second semester only; 2 credits.

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

H. E. 250 HOUSEHOLD MANAGEMENT

Miss Bazole

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

Second semester only; 2 credits—with laboratory, 3 credits.

Importance of the preschool 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

Mr. Gaudin

First semester only; 2 credits.

Reproduction, prenatal care, childbirth, infant and preschool care, growth, minor ailments, and common diseases of children.

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

Second semester; 3 credits.

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.)

- H.A. 110 ELEMENTS OF CLOTHING CONSTRUCTION** Miss Gustafson, 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** Miss Gustafson
 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** Miss Gustafson
 Year course; 2 credits each semester.
 Design and construction of costumes suitable to the individual student. Two laboratory periods a week. Prerequisites: H.A. 110, 111; credit or concurrent registration in Art 150-151. Laboratory fee \$3.
- H.A. 150-151 CLOTHING SELECTION** Miss Gustafson
 Year course; 1 credit each semester.
 Color, design, suitability, quality, and cost of clothing and accessories. Laboratory fee \$1.
- H.A. 253 ADVANCED CLOTHING CONSTRUCTION** Miss Gustafson
 First semester only; 3 credits.
 Tailoring and advanced instruction in choice of materials; practice in the art of design and dressmaking. Prerequisite: H.A. 114. Laboratory fee \$3.

HOUSEHOLD SCIENCE (H.S.)

- H.S. 102 FOOD ECONOMICS** Miss Bazole
 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, two laboratory periods a week. Prerequisites: Chemistry 101 or 102, H.S. 150 or equivalent. Laboratory fee \$5.
- H.S. 150 ELEMENTARY FOOD PREPARATION** Mrs. Lind, Miss Yocum
 First semester, 3 credits; repeated second semester.
 Fundamental processes of food preparation; meal planning and serving. Production, manufacture, and composition of common foods. One lecture and two laboratory periods a week. Required of students whose placement tests show insufficient preparation for H.S. 102. Laboratory fee \$5.
- H.S. 155 ELEMENTARY NUTRITION FOR NURSING STUDENTS** Miss Glenn
 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** Miss Potgieter
 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** Miss Miller, Miss Potgieter, Miss Glenn
 Credit by arrangement.
 Problems according to preparation of each student. Nutritional investigations; animal and human feeding experiments. Prerequisites: H.S. 200 and consent of instructor. Laboratory fee \$5.
- H.S. 250 DIET AND DISEASE** Miss Glenn
 First semester, 3 credits; repeated second semester.
 Diet therapy in abnormal conditions. Reading, conferences, and laboratory. Prerequisites: H.S. 102, 200. Laboratory fee \$2.
- H.S. 251 FOOD INVESTIGATION** Miss Bazole and Staff
 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: H.S. 102. Laboratory fee \$5.

COURSES OF INSTRUCTION

- H.S. 260 QUANTITY COOKERY (Formerly 261.)** Miss Swoyer, Miss Cork
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 3-hour laboratory periods a week. Prerequisite: H.S. 102. Laboratory fee \$5.
- H.S. 261 INSTITUTIONAL MANAGEMENT (Formerly 260.)** Miss Swoyer
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: H.S. 260.
- H.S. 263 INSTITUTIONAL BUYING** Miss Swoyer
Second semester only; 2 credits.
Selection and purchase of foods and equipment for an institution. Prerequisite: H.S. 261.
- H.S. 264 PROBLEMS IN INSTITUTIONAL MANAGEMENT** Miss Swoyer
First semester, 4 credits; repeated second semester.
Field practice for senior and graduate student dietitians in the Queen's Hospital of Honolulu. Prerequisites: H.S. 200, 260, 261, 263.
- H.S. 272 ELEMENTARY NUTRITION** Miss Glenn
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: H.S. 102 or consent of instructor. Laboratory fee \$5.
- H.S. 273 RACIAL FOOD HABITS IN HAWAII** Miss Bazore, Mrs. Lind
Second semester only; 4 credits.
The planning and preparation of meals for various racial groups at different income levels; emphasis on adequate diets at minimum cost. Two lectures and two laboratory periods a week. Prerequisite: H.S. 272. Laboratory fee \$5.
- H.S. 350-351 SEMINAR IN NUTRITION** Miss Miller, Miss Potgieter
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, Mrs. Lind
Second semester only; 4 credits.
Foods and food habits of racial groups in Hawaii and in countries bordering on the Pacific. Two lectures and two laboratory periods a week. Students may not receive credit for both this course and for H.S. 273. Prerequisites: H.S. 102; H.S. 200, 272, or equivalent; and consent of instructor. Laboratory fee \$5.
- H.S. 400 THESIS RESEARCH** Staff
Credit by arrangement.
Only graduate students engaged in the preparation of theses may register in this course.

Japanese

(See Oriental Studies)

Mathematics

Professors Ernest C. Webster, C.E., Arthur R. Keller, M.S.; Assistant Professors Wilfred J. Holmes, M.S., Russell C. Brinker, C.E.; Instructors Kenichi Watanabe, Ph.D., William M. Cade, M.S.; Assistant Shigeo Okubo, M.S. Absent on leave 1940-41; Assistant Professor Elvin A. Hoy, B.S.

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. Prerequisites: two years of high school algebra, one year of plane geometry, one semester of plane trigonometry. Desirable preparation: solid geometry.

106 CALCULUS Mr. Watanabe

Year course; 3 credits each semester.

Differential and integral calculus. Prerequisite: Mathematics 104 or 152-153.

149 ALGEBRA Mr. Cade, Mr. Okubo

First semester only; 3 credits.

Second-year algebra. Prerequisites: One year of high school algebra, one year of plane geometry. Six hours a week.

150 PLANE TRIGONOMETRY Mr. Keller, Mr. Brinker, Mr. Cade

First semester, 3 credits; repeated second semester.

Prerequisites: two years of high school algebra, one year of plane geometry.

151 COLLEGE ALGEBRA Mr. Keller, Mr. Brinker, Mr. Cade

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 Mr. Watanabe

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.

252-253 ADVANCED CALCULUS AND DIFFERENTIAL EQUATIONS Mr. Watanabe

Year course; 3 credits each semester. (Alternate years.)

Theory and application of ordinary, total, and partial differential equations. Fourier and other series, hyperbolic functions. Prerequisite: Mathematics 106.

272-273 HISTORY OF MATHEMATICS Mr. Watanabe

Year course; 3 credits each semester. (Alternate years.)

A general survey of the growth of elementary mathematics by chronological periods. Special attention to racial achievements. Prerequisites: algebra, plane geometry, trigonometry.

OTHER COURSES

The following courses, ordinarily given in alternate years, will not be offered in 1940-41:

254-255 Applications of Higher Mathematics in Engineering and Physical Science—Year course; 3 credits each semester.

260 Teaching of Elementary Mathematics—First semester only; 2 credits.

275 Theory of Equations—Second semester only; 3 credits.

280 Elementary Statistics—First semester only; 3 credits.

281 Advanced Statistics—Second semester only; 3 credits.

Military Science and Tactics

Major Maurice S. Kerr, U.S.A.; *Capt.* Harold J. Keeley, U.S.A., Ret.; *Sergeants* Edward J. Barnes, Patrick J. Hogan, Harry S. Junker, U.S.A.

Major Kerr in charge

M.S. 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 64 college credits. Military training in the junior and senior years is optional for students who have completed the basic courses.

Students in M.S. 101 and 102 who possess the necessary qualifications may, if they procure permission of the officer in charge, obtain the usual R.O.T.C. credit for participation in the band that serves the R.O.T.C.

M.S. 101 R.O.T.C. BASIC Major Kerr and Staff

Year course; 1 credit each semester.

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

COURSES OF INSTRUCTION

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

Major Kerr and Staff

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 work. Prerequisite: M.S. 101. Uniform rehabilitation fee 75 cents (not refundable).

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

Major Kerr and Staff

Year course; 3 credits each semester.

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

M.S. 204 R.O.T.C. ADVANCED

Major Kerr and Staff

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. Prerequisite: M.S. 250.

M.S. 250 SUMMER CAMP

Summer following completion of M. S. 203; 2 credits.

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

Music

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

110 HISTORY OF MUSIC

Mr. Hart

Year course; 2 credits each semester.

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

120 SIGHT READING AND CHORAL SINGING

Mr. Hart

Year course; 2 credits each semester.

Training in sight reading and the elements of music; choral singing.

135 HARMONY AND COUNTERPOINT

Mr. Hart

Year course; 2 credits each semester.

200 MUSIC APPRECIATION

Mr. Thompson

Year course; 2 credits each semester.

A discovery course designed to cultivate listening skill. Records and class demonstrations. Special attention to orchestral instruments. Discussion of newer records.

201 ADVANCED MUSIC APPRECIATION

Mr. Thompson

Year course; 2 credits each semester.

The symphony as an art form; critical analysis of representative works. Second semester devoted to Wagner and the music drama. Special attention to "The Ring." Wagner's theories in relation to those of his period.

210 MUSICAL FORM

Mr. Hart

Year course; 2 credits each semester.

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.

220 ADVANCED HARMONY AND COUNTERPOINT

Mr. Hart

Year course; 2 credits each semester.

Oriental Studies

Professors Shao Chang Lee, M.A., Wing-tsit Chan, Ph.D., Shou-Yi Ch'en, Ph.D.; Assistant Professors Shunzo Sakamaki, Ph.D., Cheuk-Woon Taam, Ph.D.; Instructors Yukuo Uyehara, M.A., Tsuen-Kung Chang, M.A. Absent on leave 1940-41; Instructor Kenneth K. S. Ch'en, M.A.

CHINESE LANGUAGE, LITERATURE, AND HISTORY

100 FIRST-YEAR CHINESE

Mr. Chang

Year course; 3 credits each semester.

Study of 250 foundation characters each semester. Reading and construction of simple sentences, simple conversation, and translation.

- 100B FIRST-YEAR CHINESE FOR OCCIDENTAL STUDENTS Mr. Chang, Mr. Taam
Year course; 3 credits each semester.
Same as O.S. 100, but adapted to Occidental students.
- 101 SECOND-YEAR CHINESE Mr. Chang
Year course; 3 credits each semester.
Study of 250 additional foundation characters and idioms each semester. Reading, composition, conversation, and translation.
- 101B SECOND-YEAR CHINESE FOR OCCIDENTAL STUDENTS Mr. Chang, Mr. Taam
Year course; 3 credits each semester.
Same as O.S. 101, but adapted to Occidental students.
- 200 THIRD-YEAR CHINESE Mr. Chang
Year course; 3 credits each semester.
Reading of short stories, novels, and modern plays. Letter writing, composition, and translation.
- 221 CHINESE LITERATURE IN CHINESE Mr. Lee
Year course; 3 credits each semester.
Critical study of classical and modern masterpieces of prose and poetry. Prerequisite: O.S. 200 or equivalent.
- 241 ORIENTAL RELIGIONS Mr. Lee
Year course; 2 credits each semester.
Historical development of the religions of India, China, and Japan. Lectures, assigned readings, and temple tours.
- 250-251 CHINESE LITERATURE IN ENGLISH Mr. Lee
Year course; 2 credits each semester.
Critical study of Chinese prose and poetry in English translation. Lectures on development of Chinese literature. Assigned readings.
- 253 ORIENTAL ART Mr. Lee
Year course; 2 credits each semester.
The arts of different periods in India, China, Korea, and Japan. Illustrated lectures, assigned readings, and visits to Honolulu Academy of Arts.
- 263-264 CHINESE AESTHETICS Mr. Chan
Year course; 2 credits each semester.
Oriental philosophy expressed in art; theories of color and form, music and poetry, humor and taste, inspiration, Zen, harmony of man and nature, relation of art and ethics.
- 293 METHODS AND BIBLIOGRAPHY IN CHINESE STUDIES Mr. Taam
First semester only; 3 credits.
Designed to familiarize the student with the main fields of Chinese research in China and abroad, the special methods evolved, and the principal sources of bibliographical information. Prerequisite: junior standing.
- 300 ADVANCED READING AND RESEARCH Staff
Credit by arrangement.
- 302 SEMINAR IN CHINESE HISTORICAL LITERATURE IN CHINESE Mr. Lee
Year course; 2 credits each semester.
Prerequisite: consent of instructor.
- 400 THESIS RESEARCH Staff
Credit by arrangement.

OTHER COURSES

The following courses, ordinarily given in alternate years, will not be offered in 1940-41:

200B Third-Year Chinese for Occidental Students—Year course; 3 credits each semester.

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

268 Great Oriental Philosophers—First semester only; 2 credits.

269 Spirit of Oriental Philosophy—Second semester only; 2 credits.

281 Confucian Philosophy—Second semester only; 2 credits.

COURSES OF INSTRUCTION

- 282 Taoist Philosophy—Second semester only; 2 credits.
283 Buddhist Philosophy—First semester only; 2 credits.
291 Chinese Civilization—Year course; 2 credits each semester.
303 Seminar in Chinese Philosophy—Year course; 2 credits each semester.

JAPANESE LANGUAGE, LITERATURE AND HISTORY

- 102 **FIRST-YEAR JAPANESE** Mr. Uyehara
Year course; 3 credits each semester.
Reading and translation of Japanese language readers *Katakana, Hiragana* and simple Chinese characters. Dictation, composition, and oral exercises.
- 103 **SECOND-YEAR JAPANESE** Mr. Uyehara
Year course; 3 credits each semester.
Reading and translation of Japanese language readers, and the learning of more Chinese characters. Dictation, composition, and letter writing.
- 202 **THIRD-YEAR JAPANESE** Mr. Uyehara
Year course; 3 credits each semester.
Reading and translation of advanced Japanese language readers and modern literature. Exercises in Japanese-English and English-Japanese translations and essay writing.
- 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.
- 400 **THESIS RESEARCH** Staff
Credit by arrangement.

Philosophy

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

Associate 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 201.
- 253 **PROBLEMS OF PHILOSOPHY** Mr. Moore
Second semester only; 3 credits. (Alternate years.)
The great and persistent problems and types of philosophy, with special reference to contemporary discussion of those problems. Designed as a second course in philosophy. Prerequisite: one course in philosophy or consent of instructor.
- 262 **PHILOSOPHY OF EXPERIMENTALISM (PRAGMATISM)** Mr. Sayers
First semester only; 2 credits.
Experimentalism as a development of the pragmatism of Charles Peirce and William James; emphasis upon views of Dewey and George H. Mead. Prerequisite: senior standing or consent of department chairman.

270-271 EASTERN PHILOSOPHIES Mr. Chan
 Year course; 2 credits each semester.
 Fundamental philosophical movements of India, Persia, Arabia, China, and Japan—all treated as living philosophies. Basic course in Oriental philosophy.

275-276 PHILOSOPHY OF RELIGION Mr. Dunstan
 Year course; 3 credits each semester.
 Analysis of religious experience to show its basic element; emphasis upon the significance of this for a constructive philosophical position.

278 POLITICAL PHILOSOPHY Mr. Moore
 First semester only; 3 credits.
 Analysis and evaluation of great political philosophies, including those of Plato, Aristotle, Aquinas, Machiavelli, Hobbes, Locke, Rousseau, Hegel, Mill; also such types as Democracy, Pluralism, Fascism, Socialism, Communism.

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

285 EDUCATION INTEGRATION TOWARD A PHILOSOPHY OF LIFE Mr. Moore
 Second semester only; 3 credits.
 An attempt to coordinate various and even conflicting approaches to life and reality encountered by students in college, working toward more integrated viewpoint as basis of philosophy of life. Prerequisite: senior standing.

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

300 DIRECTED READING IN PHILOSOPHY Staff
 Year course; 2 credits each semester.
 Opportunity for advanced students to do special reading in the study of particular thinkers, periods, types, or problems.

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

400 THESIS RESEARCH Staff
 Credit by arrangement.

OTHER COURSES

The following courses, ordinarily given in alternate years, will not be offered in 1940-41:

261 Idealism as a Philosophy—Second semester only; 3 credits.

282 Taoist Philosophy—Second semester only; 2 credits.

Credit in philosophy is allowed for the following courses in other departments: Oriental Studies 263-264, Education 340, 345.

Related courses in other departments: Oriental Studies 241; Religion 261; History 251.

Physical and Health Education

Professors Walter S. Knox, Ph.D., Otto Klum, B.A.; *Assistant Professors* May K. Gay, M.A., Eugene Gill, B.S.; *Instructors* LaVerne M. Bennett, M.A., Thetis Bucklin, M.S., Theodore Searle, B.S., Thomas Kaulukukui, Ed.B., Sidney Llambias, B.A.; *Assistant* Ralph Yempuku, B.A.; *Lecturer* Theodore R. Rhea, C.P.H.

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,

COURSES OF INSTRUCTION

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 include the following (or equivalent in credits transferred from another college):

	For men	For women
1 semester of	P.E. 101 or 102 or 103	P.E. 132 or 133
aggregate of 3 semesters in	P.E. 100, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 121, 122, 123, 124, 125, 126, 127, 136, 150, 151, 152, 153	P.E. 130, 131, 135, 137, 140, 141, 150, 151, 152, 153

For juniors and seniors, physical education is optional.

Each service course yields one 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.

A one-dollar fee is charged for archery.

SERVICE COURSES

<i>Courses for men only</i>		
100	Tumbling	123 Advanced Varsity Baseball
101	Football, Speedball	124 Advanced Varsity Track
102	Basketball	125 Advanced Varsity Wrestling
103	Baseball, Volleyball	126 Advanced Varsity Tennis
104	Weight Lifting	127 Advanced Varsity Swimming
105	Light Work	136 Judo
106	Tennis	
107	Swimming	<i>Courses for women only</i>
108	Advanced Tumbling	130 Swimming
109	Advanced Swimming	131 Tennis
110	Advanced Tennis	132 Basketball, Hockey, Volleyball
111	Varsity Football	133 Soccer, Speedball, Baseball
112	Varsity Basketball	135 Bowling
113	Varsity Baseball	137 Rifle
114	Varsity Track	140 Advanced Swimming
115	Varsity Wrestling	141 Advanced Tennis
116	Varsity Tennis	<i>Courses for both men and women</i>
117	Varsity Swimming	150 Social Dancing
121	Advanced Varsity Football	151 Archery
122	Advanced Varsity Basketball	152 Clog and Tap Dancing
		153 Life Saving and Water Safety

PROFESSIONAL COURSES

Students in Teachers College desiring to major in physical education or students in the College of Arts and Sciences who wish to major in recreation select a minimum of 24 credits, as approved by the head of the department, from the following courses:

175	FIRST AID	Miss Bucklin
	First semester only; 1 credit.	
	Prevention and treatment; emergency care of accidental injury; special reference to school and playground; practical work in the use of bandage and splints.	
180	PERSONAL HYGIENE (women only)	Staff
	Year course; 1 credit each semester.	
	Emphasis upon scientific health information as a basis for hygienic living. Personal health problems.	
220-221	PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOL	Mrs. Bennett
	Year course; 2 credits each semester.	
	Methods, materials, and activities for the elementary grades. Three lecture and laboratory periods a week.	

PHYSICAL AND HEALTH EDUCATION

- 224 THEORY OF INDIVIDUAL ATHLETICS (women)** Miss Gay
 First semester only; 2 credits.
 Teaching technique in archery, badminton, bowling, golf, swimming, diving, tennis. One lecture, 2 laboratory periods a week.
- 226 SURVEY OF RHYTHMICS (women)** Miss Gay
 First semester only; 2 credits.
 Fundamentals of movement and rhythm basic to all types of the dance. Basic methods and materials in modern folk and tap dancing. Three lecture and laboratory periods a week.
- 232-233 ACTIVITY TEACHING TECHNIQUES (men)** Mr. Llambias
 Year course; 2 credits each semester.
 Theory and practice in teaching calisthenics, games of low organization, tumbling, gymnastics, pyramids. Techniques of group instruction in tennis, volleyball, speedball, swimming.
- 238 THEORY OF INDIVIDUAL GYMNASTICS** Staff
 First semester only; 2 credits.
 Principles and methods of corrective exercise. Organizing the program for the handicapped.
- 240 THEORY OF MAJOR SPORTS, FOOTBALL (men)** Mr. Klum
 First semester only; 2 credits.
 Theory and practice, offensive and defensive tactics, play in various positions, strategy and generalship.
- 241 THEORY OF MAJOR SPORTS, BASKETBALL (men)** Mr. Gill
 First semester only; 2 credits.
 Theory and practice. Fundamentals of offensive and defensive basketball, individual and team play.
- 242 THEORY OF MAJOR SPORTS, BASEBALL (men)** Mr. Gill
 Second semester only; 2 credits.
 Theory and practice in playing technique of various positions; offensive and defensive team play.
- 243 THEORY OF MAJOR SPORTS, TRACK (men)** Mr. Kaulukukui
 Second semester only; 2 credits.
 Theory and practice in each event in track and field; daily schedule of practice; team balance.
- 245 THEORY OF GROUP ATHLETICS (women)** Miss Gay
 Second semester only; 2 credits.
 Technique of play and organization of team sports for junior and senior high schools. One lecture, 2 laboratory periods a week.
- 252 PRINCIPLES OF PUBLIC HEALTH** Mr. Rhea
 Second semester only; 2 credits.
 Problems of public health: sanitation, the program of the local and federal agencies.
- 260 PHYSIOLOGY OF EXERCISE** Mrs. Bennett
 First semester only; 2 credits.
 Mechanics of muscular movement; fatigue; physiological value of various kinds of activity; effects of exercise on heart, lungs, etc.; training of athletes; children's need for activity.
- 270 COMMUNITY RECREATION** Mr. Knox
 Second semester only; 3 credits.
 Principles of organized play; the program, leadership in recreation, problems in organization, and supervision of community recreation.
- 280 ORGANIZATION AND ADMINISTRATION OF HEALTH AND PHYSICAL EDUCATION** Mr. Knox
 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.
- 281 PERSONAL HYGIENE** Mr. Knox
 First semester, 3 credits; repeated second semester.
 Fundamentals of personal health, preservation of health in the individual and the community. Special reference to problems of the college student. Open to men and women.
- 282 HISTORY AND PRINCIPLES OF PHYSICAL EDUCATION** Mr. Knox
 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.
- 356 PRINCIPLES OF SCHOOL HEALTH EDUCATION** Mrs. Bennett
 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. (Not open to students who took P.Ed. 256 in 1939-40.)

COURSES OF INSTRUCTION

Physics

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

Professor Eller, chairman

- 102 COLLEGE PHYSICS** Mr. Ballard and Assistants
Year course; 4 credits each semester.
Three lectures and one laboratory period a week. Prerequisites: Mathematics 149, or Mathematics 150 and 151, or equivalent. Laboratory fee \$4 a semester.
- 150 GENERAL PHYSICS** Mr. Miyake
First semester only; 4 credits.
Three lectures and one laboratory period a week. Prerequisite: credit or concurrent registration in Mathematics 106. Laboratory fee \$4.
- 151 GENERAL PHYSICS** Mr. Miyake
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. Prerequisite: Physics 150. Laboratory fee \$4.
- 153 ELEMENTARY RADIO** Mr. Miyake
First semester only; 3 credits.
Fundamentals of radio: theory, design, and construction of radio receiving and amplifying equipment. Two lectures and one laboratory period a week. Prerequisite: high school physics or equivalent. Laboratory fee \$4.
- 155 ELECTRICAL MACHINERY AND INSTRUMENTS** Mr. Eller
First semester only; 2 credits.
A nonmathematical treatment of principles of construction, operation, and use of direct and alternating current machinery and instruments.
- 157 RADIO** Mr. Miyake
Second semester only; 2 credits.
Continuation of Physics 153. More advanced radio theory and practice: theory, design, and construction of modern A. C. receiving sets and audio amplifiers. One lecture and one laboratory period a week. Prerequisite: Physics 153. Laboratory fee \$4.
- 202 ELECTRICAL ENGINEERING** Mr. Eller
Year course; 3 credits each semester.
Theory, construction, and operation of direct and alternating current electrical machinery equipment. Two lectures and one laboratory period a week. Prerequisite: Physics 152. Laboratory fee \$4 each semester.
- 253 ELECTRICAL MEASUREMENTS** Mr. Eller
Second semester only; 3 credits.
Electrical measuring instruments and circuits; their use in the measurement of the fundamental electric and magnetic quantities. One lecture and two laboratory periods a week. Prerequisite: Physics 152 or equivalent. Laboratory fee \$8.
- 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** Mr. Eller
First semester only; 3 credits.
Fundamental theory of electric and magnetic phenomena. Prerequisites: Physics 102 or equivalent; Mathematics 152-153 or equivalent.
- 280 MODERN PHYSICS** Mr. Ballard
Second semester only; 3 credits. (Alternate years.)
Selected topics such as radioactivity, cosmic rays, nuclear physics, the photoelectric effect, and relativity. Prerequisite: Physics 102 or equivalent.

- 355 SPECTROSCOPY Mr. Ballard
 First semester only; 3 credits. (Alternate years.)
 Spectroscopic instruments; theory and practice of spectrochemical analysis. Prerequisite: consent of instructor.
- 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 courses, ordinarily given in alternate years, will not be offered in 1940-41:

- 255 Light—First semester only; 3 credits.
 256 Optics Laboratory—First semester only; 1 credit.
 257 X-Ray—Second semester only; 2 credits.
 270 Heat—First semester only; 3 credits.

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

263 Theoretical Mechanics; 356 Theory of Spectra; 375 Advanced Electricity and Magnetism.

Political Science

Professor Paul S. Bachman, Ph.D.; Associate Professor Charles H. Hunter, Ph.D.; Instructor William E. Williamson, M.A.

Professor Bachman, chairman

- 150 AMERICAN GOVERNMENT AND POLITICS Mr. Hunter
 Second semester only; 3 credits.
 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
 First semester only; 3 credits.
 Survey of the governmental organization and politics of the states of Europe and of the Far East.
- 180 MUNICIPAL GOVERNMENT Mr. Williamson
 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. Williamson
 Second semester only; 3 credits.
 The function of city government: civil service, finance, city planning, zoning, police, fire protection, traffic, health, water, sewerage, public works, utilities, recreation.
- 195 POLICE ADMINISTRATION: ORGANIZATION Mr. Williamson
 Second semester only; 2 credits.
 Historical development of police systems; present day law enforcement problems; organization and functioning of the Honolulu police.
- 212 POLICE ADMINISTRATION: CRIME PREVENTION Mr. Williamson
 First semester only; 2 credits.
 Principal types of attack on the problem, community organization approach, educational attack, clinical methods, police activities, and work of recreational agencies.
- 213 POLICE ADMINISTRATION: CRIMINAL LAW Mr. Williamson
 First semester only; 2 credits.
 Elements of criminal law of importance to police officers.

COURSES OF INSTRUCTION

- 214 **POLICE ADMINISTRATION: EVIDENCE** Mr. Williamson
Second semester only; 2 credits.
The phases of the law of evidence of importance to police officers.
- 260 **INTERNATIONAL RELATIONS** Mr. Bachman
First semester only; 2 credits.
Economic nationalism, imperialism, policies of the great powers.
- 270 **GOVERNMENT OF HAWAII** Mr. Hunter
First semester only; 2 credits.
Survey of the organization and functions of the territorial, county, and city and county governments in Hawaii.
- 282 **PUBLIC ADMINISTRATION** Mr. Williamson
First semester only; 3 credits.
Relationship of administration to policy-forming agencies; organization of administrative staffs; centralization of responsibility.
- 283 **PUBLIC SERVICE** Mr. Williamson
Second semester only; 3 credits.
The recruitment, training, promotion, and control of government employees.
- 301 **SEMINAR IN FAR EASTERN INTERNATIONAL RELATIONS** Mr. Bachman
First semester only; 2 credits.
- 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 1940-41:

- 211 Police Administration: Criminology—First semester only; 2 credits.
256 American Political Parties—First semester only; 3 credits.
258 Conduct of American Foreign Relations—First semester only; 2 credits.
261 International Law—Second semester only; 3 credits.
262 Governments and Politics of the Far East—Second semester only; 2 credits.
320 Seminar in Public Administration—Year course, 2 credits each semester.

Portuguese

Professor Irving O. Pecker, B.A.; Instructor Norman P. Sacks, Ph.D.

Professor Pecker, chairman of Romance Languages department

- 100 **ELEMENTARY PORTUGUESE**
Year course; 3 credits each semester.
Grammar, phonetics, diction.
- 101 **INTERMEDIATE PORTUGUESE**
Year course; 3 credits each semester.
Advanced grammar, composition, and reading from selected modern authors.

Psychology

Professors Thayne M. Livesay, Ph.D., Stanley D. Porteus, D.Sc.; *Assistant Professors* Madorah E. Smith, Ph.D., Colin J. Herrick, Ph.D.; *Instructor* MacEldin Trawick, Ph.D.

Professor Livesay, chairman

- 150-151 **GENERAL PSYCHOLOGY** Mr. Livesay, Mr. Trawick
Year course; 3 credits each semester.
Introductory course surveying human behavior. Two lectures and one laboratory period a week.
Prerequisite: sophomore standing. Laboratory fee \$2 a semester.

- 250 **APPLIED PSYCHOLOGY (Formerly 151)** Mr. Livesay
 First 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.
- 252 **RACIAL PSYCHOLOGY** Mr. Porteus
 Second semester only; 2 credits.
 The nature and importance of racial differences; special reference to racial research in Hawaii. Prerequisite: Psychology 150 or equivalent.
- 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. Methods desirable in work with such children. Prerequisite: Psychology 150 or equivalent.
- 275 **SYSTEMATIC PSYCHOLOGY** Mr. Livesay
 Second semester only; 3 credits.
 The various systems of psychology: existentialism, functionalism, behaviorism, purposivism, and *Gestalt*. Prerequisite: Psychology 150 or equivalent.
- 280 **SOCIAL PSYCHOLOGY** Mr. Herrick
 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.
- 292 **MENTAL HYGIENE** Mr. Trawick
 First semester only; 3 credits.
 Conditions requisite to mental health and satisfactory social adjustment. Causes and means of prevention of maladjustments and neuroses. Prerequisite: Psychology 150 or equivalent.
- 295 **ABNORMAL PSYCHOLOGY** Mr. Trawick
 Second semester only; 3 credits.
 The nature and causes of the psychoneuroses and insanity; incipient abnormal traits manifested in everyday life. Psychotherapy. Prerequisite: Psychology 150 or equivalent.
- 300 **READING OR RESEARCH** Staff
 Credit by arrangement.
 Research or intensive reading in some field of psychology. Prerequisites: graduate standing and consent of department chairman.

Courses in other departments credited toward a major in psychology: Education 259, 260, Mathematics 280, 281, Philosophy 280, and Religion 260.

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.

* Resigned. Successor to be announced.

COURSES OF INSTRUCTION

- 162 TEACHING IN PUBLIC HEALTH NURSING** Miss Floyd
First semester only; 2 credits.
Basic principles underlying teaching and learning; selection and organization of materials used in health teaching; methods used with groups and individuals.
- 171 FIELD PROGRAM** Miss 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, prenatal and child health conferences, tuberculosis and other clinics, and social case work.

Religion

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

Professor J. Leslie Dunstan, Ph.D.; Lecturers George S. Meinzinger, M.A., Stephen G. Mark, M.A.

Professor Dunstan, director

- 150 INTRODUCTION TO THE STUDY OF RELIGION** Mr. Dunstan
First semester only; 3 credits.
The nature of religion and its relationship to other areas of life and thought.
- 151 PROBLEMS IN RELIGIOUS THOUGHT** Mr. Dunstan
Second semester only; 3 credits.
The ways in which religious faith has been undergirded by rational thought; emphasis upon modern developments.
- 200 OLD TESTAMENT SURVEY** Mr. Mark
First semester only; 2 credits.
The Old Testament from the literary and philosophical points of view. Emphasis on practical values of the book for life today.
- 201 NEW TESTAMENT SURVEY** Mr. Mark
Second semester only; 2 credits.
The New Testament from the literary and philosophical viewpoints. Emphasis on practical values for life today.
- 210 LIVES AND TEACHINGS OF THE OLD TESTAMENT PROPHETS** Mr. Dunstan
First semester only; 2 credits.
The thought of the five great prophets studied from the angle of their own historical situation and with consideration of the permanence of their message.
- 211 THE LIFE AND TEACHINGS OF JESUS** Mr. Dunstan
Second semester only; 2 credits.
The known teachings of Jesus; their philosophical and practical implications.
- 215 THE HISTORICAL DEVELOPMENT OF THE BIBLE** Mr. Dunstan
Second semester only; 2 credits.
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** Mr. Meinzinger
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** Mr. Dunstan
First semester only; 2 credits.
The origin, development, and major ideas of the great religions.

- 260 **THE PSYCHOLOGY OF RELIGION** Mr. Dunstan
 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** Mr. Dunstan
 Second semester only; 2 credits.
 Problems arising from the relationship between religion and ethics; modern thought on these problems.
- 270 **RELIGION AND ART** Mr. Mark
 First semester only; 2 credits.
 The way in which religious life and thought have found expression in art. Each student required to purchase a set of illustrative material costing \$4.
- 271 **RELIGION AND LITERATURE** Mr. Mark
 Second semester only; 2 credits.
 Interpretations of religion that have appeared in the literature of the English-speaking world.
- 275-276 **THE PHILOSOPHY OF RELIGION** Mr. Dunstan
 Year course; 3 credits each semester.
 (For description, see *Philosophy*)

Social Work Training

- 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 S. W. T. 300. More advanced techniques of social case work practice. Field work practice required of all students. Prerequisites: graduate standing and consent of instructor.

Sociology

(Faculty listed under *Anthropology and Sociology*)

- 150-151 **INTRODUCTION TO THE STUDY OF MAN** Mr. Bowles, Mr. Embree,
Mr. Hörmann
 (For description, see *Anthropology and Sociology*)
- 252 **THE COMMUNITY** Mr. Hörmann
 First semester only; 3 credits.
 An orientation to community problems. The nature, types, growth, and institutional bases of the community.
- 253 **RURAL SOCIOLOGY** Mr. Hörmann
 Second semester only; 3 credits.
 Organization of life in the rural environment. A comparative study of rural community types, with special reference to Hawaii. Field-trips to plantation and farm communities. Prerequisite: Sociology 252.
- 266 **SOCIAL INSTITUTIONS** Mr. Lind
 Second semester only; 3 credits.
 The natural history of institutions. An examination of the origin, structure, functions, growth, and decline of certain contemporary institutions. Prerequisite: Anthropology and Sociology 150-151.

COURSES OF INSTRUCTION

- 267 THE FAMILY** Mr. Lind
First semester only; 3 credits.
A comparative study of Occidental and Oriental family systems. Mating and marriage. Family structure and functions. Personality development in the family. Family tensions and disorganization. Prerequisite: Anthropology and Sociology 150-151.
- 268 HUMAN MIGRATIONS** Mr. Hörmann
First semester only; 3 credits.
Migration and civilization building. Factors affecting population movements in contemporary society. Nature and social consequences of American immigration. Analysis of immigrant autobiographies. Prerequisite: Anthropology and Sociology 150-151.
- 269 PERSONALITY AND CULTURE** Mr. Lind
Second semester only; 3 credits.
The origin and development of personality as the subjective aspect of culture. The function of communication. Human nature and the mores. Personal life organization and disorganization. Prerequisite: Anthropology and Sociology 150-151.
- 270 POPULATION AND SOCIETY** Mr. Hörmann
First semester only; 3 credits.
Society analyzed in terms of the quantitative and qualitative aspects of population. Sociological aspects of birth and death rates, natural increase, and mobility. Laboratory. Prerequisite: Anthropology and Sociology 150-151.
- 271 HUMAN ECOLOGY** Mr. Hörmann
Second semester only; 3 credits.
Basic concepts, principles and techniques of human ecology. Factors affecting distribution and movement of population, utilities, and social institutions. Prerequisite: Anthropology and Sociology 150-151.
- 272 COLLECTIVE BEHAVIOR** Mr. Lind
First semester only; 3 credits.
Forms and conditions of collective and concerted action. Social unrest. Social contagion. Mass movements, fads, crazes, and panics. Religious and nationalistic movements. Reform and revolution. Prerequisite: Anthropology and Sociology 150-151.
- 276 PRINCIPLES OF SOCIOLOGY** Mr. Hörmann
First semester only; 3 credits.
Major problems of the science, socialization of the individual, collective behavior, and natural history of collective groupings, types of groupings, culture, and social values. Prerequisite: Anthropology and Sociology 150-151.
- 290 INDEPENDENT STUDY AND HONORS** Staff
Credit by arrangement.
Prerequisite: consent of department chairman.
- 300 ADVANCED READING AND RESEARCH** Mr. Lind
Credit by arrangement.
Prerequisite: consent of instructor.
- 350-351 SEMINAR IN SOCIOLOGY** Mr. Lind
Year course; 2 credits each semester.
Open to senior and graduate students. Prerequisite: consent of instructor.
- 400 THESIS RESEARCH** Mr. Lind
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 1940-41:

- 170 Elementary Sociology—First semester only; 2 credits.
- 254 Urban Sociology—Second semester only; 3 credits.
- 255 Social Disorganization—Second semester only; 3 credits.
- 256 Race Relations in Hawaii—First semester only; 3 credits.
- 258 Race Relations in the Pacific—Second semester only; 3 credits.
- 274 Social Change—Second semester only; 3 credits.

Spanish

Professor Irving O. Pecker, B.A.; Instructors John Earl Aguiar, M.A., Norman P. Sacks, Ph.D.

Professor Pecker, chairman of Romance Languages department

- 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.
 Work of Galdos, Valera, Pereda, Ibanez, and others. Conversation and composition; review of grammar. Commercial correspondence.
- 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.
- 252 **MODERN SPANISH NOVEL** Mr. Aguiar
 First semester only; 2 credits.
 Rapid reading; advanced work in composition and conversation; review of grammar. Prerequisite: two years of college Spanish or equivalent.
- 253 **MODERN SPANISH DRAMA** Mr. Aguiar
 Second semester only; 2 credits.
 Rapid reading of modern Spanish plays; continued work in composition, diction, and conversation. Prerequisite: Spanish 252.

OTHER COURSES

The following courses, ordinarily given in alternate years, will not be offered in 1940-41:

250 Spanish Classics—First semester only; 2 credits.

251 Spanish Seminar—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 230. Laboratory fee of \$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: S.T. 201, 253.
- 252 **SUGAR MANUFACTURE** Mr. Elliott
 First semester only; 3 credits.
 Manufacture of sugar, with particular reference to Hawaiian principles and practice. Prerequisites: S.T. 201, 253.
- 253 **SUMMER FACTORY PRACTICE** Mr. Dillingham
 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: S.T. 201. Students ordinarily register for this course in second semester of junior year.

255 FIELD PRACTICE

Mr. Dillingham

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

Mr. Holmes

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 S.T. 201.

257 FACTORY PRACTICE

Mr. Dillingham

Second semester only; 16 credits.

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

Survey Courses

Professors Harold S. Palmer, Ph.D., Harold St. John, Ph.D.; *Instructor* Spencer W. Tinker, M.S.

100 A SURVEY OF THE NATURAL SCIENCES

Mr. Palmer

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. Admission for the second semester only by consent of instructor.

205 HAWAIIAN NATURAL HISTORY

Mr. Tinker

Second semester only; 2 credits.

Review of various fields of local natural science. Lectures and reading.

250 HISTORY OF SCIENCE

Mr. St. John

Second semester only; 2 credits.

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

Teacher Education

Professors Benjamin O. Wist, Ph.D., E. Vern Sayers, Ph.D.; *Associate Professors* Fred E. Armstrong, M.S., R. Ray Scott, Ph.D., Willis B. Coale, Ph.D., Jesse A. Tanner, Ph.D., John W. Coulter, Ph.D., Bruce White, Ph.D.; *Assistant Professors* Ida J. Caro, M.A., Madorah E. Smith, Ph.D., Stephen B. Jones, Ph.D., William T. Bryan, Ph.D., Ruth Douglass, M.S., Gaylord C. LeRoy, Ph.D., Willard Wilson, Ph.D.; *Instructors* George P. Gordon, M.A., Dorothy M. Kahananui, Ed.M., Elizabeth D. W. Brown, Ph.D., Ralph J. Wentworth-Rohr, Ed.M., Jessie Shaw Fisher, Ed.B., Cynthia B. Geiser, M.A., LaVerne M. Bennett, M.A., Carlos P. Hancey, Ed.M., Spencer W. Tinker, M.S., Gladys M. Traut, M.A., Della Z. Copp, M.A., Lorraine A. Freitas, M.A., Thetis Bucklin, M.S., Faith Snider; *Lecturers* Leslie E. Eichelberger, M.A., Lawrence Norrie, M.A., Frederick B. Forbes, B.A., Edna P. Reese, Helen C. Twitchell, B.A.

Professor Wist, chairman

The courses under this heading, together with some of those listed under *Physical and Health Education*, constitute the curriculum of Teachers College. Because of the professional nature of the Teachers College courses, registration in them is ordinarily restricted to Teachers College students. This restriction

does not apply to courses in *Physical and Health Education* numbered 100 to 199. Also, exception may be made for a student in another college who procures 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.

PROFESSIONAL EDUCATION COURSES

BASIC COURSES

100-101 ORIENTATION TO EDUCATION Mr. Wentworth-Rohr
 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 Mr. Scott, Mr. Gordon
 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 Mr. Scott,
Mr. Wentworth-Rohr

Year course; 3 credits each semester.

Nature, control, and modification, development, and neural basis of human behavior. Individual differences. Nature, conditions, and improvement of learning. Mind and its development.

ADVANCED COURSES

219 ADULT EDUCATION—The Art of Discussion Mr. Norrie
 First semester only; 2 credits.

Techniques of the conference method as an educational skill. Public forum, panel, committee, conference, informal group discussion. Individual practice in leadership. Demonstration.

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, 4 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: credit or concurrent registration in Home Economics 251.

254 PRACTICE TEACHING Miss Caro, Mr. Hancey, Mr. Tinker,
Miss Traut, Miss Copp, Miss Freitas,
Miss Bucklin, Mrs. Snider, Mrs. Geiser

First semester, 8 credits; repeated second semester.

Nine weeks of full-time teaching supervised by staff members of Teachers College Elementary and Intermediate School.

COURSES OF INSTRUCTION

- 259 CHILD PSYCHOLOGY** Miss Smith
First semester only; 2 credits.
Mental, social, and emotional development of the child from infancy to adolescence; interests and abilities at different age levels. Prerequisite: Psychology 150 or Education 180.
- 261 EDUCATIONAL MEASUREMENTS** Miss Smith
First semester, 2 credits; repeated second semester.
Use of informal and standardized tests in school work; practice in scoring such tests and interpreting the results. Nine weeks, 4 hours weekly.
- 262 PHILOSOPHY OF EXPERIMENTALISM** Mr. Sayers
(For description, see *Philosophy*.)
- 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, 4 hours weekly.
- 270 AGRICULTURAL PROJECT WORK** Mr. Armstrong
Second semester only; 3 credits.
The project as an educational device in agriculture; home projects; classroom correlation; plans, records, reports, and accounts.
- 271 PRINCIPLES OF VOCATIONAL EDUCATION** Mr. Armstrong
Second semester only; 3 credits.
Development of vocational education, with special reference to agriculture; organizations adapted to this type of work; organization for Hawaii.
- 272 TEACHING AGRICULTURAL RELATED SUBJECTS** Mr. Armstrong
First semester only; 3 credits.
Correlating general school subjects with vocational agriculture in Hawaii.
- 274 TEACHING VOCATIONAL AGRICULTURE** Mr. Armstrong
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** Mr. Armstrong
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.
Principal national programs of group work for youth. Democratic procedure in program building based on individual and group needs. Each student advises some group in school, church, or community.
- 293 COMPARATIVE EDUCATION** Mr. Gordon
First semester only; 2 credits.
Analysis of modern educational practices in countries of Europe and the Pacific area, emphasizing comparisons with the United States.
- 294 EDUCATIONAL SOCIOLOGY** Mr. Gordon
Second semester only; 2 credits.
Factors and situations within the contemporary school and community that influence man's behavior, studied in order to discover the conditions within which a better education may develop.
- 295 HISTORY OF EDUCATION IN THE UNITED STATES** Mr. 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, 4 hours weekly.

- 296 HISTORY OF EDUCATION IN HAWAII Mr. Gordon
 First semester only; 2 credits.
 Review of the socioeconomic influences that brought about an American public school system in Hawaii previous to annexation.
- 297 HAWAIIAN EDUCATIONAL HISTORY IN MODERN TIMES Mr. Gordon
 Second semester only; 2 credits.
 Events of the present century that have influenced education in Hawaii. Industry and immigration; Organic Act and legislation; secondary education; teacher preparation; higher education.

GRADUATE COURSES

- 300 READING OR RESEARCH Staff
 First semester, 1 to 3 credits; repeated second semester.
 Individual reading or research. Prerequisites: graduate standing and consent of dean of Teachers College and instructor concerned.
- 340 PHILOSOPHY OF EDUCATION Mr. Sayers
 First semester, 4 credits; repeated second semester.
 Philosophy and science in education; the American democratic social tradition; basic views of human behavior; improvement of life; reconstruction in education.
- 345 SEMINAR IN PHILOSOPHY OF EDUCATION Mr. Sayers
 Second semester only; 2 credits.
 Social and psychological theory involved in controversial educational issues. Prerequisites: Education 340 or equivalent and consent of instructor. May be repeated for credit if permission of instructor is obtained.
- 350 HISTORY OF EDUCATION Mr. Tanner
 First semester, 4 credits; repeated second semester.
 Development of educational thought and practice to present time, studied to determine origins of influence responsible for modern school systems.
- 351 ADVANCED EDUCATIONAL PSYCHOLOGY Mr. White
 First semester, 2 credits; repeated second semester.
 Application of experimental evidence in psychology to major educational problems. The bearing of recent psychological theories upon education.
- 354 INTERNE TEACHING Mr. Sayers, Mr. Bryan, Mr. Armstrong, Miss Douglass
 First semester, 14 credits; repeated second semester.
 Full-time teaching under special supervision in selected public schools. Restricted to fifth-year students.
- 363 SEMINAR IN EDUCATIONAL ADMINISTRATION Mr. Wist
 First semester only; 2 credits.
 Organization for public education; taxation; equalization; internal problems of school administration; personnel; pupil classification; records and reports. Restricted to administrators and prospective administrators. Prerequisite: consent of instructor.
- 365 THE SUPERVISION OF INSTRUCTION Mr. Wist
 Second semester only; 2 credits.
 A seminar of the supervisory 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.
- 371 EXPERIMENTAL CHILD STUDY Miss Smith
 Second semester only; 2 credits.
 Experimentation in child psychology. Prerequisite: consent of instructor.
- 376 SEMINAR IN VOCATIONAL EDUCATION Mr. Armstrong
 First semester only; 2 credits.
 Individual study of special problems in vocational education.
- 380 RESEARCH AND THESIS WRITING Mr. Tanner
 First semester, 2 credits; repeated second semester.
 Designed to assist students in thesis preparation. Research techniques and thesis development. Prerequisite: consent of instructor.
- 390 PUBLIC SCHOOL ADMINISTRATION Mr. Wist
 First semester, 2 credits; repeated second semester.
 State and territorial organization for administrative control of public education; federal relations; Hawaiian school law and department of public instruction regulations.

COURSES OF INSTRUCTION

395 SEMINAR FOR INTERNE TEACHERS

Mr. Sayers, Mr. Bryan,
Mr. Armstrong, Miss Douglass

First semester, 2 credits; repeated second semester.
Problems arising from immediate experiences as classroom teachers. Separate sections for elementary, secondary, and vocational education groups. Restricted to fifth-year students.

400 THESIS RESEARCH

Staff

Credit by arrangement.

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

RELATED COURSES

AGRICULTURE FOR TEACHERS

270 FARM PRACTICE

Mr. Armstrong

First semester, 2 credits; repeated second semester.

Acquisition of skills, under supervision, in animal husbandry, dairy husbandry, poultry, vegetables, fruits, and field crops.

271 SCHOOL AND HOME GARDENING

Mr. Armstrong

First semester, 1 credit; repeated second semester.

For prospective elementary school teachers. Designed to develop ability to conduct home and school gardens. Study of fertilizers, insect control, and plant propagation.

ARITHMETIC FOR TEACHERS

150 ARITHMETIC FOR TEACHERS

Miss Smith

Second semester only; 1 credit.

Required for admission to junior standing of all students below standard in arithmetical skill, as determined by a placement examination. Two recitation periods a week.

ART FOR TEACHERS

261 CREATIVE ART FOR THE PRIMARY YEARS

Mrs. Fisher

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

Mrs. Fisher

First semester only; 2 credits.

Similar to Art 261 but with emphasis upon the work of the upper elementary years. Limited to 30 students. Laboratory fee \$1.

263 CREATIVE ART FOR THE SECONDARY SCHOOL YEARS

Mrs. Fisher

First semester, 2 credits; repeated second semester.

Similar to Art 261 but with emphasis upon the work of the secondary school years. Limited to 30 students. Laboratory fee \$1.

BIOLOGY FOR TEACHERS

135 BIOLOGY

Mrs. Brown

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

Mrs. Brown

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.

ENGLISH FOR TEACHERS

152 INTRODUCTION TO LITERATURE

Mr. Coale, Mr. Wilson, Mr. LeRoy

Year course; 3 credits each semester.

Development of critical standards in literature. Knowledge of reading resources. Literature as an interpretation of life.

- 201-202 APPRECIATION OF CHILDREN'S LITERATURE Mrs. Twitchell
 Year course; 2 credits each semester.
 Methods of increasing the pleasure derived by children from books. Outstanding books for children considered.
- 290-291 ENGLISH IN THE ELEMENTARY SCHOOL Mr. Coale
 Year course; 3 credits each semester.
 Reading and the creative phases of expression. Problems of usage and speech, especially as found in Hawaii.
- 292-293 ENGLISH IN THE SECONDARY SCHOOL Mr. Coale
 Year course; 3 credits each semester.
 Teaching of English in the secondary school years. Reading and literature emphasized during first semester, language and composition during second semester.
- 294-295 LITERATURE FOR THE ELEMENTARY SCHOOL Mrs. Geiser
 First semester, 1 credit; repeated second semester.
 Literature suitable for children in grades one to six. First semester emphasis upon materials for primary years, second semester for upper elementary years.

GEOGRAPHY FOR TEACHERS

- 261 OCCUPATIONAL GEOGRAPHY Mr. Jones
 First semester, 3 credits; repeated second semester.
 Problems based upon occupational life of peoples of the world, from standpoint of adaptation to environment. Consideration of available sources of materials for elementary grades.
- 262 GEOGRAPHY OF HAWAII Mr. Coulter
 (For description, see *Geography*.)
- 263 GEOGRAPHY OF PACIFIC ISLANDS Mr. Coulter
 (For description, see *Geography*.)

LIBRARY SCIENCE FOR TEACHERS

- 200 SEMINAR IN LIBRARY METHODS Mrs. Geiser
 First semester, 2 credits; repeated second semester.
 Evaluation of library techniques as applied to school libraries; emphasis upon local problems. Prerequisite: consent of instructor.
- 260 LIBRARY OBSERVATION AND PARTICIPATION Mrs. Geiser
 First semester, 2 credits; repeated second semester.
 An orientation to library routine to help the student determine his aptitude for library work.
- 262 ORGANIZATION AND ADMINISTRATION OF SCHOOL LIBRARIES Mrs. Geiser
 Year course; 2 credits each semester.
 First semester emphasis upon essentials of school library organization, second semester upon relation of the library to the school program.
- 264 SCHOOL LIBRARY PRACTICE Mrs. Geiser
 First semester, 2 credits; repeated second semester.
 Students are assigned as assistants to librarians in selected public schools.
- 268 CATALOGUING AND CLASSIFICATION Mrs. Geiser
 First semester only; 2 credits.
 Principles of dictionary cataloguing; Dewey decimal classification; simple subject heading work; practice in cataloguing and classifying children's books.
- 280 BOOK SELECTION Mrs. Geiser
 Second semester only; 2 credits.
 Evaluation and choice of books for school libraries. Standard book selection aids examined. Reading of books from school lists.

MUSIC FOR TEACHERS

- 152-153 FUNDAMENTALS OF MUSIC Mrs. Kahananui
 Year course; 1 credit each semester.
 Music reading in unison and parts. Elementary theory and conducting. Melodic dictation.

COURSES OF INSTRUCTION

- 250 MUSIC FOR THE PRIMARY YEARS** Mrs. Kahananui
First semester only; 2 credits.
Music materials and procedures for the primary years. Prerequisite: Music 152-153.
- 251 MUSIC FOR THE UPPER ELEMENTARY YEARS** Mrs. Kahananui
Second semester only; 2 credits.
Music materials and procedures for the upper elementary years. Prerequisite: Music 152-153.
- 252 MUSIC IN THE SECONDARY SCHOOL** Mrs. Kahananui
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** Mrs. Kahananui
Second semester only; 2 credits.
Pre-Christian music. The Christian church and musical evolution. The rise of secular music in the West and its influence on musical evolution. Early classical music.
- 262 MUSIC HISTORY—CLASSICISM, ROMANTICISM** Mrs. Kahananui
First semester only; 2 credits.
The Viennese period. Nineteenth century romanticism as influenced by social evolution.
- 263 MUSIC HISTORY—TWENTIETH CENTURY** Mrs. Kahananui
Second semester only; 2 credits.
Nineteenth century nationalism and twentieth century modernism.
- 264 CHORAL CONDUCTING** Mrs. Kahananui
First semester only; 1 credit.
Organization and seating of choral groups. Use of the baton and hands in conducting. Selection of materials for amateur choral groups.
- 265 CONDUCTING INSTRUMENTAL GROUPS** Mr. Hancey
Second semester only; 1 credit.
Supervised practice in methods of teaching and conducting elementary instrumental groups. Opportunity to observe, assist, and conduct instrumental classes in Teachers College Intermediate School.
- 266 BAND** Mr. Hancey
First semester, 2 credits; repeated second semester.
Study of standard overtures, light concert, and military band music. Class gives concerts and provides music for military, athletic, and other campus functions.
- 268 BAND AND ORCHESTRA METHODS** Mr. Hancey
First semester only; 2 credits.
Instruments of the band and orchestra and methods of teaching. Each student taught to play simple forms of music on two instruments.
- 269 PROBLEMS OF THE INSTRUMENTAL MUSIC TEACHER** Mr. Hancey
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 FOR TEACHERS

(See page 85.)

SCOUT TRAINING FOR TEACHERS

- 240 BOY SCOUT TRAINING** Mr. Forbes
Second semester only; 2 credits.
Scout methods and materials. Introduction to scouting: Cub division; boy scouting and senior divisions; sea scouting; roving. Boy scout certificate issued upon completion of course.
- 283 GIRL SCOUT TRAINING** Miss Reese
Second semester only; 2 credits.
Tenderfoot, second-, and first-class badge requirements. Visits to girl scout troops and outdoor trips.

SOCIAL SCIENCE FOR TEACHERS

251 SOCIAL SCIENCE IN THE SECONDARY SCHOOL Mr. Gordon
 Second semester only; 2 credits.

To develop an acquaintance with objective types, sources, organization, and use of materials in the secondary school curriculum.

271 SOCIAL SCIENCE MATERIALS FOR CHILDREN Mr. Gordon
 First semester, 1 credit; repeated second semester.

Organizing social studies in the integrated program. Procedures adapted to nature of material and special subject-matter trends of individual interest.

274 VISUAL MATERIALS IN THE SOCIAL STUDIES Mr. Gordon
 First semester only; 2 credits.

Such aids as text illustrations, maps, news photographs, cartoons, museum collections, motion pictures, etc., evaluated in terms of their contribution to effective teaching.

Zoology

Professors Charles H. Edmondson, Ph.D., Walter Carter, Ph.D., Christopher J. Hamre, Ph.D.; *Associate Professors* Frederick G. Holdaway, Ph.D., Joseph E. Alicata, Ph.D.; *Assistant Professor* Milton A. Miller, Ph.D.; *Instructors* Jens M. Ostergaard, Elwood C. Zimmerman, B.S.; *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 work 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, 170, 173, 260, Agriculture 254, 12 credits in chemistry, 3 credits in physics, 12 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 \$5.

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.

COURSES OF INSTRUCTION

- 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 on the campus; 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. Zimmerman
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. Zimmerman
Second semester only; 2 credits.
Classification of insects. Practice in insect taxonomy. History of nomenclature. The international code. 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; practice 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** Mr. Miller
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** Mr. Edmondson
Second semester only; 3 credits.
The functions characteristic of the various systems of organs of the human body. Prerequisite: junior standing.
- 300 RESEARCH** Staff
Credit by arrangement.
Prerequisites: graduate standing and consent of department chairman.
- 310 ZOOLOGY SEMINAR** Staff
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** **Mr. Hamre**
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** **Mr. Holdaway**
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** **Mr. Holdaway and Staff**
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. Prerequisite: Zoology 173 and 352, or consent of instructor.
- 355-356 INSECT-TRANSMITTED DISEASES OF PLANTS** **Mr. Carter**
Year course; first semester, 3 credits; second semester, 1 credit.
 Lectures, laboratories, and assignments in first semester; current literature second semester.
- 362 MICROTECHNIQUE** **Mr. Hamre**
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** **Mr. Edmondson**
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** **Staff**
Credit by arrangement.
 Only graduate students engaged in the preparation of theses in zoology may register in this course.

DEGREES, DIPLOMAS, AND CERTIFICATES CONFERRED IN 1939

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

MASTER OF SCIENCE

- Man Hing Au, B.S., University of Hawaii, 1936. *Zoology*.
Paul Herbert Baldwin, A.B., University of California, 1936. *Zoology*.
Arthur R. Beach, E.E., Rensselaer Polytechnic Institute, 1930. *Physics*.
Lawrence Allen Boggs, B.S., University of Hawaii, 1938. *Chemistry*.
Bruce J. Cooil, B.S., State College of Washington, 1936. *Plant Physiology*.
Jefferson Clark Davis, B.S., North Carolina State College, 1928. *Physics*.
Walter Grimmett Hoge, A.B., Brigham Young University, 1936. *Bacteriology*.
Leonard Machlis, B.S., State College of Washington, 1937. *Plant Physiology*.
Martin Emmanuel Nelson, B.S., College of Puget Sound, 1937. *Physics*.
Shigeo Okubo, B.S., University of Hawaii, 1937. *Physics*.
Kamehameha Kun Lai Wong, B.S., University of Hawaii, 1937. *Zoology*.
Clayton Melvin Ziemann, B.A., University of Wisconsin, 1927. *Physics*.

MASTER OF ARTS

- *Helen Hanawalt Griggs, A.B., University of California, 1923. *Oriental Studies*.
Rosalie Leong Lee, B.A., University of Hawaii, 1932. *History*.
Gordon Beach Mainland, B.A., Stanford University, 1937. *Zoology*.
*Shizuko Morimoto, B.A., University of Hawaii, 1931. *Education*.
Stanley Orne, B.A., University of Washington, 1923. *English*.
John Ressler Shively, A.B., Otterbein College, 1933. *Oriental Studies*.
**Satoru Sugimura, LL.B., University of Meiji, 1938. *Oriental Studies*.

MASTER OF EDUCATION

- Charles B. Barrett, B.A., Hastings College, 1929.
Harriet Mae Black, B.E., Illinois State Normal, 1935.
Hubert Victor Everly, Ed.B., University of Hawaii, 1937.
*Earl Cyril Holmer, B.Ed., Wisconsin State Teachers College, 1930.
Helen Tilleman Jamieson, Ed.B., University of Hawaii, 1937.
Mitsuyuki Kido, B.A., University of Hawaii, 1928.
**Erwin L. S. Wong, Ed.B., University of Hawaii, 1936.

BACHELOR OF SCIENCE

IN AGRICULTURE

Hidesuke Akamine
Francis Ching Ako
Richard Yat Sen Auyong
Lammy Yung Lum Ching
George Ju Yin Chun

Kinji Kanazawa
Kaname Kataoka
Hisanobu Matsui
Toshiaki Matsushima
Wallace Chosei Miyasato
Daniel Duk Sung Moon

Kenneth Pui Yuen Quon
Douglas Saichi Sakamoto
Philip Wallington Won
Ah Lum Wong
Ah Tong Wong

IN CIVIL ENGINEERING

Rijo Hori
Bung Yuen Quon
Keith Cameron Reid
Jack Kazuma Taniyama
Tatsuki Yoshida

IN GENERAL SCIENCE

IN HOME ECONOMICS

*Hajime Akita
 Quon Chee Chun
 Louisa Kun Sil Chung
 Alice Emerson (*Honors in Chemistry*)
 **Conrad Tuck Onn Fong
 Kam Chong Hee
 Warren Sadayoshi Ikeda
 Edward Chang Yul Inn
 Sadamoto Iwashita (*Honors in Chemistry*)
 Kanemi Kanazawa
 Kikuo Kuramoto (*Honors in Chemistry*)
 Ethel Ululani Lucas (*Honors in Zoology*)
 Shichiro Moriguchi
 Yukio Nakao
 Robert Seiso Nekomoto
 Gordon Tokiyoshi Shigeura
 Ralph Gun Hoy Siu (*Honors in Chemistry*)
 *Robert Evans Stevenson
 **Denis Kiyoshi Teraoka
 Hannah Burbank Van Ingen
 Philip Wadsworth Weber, Jr.
 Richard You

Miriam Hahn
 Etta Kon Kin Ho
 Mitsue Komu
 Sadako Kutsunai
 **Dorothy Sui Ngan Lam
 *Rosamond Kam Lin Lau
 Leinaala Myra Lee
 Wai Kam Hee Luke
 **Edna Taye Matsumura
 Harriet Masako Nagata
 Dorothy Kikue Watanabe
 Aileen Oi Lin Wong
 Lily Lin Oi Wong
 Mabel Kam Hu Wong
 Myrtle Oi Tai Wong

IN SUGAR TECHNOLOGY

David Henderson Butchart
 Harry Sheh Yen Chu
 Peter Bayduro Kim
 Shiv Nandan Lal
 Ralph Hayato Okumoto
 *Russell Sampson Quaintance, Jr.
 Arthur Rex Smith
 Donald Look Yen Yee

BACHELOR OF ARTS

**Ben Asakura
 Norman Tai Chong Au Hoy
 Florence Williams Broadhurst
 James William Carey
 Dei Jing Chang
 Peter Hyi Chang, Jr.
 Hon Chung Chee
 Ch'eng Chiang
 Clarence Chuang Lai Chin
 Daniel Kui Fah Ching
 *Terence Ying Fong Ching
 Wah Chock Ching
 Kayo Ryong Chung
 Norman Chung
 **Alona Eugenia Collins
 Joseph DeSilva
 Joan Hester de Vis-Norton
 Minnie Mineko Fujita
 Einar Bügal Gerner
 Tin Seong Goo
 Frederic Charles Gray
 *Edward N. Hamaishi
 Richard Kenjiro Harada
 Warren Mills Haynes

Arline C. Henkle
 Cornelia Baird Hicks
 William Tsugio Hiraoka
 Matthew Chongho Hong
 Gregory Hiroto Ikeda
 Thomas Tsutomu Imada
 Bessie Miyeko Iwai
 Yoshio Iwamoto
 Mary Orme Johnson
 *Rita Thérèse Johnson
 Charles Summer Judy
 Kiyoshi Kaneshiro
 Margaret Stewart Kangeter
 Edwin Ichiro Kawahara
 Charles Harukichi Kimura
 Michio Kinoshita
 **Setsuko Kobayashi
 Victoria Tsuchiya Kobayashi
 **Anita Tsin Yun Kong
 Maryly La Follette
 Wallace Lai
 *Edward Kwai Sing Lau
 Henry Ung Yen Lee
 Koon Wah Lee

- Dorothy Lin Tai Leong
 Kam Man Leong
 William Yee Chung Lo
 Theodore Aiona Loo
 *Helen Luke
 Gladys Hong Lum
 Aiko Maeda
 Frank Marzano
 Beatrice Moi Mau
 Kathleen McCall
 Ethel Raynor McDonald
 Fumiye Miho
 Katsuso Miho
 **Frederick Noboru Miike
 Aiko Morimoto
 Matsue Motoki
 **Adeline Ruth Munro
 Kent Yoshinobu Nakamura
 Walter Mitsuo Nakano
 Yukiso Nitta
 Genevieve Kazu Obara
 Ichiro Okada
 Ruth Atsuko Okumura
 Masao Onishi
 Shigeru Oshiro
 John Ruxton Porteus
 **Samuel John Randall, Jr.
 **Wesley Henry Rickard
 Eva Anita Rodiek
 *Carol Henrietta Ross
 Kaname Saito
 Fumi Seki
 *Sung Dai Seu
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 **Libbie Marie Aweau Yong
 Harriet Tatsue Yoshida
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 Dorothy Wong Young
 Evangeline Wanda Zulawinski

FIVE-YEAR DIPLOMA

- **Eythel Yatsuko Abe
 Ethel Stewart Angco
 Elsie Katsuko Ikeda Carter
 Dorothy Yim Chang
 *Kim Young Ching
 Pearl Sau Pung Choy
 Elsie Koon Wah Chun
 Betty Wha Sook Chung
 Faith Siu Chung
 Nam Young Chung
 Edna Lucille Fernandes
 *Beatrice Jook Yee Fong
 Mabel Fong
 Mitsuo Fujishige
 Mitsuyoshi Fukuda
 Asakuma Goto

DEGREES CONFERRED IN 1939

- John Do Won Han
Blanche Aoe Hong
*Edith Kyung Sin Hong
May Kam Yau Ing
*Thelma Mitsuko Izutsu
Lei Dorothy Kamakaiwi
*Thomas Kaulukukui
Fred Haruo Kawamura
*Helen Hanako Kawano
Selma Koehler
Josefa Dorothea Ledesma
*Alice Wook Hee Lee
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Miyo Hee Nancy Lee
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*Ngan Sum Lum
Juanita Yuck Gin Lum-King
**Kazuo Maeda
Puarose Mahi
Tsuruyo Masuda
George Dung Loy Mau
*Donald McCluskey
**Albert Joseph McKinney
Phyllis Medeiros
Ella Wittrock Mendiola
- *Eleanor Ayako Miyake
*Kim Lan Ho Mossman
Walter Wha Inn Nahm
*Haruko Nishikawa
Lily Tsuyuko Okada
Itsuko Irene Okano
Barbara Fumiko Okazaki
John Edward Osmanski
**Elsie Tonayo Ozaki
**Rosalind Phillips
Hitoshi Sakai
Lily Doong How Shak
Futae Shimokawa
Shiho Shinoda
William Boyd Shook
*Dorothea Yee Soon
*Eleanor Tsz Oi Soong
Asako Kutsunai Suzuki
Doris Kimie Takeuchi
*Thelma Tenn
*Sumi Watanabe
Margaret Louise Whittington
*Charlotte Kui Lin Wong
*Elizabeth Wong
Minnie Ngan Hung Wong
*Sau Chun Wong
Sau Hoy Wong
*Douglas Shigeharu Yamamura
Ella Pil Soo Yang
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Gerda Beck
Yoshiko Burroughs
Hilda Ching
Phyllis Deacon
Helen de Harne
- Katharine Flory
Maye Gunnerud
Lillian Hicks
Mary Jean MacDonald
Esther Irene McClure
Sakae Sasaki

SUMMARY OF ENROLLMENT 1939-40

	<i>Degree Candidates</i>	<i>Graduate Students</i>	<i>Undergraduate Students</i>
Candidates for advanced degrees	134	134	
Candidates for five-year diplomas		94	
Other graduate students		277	
College of Arts and Sciences	950		950
Seniors	154		
Juniors	202		
Sophomores	240		
Freshmen	354		
College of Applied Science	594		604
Seniors	87		
Juniors	90		
Sophomores	176		
Freshmen	241		
Public health nurses	10		
Teachers College	393		393
Seniors	133		
Juniors	62		
Sophomores	100		
Freshmen	98		
Unclassified students			278
TOTALS	2071	505	2225
<hr/>			
Total undergraduate students			2225
Total graduate students			505
			<hr/> 2730
Less duplicates (February graduates who became graduate students)			<hr/> 27
GRAND TOTAL			<hr/> 2703
Noncredit students			<hr/> 180
			<hr/> 2883
<hr/>			
Summer sessions, 1939			1464

GEOGRAPHIC DISTRIBUTION OF ENROLLMENT

(Summer sessions and noncredit students excluded)

Oahu	1964	Kentucky	1	South Dakota	1
Hawaii	260	Maryland	1	Tennessee	1
Maui	172	Massachusetts	1	Texas	3
Kauai	143	Michigan	3	Vermont	1
Molokai	6	Minnesota	1	Virginia	1
Lanai	3	Missouri	3	Washington	4
Alabama	1	Montana	2	Wisconsin	4
Arizona	1	New Hampshire	1	Alaska	1
California	40	New Jersey	1	District of Columbia	1
Colorado	3	New Mexico	1	Samoa	1
Connecticut	3	New York	11	Bohemia	1
Florida	1	North Carolina	1	Canada	2
Idaho	1	North Dakota	2	China	9
Illinois	9	Ohio	4	Haiti	2
Indiana	1	Oklahoma	1	Ireland	1
Iowa	2	Oregon	8	Japan	4
Kansas	1	Pennsylvania	12	Thailand	1
TOTAL					<hr/> 2703

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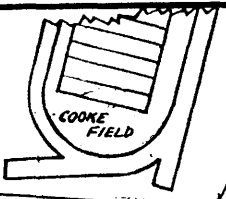
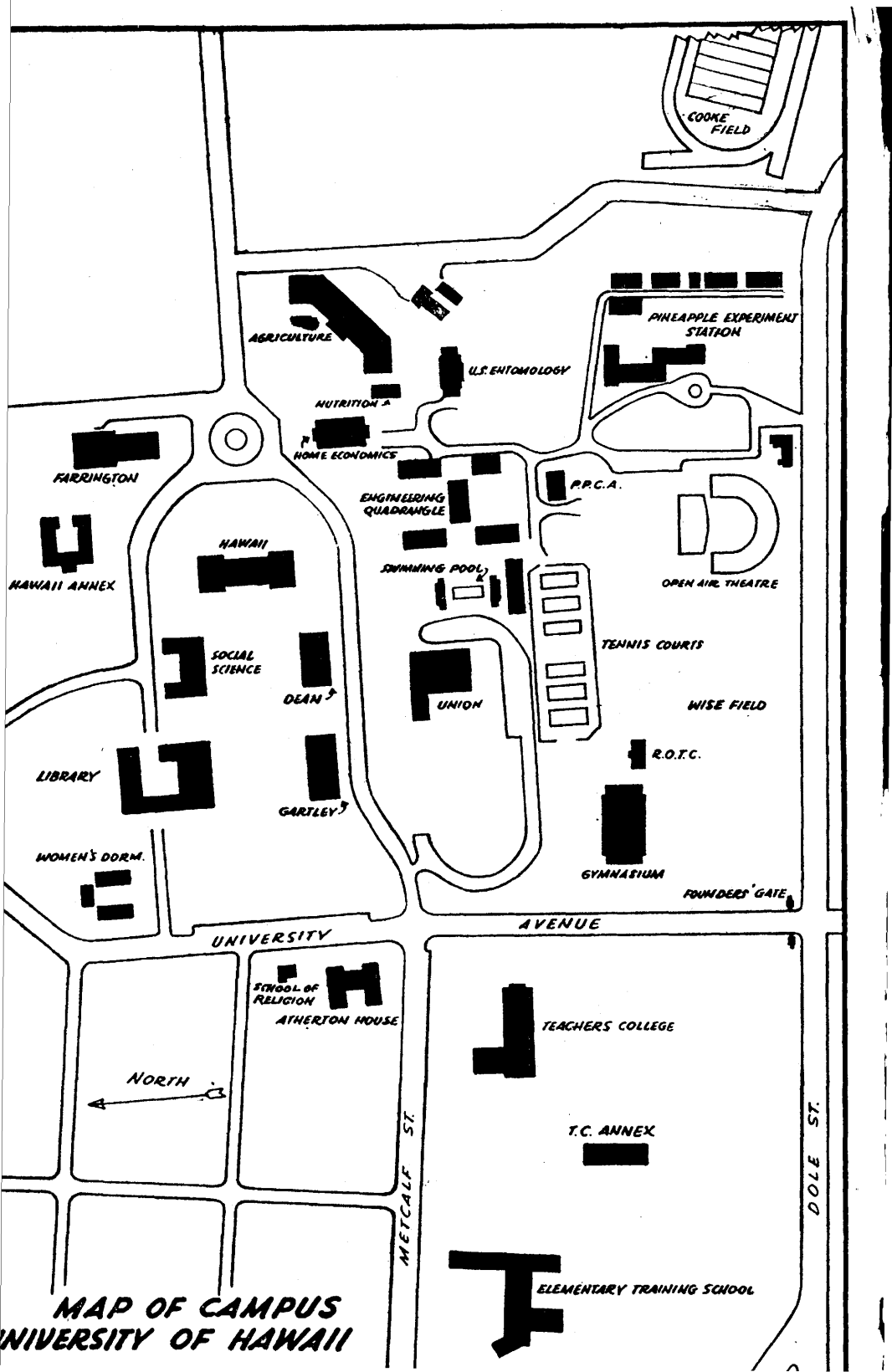
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U.S. ENTOMOLOGY



NUTRITION A

HOME ECONOMICS

P.P.C.A.

FARRINGTON

ENGINEERING QUADRANGLE

OPEN AIR THEATRE

HAWAII ANNEX

HAWAII

SWIMMING POOL &

TENNIS COURTS

SOCIAL SCIENCE

DEAN

UNION

WISE FIELD

LIBRARY

GARTLEY

R.O.T.C.

WOMEN'S DORM.

GYMNASIUM

FOUNDERS' GATE

UNIVERSITY AVENUE



TEACHERS COLLEGE

NORTH

T.C. ANNEX

METCALF ST.

DOLE ST.



MAP OF CAMPUS
UNIVERSITY OF HAWAII