GRADUATE SCHOOL ANNOUNCEMENT 1951-1953
UNIVERSITY CALENDAR

1951

Sept. 29, Saturday—8:00 A.M.—1:00 P.M.  Registration of Graduate Students
Oct. 1, Monday—2:30—5:00 P.M.  Instruction begins
Oct. 15, Monday  Last day of registration for new courses
Nov. 5, Monday  Last day of withdrawal from courses without penalty
Nov. 9, Friday  First deficiency reports due
Nov. 12, Monday  Holiday following Armistice Day
Nov. 21, Wednesday  Last day for removal of "Incomplete"
Nov. 22, Thursday  Thanksgiving Day (Holiday)
Dec. 14, Friday  Second deficiency reports due
Dec. 22, Saturday  Last day of instruction before Christmas recess

1952

Jan. 2, Wednesday  Last day to arrange final examination, first semester
Jan. 9, Wednesday  Last day of withdrawal from courses
Jan. 23, Wednesday  Last day of instruction, first semester
Jan. 24, Thursday  Final examinations begin
Jan. 30, Wednesday  Franklin Delano Roosevelt Day (Holiday)
Feb. 1, Friday  Last day to submit theses for library, first semester
Feb. 2, Saturday  First semester ends
Feb. 12, Tuesday  Lincoln Day (Holiday)
Feb. 16, Saturday—8:00 A.M.—1:00 P.M.  Registration of Graduate Students
Feb. 18, Monday—2:30—5:00 P.M.  Instruction begins
Feb. 22, Friday  Washington Day (Holiday)
Mar. 3, Monday  Last day of registration for new courses
Mar. 24, Monday  Last day of withdrawal from courses without penalty
Mar. 25, Tuesday  Charter Day
Mar. 26, Wednesday  Prince Kuhio Day (Holiday)
Mar. 28, Friday  First deficiency reports due
Apr. 10, Thursday  Last day for removal of "Incomplete"
Apr. 11, Friday, Apr. 12, Saturday  Easter recess

May 2, Friday  Second deficiency reports due
May 9, Friday  Last day to arrange final examination, second semester
May 19, Monday  Last day of withdrawal from courses
May 30, Friday  Memorial Day (Holiday)
May 31, Saturday  Last day of instruction, second semester
June 2, Monday  Final examinations begin
June 9, Monday  Last day to submit theses for library, second semester
June 10, Tuesday  Second semester ends
June 11, Wednesday  Kamehameha Day (Holiday)
June 15, Sunday  Baccalaureate Service
June 18, Wednesday  Commencement
June 20, Friday—8:00 A.M.—4:00 P.M.  Registration for the Summer Session
June 21, Saturday—8:00 A.M.—1:00 P.M.  Summer Session begins
June 23, Monday  Summer Session begins

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ADMINISTRATIVE OFFICERS

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GRADUATE STUDY
AT THE UNIVERSITY OF HAWAII

The University of Hawaii holds the distinction of being the only institution affording graduate training throughout the vast area of the Pacific extending from California to Japan and from Australia to Alaska. By virtue of its location at one of the major “crossroads of the Pacific,” with access to the rich resources for research in the Far East and in Oceania, the Graduate School of the University of Hawaii can offer special opportunities for advanced work in certain of the natural and social sciences. As the only American institution of higher learning within the entire Pacific rim, the University of Hawaii aims to provide not only the basic educational program leading to the bachelor’s degree but also the necessary professional and advanced training leading to the master’s degree in most of the basic arts and sciences.

The Territory of Hawaii is itself a notable example of the mingling of the peoples and cultures of the Orient, the Occident, and the South Pacific, and it provides unusually favorable conditions for the study of racial and cultural contacts and change. Hawaii’s relative proximity to the Trust Territory in Micronesia and to the other dependent areas of Oceania, as well as Hawaii’s own experience as an American territorial outpost, gives to the University special significance as a center for studies of the economic, social, and administrative problems of Pacific island peoples. For the teacher, missionary, administrator, journalist, or research worker whose interests lie in Pacific and Asiatic countries, the University affords an attractive locale in which to acquire the knowledge essential to the practice of his profession.

Hawaii’s large population of persons of Oriental ancestry and its contacts with the Orient have encouraged special attention at the University to the cultures and civilizations of the Far East. The University has one of the outstanding American collections of Orientalia, with a library of some 62,563 volumes in Chinese, Japanese, and Korean. Students also have access to the excellent Asiatic collection of the Honolulu Academy of Arts. Special facilities for the study of Oriental languages and for the translation of source materials are also available at the University.

Tropical agriculture and the associated basic sciences are additional areas in which Hawaii has special advantages to offer the graduate student. The highly technical character of sugar and pineapple production in the Islands has brought together a large and competent group of scientists in the biological and physical sciences. The University’s instructional personnel and laboratory equipment in these fields are supplemented by
the staffs and facilities of cooperating agricultural research institutions such as the Experiment Station of the Hawaiian Sugar Planters’ Association, the Pineapple Research Institute of Hawaii, the University of Hawaii Agricultural Experiment Station, and the Bernice P. Bishop Museum, with its extensive collections of Hawaiian and South Pacific plants and insects. Because of the concentration here of scientists and of exceptional research opportunities within these fields, the University has offered graduate work leading to the doctor of philosophy degree in sciences basic to tropical agriculture, including chemistry, entomology, genetics, and soil science.

The mid-Pacific location of Hawaii offers students of marine biology a natural laboratory for the study of tropical and subtropical marine life. Facilities at the Hawaii Marine Laboratory are available to graduate students. Scientists on the staff of the United States Fish and Wildlife Service Laboratory, located on the University campus, cooperate with the regular faculty in offering a graduate curriculum in marine zoology which now extends to the doctor of philosophy degree. Students trained in the University program are qualified to participate in the investigations of Pacific oceanic fisheries conducted by the federal government.

LIBRARIES AND RELATED INSTITUTIONS

The University Library contains approximately 213,000 bound volumes and 170,000 unbound parts and pamphlets and serves as a depository for government publications. Included in the Library are extensive collections of research materials relating to the Pacific and the Far East. Publications in Chinese, Japanese, and Russian are catalogued in English, and translation facilities are obtainable.

Other collections available to graduate students are the Library of Hawaii, a general public library in downtown Honolulu; the reference library on Pacific and especially Polynesian history and culture at the Bishop Museum; the Hawaiian Mission Children’s Library, with material on missionary activities in the Pacific; the Public Archives, emphasizing Hawaiian history; and libraries of the Hawaiian Sugar Planters’ Association and the Pineapple Research Institute of Hawaii, of special interest to students of tropical agriculture. In addition, the Hawaiian Volcano Observatory at Kilauea Crater has a collection of publications relating to volcanology and seismology. Efforts have been made by these libraries to avoid needless duplication in their respective collections.

Graduate students of the University, when properly qualified and sponsored by members of the University staff, may take advantage of the materials and facilities of research and scientific services directly affiliated
with the University. These include the Psychological and Psychopathic Clinic, which specializes in research on racial differences and in individual clinical examinations; the Legislative Reference Bureau, concerned with the study of current legislative and governmental problems; and the Hawaii Social Research Laboratory, with its emphasis on study of basic social trends, including race relations, in Hawaii.

The Hawaiian Sugar Planters' Association has assisted in the establishment on the University campus of the Agricultural Engineering Institute, which is designed to provide both instruction and research on problems relating to mechanized crop production.

Also situated on the campus and affording opportunities to qualified graduate students are the laboratories of the United States Bureau of Entomology for the study of fruit fly pests, and of the Pineapple Research Institute established for the scientific analysis of problems relating to the production of pineapples. Certain staff members of the United States Fish and Wildlife Service for Pacific Oceanic Fisheries Investigations, whose permanent headquarters are located on the University campus, cooperate with the faculty in zoology and entomology in offering advanced courses and in directing thesis research in marine zoology.

**GRADUATE STUDY IN THE SUMMER SESSIONS**

A six-week session from late June to early August affords opportunity for graduate work in the summer. Candidates for the master of education degree may find it possible to complete most of their requirements by attending summer sessions.

**ADMISSION**

Any student with a bachelor's degree or its equivalent from an accredited college or university (American or foreign) may apply to the Dean of the Graduate School for admission. Such application should be accompanied by an official transcript of undergraduate record and of any graduate work completed. Graduates of institutions other than the University of Hawaii may be requested in addition to supply the results of the Graduate Record Examination. Admission is provisional until such records are deposited with the Graduate School and they become a permanent part of the University file.

Admission to the Graduate School implies only permission to enroll in graduate courses for which the student's previous training has prepared him. Admission to candidacy for an advanced degree occurs only on the recommendation of a qualifying committee of the faculty after the student has enrolled at the University. Graduate students not inter-
ested in earning an advanced degree and those working for the professional certificate issued by the Territorial Department of Public Instruction need not meet the requirements for admission to candidacy.

The Graduate School reserves the right to deny at any time further registration to any student whose work is not of a grade sufficiently high to warrant continuation.

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.

REGISTRATION AND GRADES

Graduate students may not register for more than 16 credit hours in any semester or for more than 7 credit hours in a 6-week summer session. The number of credit hours which may be carried by student assistants is limited by the nature of their duties. Graduate assistants, whose duties to the University ordinarily require 20 hours per week, are restricted to 8 hours of course work with a maximum of 9 credit hours in exceptional cases. Courses taken by audit are included within the designated maximum.

Registration after the officially designated period in any semester is permitted only for valid reasons and within the following limits: (1) during the first six calendar days following the last official day of registration, with the written approval of the Dean; (2) from the seventh calendar day to the final date for late registration stated in the University Calendar, with the consent of the instructor and of the Dean. Subsequent to the announced deadline, registration is permitted only in individual reading or research courses or on an audit basis, and requires the consent of the Dean and the instructor.

Permission for change of registration must be obtained from the office of the Graduate School, and this application, bearing the proper signatures, must be deposited at the Registrar’s Office in order to complete the procedure. The form for withdrawal from the University is obtained at the Registrar’s Office, and it must also be returned to that office.

During the first five weeks of a semester a formal withdrawal is marked W on the student’s record. A withdrawal at a later date, but prior to the last two weeks of class instruction in 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). No withdrawals from individual courses are permitted during the last two weeks of instruction in a semester, although the Dean may permit complete withdrawal from the Uni-
versity for legitimate reasons. A student who ceases to attend a course without complying with the official procedure for withdrawing receives a failure in the course.

Courses numbered 300–399 are intended primarily for graduate students and carry grades of H (honors), S (satisfactory), or U (unsatisfactory). Graduate credit may also be earned in certain courses numbered 200–298 by meeting the specific requirements imposed by the instructor and by earning a grade of A or B. Graduate students enrolled in undergraduate courses are graded on the undergraduate scale of A to F. No credit is granted in thesis research courses (number 400 in each field) until the thesis has been accepted. Failure to make satisfactory progress on a thesis is not a basis for a valid claim to a refund of tuition fees.

Candidates for advanced degrees failing to complete successfully two or more courses taken after admission to candidacy are automatically dropped from candidacy.

**REQUIREMENTS FOR ADVANCED DEGREES**

*Admission to Candidacy.* Prospective candidates for any advanced degree should notify the office of the Graduate School of their intentions as soon as possible after becoming enrolled. The student will subsequently be notified of the time when he is to appear before the qualifying committee. No student will ordinarily be considered for admission to candidacy unless he can give evidence of an adequate background in his area of concentration and of a good undergraduate scholastic record with an average grade of B or better in the courses in his major field or in all courses taken during his last two years of undergraduate work. A student failing to meet these requirements may be permitted to continue in the Graduate School on a provisional basis with a view to removing the deficiencies. If the record of a semester or more at the graduate level is satisfactory, the qualifying committee may recommend to the Dean that the above rule be waived.

The specific functions of the qualifying conference are:

1. To determine by questioning and through an examination of the student's academic record whether his undergraduate background is adequate.

2. To indicate specific courses that appear to be essential either to meet inadequacies in the student's undergraduate preparation or to complete the requirements for the advanced degree.

3. To approve, in consultation with the candidate, the field and approximate title of his thesis research. This is not, however, a necessary
part of the qualifying conference and may be postponed until later if the student is not prepared to submit a proposal for a thesis.

THE MASTER'S DEGREE

The University awards the master's degree in arts, science, education, and social work, with specializations in the following fields: agriculture, anthropology, art, bacteriology, botany, chemistry, drama and theatre, economics and business, education, English, entomology, Far East studies, genetics, geography, government, history, nutrition, Pacific Islands studies, philosophy, physics, psychology, social work, sociology, speech, and zoology.

Residence. The minimum period of residence is one academic year (two semesters) or four six-week summer sessions. All credits applying toward the master's degree must be obtained within the seven years preceding the date on which the degree is granted. Exceptions to this rule may be made for students whose program of study was interrupted by military service. Candidates failing to obtain the degree within five years after admission to candidacy must again qualify for candidacy.

Advisers. Each student wishing to work for a master's degree is assigned a faculty adviser to assist in matters relating to the selection of courses and the completion of requirements for the degree. Prior to admission to candidacy, the adviser is ordinarily the chairman of the department or the director of the curriculum in which the student expects to concentrate. At the time of admission to candidacy, the student may be assigned a different adviser, usually the faculty member to direct his thesis research.

Course Work. Candidates for the master's degree are required to earn a total of 30 semester hours of graduate credit, of which 6 credits may be obtained in most fields for thesis research. A maximum of 12 hours may be allowed for thesis research in the natural and physical sciences.

At least six credits, exclusive of the thesis, must be earned in courses primarily for graduate students (numbered 300-399), and must include at least one seminar relating to the candidate's major field. A maximum of four semester hours in courses in directed reading and research, other than thesis research, may apply toward the master's degree. A course in methods of research and thesis writing is required in certain fields. Credit to a maximum of 18 semester hours may be earned in courses numbered 200 to 298, providing a grade of A or B is obtained. A reading knowledge of a foreign language is required in certain fields, and at the discre-
tion of the qualifying committee may be required of a candidate in any field.

Transfer of graduate credit from another institution to a maximum of eight semester hours may be granted on the recommendation of the chairman of the qualifying committee.

No extension course may be counted toward an advanced degree.

A candidate must be registered for the thesis research course (number 400) during the semester or summer session in which he expects to complete the work for the degree.

Examinations. Candidates for advanced degrees are expected to take all the regular examinations in courses for which they desire graduate credit.

All candidates admitted after September 1, 1950, are required to take a comprehensive examination in their fields of concentration. This examination is intended as a review of the fundamental principles of the field and as a test of the candidate's ability to apply them successfully to basic problems within the discipline. The content of the examination is determined by the graduate faculty within the department or discipline and it may be either written or oral, or both. Candidates are eligible to apply for the comprehensive examination after they have completed 9 to 12 hours of graduate work at the University of Hawaii, and arrangements should be made with the graduate adviser, who will notify the student and the Dean as to the outcome of the examination. Failure to pass the comprehensive examination after two trials will automatically drop the student from candidacy.

The office of the Graduate School should be notified at the beginning of the term or semester in which a candidate expects to receive his degree, and arrangement for the final examination should be made at least one month prior to the end of the term. The final oral examination, which is conducted by the thesis committee and is open to all faculty members, relates primarily to the thesis but may cover any fundamental knowledge essential to the research or to the conclusions reached. At the option of the thesis chairman, the oral examination on the thesis may be replaced by a presentation of the results of the thesis to a seminar or advanced course in the department.

The Thesis. A thesis is required of all candidates for the master's degree and should be selected within the field of the major. The thesis problem must be approved by the candidate's qualifying committee and by a committee of the Graduate Council, following which the candidate may register for the thesis research course (number 400 within each field). The thesis is to be prepared under the guidance of a faculty committee,
including one member from outside the candidate's major field. Although the candidate should look to the chairman of his thesis committee for primary direction regarding research methods and the presentation of results, all members should approve of the general plan as the student proceeds with the study. The thesis must be written in acceptable English and show evidence of ability to conduct research intelligently and to arrive at logical conclusions. Instructions on the form of the thesis may be obtained from the Dean of the Graduate School.

Copies of the completed manuscript must be submitted to the members of the thesis committee for final checking at least two weeks prior to the date of the final examination, and the original and first carbon copies of the thesis, signed by all members of the committee, must be deposited with the secretary of the Graduate School before the close of the term or semester in which the degree is conferred. At the same time, a summary or abstract of the thesis, in 400 to 500 words, must be filed at the office of the Graduate School.

THE DOCTOR OF PHILOSOPHY DEGREE

Work leading to the degree of doctor of philosophy is offered only in those fields in which the University, by virtue of its special facilities of teaching staff, library, and research equipment and its cooperative relations with other research institutions, can offer thorough advanced training. The program is designed to give the student a comprehensive and thorough command of a chosen field of knowledge and to train him in the methods of research and scholarship. The candidate must give evidence of distinguished scholastic attainments and must demonstrate the ability to conduct independent research and to make a worthy contribution to existing knowledge.

Doctoral candidates are accepted at present in the following fields: chemistry, entomology, genetics, soil science, and marine zoology. Other fields may be added as circumstances warrant.

Advisory Committee. Notice of intention to work toward the doctor's degree should be given on special forms provided at the office of the Graduate School as soon as possible after initial registration. A doctoral committee of not less than five members from the graduate faculty shall be appointed to determine the applicant's fitness and preparation for work leading to the Ph.D. in the field selected. The doctoral committee shall also assist in the preparation of a course of study, conduct the comprehensive and final examinations, and supervise and pass upon the dissertation.
Residence and Course Work. The minimum period of residence is six full semesters of graduate study or its equivalent. One year's credit toward the doctorate will be allowed for a master's degree provided it is approved by the student's doctoral committee. A student must complete at least one academic year of 30 hours of course work at the University of Hawaii beyond the master's degree.

Language Requirements. A reading knowledge of two foreign languages useful in the student's chosen field of specialization is required. The languages are selected by the mutual assent of the student, his doctoral committee, and the Dean of the Graduate School. The appropriate language department must certify to the student's ability to read the prescribed language. All foreign language requirements must be completed by the fourth semester of graduate work, and students delinquent in this respect will not be permitted to enroll for a full program of graduate work.

Examinations. In addition to the regular examinations in courses taken for graduate credit, candidates for the doctorate must pass an oral, or oral and written, comprehensive examination in the field of the major.

Arrangements for the final examination must be made at least one month in advance and it must be taken at least two weeks before the end of the semester. This examination is designed to test the candidate's ability to defend his thesis in the light of the generally recognized principles and the accepted body of knowledge within his major field. It shall be conducted by the candidate's doctoral committee and shall be open to all faculty members.

The Thesis. The student must present an acceptable thesis on some topic in the field of his major subject. The dissertation must give evidence of independent and original research and of scholarly analysis. It must also exhibit creditable literary workmanship and be suitable for publication.

The thesis shall be typewritten in approved form, and copies of the completed manuscript shall be filed with the doctoral committee chairman at least two weeks prior to the date of the final examination. After the thesis has been successfully defended in the final examination, two copies (the original and first carbon), both signed by the members of the doctoral committee, shall be presented to the office of the Graduate School for permanent deposit in the University Library. At the same time, an abstract of the thesis, not exceeding one thousand words in length and suitable for publication, shall be filed at the office of the Graduate School.
THE PROFESSIONAL TEACHER'S CERTIFICATE

The Department of Public Instruction of the Territory of Hawaii grants the professional teacher's certificate to teachers in the employ of the Department who, after receiving the bachelor of education degree or its equivalent, earn a total of 30 semester hours of credit, 10 of which must be earned in education courses primarily designed for graduate students (300 to 399) including Philosophy of Education and Advanced Educational Psychology (Education 340 and Psychology 351). For purposes of this certification, the bachelor of education equivalent is defined as a bachelor’s degree including 18 semester hours of credit in education courses and also including practice teaching under the supervision of an accredited teacher training institution.

SCHOOL OF SOCIAL WORK

The University of Hawaii offers a two-year program to men and women who wish to become trained social workers. The first year of graduate work is basic to all types of social work and the curriculum is planned to provide content which includes fundamental principles underlying all fields of practice in the profession. Students who satisfactorily complete the year (two semesters) are awarded a certificate in social work. The curriculum for the master of social work degree requires an additional year of graduate study (a total of four semesters).

Candidates must submit an application, a statement of their interest in the field of social work, and a transcript of any academic work taken at institutions other than the University of Hawaii. Notice of acceptance will be sent to successful candidates, and written corroboration of intention to register for the full year’s program is requested.

Admission of employed social workers to certain courses in the regular curriculum is permitted and encouraged in order to assist the social agencies of the community in their staff development programs. Admission to courses does not admit part-time students to the School of Social Work as candidates for the degree or certificate. If a part-time student desires at a later date to become a candidate for the degree or certificate, he must follow the regular procedure for admission. Not more than 12 semester hours completed while a part-time student may be applied toward the degree or certificate.

Admission to the School of Social Work requires, in addition to the usual eligibility to graduate standing at the University of Hawaii (see page 7), the following:

(1) A minimum of 30 hours of undergraduate social science, including six semester hours in each of the following areas: the nature
of social organization; motivations to behavior; the nature of our economic order; the structure and function of government. Applicants from the University of Hawaii are expected to have taken, as undergraduates, the course entitled The Field of Social Work.

(2) Evidence of personal qualifications that promise to make an applicant useful in social work.

Candidates for the certificate in social work must complete satisfactorily the basic curriculum (at least 28 semester hours of designated courses), of which 6 credits are in field work and represent 450 clock hours of supervised experience in a social agency. A written comprehensive examination covering the first year's work may be required for the certificate.

Candidates for the master of social work degree are required to complete a four-semester program (48 semester units), including at least 10 units of supervised field work (750 clock hours), and pass an oral comprehensive examination covering the two-year program and the thesis.

Detailed information regarding the requirements and program may be obtained by applying to the Director of the School of Social Work, University of Hawaii, Honolulu 14, Hawaii.

TUITION AND FEES

Tuition and registration fees for graduate students are the same as those for undergraduates. Students registered for 10 or more credit hours in any semester pay $100 for tuition and $10 for registration per semester. Students registered for fewer than 12 credit hours in any semester and all students in summer sessions pay $8.00 per credit hour. Laboratory fees, which are charged in many courses in the biological and physical sciences, vary with the individual course. Persons who register after the announced day of registration pay a fee of $1.00.

A fee of $2.00 is charged for each change in registration after the initial registration, unless such changes are due to reasons beyond the control of the student.

All recipients of advanced degrees are required to pay a diploma fee of $5.00 and an additional fee of $4.00 to cover the cost of binding two copies of their thesis.

LIVING ACCOMMODATIONS AND EXPENSES

Satisfactory housing accommodations are still at a premium in Honolulu, and prospective students are advised to make the necessary arrangements for lodging prior to their arrival in the city. At the present time
the University does not have facilities for housing graduate students. Veterans, eligible under the G. I. Bill of Rights, may apply to the Veterans' Adviser for admission to the quarters provided in former army barracks located on the campus. Moderately priced living accommodations in private homes near the University are sometimes available, and prospective students may find it advantageous to apply to the Housing Counselor, Office of Student Personnel, for such openings.

Meals, at reasonable prices, may be obtained at the University cafeteria, situated in Hemenway Hall on the campus.

Minimum expenses of the average student are estimated at $750 to $1,050 a year for board, room, tuition, registration, course fees, and books. These estimates do not cover the cost of clothing, laundry, and other personal necessities, or of recreation.

RECREATION

Abundant facilities are available both on the campus and in the community for recreation and stimulating social contacts. Hemenway Hall is the social center on the campus for both students and faculty, and in addition to the University cafeteria and bookstore, it provides lounging, club, and play rooms which are available to graduate students. Adjacent to Hemenway Hall are the outdoor swimming pool, tennis courts, and the University Gymnasium. A Graduate Students Club provides opportunities for social gatherings and intellectual stimulation across departmental lines. Interested graduate students may also avail themselves—largely without cost—of the rich facilities of the Honolulu community, including its beaches, parks, playgrounds, and cultural centers.

GRADUATE ASSISTANTSHIPS, SCHOLARSHIPS, AND FELLOWSHIPS

The University offers a number of assistantships to graduates of accredited institutions of higher learning who have scholastic records of distinction and an adequate undergraduate background in their major field. Graduate assistants serve as readers or part-time laboratory assistants and are expected to carry a limited program of graduate study toward the master's degree. They receive remuneration of $1,290 in twelve monthly installments and are exempt from all tuition and fees. The period of service is September 15 to June 15. Applications should be addressed to the Dean of Faculties and should be filed before April 15. Each application should be accompanied by a transcript of academic record, a photograph, and a letter of recommendation from a professor under whom the applicant has taken his major courses.
A limited number of tuition scholarships, having a value of $100 each, are available for graduate students from abroad. Application should be made to the Dean of the Graduate School.

Fish and Wildlife Service Fellowships. Through cooperative arrangements with the United States Fish and Wildlife Service, several fellowships are available to citizen students working toward advanced degrees in marine zoology and the sciences related to fisheries. Recipients of these fellowships are employed in part-time research significant to fisheries in the following fields: chemical, electrical, and mechanical engineering, chemistry, bacteriology, marine biology, oceanography, physiology, and economics. They receive remuneration at an annual rate of either $2,724.00 or $2,974.80, plus whatever cost-of-living allowance is currently in effect (20 per cent at present), calculated on a full-time basis, to be reduced proportionately for part-time employment. Maximum employment contemplated is half-time for nine months of the academic year, plus full-time for the remaining three months of the fellowship year. Tuition fees are waived. Applications should be addressed to the Chairman, Fish and Wildlife Service Fellowships Committee, University of Hawaii.
Castle and Cooke, Ltd., Research Assistantship in Horticulture. A $1,500 research assistantship in the Horticulture Department of the College of Agriculture for research into some phase of flowering and fruiting of macadamia nut has been granted by Castle and Cooke, Ltd., for the fiscal year 1951–52. The recipient is employed in part-time research which will also constitute a thesis problem. He is permitted to register for a maximum of 9 credit hours of course work each regular semester. During the summer months work is confined to the research and thesis problem. The master of science degree may be earned in a 12-month period of two semesters and a summer period. Application should be made to the head of the Horticulture Department of the College of Agriculture.
THE FIELDS OF GRADUATE STUDY
REQUIREMENTS AND COURSES

The courses listed here numbered 200 to 299 are open to both graduates and undergraduates. Courses numbered 300 and higher are primarily for graduates.

Credit from courses not listed here may be applied toward an advanced degree only if the permission of the Dean of the Graduate School is obtained.

Following each course description are the number of credits and the semester in which the course is given. Thus, (3) I indicates a 3-credit first-semester course; (3) II, a 3-credit second-semester course; (3) I and II, a 3-credit course repeated the second semester; (3–3) Yr., a 3-credit year course; (Ar.), that the credits are variable and must be arranged with the instructor; n. o., that the course is not offered; o., that the course is offered.

AGRICULTURE

ASSOCIATE PROFESSOR WILLIAM B. STOREY, Ph.D., Chairman; PROFESSORS JOHN H. BEAUMONT, Ph.D., CHARLES F. POOLE, Ph.D., G. DONALD SHERMAN, Ph.D., HAROLD A. WADSWORTH, B.S.; AGRICULTURAL ENGINEER RENE GUILLOU, M.S.; ASSOCIATE AGRONOMIST OTTO R. YOUNGE, Ph.D.; ASSISTANT PROFESSORS HARUUKI KAMEMOTO, Ph.D., DONALD C. McGUIRE, Ph.D., OSCAR ZOEBSCH, M.S.

The master's degree is offered in the fields of genetics, vegetable crops, and soil science. A student wishing to qualify for a master's degree in any other field of specialization in agriculture may do so if an adequate program can be arranged which will meet the approval of the Graduate Council.

REQUIREMENTS FOR ADMISSION TO CANDIDACY FOR THE ADVANCED DEGREES

Undergraduate preparation:

Genetics: Courses in general botany, general zoology, and principles of genetics and a minimum of 18 undergraduate credits in courses basic to horticulture—principally botany, chemistry, entomology, genetics, and college algebra.

Vegetable Crops: A minimum of 18 undergraduate credits in vegetable crops courses or courses basic to vegetable production—principally botany, chemistry, entomology, pathology, genetics, and soils.

Soil Science: A minimum of 18 undergraduate credits including credit in soil science, organic chemistry, quantitative chemistry, plant physiology, bacteriology, and physics.
THE GRADUATE PROGRAM

The following courses are required for each of designated fields of specialization:

**Genetics:** Agriculture 254, Principles of Genetics; Agriculture 262, Advanced Genetics; Agriculture 278, Principles of Plant Breeding; Agriculture 302, Genetics Seminar; Agriculture 312, Agricultural Applied Statistics; Zoology 276, Biometry; Zoology 277, Biometrical Analysis.

**Vegetable Crops:** Agriculture 209, Advanced Vegetable Crops; Agriculture 210, Systematic Vegetable Crops; Agriculture 304, Horticultural Seminar; Agriculture 312, Agricultural Applied Statistics.

**Soil Science:** Agriculture 301, Advanced Soil Technology; Agriculture 308, Soil Science Seminar.

**Agriculture**

209 Advanced Vegetable Crops (4-4) Yr. (Alternate years; o. 1951-52)
210 Systematic Vegetable Crops (3) II (Alternate years; n. o. 1951-52)
250 Soils (4) I
251 Principles of Genetics (3) I
256 Principles of Agronomy (3) II
262 Advanced Genetics (3) I (Alternate years; o. 1951-52)
267 Soil Analysis (3) II
268 Soil Diagnosis Laboratory (2) II
273 Principles of Floriculture (3) I
274 Commercial Flower Production (3) II (Alternate years; n. o. 1951-52)
278 Principles of Plant Breeding (3) I
281 Agricultural Machinery (3) I (n. o. 1951-52)
282 Advanced Agricultural Machinery (3) II
291 Irrigation Practice (3) II
300 Directed Reading and Research (Ar.) I and II
301 Advanced Soil Technology (3) I
302 Genetics Seminar (1) I and II
303 Advanced Soil Classification (Ar.)
304 Horticultural Seminar (1) I and II
308 Soil Science Seminar (1) II
312 Agricultural Applied Statistics (3) II
400 Thesis Research (Ar.) I and II

**ANTHROPOLOGY**

**ASSOCIATE PROFESSORS LEONARD E. MASON, M.A., Chairman, KENNETH P. EMMORY, Ph.D., KATHARINE LUOMALA, Ph.D.; ASSISTANT PROFESSORS SAMUEL H. ELBERT, Ph.D., SAUL H. RIESENBERG, Ph.D.**

**REQUIREMENTS FOR ADMISSION TO CANDIDACY FOR THE MASTER'S DEGREE**

(1) A minimum of 24 undergraduate credits in anthropology, of which 6 credits may be substituted from closely related fields with depart-
ment approval. In addition, introductory courses in geography, sociology, psychology, and zoology are recommended.

(2) A qualifying conference with departmental committee.

THE GRADUATE PROGRAM

Courses in the major to be selected from those listed below. Required courses are marked with an asterisk. A maximum of 6 credits may be earned in related courses in sociology, psychology, history, geography, economics, and government.

Anthropology

250 Hawaiian Culture (3) I (n. o. 1951–52)
251 Polynesians and Their Culture (3) I
252 Peoples of the Pacific (3) I
253 Micronesia in a Modern World (3) II
254 Peoples of Southern Asia (3) I
255 Peoples of Northern Asia (3) II
256 The American Indian (3) II (n. o. 1952–53)
257 Peoples of Africa (3) II (n. o. 1951–52)
265 Primitive Society (3) I (n. o. 1951–52)
266 Culture Conflict in Pacific Dependencies (3) II
267 Primitive Religion (3) II
268 Primitive Art (3) II
269 Folklore (3) I
270 Archeology (3) II
271 Anthropological Classics (3) I (n. o. 1952–53)
272 Economic Life of Primitive Peoples (3) II (n. o. 1951–52)
273 Physical Anthropology (3) II (n. o. 1952–53)
*300 Directed Reading or Research (Ar.) I and II
310 Seminar in Oceania (2) I (n. o. 1951–52)
311 Seminar in Applied Anthropology (2) I (n. o. 1952–53)
312 Techniques of Field Work (3) II (n. o. 1952–53)
*400 Thesis Research (Ar.) I and II

Linguistics

250 Introduction to Linguistics (3) I
251 Linguistic Analysis (3) II
260–261 Survey of Pacific Languages (3–3) Yr.

ART


The master's degree in art is available at present in the following areas: fine arts (drawing, painting, graphics), ceramics, and Chinese art. Other areas of specialization will be added from time to time as staff and facilities warrant.
REQUIREMENTS FOR ADMISSION TO CANDIDACY FOR THE MASTER'S DEGREE

(1) An undergraduate degree from an accredited institution with a major in art. Candidates planning to specialize in ceramics should have an adequate background in the history of art; a working knowledge of glaze calculations; a working knowledge of loading and firing kilns, including a fair background in kiln design and construction; reasonable competence in wheel throwing, ceramic sculpture, or creative work by casting, jiggering, or pressing. Candidates in painting should have an adequate background in the history of art; proficiency in the handling of one or more painting or drawing media; creative talent sufficient to justify graduate work. Candidates in history of art must have a working knowledge of the history of art in both East and West from the earliest times to the present, and must have a reading knowledge of French or German with an elementary knowledge of the other.

(2) A qualifying conference with departmental committee.

THE GRADUATE PROGRAM

Courses in the major field to be selected from those listed below. Courses marked with an asterisk are required of students specializing in ceramics. Courses marked with a dagger are required of those specializing in painting. Courses marked with a double dagger are required of those specializing in Chinese art. A maximum of 10 credits may be earned in certain advanced courses in anthropology, philosophy, history, classics, English, music, or other fields with the approval of the chairman of the candidate's committee. The thesis will be in two parts: a project or group of projects in the candidate's chosen creative field, and a written thesis supporting this presentation. In the case of history of art the written thesis may be presented either with or without illustrative studio work.

Art

†220 History of Far Eastern Art (3) I
†222 Indian and Indonesian Art (3) II (n. o. 1952-53)
†225 The Beginnings of Chinese Art (3) II
†227 Buddhist Art in the Far East (3) I (n. o. 1951-52)
†229 Chinese Painting (3) II (n. o. 1951-52)
†231 Applied Arts of China (3) I (n. o. 1952-53)
253 Contemporary Art (3) I
256 Advertising Art (2) I
257 Advertising Art (2) II
260 Advanced Ceramics (2) I and II
261 Ceramic Research and Design (2) I and II
265 Watercolor Painting (2) I
266 Graphic Arts (2) II

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268 Landscape Painting (2) II
269 Life Class (2) I and II
272 Illustration (2) II (n. o. 1951–52)
273 Design Materials (2) II
276 Advanced Weaving (2) I and II
280–281 Advanced Oil Painting (Still Life and Figure) (2–2) Yr.
†*300 Directed Work (Ar.) I and II (Drawing and Painting, Ceramics, or Far Eastern Art)
*360 Ceramic Design and Research (2) I and II
†380 Problems in Painting (2) I and II
†*390 Seminar in History and Criticism (2) I and II
†395 Seminar in Oriental Art (1) I and II
†*400 Thesis Research (Ar.) I and II

BACTERIOLOGY

ASSOCIATE PROFESSORS OSWALD A. BUSHNELL, Ph.D., Chairman, GEORGE W. CHU, Sc.D.; RESEARCH ASSOCIATE MAX LEVINE, Ph.D.

REQUIREMENTS FOR ADMISSION TO CANDIDACY FOR THE MASTER’S DEGREE

(1) A minimum of 18 undergraduate credits in bacteriology and in closely related biological science courses, including basic courses in bacteriology, chemistry, zoology, and botany. In addition, the following undergraduate courses are required: general chemistry, organic chemistry, college physics, and a modern foreign language.

(2) A qualifying conference with departmental committee.

THE GRADUATE PROGRAM

Courses in bacteriology to be selected from those listed below. In addition, the following related courses are required: biochemistry, mycology, parasitology, biometry, and preparation of scientific manuscripts. Other related courses recommended but not required are: plant pathology, agricultural chemistry, entomology, and general physiology.

Bacteriology

250 Economic Microbiology (3–3) Yr. (n. o. 1952–53)
260 Medical Bacteriology (3) I
262 Laboratory in Medical Bacteriology (2) I
264 Immunology (3) II
300 Directed Research (Ar.) I and II
310 Determinative Bacteriology (2) I and II (n. o. 1952–53)
312 Seminar in Microbiology (1) I and II
400 Thesis Research (Ar.) I and II

BOTANY

PROFESSOR HAROLD ST. JOHN, Ph.D., Chairman; ASSOCIATE PROFESSORS MAXWELL S. DOTY, Ph.D., MARION L. LOHMAN, Ph.D.; ASSISTANT PROFESSOR EDWARD J. BRITEN, Ph.D.
REQUIREMENTS FOR ADMISSION TO CANDIDACY FOR THE MASTER'S DEGREE

(1) A minimum of 18 undergraduate credits in botany, including courses in cryptogams, physiology, taxonomy, and anatomy or morphology. A course in bacteriology and one in inorganic chemistry are also required.

(2) A qualifying conference with departmental committee.

THE GRADUATE PROGRAM

Courses in the major field to be selected from those listed below. Required courses are marked with an asterisk. A maximum of 6 credits may be earned in advanced courses in agriculture, anthropology, bacteriology, chemistry, geology, physics, and zoology. A knowledge of German, French, or Latin may be required. All candidates for the master's degree will be expected to enroll in the graduate seminar.

Botany

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>201</td>
<td>Systematic Botany of Flowering Plants (3)</td>
<td></td>
<td>I</td>
</tr>
<tr>
<td>202</td>
<td>Taxonomy and Exploration (3)</td>
<td></td>
<td>II</td>
</tr>
<tr>
<td>230</td>
<td>Phycology (3)</td>
<td></td>
<td>I</td>
</tr>
<tr>
<td>253</td>
<td>Plant Ecology (4)</td>
<td></td>
<td>II</td>
</tr>
<tr>
<td>254</td>
<td>Advanced Taxonomy (1)</td>
<td></td>
<td>I</td>
</tr>
<tr>
<td>259</td>
<td>Mycology (3)</td>
<td></td>
<td>I (o. 1951-52)</td>
</tr>
<tr>
<td>262</td>
<td>Structure of Economic Plants (3)</td>
<td></td>
<td>II (o. 1951-52)</td>
</tr>
<tr>
<td>263</td>
<td>Plant Pathology (3)</td>
<td></td>
<td>II (Alternate years; o. 1951-52)</td>
</tr>
<tr>
<td>264</td>
<td>Plant Pathology Technique (3)</td>
<td></td>
<td>II (Alternate years; n. o. 1951-52)</td>
</tr>
<tr>
<td>265</td>
<td>Plant Microtechnique (3)</td>
<td></td>
<td>I (Alternate years; o. 1951-52)</td>
</tr>
<tr>
<td>269</td>
<td>Plant Anatomy (3)</td>
<td></td>
<td>I (Alternate years; n. o. 1951-52)</td>
</tr>
<tr>
<td>279</td>
<td>Morphology of Cryptogamic Plants (3)</td>
<td></td>
<td>I (Alternate years; o. 1951-52)</td>
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<td>281</td>
<td>Cytology (3)</td>
<td></td>
<td>I (Alternate years; n. o. 1951-52)</td>
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<tr>
<td>282</td>
<td>Biological Photography (3)</td>
<td></td>
<td>II</td>
</tr>
<tr>
<td>300</td>
<td>Botanical Research (Ar.)</td>
<td></td>
<td>I and II</td>
</tr>
<tr>
<td>*310</td>
<td>Botanical Seminar (1)</td>
<td></td>
<td>I and II</td>
</tr>
<tr>
<td>312</td>
<td>Advanced Botanical Problems (Ar.)</td>
<td></td>
<td>I and II</td>
</tr>
<tr>
<td>351</td>
<td>Plant Physiology Seminar (1)</td>
<td></td>
<td>I</td>
</tr>
<tr>
<td>358</td>
<td>Advanced Mycology (3)</td>
<td></td>
<td>I (n. o. 1951-52)</td>
</tr>
<tr>
<td>365</td>
<td>Taxonomy of the Dicotyledons (1)</td>
<td></td>
<td>II (Alternate years; o. 1951-52)</td>
</tr>
<tr>
<td>367</td>
<td>Taxonomy of the Higher Dicotyledons (1)</td>
<td></td>
<td>II (Alternate years; n. o. 1951-52)</td>
</tr>
<tr>
<td>373</td>
<td>Advanced Plant Physiology-Biophysics (3)</td>
<td></td>
<td>I (Alternate years; n. o. 1951-52)</td>
</tr>
<tr>
<td>374</td>
<td>Laboratory Technique in Biophysics (2)</td>
<td></td>
<td>I (Alternate years; n. o. 1951-52)</td>
</tr>
<tr>
<td>375</td>
<td>Advanced Plant Physiology-Biochemistry (3)</td>
<td></td>
<td>II (Alternate years; o. 1951-52)</td>
</tr>
<tr>
<td>376</td>
<td>Laboratory Technique in Biochemistry (2)</td>
<td></td>
<td>II (Alternate years; o. 1951-52)</td>
</tr>
<tr>
<td>378</td>
<td>Nomenclature (2)</td>
<td></td>
<td>I (Alternate years; o. 1951-52)</td>
</tr>
<tr>
<td>379</td>
<td>Plant Disease Literature (1)</td>
<td></td>
<td>I</td>
</tr>
<tr>
<td>380</td>
<td>Cytogenetics (3)</td>
<td></td>
<td>I</td>
</tr>
<tr>
<td>*400</td>
<td>Thesis Research (Ar.)</td>
<td></td>
<td>I and II</td>
</tr>
</tbody>
</table>

24
CHEMISTRY

Professor Leonora N. Bilger, Ph.D., Chairman; Visiting Professor Horace G. Deming, Ph.D.; Professor Earl M. Bilger, Ph.D.; Associate Professors John J. Naughton, Ph.D., Elbert G. Smith, Ph.D.; Assistant Professors Paul F. Scheuer, Ph.D., Carl Weatherbee, Ph.D., Harry Zeitlin, Ph.D.

Requirements for Admission to Candidacy for the Master's Degree

A minimum of 36 undergraduate credits in chemistry, including courses in general chemistry, organic chemistry, qualitative analysis, quantitative analysis, and physical chemistry. Students whose undergraduate major in chemistry did not require physical chemistry may take this course on the graduate level.

The Graduate Program

Courses in the major field to be selected from the list below. Research and course emphases may be laid in the direction of biochemistry, phyto- and zoo-, or of physical chemistry. The latter requires mathematics through calculus.

Chemistry

236 Agricultural Chemistry (3) II
238 Advanced Inorganic Chemistry (3) I
246 Industrial Chemistry (4) I
249 Advanced Organic Chemistry (4) I
250 Organic Analysis (4) II
255 Physical Chemistry (4-4) Yr.
266 Advanced Biochemistry (4) II
271 Colloidal Chemistry (3) I
281 History of Chemistry (3) I
295 Chemical Literature (2) I and II
300 Directed Research (Ar.) I and II
338 Atomic Structure and Nuclear Chemistry (3) II
349 Special Topics in Advanced Organic Chemistry (2-2) Yr.
355 Theoretical Organic Chemistry (3) II
358 Chemical Thermodynamics (3) II
360 Seminar (1-1) Yr.
375 Instrumental Chemistry (2-2) Yr.
400 Thesis Research (Ar.) I and II

Drama and Theatre

Associate Professors Joel Trapido, Ph.D., Acting Chairman, Earle Ernst, Ph.D. (on leave 1951-52), Richard Moody, Ph.D.; Instructor Lucie F. Bentley, M.A.

Requirements for Admission to Candidacy for the Master's Degree

An undergraduate training in the humanities, preferably in English, other languages and literatures, art, music, theatre, or speech. Ordinarily,
at least 30 credits should have been earned in these fields. In addition, work in philosophy, psychology, history, and sociology is desirable; to a limited extent, work in such fields may be offered in place of work in the fields first mentioned.

THE GRADUATE PROGRAM

Courses to be selected from those listed below. A total of at least 6 credits must be taken from Drama and Theatre 220–221, 230–231, 240, and 245, and 6 from 250, 260, and 265. Other requirements are marked with an asterisk.

*Drama and Theatre*

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Year(s)</th>
</tr>
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<tbody>
<tr>
<td>220–221 Acting</td>
<td>3–3</td>
<td>Yr.</td>
</tr>
<tr>
<td>230–231 Direction</td>
<td>3–3</td>
<td>Yr.</td>
</tr>
<tr>
<td>240 Stagecraft</td>
<td>3</td>
<td>I</td>
</tr>
<tr>
<td>245 Stage Lighting II</td>
<td>3</td>
<td>II</td>
</tr>
<tr>
<td>250 History of the Theatre I</td>
<td>3</td>
<td>(Alternate years; n. o. 1951–52)</td>
</tr>
<tr>
<td>260 Modern Theories of Stage Presentation I</td>
<td>3</td>
<td>I (Alternate years; o. 1951–52)</td>
</tr>
<tr>
<td>265 Aesthetics of the Theatre II</td>
<td>3</td>
<td>II</td>
</tr>
<tr>
<td>300 Directed Work (Ar.) I</td>
<td></td>
<td>I and II</td>
</tr>
<tr>
<td>*320 Seminar in Drama and Theatre II</td>
<td>3</td>
<td>II</td>
</tr>
<tr>
<td>*400 Thesis Research (Ar.) I</td>
<td></td>
<td>I and II</td>
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</table>

*Speech*

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Year(s)</th>
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<tbody>
<tr>
<td>220 Phonetics</td>
<td>3</td>
<td>I</td>
</tr>
<tr>
<td>232 Advanced Interpretation</td>
<td>3</td>
<td>II</td>
</tr>
<tr>
<td>271 Radio Production</td>
<td>3</td>
<td>II</td>
</tr>
<tr>
<td>279 Advanced Radio Writing</td>
<td>3</td>
<td>II</td>
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*English*

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Year(s)</th>
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<tbody>
<tr>
<td>216 Playwriting</td>
<td>3</td>
<td>II</td>
</tr>
<tr>
<td>274 The English Drama to 1642 I</td>
<td>3</td>
<td>I (Alternate years; o. 1951–52)</td>
</tr>
<tr>
<td>276–277 Shakespeare</td>
<td>3–3</td>
<td>Yr.</td>
</tr>
<tr>
<td>287 Modern Dramatic Literature</td>
<td>3–3</td>
<td>Yr.</td>
</tr>
</tbody>
</table>

*Japanese*

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Year(s)</th>
</tr>
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<tbody>
<tr>
<td>260 Japanese Literature in English</td>
<td>2–2</td>
<td>Yr.</td>
</tr>
</tbody>
</table>

*French*

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Year(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>250 Classic Drama</td>
<td>2–2</td>
<td>Yr.</td>
</tr>
</tbody>
</table>

*Spanish*

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Year(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>253 Modern Spanish Drama</td>
<td>2</td>
<td>II</td>
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</tbody>
</table>

*Classics*

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Year(s)</th>
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</thead>
<tbody>
<tr>
<td>260 Classical Literature</td>
<td>3</td>
<td>I</td>
</tr>
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*Art*

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Year(s)</th>
</tr>
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<tbody>
<tr>
<td>220 History of Far Eastern Art</td>
<td>3</td>
<td>I</td>
</tr>
<tr>
<td>250–251 History of Western Art</td>
<td>3–3</td>
<td>Yr.</td>
</tr>
</tbody>
</table>
Anthropology
268 Primitive Art (3) II

Sociology
269 Personality and Culture (3) I

Psychology
283 Psychology of Personality (3) II

Philosophy
262 Philosophy of Art (3) II

ECONOMICS AND BUSINESS


REQUIREMENTS FOR ADMISSION TO CANDIDACY FOR THE MASTER'S DEGREE IN EITHER ECONOMICS OR BUSINESS

A minimum of 24 undergraduate credits in economics and business, including elementary principles, money and banking, and either business statistics or elementary accounting.

THE GRADUATE PROGRAM

The major field to be either economics or business. Courses to be selected with the approval of the adviser (prior to admission to candidacy, the department chairman; thereafter, the qualifying committee) from courses listed below. Required courses in each field are marked with an asterisk. With the consent of the adviser: (a) economics majors may select one or more business courses and business majors may select one or more economics courses; (b) majors in either field may select, in addition, courses in other closely related fields up to a maximum of six credit hours.

Economics
225 American Economic Institutions (3) II (n. o. 1951-52)
261 Public Finance (3) I and II
262 Tax System of Hawaii (3) (n. o. 1951-52)
263 International Finance (3) II
265 Government and Business (3) I
266 Fiscal Policy and Management (3) (n. o. 1951-52)
270 Public Utilities (3) I
273 Ocean Transportation (n. o. 1951-52)
281 Labor Problems (3) I
282 American Trade Unionism (3) I
283 Labor Legislation (3) I
285 International Trade (3) I
287 Public Relations (3) (n. o. 1951-52)
288 Government Labor Policy (3) (n. o. 1951-52)
289 Arbitration of Grievances (3) II
291 Agricultural Economics (3) I and II
292 Land Economics (3) I
293 Social Security (3) (n. o. 1951-52)
294 Research in Industrial Relations (3) II
296 History of Economic Thought (3) II
300 Directed Reading or Research (Ar.) I and II
310 Seminar in Labor Problems (3) I
315 Seminar in Economic Problems (3) I (n. o. 1951-52)
*400 Thesis Research (Ar.) I and II

Business

210 Elements of Industrial Relations (3) I
230 Industrial Safety and Health (2) II
240 Principles of Insurance (3) II
245 Time and Motion Study (3) I
248 Wage Determination (3) II
249 Budgetary Accounting and Control (3) II
250 Intermediate Accounting (3) I
251 Advanced Accounting (3) II
254 Cost Accounting (3) I
255 Analysis of Financial Statements (3) II
256 Income Tax Problems (3) I
257 Merchandise Accounting and Control (3) II
258 Auditing (3) I
259 Office Organization and Management (3) II
260 Principles of Small Business (3) II
261 Collective Bargaining (3) I
263 Personnel Management (3) II
265 Corporation Finance (3) II
266 Investments and Investment Banking (3) I
267 Business Cycles and Business Forecasting (3) II
268 Employment Interviewing (3) II
270 Principles of Marketing (3) I
273 Principles of Advertising (3) I
276 Retail Merchandising (3) I
278 Credit Management (3) I
279 Methods of Market Research (3) II
280 Principles of Salesmanship (3) I
284 Accounting Systems (3) II
286 Negotiable Instruments (3) II
287 Business Organization and Management (3) I and II
296 Governmental Accounting (3) II
300 Directed Reading or Research (Ar.)
307 Seminar in Problems of Business (3) I
*400 Thesis Research (Ar.) I and II
EDUCATION

ASSOCIATE PROFESSOR ROBERT W. CLOPTON, Ph.D., Chairman; PROFESSORS FRED D. ARMSTRONG, Ph.D., JOSEPH F. SMITH, M.A., BRUCE WHITE, Ph.D.; ASSOCIATE PROFESSORS OTTO J. BEYERS, Ed.D., DAI HO CHUN, Ph.D. (on leave 1951–52), HUBERT V. EVERLY, Ph.D., REUEL L. FICK, Ph.D., AUBREY E. HAAN, Ed.D. (on leave 1951–52), M. ROSEAMONDE PORTER, Ph.D. (on leave first semester 1951–52); ASSISTANT PROFESSORS GLADYS M. GARDNER, M.A., ANDREW W. S. IN, Ph.D., ROBERT M. MARTIN, Ph.D.

REQUIREMENTS FOR ADMISSION TO CANDIDACY FOR THE MASTER'S DEGREE

(1) The bachelor of education degree or the equivalent. (Whether a given bachelor's degree is equivalent to the bachelor of education degree will be determined in each case by the Ed.M. Committee, which is the graduate committee of the Education Department.)

(2) Successful teaching experience.

(3) Satisfactory completion of the following courses: Education 340, 361, 390, and Psychology 351.

(4) A qualifying conference with departmental committee.

(5) Satisfactory completion of Education 380.

THE GRADUATE PROGRAM

Courses in education to be selected from those listed below. Required courses are indicated by an asterisk. Six to 10 hours may be earned in advanced courses in one of the following fields: agriculture, anthropology and sociology, art, biological sciences, economics and business, English, geology and geography, health and physical education, history and government, home economics, library science, mathematics, philosophy, physical sciences, psychology, any foreign language, music, or speech.

Education

265 Administration of the Guidance Program (2) II
292 Workshops (usually 6 credits) in various fields of education offered in summer sessions and all numbered 292 with a lower-case letter indicating the field.

300 Directed Reading or Research (Ar.)

*340 Philosophy of Education (3) I and II
345 Seminar in Philosophy of Education (2) II
350 History of Education (3) II

*361 Tests and Measurements (3) I and II
363 Seminar in Educational Administration (2) II
(Alternate years; o. 1951–52)
365 Supervision of Instruction (2) II (Alternate years; o. 1951–52)
369 Seminar in Speech Pedagogy (3) I
376 Seminar in Vocational Education (2) II (n. o. 1951–52)
ENGLISH


REQUIREMENTS FOR ADMISSION TO CANDIDACY FOR THE MASTER'S DEGREE

1. A minimum of 24 undergraduate credits in English, or closely related subjects, including courses in English composition, an introduction to English literature, American literature, and Shakespeare. In addition, courses in English history and in classical literature are desirable.

2. Courses indicating a fair reading knowledge of an ancient or modern European language.

3. A qualifying conference with departmental committee.

THE GRADUATE PROGRAM

Courses in English to be selected from those listed below. Required courses are marked with an asterisk.

English

205 Backgrounds of English Literature (3) I
240 History of Literary Criticism (3) II (Alternate years; o. 1951-52)
260-261 American Literature (3-3) Yr.
263 Literature of the Pacific (3) II (n. o. 1951-52)
270 Chaucer (3) I (Alternate years; n. o. 1952-53)
272 History of the English Language (3) I (Alternate years; n. o. 1951-52)
273 Sixteenth-Century English Literature (3) II (Alternate years; n. o. 1951-52)
274 The English Drama to 1642 (3) I (Alternate years; n. o. 1952-53)
275 Seventeenth-Century English Literature (3) I (Alternate years; n. o. 1951-52)
276-277 Shakespeare (3-3) Yr.
280 Eighteenth-Century English Literature (3) II (Alternate years; n. o. 1952-53)
282 The Romantic Movement in England (3) I (Alternate years; n. o. 1951-52)
284 Victorian Literature (3) II (Alternate years; n. o. 1951-52)
285 The English Novel to 1832 (3) I (Alternate years; n. o. 1952-53)
286 The English Novel, 1832-1900 (3) II (Alternate years; n. o. 1952-53)
287 Modern Dramatic Literature (3-3) Yr. (Alternate years; n. o. 1952-53)
288 Contemporary European Literature (3) I
289 Contemporary American Literature (3) II
*300 Directed Reading or Research. May be repeated for a maximum of 4 credits. (Ar.) I and II
*310 Seminar in American Literature (2) II
*311 Seminar in English Literature (2) II
312 Seminar in Teaching Composition (2) I
313 Seminar in Bibliography and Research Methods (1) I and II
*400 Thesis Research (Ar.) I and II

ENTOMOLOGY

PROFESSORS LEONARD D. TUTHILL, Ph.D., Chairman, HENRY A. BESS, Ph.D., D. ELMO HARDY, Ph.D., ROBERT W. HIATT, Ph.D., ALBERT L. TESTER, Ph.D., PIETER B. VAN WEEL, Ph.D.; ASSOCIATE PROFESSORS ALBERT H. BANNER, Ph.D., IRWIN M. NEWELL, Ph.D.; ASSISTANT PROFESSOR MARTIN SHERMAN, Ph.D.; LECTURER WALTER CARTER, Ph.D.

REQUIREMENTS FOR ADMISSION TO CANDIDACY FOR THE ADVANCED DEGREES

Undergraduate preparation: candidates planning to specialize in entomology should have completed a minimum of 18 undergraduate credits in zoology and entomology, including general zoology, general entomology, economic entomology, general physiology, insect morphology, and systematic entomology. Majors in all fields also should have completed two years of chemistry (including inorganic and organic), one year of physics, and courses in algebra, botany, and genetics.

THE GRADUATE PROGRAM

Courses in the major field to be selected from those listed below and from those listed under zoology. Courses marked with an asterisk are required. For the master's degree, a maximum of 6 credits may be earned in related courses in botany, genetics, horticulture, and chemistry. For the doctor's degree, additional requirements will be designated by the doctoral committee.

Zoology
240 Introduction to Ecology (2) I
*254 Insect Morphology (3) I
*255 Systematic Entomology (3) II
256 Medical and Veterinary Entomology (3) I (Alternate years; o. 1951–52)
257 Scale Insects (3) I (Alternate years; n. o. 1951–52)
*273 Economic Entomology (3) II
276 Biometry (3) I
277 Biometrical Analysis (3) II
280 Comparative Anatomy of Invertebrates (3) I
284 Comparative Invertebrate Physiology (3) II
*291 General Physiology (3) I
 Principles of Genetics and Advanced Genetics, see Agriculture 254 and 262
300 Directed Research (Ar.)
*311 Entomology Seminar (1) I
*315 Zoological Literature (1) I
*316 Preparation of Scientific Manuscripts (1) II
350 Advanced Systematic Entomology (3) II (Alternate years; o. 1951-52)
352 Insect Ecology (3) I (Alternate years; o. 1951-52)
353 Biological Control of Pests (3) I (Alternate years; n. o. 1951-52)
354 Advanced Economic Entomology (3) II (Alternate years; o. 1951-52)
355-356 Insect-Transmitted Diseases of Plants (3-1) Yr.
387 Population Dynamics (3) II (Alternate years; o. 1951-52)
392 Physiological Ecology (3) II (Alternate years; o. 1951-52)
*400 Thesis Research (Ar.) I and II

FAR EAST STUDIES

ASSOCIATE PROFESSOR YUKUO UYEHARA, M.A., Chairman (Japanese); VISITING PROFESSOR S. K. SAKSENA, Ph.D. (Philosophy); PROFESSORS E. GUSTAV ECKE, Ph.D. (Art), CHARLES A. MOORE, Ph.D. (Philosophy), CLARENCE E. GLICK, Ph.D. (Sociology), HARLEY H. ZEIGLER, Ph.D. (Religion); ASSOCIATE PROFESSORS NEAL M. BOWERS, M.A. (Geography), CH'ENG-K'UN CHENG, Ph.D. (Sociology), KATHARINE LUOMALA, Ph.D. (Anthropology), CURTIS A. MANCHESTER, Ph.D. (Geography), SHUNZO SAKAMAKI, Ph.D. (History), CHEUK-WOON TAAM, Ph.D. (Chinese Studies), JOHN A. WHITE, Ph.D. (History); ASSISTANT PROFESSORS LILY PAO-HU CHONG, M.A. (Chinese), MASAKO YOKOYAMA, Ph.D. (Japanese); INSTRUCTORS ROBERT B. STAUFFER, M.A. (Government), GEORGE K. YAMAMOTO, M.A. (Sociology).

REQUIREMENTS FOR ADMISSION TO CANDIDACY FOR THE MASTER'S DEGREE

(1) A minimum of 37 semester hours of undergraduate credit in courses on the Area in the following disciplines: language, literature, history, government, economics, sociology, anthropology, geography, philosophy, religion, and art.

(2) A reading knowledge of Chinese, Japanese, or Korean.

THE GRADUATE PROGRAM

The major field to be China, Japan, or Korea. Courses to be selected, with the advice and approval of the qualifying committee, from those listed below. At the discretion of the qualifying committee, additional language course work may be required.

**Chinese**

200 Third-Year Chinese (3-3) Yr.
250-251 Chinese Literature in English (3-3) Yr.
293-294 Methods in Chinese Studies (3-3) Yr.
300 Directed Reading or Research (Ar.)

**Japanese**

203 Japanese Translation and Interpretation (3-3) Yr.
260 Japanese Literature in English (2-2) Yr.
300 Directed Reading or Research (Ar.)
Anthropology
254 Peoples of Southern Asia (3) I
255 Peoples of Northern Asia (3) II
300 Directed Reading or Research (Ar.)

Art
220 History of Far Eastern Art (3) I
225 The Beginnings of Chinese Art (3) II
227 Buddhist Art in the Far East (3) I (Alternate years; n. o. 1951-52)

Geography
255 Geography of Asia (3) I
256 Geography of Japan (3) II (n. o. 1951-52)
257 Geography of China (3) I
264 Geography of India and Southeast Asia (3) II
300 Directed Research (Ar.)

Government
262 Government and Politics of the Far East (3) I
263 International Relations of the Far East (3) II
300 Directed Reading and Research (Ar.)
303 Seminar in Far Eastern Politics (2) I

History
201 History of the Far East (3-3) Yr.
225 History of China (3-3) Yr. (n. o. 1951-52)
226 History of Japan (3-3) Yr.
227 Southeast Asia (3) I (n. o. 1952-53)
228 China Since 1895 (3) II (n. o. 1952-53)
229 History of the Relations between China and the Occident (3-3) Yr. (n. o. 1951-52)
250 History of Early Civilization in the Far East (3) I
251 History of Early Civilization in the Far East (3) I
285 Russia in Asia (3-3) Yr.
295 Cultural History of China (3-3) Yr.
300 Directed Research (Ar.)
315 Seminar in Japanese History (3) II
316 Seminar in Chinese History (3) I (n. o. 1951-52)

Philosophy
256 Early Indian Culture (3) I
257 Modern Indian Culture (3) II
265 Philosophy, East and West (3) II (n. o. 1951-52)
270 Indian Philosophy (3) I
271 Chinese Philosophy (3) I (n. o. 1951-52)
273 The Vedanta Philosophy (3) II
283 Buddhist Philosophy (3) I
300 Reading and Research (Ar.)
304 Seminar in Buddhist Philosophy (2) I (n. o. 1951-52)

Religion
250-251 Comparative Study of Religion (3-3) Yr.

Sociology
257 Race Relations in the Pacific (3) I

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GENETICS

PROFESSORS JOHN H. BEAUMONT, Ph.D., CHARLES F. POOLE, Ph.D., HAROLD ST. JOHN, Ph.D., ALBERT L. TESTER, Ph.D.; ASSOCIATE PROFESSORS WILLIAM A. GOSLINE, Ph.D., MORTON M. ROSENBERG, Ph.D., WILLIAM B. STOREY, Ph.D.; ASSISTANT PROFESSORS EDWARD J. BRITTEN, Ph.D., HARUYUKI KAMEMOTO, Ph.D., DONALD C. MCGUIRE, Ph.D., OSCAR ZOE BISCH, M.S.

REQUIREMENTS FOR ADMISSION TO CANDIDACY FOR THE MASTER'S DEGREE

A minimum of 20 semester hours of undergraduate credit in elementary and advanced courses in botany, zoology, chemistry, and genetics.

THE GRADUATE PROGRAM

Courses to be selected from those listed below and others from allied fields as recommended by the advisory committee.

Agriculture

209 Advanced Vegetable Crops (4-4) Yr. (Alternate years; o. 1951-52)
254 Principles of Genetics (3) I
262 Advanced Genetics (3) I
278 Principles of Plant Breeding (3) I
300 Directed Research (Ar.) I and II
302 Genetics Seminar (1) I and II
312 Applied Agricultural Statistics (3) II
400 Thesis Research (Ar.) I and II

Botany

253 Plant Ecology (4) II (Alternate years; n. o. 1951-52)
268 Plant Microtechnique (3) I (Alternate years; o. 1951-52)
281 Cytology (3) I (Alternate years; n. o. 1951-52)
300 Directed Research (Ar.) I and II
380 Cytogenetics (3) I (Alternate years; o. 1951-52)

Zoology

276 Biometry (3) I
277 Biometrical Analysis (3) II
285 Organic Evolution (2) II
300 Directed Research (Ar.) I and II

GEOGRAPHY

ASSOCIATE PROFESSORS CURTIS A. MANCHESTER, Ph.D., Chairman, NEAL M. BOWERS, M.A.
REQUIREMENTS FOR ADMISSION TO CANDIDACY FOR THE MASTER’S DEGREE

(1) An adequate background in geography and basic courses in geology, history, anthropology or sociology, and government or economics.

(2) A reading knowledge of a foreign language.

(3) A qualifying conference with departmental committee.

THE GRADUATE PROGRAM

Courses in the major to be selected from those listed below. Required courses are marked with an asterisk. Six to 10 hours may be earned in advanced courses in related fields.

**Geography**

*250 Cartography (3) II
252 Geography of North America (3) II (n. o. 1951–52)
255 Geography of Asia (3) I
256 Geography of Japan (3) II (n. o. 1951–52)
257 Geography of China (3) I
258 Geography of Europe (3) II (n. o. 1951–52)
260 Geography of Hawaii (2) II (n. o. 1951–52)
261 World Geographic Patterns (3) I and II
*262 Weather and Climate (3) I
263 Geography of the Pacific Islands (3) I
264 Geography of India and Southeast Asia (3) II
*271 Political Geography (3) II
280 Micronesia (3) II
300 Directed Research (Ar.) I and II
305 Field Research (Ar.)
*309 Seminar in History of Geography (3) I
*310 Seminar in Geography (3) II
*400 Thesis Research (Ar.) I and II

**GOVERNMENT**

Professors Edmund F. Spellacy, Ph.D., Acting Chairman, Paul S. Bachman, Ph.D., Norman Meller, M.A., Allan F. Saunders, Ph.D. (on leave 1951–52); Instructors Robert B. Stauffer, M.A., Daniel W. Tuttle, M.A.

REQUIREMENTS FOR ADMISSION TO CANDIDACY FOR THE MASTER’S DEGREE

(1) A minimum of 18 undergraduate credits in government, including American government, political theory, and international relations.

(2) A qualifying conference with departmental committee.

THE GRADUATE PROGRAM

Courses in the major field required of all candidates are Government 260, 282, 290, and 400, and a course in methods of research (Government 288, Psychology 260, History 310, or an equivalent). The candi-
date may specialize in one of the following four fields, in which case the additional courses listed below are required:


**Public Administration**—Government 283, Personnel Administration; Government 284, Administrative Law; Government 286, State and Local Administration; Government 288, Methods and Problems of Research in Public Administration.

**Political Philosophy**—Philosophy 200, Ethics—Philosophies of Life; History 246, American Thought and Culture; Government 290, Modern Political Philosophy; Government 293, American Political Thought.

**Comparative Government**—Government 265, Comparative Governments: Great Britain; Government 266, Comparative Governments: France and USSR.

A maximum of 6 credits may be earned in other social sciences (economics, history, sociology, anthropology, and psychology) as determined by the supervising committee. These courses will be selected to strengthen and widen the candidate's field of major interest.

### Government

- 240 Democracy and Communism (3) I (n. o. 1951–52)
- 248 American State Government (3) I (n. o. 1951–52)
- 252 Introduction to Constitutional Law (3) I
- 254 Municipal Government (3) II
- 256 American Political Parties (3) II
- 260 International Relations (2) I and II
- 261 International Organization (3) II
- 262 Government and Politics of the Far East (3) II
- 263 International Relations of the Far East (3) I
- 264 Postwar International Relations (3) I (n. o. 1951–52)
- 265 Comparative Governments: Great Britain (3) I
- 266 Comparative Governments: France and USSR (3) II
- 267 American Foreign Relations (3) I
- 268 International Administration (3) I
- 270 Government of Hawaii (3) II
- 271 Government of Dependencies (2) II (n. o. 1951–52)
- 282 Introduction to Public Administration (3) I
- 283 Personnel Administration (3) I
- 284 Introduction to Administrative Law (3) II
- 286 State and Local Administration (3) II (n. o. 1951–52)
- 288 Methods and Problems of Research in Public Administration (3) I
- 290 Modern Political Philosophy (3) II
- 293 American Political Thought (3) II (n. o. 1951–52)
- 298 Field of Political Science (2) II (n. o. 1951–52)
Chemistry Building, completed 1951

Hawaii Marine Laboratory, Coconut Island
300 Directed Reading and Research (Ar.) I and II
302 Seminar in International Relations (2) II
303 Seminar in Government and Politics of the Far East (2) I (n. o. 1951-52)
304 Seminar in Public Law (2) I
307 Seminar in Political Theory (2) II
310 Seminar in Public Administration (2) II
400 Thesis Research (Ar.) I and II

HISTORY

PROFESSORS CHARLES H. HUNTER, Ph.D., Chairman, ARTHUR J. MARDER, Ph.D.;
ASSOCIATE PROFESSORS THOMAS D. MURPHY, Ph.D., SHUNZO SAKAMAKI, Ph.D.,
JOHN A. WHITE, Ph.D.; ASSISTANT PROFESSORS DONALD D. JOHNSON, Ph.D.,
JOHN N. STALKER, Ph.D.

REQUIREMENTS FOR ADMISSION TO CANDIDACY FOR THE MASTER'S DEGREE

(1) A minimum of 18 undergraduate credits in history, including 10 hours in courses relating to the general field of the thesis.

(2) A qualifying conference with departmental committee.

THE GRADUATE PROGRAM

Courses in the major field to be selected from those listed below. Required courses are marked with an asterisk. A maximum of 6 credits may be earned toward the degree in such closely related advanced courses as government, international relations, economics, or foreign languages.

History

201 History of the Far East (3-3) Yr.
208 Expansion of European Civilization (3) I
209–210 History of England (3-3) Yr.
211 Constitutional History of England (3) I (n. o. 1952-53)
213 History of Modern Russia (3) I (n. o. 1951-52)
214 History of Soviet Russia (3) II
220–221 History of the British Empire (3-3) Yr.
225 History of China (3-3) Yr. (n. o. 1951-52)
226 History of Japan (3-3) Yr.
227 Southeast Asia (3) I (n. o. 1952-53)
228 China Since 1895 (3) II (n. o. 1952-53)
229 History of the Relations between China and the Occident (3-3) Yr. (n. o. 1951-52)
241 Colonial America (3) I
242–243 History of the United States (3-3) Yr.
244–245 Diplomatic History of the United States (3-3) Yr.
246 American Thought and Culture (3) II
248 Economic History of the United States (3) I
249 Representative Americans (3) II
250 History of Early Civilization in the Far East (3) I
251 History of Thought in Japan (3) II

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252 Constitutional History of the United States (3) II
253–254 History of Hispanic America (3–3) Yr.
257 Europe in the Nineteenth Century (3) I (n. o. 1951–52)
258 Europe Since Versailles (3) II
276 History of the Hawaiian Islands (3) I (n. o. 1951–52)
285 Russia in Asia (3–3) Yr.
295 Cultural History of China (3–3) Yr. (n. o. 1952–53)
300 Directed Research (Ar.)
*310 Seminar in Historical Method (3) I
311 Seminar in American Diplomatic History (3) II
*313 Seminar in Historiography (3) II
315 Seminar in Japanese History (3) II
316 Seminar in Chinese History (3) I (n. o. 1951–52)
*400 Thesis Research (Ar.) I and II

NUTRITION

ASSOCIATE PROFESSOR KATHERINE B. GRUELLE, M.A., Chairman; PROFESSOR CAREY D. MILLER, M.A.; ASSISTANT PROFESSOR ELEANOR E. RAGON, M.A.

REQUIREMENTS FOR ADMISSION TO CANDIDACY FOR THE MASTER'S DEGREE

1. An undergraduate major in home economics, chemistry, or general science which includes courses in foods and nutrition. In addition, courses in chemistry and college algebra are required.

2. A qualifying conference with departmental committee.

THE GRADUATE PROGRAM

Courses to be selected from those listed. Required courses are marked with an asterisk. In addition, courses in statistical methods and thesis writing are required. A minor (6 to 9 credits) may be chosen in chemistry or some other field of science, in business and economics, or in education.

Home Economics

300 Directed Reading or Research (Ar.) I and II

Household Science

250 Diet and Disease (3) II
*273 Food Habits in Hawaii (3) II
*277 Advanced Nutrition (3) II
*300 Directed Research in Nutrition (Ar.)
*301 Dietary Studies (Ar.) I and II
305 Laboratory Methods in Nutrition (3) I and II
*351 Seminar in Nutrition (1) II
*400 Thesis Research (Ar.) I and II

PACIFIC ISLANDS AREA STUDIES

ASSOCIATE PROFESSOR LEONARD E. MASON, M.A., Chairman; PROFESSORS CLARENCE E. GLICK, Ph.D. (Sociology), CHARLES H. HUNTER, Ph.D. (History), AN-
REQUIREMENTS FOR ADMISSION TO CANDIDACY FOR THE MASTER'S DEGREE

(1) A minimum of 18 undergraduate credits in courses on the Area in the following disciplines: anthropology, economics, education, geography, government, history, linguistics, literature, psychology, sociology, and speech. A basic course in either anthropology or geography of the Pacific Islands is required.

(2) A reading knowledge of French, German, Hawaiian, Japanese, or Spanish. The candidate will be expected to utilize this knowledge in graduate course work and in research for the thesis.

(3) A qualifying conference with departmental committee.

THE GRADUATE PROGRAM

Courses to be selected with the advice and approval of the qualifying committee from those listed below, to provide an integrated course of studies bearing upon a specific field of interest. Courses must be selected from at least three departments other than language. Additional language work may be required at the discretion of the qualifying committee. In certain recommended instances, courses relating to the Pacific Islands in the natural sciences, such as agriculture, bacteriology, botany, chemistry, nutrition, and zoology, may be substituted by the student upon the advice of his qualifying committee.

Anthropology
250 Hawaiian Culture (3) I (n. o. 1951-52)
251 Polynesians and Their Culture (3) I
252 Peoples of the Pacific (3) I
253 Micronesia in a Modern World (3) II
266 Culture Conflict in Pacific Dependencies (3) II
300 Directed Reading or Research (Ar.) I and II
310 Seminar in Oceania (2) I (n. o. 1951-52)

Economics
292 Land Economics (3) I and II
300 Directed Reading or Research (2-2) Yr.

Education
300 Directed Reading or Research (Ar.)
390 Public School Administration (Hawaii) (2) I and II
English
263 Literature of the Pacific (3) II (n. o. 1951–52)
300 Directed Reading or Research (Ar.)

Geography
260 Geography of Hawaii (2) II (n. o. 1951–52)
263 Geography of the Pacific Islands (3) I
280 Micronesia (3) II
300 Directed Research (Ar.) I and II

Government
268 International Administration (3) I
271 Government of Dependencies (2) II (n. o. 1951–52)
283 Personnel Administration (Hawaii) (3) I
300 Directed Reading or Research (Ar.) I and II

History
221 History of the British Empire (3) II
276 History of the Hawaiian Islands (3) I (n. o. 1951–52)
300 Directed Research (Ar.)

Linguistics
260–261 Survey of Pacific Languages (3–3) Yr.
300 Directed Reading or Research (Ar.)

Psychology
300 Directed Reading or Research (Ar.)

Sociology
250 Community Forces (Hawaii) (3) I and II
253 Rural Sociology (Hawaii) (3) I
256 Race and Culture Contacts in Hawaii (3) I
257 Race Relations in the Pacific (3) I
300 Directed Reading or Research (Ar.) I and II
351 Graduate Seminar (Hawaii) (2) II

Speech
262 Speech Improvement (Hawaii) (1) I and II
300 Research (Ar.) I and II

Pacific Islands
400 Thesis Research (Ar.)

PHILOSOPHY

Professor Charles A. Moore, Ph.D., Chairman; Visiting Professor S. K. Sakshena, Ph.D.; Associate Professor Harold E. McCarthy, Ph.D.; Assistant Professor Winfield E. Nagley, Ph.D.; Research Associate Thomas B. Storer, Ph.D.

Requirements for Admission to Candidacy for the Master’s Degree

A minimum of 18 semester hours of undergraduate credit in philosophy, including courses in history of philosophy, ethics, and logic. A course in general psychology is required.
THE GRADUATE PROGRAM

Courses to be selected from those listed below. Required courses are indicated by an asterisk. Recommended related courses are: American Thought and Culture, History of Thought in Japan, Philosophy of Education, Modern Political Philosophy.

**Philosophy**

*210 Contemporary Philosophy (3) II
240 Philosophy in Literature (3) II (n. o. 1951-52)
*252 Types of Philosophy (3) I
*253 Problems of Philosophy (3) I (n. o. 1951-52)
262 Philosophy of Art (3) II (Alternate years; o. 1951-52)
265 Philosophy, East and West (3) II (n. o. 1951-52)
268 American Philosophy (3) I
270 Indian Philosophy (3) I
271 Chinese Philosophy (3) I (n. o. 1951-52)
273 The Vedanta Philosophy (3) II
274 Contemporary Indian Philosophy (3) II
275 Philosophy of Religion (3) II
281 Confucian Philosophy (3) II (n. o. 1951-52)
283 Buddhist Philosophy (3) I
286 Philosophy of Science (3) I
287 Scientific Method (3) II
288 Symbolic Logic (3) II

*300 Reading and Research (Ar.) I and II
(Metaphysics, Methodology, Ethics, Indian Philosophy, Chinese Philosophy, Buddhist Philosophy, East-West Philosophy)
303 Seminar in Chinese Philosophy (Ar.) (n. o. 1951-52)
304 Seminar in Buddhist Philosophy (2) I (n. o. 1951-52)
311-312 Seminar in Theory of Knowledge (2-2) Yr.

*400 Thesis Research (Ar.) I and II

**PHYSICS**

**Professor Willard H. Eller, Ph.D., Chairman; Associate Professor Iwao Miyake, M.S.; Assistant Professor Richard L. Burling, Ph.D.**

REQUIREMENTS FOR ADMISSION TO CANDIDACY FOR THE MASTER'S DEGREE

(1) A minimum of 18 undergraduate credits in physics, including courses in general physics, light, electricity and magnetism, mechanics, and modern physics. In addition, courses in general chemistry, mathematics through calculus, and mechanical drawing are required.

(2) A qualifying conference with departmental committee.

THE GRADUATE PROGRAM

Courses in the major field to be selected from those listed below. Required courses are marked with an asterisk. Recommended related courses
are: Structural Mechanics, Hydraulics, Advanced Calculus, and Mathematics of Theoretical Physics.

**Physics**
- 258 Electronics (3) I
- 262 Sound (3) II
- 263 Theoretical Mechanics (3) II
- 275 Electricity and Magnetism (3) I
- 276 Electricity and Magnetism Laboratory (1) I
- *300 Directed Reading or Research (Ar.)
- *302 Theoretical Physics (3–3) Yr.
- *400 Thesis Research (Ar.) I and II

**PSYCHOLOGY**

**Professors Thayne M. Livesay, Ph.D., Acting Chairman, Richard W. Husband, Ph.D., Colin J. Herrick, Ph.D., Bruce White, Ph.D.; Associate Professors Harold M. Bitner, Ph.D., Reuel L. Fick, Ph.D., Theodore W. Forbes, Ph.D., W. Edgar Vinacke, Ph.D.; Assistant Professors Abe Arkoff, Ph.D., Leslie J. Briggs, Ph.D. (on leave 1951–52), David Crowell, Ph.D., John M. Digman, Ph.D., John S. Helmick, Ph.D., M. Helena Klinkman, M.A.**

**REQUIREMENTS FOR ADMISSION TO CANDIDACY FOR THE MASTER'S DEGREE**

1. An adequate background in psychology. Ordinarily, 28 undergraduate credits in psychology, including general and experimental, will represent such background.

2. A qualifying conference with departmental committee.

**THE GRADUATE PROGRAM**

Courses to be selected from those listed below. Required courses are marked with an asterisk. A maximum of 6 credits may be earned in closely related courses in anthropology, philosophy, physics, sociology, and zoology.

**Psychology**
- 250 Applied Psychology (3) I
- 254 Principles of Guidance (3) I
- 256 Business and Industrial Psychology (3) I
- 257 Principles of Counseling (3) II
- 258 Group Techniques of Guidance (3) II
- *260 Statistical Techniques (3) I and II
- *264 Psychological Measurements (3) II
- *267 Experimental Psychology (3) I and II
- *270 Physiological Psychology (3) I
- 272 Psychology of Learning (3) I
- 274 Psychology of Thinking (3) I
- *275 Systematic Psychology (3) II
- *280 Social Psychology (3) II
- 283 Psychology of Personality (3) II
286 Political Psychology (3) I
290 Clinical Psychology (3) II
292 Mental Hygiene (3) I and II
*295 Abnormal Psychology (3) I and II
300 Directed Reading or Research (Ar.)
*320 Graduate Seminar Methods in Research and Thesis Writing (2) I
*321 General Seminar (2) II
356 Problems in Clinical Psychology (3) I and II
362 Individual Intelligence Test Technique (3) I
364 Projective Techniques—Introductory (3) I (n. o. 1951–52)
*382 History of Psychology (3) I (n. o. 1951–52)
*400 Thesis Research (Ar.) I and II

**SOCIAL WORK**

Professor Katharine N. Handley, M.S.W., Chairman; Associate Professors Eda Houwink, M.S. (on leave 1951–52), Helen E. Northen, M.S.; Assistant Professors Harold A. Jambor, M.A., Lucy S. Urbain, M.A.; Lecturer Marcus Guensberg, M.D.

**REQUIREMENTS FOR ADMISSION TO CANDIDACY FOR THE MASTER'S DEGREE**

(1) Successful completion of the basic graduate curriculum in social work (at least 28 semester hours of designated courses), including 6 semester hours in field work.

(2) A qualifying conference with departmental committee.

The full graduate program consists of 48 semester hours to be selected from the following. Courses marked with an asterisk are required of students completing the basic curriculum at this University. Those marked with a dagger are required in addition of students working toward the master's degree. The choice of advanced courses in either case work or group work depends upon the student's major interest.

**Social Work**

*305 Social Case Work (3) I
306 Social Case Work (2) II
*308 Social Group Work (3) I
309 Social Group Work (2) II
*310 Dynamics of Human Behavior (2) II
*315 Community Organization (2) II
325 Child Welfare (2) II
*330 Health and Disease (2) I
*350 Introduction to Public Welfare (2) I
351 Social Insurance (2) II
*352 Social Statistics and Research (2) I
353 Legal Aspects of Social Work (2) II
355 Public Welfare Administration (2) II
*360–361 Supervised Field Work (3–3) Yr.
†362–363 Advanced Supervised Field Work (4–4) Yr.
365 Advanced Social Case Work (2) I
366 Seminar in Social Case Work (2) II
370 Advanced Social Group Work (2) I
371 Seminar in Social Group Work (2) II
375 Advanced Social Psychiatry (2) I
380 Seminar in Public Welfare Administration (2) I
383 Administration of Social Work Agencies (2) II
385 Methods of Supervision in Social Case Work (2) II (Alternate years; n. o. 1951–52)
386 Methods of Supervision in Social Group Work (2) II (Alternate years; n. o. 1952–53)
387 Current Practice in Community Organization Agencies (2) I (Alternate years; n. o. 1951–52)
389 Cultural Factors in Social Work Practice (2) I
399 Seminar in Research (2) I
400 Thesis Research (4) II

SOCIOLoGY

PROFESSORS ANDREW W. LIND, Ph.D., Chairman, CLARENCE E. GLICK, Ph.D.;
ASSOCIATE PROFESSORS CH’ENG-K’UN CHENG, Ph.D., BERNHARD L. HORMANN, Ph.D.; ASSISTANT PROFESSOR DOUGLAS S. YAMAMURA, Ph.D.; INSTRUCTORS

REQUIREMENTS FOR ADMISSION TO CANDIDACY FOR THE MASTER’S DEGREE

(1) A minimum of 18 semester hours of undergraduate credit in sociology, including the introductory course and three of the following courses: The Family, Human Migrations, Personality and Culture, Population and Society, Human Ecology, and Collective Behavior. In addition, introductory courses in anthropology, economics, government, philosophy, and psychology are recommended.

(2) A qualifying conference with departmental committee.

THE GRADUATE PROGRAM

Courses in the major to be selected from those listed below. Required courses are indicated by an asterisk. A maximum of 6 credit hours may be earned in related courses in economics, anthropology, psychology, and history.

Sociology
251 The Folk and Peasant Community (3) I
253 Rural Sociology (3) I
254 The Urban Community (3) II
255 Social Disorganization (3) II
256 Race and Culture Contacts in Hawaii (3) I
257 Race Relations in the Pacific (3) I
258 Race Relations (3) II
259 Peoples and Institutions of Japan (3) II (n. o. 1951–52)
262 Social Control (3) I
REQUIREMENTS FOR ADMISSION TO CANDIDACY FOR THE MASTER'S DEGREE

(1) At least 24 semester hours in speech, including courses in general speech education, speech correction, phonetics and speech science, interpretation, forensics and public address, theatre, radio, pedagogy. In some cases, students presenting less than 24 semester hours in speech may offer related study or experience, may take special examination, or may be required to complete certain prerequisite courses without graduate credit.

(2) A qualifying conference with departmental committee.

(3) Satisfactory completion of 3 hours in Speech 310.

THE GRADUATE PROGRAM

In addition to the general requirements of the Graduate School, each candidate must demonstrate a satisfactory level of speech skill. This level will be tested in a platform appearance before a faculty committee. Courses in major to be selected from those listed below. Required courses are marked with an asterisk.

Speech

220 Phonetics (3) I
221 Principles of Speech Correction (3–3) Yr.
222 Speech Therapy (3) I
223 Advanced Speech Therapy (3) II
224 Hearing and Speech (3) I
228 Semantics (3) II
232 Advanced Interpretation (3) II
250 Discussion (3) I
251 Debating (3) II
262 Speech Improvement (1) I and II
265 Speech for the Classroom Teacher (2) I and II
270 Introduction to Radio (3) I
271 Radio Production (3) II
272 Radio Workshop (2–2) Yr.
278 Radio Writing (3) I
279 Advanced Radio Writing (3) II
295 Rhetoric (3) I
298 Special Problems (Ar.) I and II
300 Research (Ar.) I and II
*310 Seminar in Research Techniques and Methods (3–3) Yr.
320 Seminar in Speech Correction (3–3) Yr.
330 Seminar in Interpretation (3) I
350 Seminar in Rhetoric and Public Address (3) II
*400 Thesis Research (Ar.) I and II

ZOOLOGY

Professors Robert W. Hiatt, Ph.D., Chairman, Albert L. Tester, Ph.D., Pieter B. Van Weel, Ph.D.; Associate Professors Albert H. Banner, Ph.D., William A. Gosline, Ph.D., Sidney C. Hsiao, Ph.D., Donald C. Matthews, Ph.D.; Lecturers Vernon E. Brock, M.A., Walter Carter, Ph.D., Oscar E. Sette, M.A.

Requirements for Admission to Candidacy for the Advanced Degrees

Undergraduate preparation: candidates in general or marine zoology should have completed a minimum of 18 undergraduate credits in zoology, including comparative anatomy of invertebrates and vertebrates, embryology, histology, genetics, and general physiology. Majors in all fields also should have completed two years of chemistry (including inorganic and organic), one year of physics, and courses in algebra and botany.

The Graduate Program

Courses in the major field to be selected from those listed below. Required courses are marked with an asterisk. For the master's degree, a maximum of 6 credits may be earned in related courses in botany, chemistry, genetics, mathematics, and physics. For the doctor's degree, additional requirements will be designated by the doctoral committee.
Zoology

240 Introduction to Ecology (2) I
245 Zoogeography (2) II (Alternate years; n. o. 1951–52)
253 Parasitology (3) I
*260 Histology (3) II
*261 Vertebrate Embryology (3) I
262 Microtechnique (3) I and II
275 General Ichthyology (3–3) Yr.
276 Biometry (3) I
277 Biometrical Analysis (3) II
*280 Comparative Anatomy of Invertebrates (3) I
281 Taxonomy of Marine Invertebrates (3) II (Alternate years; o. 1951–52)
282 Marine Ecology (3) II (Alternate years; n. o. 1951–52)
284 Comparative Invertebrate Physiology (3) II
285 Organic Evolution (2) II
286 History of Zoology (2) I
287 Methods of Fishery Investigation (3) I
290 Oceanography (3) II (Alternate years; o. 1951–52)
*291 General Physiology (3) I
* Principles of Genetics and Advanced Genetics, see Agriculture 254 and 262
300 Directed Research (Ar.)
*312 Seminar in Marine Zoology (1) I
*313 Seminar in Fisheries Biology (1) I
*314 Seminar in Advanced Marine and Fisheries Biology (1) II
*315 Zoological Literature (1) I
*316 Preparation of Scientific Manuscripts (1) II
320 Development of Marine Invertebrates (3) II (Alternate years; n. o. 1951–52)
370 Principles of Systematic Zoology (3) I (Alternate years; o. 1951–52)
387 Population Dynamics (3) II (Alternate years; o. 1951–52)
388 Fisheries Management (3) II (Alternate years; n. o. 1951–52)
391 Advanced General Physiology (3) II (Alternate years; n. o. 1951–52)
392 Physiological Ecology (3) II (Alternate years; o. 1951–52)
*400 Thesis Research (Ar.) I and II