Announcement of Graduate Studies, 1948-1949
UNIVERSITY CALENDAR
1948

Sept. 25, Saturday ........................................ Registration of graduate students
Sept. 27, Monday ............................................ Instruction begins
Oct. 2, Saturday ............................................ Primary Election Day (holiday)
Oct. 9, Saturday ............................................ Last day of registration for new courses
Oct. 30, Saturday ........................................... Last day of withdrawal from courses without penalty
Nov. 2, Tuesday ............................................. General Election Day (holiday)
Nov. 11, Thursday .......................................... Armistice Day (holiday)
Nov. 24, Wednesday ....................................... Last day for the removal of "Incompletes"
Nov. 25, Thursday through ................................ Thanksgiving recess
Nov. 27, Saturday ........................................... Last day of instruction before Christmas recess

Dec. 18, Saturday ........................................... Last day of instruction before Christmas recess

1949

Jan. 3, Monday ................................................ Instruction resumes
Jan. 22, Saturday .......................................... Last day of instruction, first semester
Jan. 24, Monday ............................................. Final examinations begin
Jan. 31, Monday ............................................. Holiday following Franklin Roosevelt's Birthday
Feb. 2, Wednesday .......................................... First semester ends
Feb. 11, Friday .............................................. Registration of graduate students
Feb. 12, Saturday .......................................... Lincoln's Birthday (holiday)
Feb. 14, Monday ............................................. Instruction begins
Feb. 22, Tuesday ............................................. Washington's Birthday (holiday)
Feb. 26, Saturday ........................................... Last day of registration for new courses
Mar. 19, Saturday .......................................... Last day of withdrawal from courses without penalty
Mar. 25, Friday .............................................. Charter Day
Apr. 14, Thursday .......................................... Last day for the removal of "Incompletes"
Apr. 15, Friday ................................................ Easter recess
Apr. 16, Saturday ........................................... Last day to arrange Master's examination
May 2, Monday .............................................. Last day of instruction, second semester
May 28, Saturday ........................................... Memorial Day (holiday)
June 1, Wednesday .......................................... Last day for Master's examination
June 8, Wednesday .......................................... Second semester ends
June 14, Tuesday ............................................. Commencement
June 20, Monday ............................................. Registration for the summer session

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GRADUATE STUDY AT THE UNIVERSITY OF HAWAII

The University of Hawaii is the only institution offering graduate work in the vast area of the Pacific, extending from California to the Philippines and from New Zealand to Alaska. By virtue of its location at one of the major "crossroads of the Pacific," with access to the rich research facilities of the Far East and the Pacific islands, the University can offer special opportunities for students interested in pursuing graduate work in certain of the natural and social sciences. The University of Hawaii also gives work 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. Hawaii's relative proximity to the Trust Territories in Micronesia and to the dependent areas of Polynesia, 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 educational problems of Pacific island people. For the teacher, missionary, administrator, journalist, or research worker whose interests lie in Pacific and Asiatic countries, graduate study in the University affords an opportunity to acquire knowledge essential to the practice of his profession in those areas.

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 an outstanding collection of Orientalia, and students have access to the Asiatic collections 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 col-
lections of Hawaiian and South Pacific plants and insects. Because of the concentration of scientists within these fields, the University has offered graduate work leading to the doctor of philosophy degree in those sciences basic to tropical agriculture.

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 in graduate instruction in the marine sciences. Opportunities for participation in the investigation of fisheries now in process under the federal government are available to students trained in the University fisheries curriculum.

**LIBRARIES AND RELATED INSTITUTIONS**

The University Library contains approximately 190,000 bound volumes and 400,000 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 Territorial 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; the Hawaii War Records Depository, charged with the collection of data relating to Hawaii's part in World War II; and the Hawaii Social Research Laboratory, with its emphasis on study of basic social trends, including race relations, in Hawaii.
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

Admission to the Graduate Division is granted to graduates of accredited colleges and universities. Application for admission should be made to the Dean of the Graduate Division and should be accompanied by an official transcript of undergraduate record and of any graduate work completed at any other institution. Admission is provisional until such records are on file. These transcripts become a permanent part of the University files.

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

No student will be considered for admission to candidacy for an advanced degree unless he can meet the following requirements:

1. Ability to use written English effectively as demonstrated by grades in undergraduate courses in English composition or by a special examination conducted by the University English Department.

2. An adequate undergraduate background in the major and minor fields in which the master's degree is to be taken.

3. A good undergraduate scholastic record, with a grade of B or better in undergraduate courses in the major field or with an average of at least B in all courses carried in the junior and senior years.

Graduate students not interested 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 Division 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.

Graduate work completed at other institutions, to a maximum of eight semester hours, may be accepted as fulfilling part of the requirements for the master's degree.
Seniors in the University of Hawaii may carry a limited amount of graduate work during their last semester as undergraduates provided that the total number of credit hours for which they are registered during that semester does not exceed sixteen.

No extension course may be counted toward an advanced degree.

**REGISTRATION AND GRADES**

Graduate students may not register for more than sixteen credit hours in any semester, or for more than six credit hours in a six-week summer session. The number of credit hours which may be carried by student assistants is limited by the nature of their duties.

A grade of B or better must be obtained in a course numbered 200 to 299 if it is to be credited toward an advanced degree. Work in courses numbered 300 to 399 is graded H (Honors), S (Satisfactory), or U (Unsatisfactory). 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**

**The Master's Degree**

The University awards the master's degree in arts, science, and education.

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 five years preceding the date on which the degree is granted. Candidates failing to obtain the degree within five years after admission to candidacy must again qualify for candidacy.

Thirty semester hours of graduate study are required for the master's degree. All work connected with the thesis must be registered for as thesis research (course number 400 in each major field). For thesis research the usual credit allowance is six hours, but a maximum of twelve hours may be allowed in the natural and physical sciences. At least six credits toward the master's degree must be earned in courses primarily for graduate students (300-399). The remaining credits may be earned in courses numbered 200 to 299, but additional work must be done in such courses and a grade of A or B must be earned. All courses offered by the candidate should be in his major field of interest or in one or two closely allied fields. Candi-
dates for the master of education degree are restricted to one minor of six to ten credits. A reading knowledge of a foreign language is required in certain fields and, at the discretion of the qualifying committee, may be required of a candidate in any field.

Students admitted to candidacy after September 1, 1947, must take at least one seminar relating to their major fields and a course in methods of research and thesis writing. They are likewise restricted to four semester hours in courses in directed reading and in research, other than thesis research.

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 the Graduate Council, following which the candidate may register for the thesis research course (number 400 within each field), and a faculty committee is appointed to supervise the preparation of the thesis. The thesis must be written in acceptable English and show evidence of ability to conduct research intelligently and to arrive at logical conclusions. A candidate expecting to receive a master's degree in June must notify the Dean of the Graduate Division not later than the beginning of the second semester and must submit copies of the completed thesis to members of his committee for final checking by May 15. Instructions on the form of the thesis may be obtained from the Dean of the Graduate Division.

Candidates must notify the Dean of the Graduate Division at the beginning of the semester or term in which they expect to receive their degrees.

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

The Doctor of Philosophy Degree

Candidates for the doctor of philosophy degree are accepted only in the sciences basic to tropical agriculture.

For this degree the student is required to spend three academic years in graduate study, at least one year of which must be at the University of
Hawaii, and one year in an accredited mainland graduate school; to complete satisfactorily a program of research and study prescribed by the committee in charge of his candidacy; and to pass certain examinations. A qualifying general examination, which includes a test of reading knowledge of both French and German, must be passed at least one academic year (nine months) prior to the awarding of the degree; a student will not be considered a candidate for the doctor's degree until he has passed this examination. The candidate must write a doctor's dissertation and present and defend it in the final examination.

**THE TEACHER'S PROFESSIONAL CERTIFICATE**

The Department of Public Instruction of the Territory of Hawaii grants the professional certificate to teachers in the employ of the Department who complete the following work: a total of thirty semester hours of graduate work, ten of which must be earned in courses primarily for graduates (300 to 399) including Philosophy of Education, Advanced Educational Psychology, and Evaluation in Education.

**THE SOCIAL WORK CERTIFICATE**

The University of Hawaii School of Social Work offers a one-year graduate 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. The curriculum is approved by the American Association of Schools of Social Work, and students who satisfactorily complete the year's course are awarded a Certificate in Social Work.

To be admitted to graduate work in the School of Social Work, an applicant must

1. Hold a bachelor's degree from a university or college of recognized standing and be eligible for admission to graduate standing at the University of Hawaii.
2. Have a scholarship record in undergraduate work which indicates that he can do satisfactory work in graduate study.
3. Have a minimum of thirty hours of 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.
4. Give evidence of personal qualifications that promise to make him useful in social work.

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 applicants, and written corroboration of intention to register for the full year's program is requested.

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

Registration in field work courses is open only to full-time professional social work students. Two semesters of field work are required. Students receive instruction in social work practice under supervision in recognized social work agencies. The number of field work assignments is limited. Late applicants may be rejected because of the difficulty in arranging such assignments.
TUITION AND FEES

Tuition and registration fees for graduate students are the same as those for undergraduates. Students registered for ten or more credit hours in any semester pay $50 for tuition and $10 for registration per semester. Students registered for fewer than ten credit hours in any semester and all students in summer sessions pay $5.00 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.

LIVING ACCOMMODATIONS AND EXPENSES

Satisfactory housing accommodations are still at a high 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 useful to apply to the Office of Student Personnel for such openings. The demand, however, is extremely great, and the University cannot assume responsibility for obtaining housing.

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

GRADUATE ASSISTANTSHIPS AND SCHOLARSHIPS

The University offers a number of assistantships to graduates of accredited institutions of higher learning who wish to pursue graduate study in the fields in which the University offers advanced degrees. Graduate assistants serve as readers or part-time laboratory assistants and are expected to carry a limited program of graduate study. They receive remuneration of $1,290 and are exempt from all tuition and fees. The period of service is from September 15 to June 15. Applications should be received by May 1. 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 courses in his major field.

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 Division.
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 Division 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. 1948-49), that the course is not offered during 1948-49.

AGRICULTURE

Requirements for admission to candidacy for the master's degree:

(1) Undergraduate preparation. Candidates planning to specialize in plant sciences are required to have completed undergraduate credit in basic courses in botany, bacteriology, zoology, genetics, pomology, and soils. Candidates planning to specialize in soil science are required to have completed undergraduate credit in soils, organic, quantitative, and colloidal chemistry, plant physiology, general bacteriology, general physics, and college algebra.

(2) An oral qualifying examination to be taken as soon as possible after registering as a graduate student.

The graduate program: Courses in agriculture to be selected from those listed below. Courses marked with an asterisk are required of students specializing in soil science. Those marked with a dagger are required of those specializing in plant sciences. In addition, Botany 268, Plant Microtechnique; Botany 269, Plant Anatomy; Botany 273-274, Biophysics; Botany 275-276, Biochemistry; and a course in statistics are required of students in plant sciences. Related courses in other fields may be taken with the approval of the chairman of the candidate's committee.

Agriculture

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Instructor</th>
</tr>
</thead>
<tbody>
<tr>
<td>254 Principles of Genetics</td>
<td>(3) I</td>
<td>Mr. Mainland</td>
</tr>
<tr>
<td>267 Soil Analysis</td>
<td>(3) II</td>
<td>Mr. Sherman</td>
</tr>
</tbody>
</table>
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 department approval. In addition, introductory courses in sociology, psychology, and zoology are required.

(2) An oral examination covering previous work in anthropology to be taken as soon as possible after becoming a graduate student.

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

Anthropology

250 Hawaiian Culture (3) II Mr. Emory
252 Peoples of the Pacific (3) I Mr. Emory
253 Micronesia in a Modern World (3) II Mr. Mason
   (n. o. 1948-49)
254 Peoples of Southern Asia (3) I Miss Luomala
   (n. o. 1948-49)
255 Peoples of Northern Asia (3) II Miss Luomala
256 The American Indian (3) I (n. o. 1948-49) Miss Luomala
265 Primitive Society (3) II (n. o. 1948-49) Mr. Mason
266 Culture Conflict in Pacific Dependencies (3) II Mr. Mason
267 Primitive Religion (3) II Miss Luomala
268 Primitive Art (3) II (n. o. 1948-49) Miss Luomala
269 Folklore (3) II (n. o. 1948-49) Miss Luomala
*300 Directed Reading or Research (Ar.) I and II Staff
*400 Thesis Research (Ar.) I and II Staff
BACTERIOLOGY

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, zoology, botany, and mycology. In addition, the following undergraduate courses are required: general chemistry, organic chemistry, college physics, and a modern foreign language.

(2) An oral examination covering previous work in the field to be taken as soon as possible after becoming a graduate student.

The graduate program: Required courses in bacteriology are listed below. In addition, the following related courses are required: Biochemistry, Parasitology, Biometry, and Preparation of Scientific Manuscripts. Other related courses recommended but not required are: Plant Pathology, Agricultural Chemistry, Hematology, Entomology, and General Physiology.

Bacteriology

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>250</td>
<td>Economic Bacteriology (2-2) Yr.</td>
<td>Mr. Bushnell</td>
</tr>
<tr>
<td>260</td>
<td>Medical Bacteriology (3) I</td>
<td>Mr. Hartmann</td>
</tr>
<tr>
<td>262</td>
<td>Laboratory in Medical Bacteriology (2) I</td>
<td>Mr. Hartmann</td>
</tr>
<tr>
<td>264</td>
<td>Immunology (3) II</td>
<td>Mr. Hartmann</td>
</tr>
<tr>
<td>300</td>
<td>Bacteriological Problems (Ar.) I and II</td>
<td>Staff</td>
</tr>
<tr>
<td>310</td>
<td>Determinative Bacteriology (2) I and II</td>
<td>Mr. Bushnell</td>
</tr>
<tr>
<td>400</td>
<td>Thesis Research (Ar.) I and II</td>
<td>Staff</td>
</tr>
</tbody>
</table>

BOTANY

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) An oral examination covering previous work in this field, to be taken upon completion of one semester of graduate study.

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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tr>
</tbody>
</table>

19
Botany

202 Taxonomy and Exploration (3) II  
253 Plant Ecology (4) II  
254 Advanced Taxonomy (1) I  
258 Advanced Mycology (3) I  
263 Plant Pathology (3) II (Alternate years; n. o. 1948-49)  
264 Plant Pathology Technique (3) II (Alternate years; o. 1948-49)  
268 Plant Microtechnique (3) II (Alternate years; o. 1948-49)  
269 Plant Anatomy (3) I  
273 Advanced Plant Physiology-Biophysics (3) I  
274 Laboratory Technique in Biophysics (2) I  
275 Advanced Plant Physiology-Biochemistry (3) II  
276 Laboratory Technique in Biochemistry (2) II  
279 Morphology of Cryptogamic Plants (3) I (Alternate years; n. o. 1948-49)  
280 Cytogenetics (3) I (n. o. 1948-49)  
281 Cytology (3) I  
282 Biological Photography (3) II  
300 Botanical Research (Ar.)  
310 Botanical Seminar (1) I and II  
351 Plant Physiology Seminar (1) II  
365 Taxonomy of the Dicotyledons (1) II (n. o. 1948-49)  
367 Taxonomy of the Higher Dicotyledons (1) II  
378 Nomenclature (2) I  
400 Thesis Research (Ar.) I and II  

CHEMISTRY

Requirements for admission to candidacy for the master’s degree:

(1) A minimum of 36 undergraduate credits in chemistry, including courses in general chemistry, organic chemistry, qualitative analysis, quantitative analysis, and physical chemistry. In addition, courses in college physics, college algebra, geometry, and trigonometry are required at the undergraduate level. If Mathematics 153, Differential Calculus, and Mathematics 154, Integral Calculus, have
not been taken at the undergraduate level, they must be included in the graduate program (without credit toward the master's degree).

(2) Oral qualifying examination to be taken as soon as possible after becoming a graduate student.

The graduate program: Courses in the major field to be selected from those listed below. Required courses are marked with an asterisk.

**Chemistry**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
</tr>
</thead>
<tbody>
<tr>
<td>236</td>
<td>Agricultural Chemistry (3) II</td>
<td>Mr. Smith</td>
</tr>
<tr>
<td>238</td>
<td>Advanced Inorganic Chemistry (3) I</td>
<td>Mr. Alyea</td>
</tr>
<tr>
<td>249</td>
<td>Advanced Organic Chemistry (4) I</td>
<td>Mr. Naughton</td>
</tr>
<tr>
<td>250</td>
<td>Organic Analysis (4) II</td>
<td>Mr. Naughton</td>
</tr>
<tr>
<td>255</td>
<td>Physical Chemistry (4-4) Yr.</td>
<td>Mr. Bilger</td>
</tr>
<tr>
<td>266</td>
<td>Advanced Biochemistry (3) II</td>
<td>Mr. Naughton</td>
</tr>
<tr>
<td>271</td>
<td>Colloidal Chemistry (3) I (n. o. 1948-49)</td>
<td>Mrs. Bilger</td>
</tr>
<tr>
<td>281</td>
<td>History of Chemistry (3) I</td>
<td>Mr. Smith</td>
</tr>
<tr>
<td>295</td>
<td>Chemical Literature (2) I and II</td>
<td>Mr. Smith</td>
</tr>
<tr>
<td>300</td>
<td>Directed Research (Ar.)</td>
<td>Staff</td>
</tr>
<tr>
<td>338</td>
<td>Atomic Structure and Nuclear Chemistry (3) II</td>
<td>Mr. Alyea</td>
</tr>
<tr>
<td>355</td>
<td>Theoretical Organic Chemistry (2) II</td>
<td>Mrs. Bilger</td>
</tr>
<tr>
<td>358</td>
<td>Chemical Thermodynamics (3) II</td>
<td>Mrs. Bilger</td>
</tr>
<tr>
<td>*360</td>
<td>Seminar (1-1) Yr.</td>
<td>Mrs. Bilger</td>
</tr>
<tr>
<td>*400</td>
<td>Thesis Research (Ar.) I and II</td>
<td>Staff</td>
</tr>
</tbody>
</table>

**ECONOMICS AND BUSINESS**

Requirements for admission to candidacy for the master's degree:

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

(2) An oral examination covering previous work in the field (to be taken soon after becoming a graduate student).

The graduate program: Courses in the major field to be selected from those listed below. Required courses are starred. In addition, a course in methods of research is required. With the consent of his advisory committee, the candidate may include a maximum of 6 credits in related fields.
Economics

223-224 History of Economic Institutions (3-3) Yr. Mr. Cameron
251 Economic Problems of Europe (3) I Mr. Kraemer
252 Economic Problems of the Far East (3) I Mr. Shoemaker
254 The Economic System of Soviet Russia (3) II Mr. Shoemaker
263 International Finance (3) II Mr. Kirkpatrick
265 Principles and Problems of Economic Control (3) II Mr. Shoemaker
270 Public Utilities (3) I Mr. Cameron
273 Ocean Transportation (3) II Mr. Cameron
276 Trusts and Industrial Combinations (3) I Mr. Cameron
277 Economics of Machine Industry (3) II Mr. Cameron
281 Labor Problems (3) I Mr. Roberts
283 Labor Legislation (3) I Mr. Roberts
285 International Trade (3) I Mr. Kraemer
291 Agricultural Economics (3) I Mr. Kraemer
292 Land Economics (3) II Mr. Kraemer
296 Economic Thought and Advanced Economic Theory (3) I Mr. Kirkpatrick
300 Directed Reading and Research (3-3) Yr. Staff
310 Seminar in Labor Problems (3) I Mr. Roberts
315 Seminar in Current Economic Problems (3) I Mr. Shoemaker, Staff
340 Thesis Research (Ar.) I and II Staff

Business

250 Intermediate Accounting (3) I Mr. Glover
251 Advanced Accounting (3) II Mr. Glover
254 Cost Accounting (3) I Mr. Glover
255 Analysis of Financial Statements (3) II Mr. Glover
256 Income Tax Problems (3) I Mr. Glover
257 Merchandise Accounting and Control (3) II Mr. Adler
263 Personnel Management (3) II Mr. Roberts
264 Principles of Business (3) I Mr. Cameron
265 Corporation Finance (3) II Mr. Luke
266 Investments and Investment Banking (3) I Mr. Kirkpatrick
267 Business Cycles and Business Forecasting (3) II Mr. Kirkpatrick
Requirements for admission to candidacy for the master's degree:

(1) The bachelor of education degree or the equivalent.
(2) Successful teaching experience.
(3) Satisfactory completion of the following courses:
   Education 340, 361, 380, 390, and 300t, and Psychology 351.

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, 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 or speech.

**Education**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor(s)</th>
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</thead>
<tbody>
<tr>
<td>300</td>
<td>Directed Reading or Research (Ar.)</td>
<td>Staff</td>
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<tr>
<td>*300t</td>
<td>Minor Research (1) I and II</td>
<td>Staff</td>
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<tr>
<td>*340</td>
<td>Philosophy of Education (3) I and II</td>
<td>Mr. Thayer</td>
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<tr>
<td>345</td>
<td>Seminar in Philosophy of Education (2) I and II</td>
<td>Mr. Thayer</td>
</tr>
<tr>
<td>*361</td>
<td>Evaluation in Education (3) I and II</td>
<td>Mr. Chun</td>
</tr>
<tr>
<td>363</td>
<td>Seminar in Educational Administration (2) I</td>
<td>Mr. Everly</td>
</tr>
<tr>
<td>365</td>
<td>The Supervision of Instruction (2) II</td>
<td>Mr. Everly</td>
</tr>
<tr>
<td>369</td>
<td>Seminar in Speech Pedagogy (3) I</td>
<td>Mr. Smith</td>
</tr>
<tr>
<td>376</td>
<td>Seminar in Vocational Education (2) I and II</td>
<td>Mr. Armstrong</td>
</tr>
<tr>
<td>*380</td>
<td>Research and Thesis Writing (2) II</td>
<td>Mr. White</td>
</tr>
<tr>
<td>*390</td>
<td>Public School Administration (2) I and II</td>
<td>Mr. Everly</td>
</tr>
<tr>
<td>396</td>
<td>Seminar in Curriculum Improvement (2) I and II</td>
<td>Staff</td>
</tr>
<tr>
<td>*400</td>
<td>Thesis Research (Ar.) I and II</td>
<td>Staff</td>
</tr>
</tbody>
</table>
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 a modern European language or Latin.

3) A comprehensive written examination in English and American literature.

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

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credits</th>
<th>Instructor(s)</th>
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</thead>
<tbody>
<tr>
<td>240</td>
<td>History of Literary Criticism</td>
<td>3</td>
<td>Mr. Day</td>
</tr>
<tr>
<td>270</td>
<td>Chaucer</td>
<td>3</td>
<td>Mr. Green</td>
</tr>
<tr>
<td>272</td>
<td>History of the English Language</td>
<td>3</td>
<td>Mr. Green</td>
</tr>
<tr>
<td>274</td>
<td>The English Drama to 1642 (Exclusive of Shakespeare)</td>
<td>3</td>
<td>Mr. Day</td>
</tr>
<tr>
<td>275</td>
<td>Nondramatic Elizabethan and Seventeenth-Century English Literature (1558-1660)</td>
<td>3</td>
<td>Mr. Korn</td>
</tr>
<tr>
<td>276-277</td>
<td>Shakespeare</td>
<td>3-3</td>
<td>Mr. Ernst</td>
</tr>
<tr>
<td>280</td>
<td>Restoration and Eighteenth-Century Literature</td>
<td>3</td>
<td>Mr. Korn</td>
</tr>
<tr>
<td>282</td>
<td>Poetry and Prose of the Romantic Movement in England</td>
<td>3</td>
<td>Mr. Day</td>
</tr>
<tr>
<td>284</td>
<td>Victorian Literature (Exclusive of the Novel)</td>
<td>3</td>
<td>Mr. Bouslog</td>
</tr>
<tr>
<td>285</td>
<td>The English Novel to 1832</td>
<td>3</td>
<td>Mr. Korn</td>
</tr>
<tr>
<td>286</td>
<td>The English Novel, 1832-1900</td>
<td>3</td>
<td>Mr. Korn</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Instructor(s)</td>
<td></td>
</tr>
<tr>
<td>-------------</td>
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</tr>
<tr>
<td>287</td>
<td>Modern Dramatic Literature (3-3) Yr.</td>
<td>Mr. Wilson</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(Alternate years; n. o. 1948-49)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>288</td>
<td>Contemporary European Literature (3) I</td>
<td>Mr. Day</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(Alternate years; o. 1948-49)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>289</td>
<td>Contemporary American Literature (3) II</td>
<td>Mr. Day</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(Alternate years; o. 1948-49)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>300</td>
<td>Directed Research. May be repeated for a maximum of 4 credits. (2) I and II</td>
<td>Staff</td>
<td></td>
</tr>
<tr>
<td>310</td>
<td>Seminar in American or English Literature (2) II</td>
<td>Staff</td>
<td></td>
</tr>
<tr>
<td>313</td>
<td>Seminar in Bibliography and Research Methods (1) I</td>
<td>Staff</td>
<td></td>
</tr>
<tr>
<td>400</td>
<td>Thesis Research (Ar.) I and II</td>
<td>Staff</td>
<td></td>
</tr>
</tbody>
</table>

**FAR EAST STUDIES**

Requirements for admission to candidacy for the master's degree:

1. A minimum of 20 semester hours of undergraduate credit in courses in the languages and literature, history, government, economics, sociology and anthropology, geography, philosophy, and religion of the Far East.


3. An oral examination covering previous work in this field to be taken as soon as possible after becoming a graduate student.

The graduate program: Courses to be selected with the advice and approval of the qualifying committee from those listed below.

**Chinese**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>Third-Year Chinese (3-3) Yr.</td>
<td>Mrs. Chong</td>
</tr>
<tr>
<td>293-294</td>
<td>Methods and Bibliography in Chinese Studies (3-3) Yr.</td>
<td>Mr. Taam</td>
</tr>
</tbody>
</table>

**Japanese**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>203</td>
<td>Japanese Translation and Interpretation (3-3) Yr.</td>
<td>Mr. Uyehara</td>
</tr>
<tr>
<td>260</td>
<td>Japanese Literature in English (2-2) Yr.</td>
<td>Mr. Uyehara</td>
</tr>
<tr>
<td>300</td>
<td>Directed Reading or Research (Ar.)</td>
<td>Mr. Uyehara</td>
</tr>
</tbody>
</table>

**History**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>201</td>
<td>History of the Far East (3-3) Yr.</td>
<td>Mr. Sakamaki</td>
</tr>
<tr>
<td>225</td>
<td>History of China (3-3) Yr.</td>
<td>Mr. White</td>
</tr>
</tbody>
</table>
226 History of Japan (3–3) Yr. Mr. Sakamaki
229 History of the Relations between China and the Occident (3–3) Yr. Mr. White
250 History of Early Civilization in the Far East (3) I Mr. Sakamaki
251 History of Thought in Japan (3) II Mr. Sakamaki
285 Russia in Asia (3–3) Yr. Mr. White
295 Cultural History of China (3–3) Yr. (n. o. 1948–49) Mr. White
300 Directed Research (Ar.) Staff
315 Seminar in Japanese History (3) II Mr. Sakamaki
319 Europe in the Far East (3) I (n. o. 1948–49) Mr. Marder

Anthropology
254 Peoples of Southern Asia (3) I (n. o. 1948–49) Miss Luomala
255 Peoples of Northern Asia (3) II Miss Luomala

Sociology
259 Peoples and Institutions of Japan (3) I Mr. Steiner
277 Problems of Chinese Society (n. o. 1948–49) Mr. Cheng

Philosophy
265 Philosophy, East and West (3) I (n. o. 1948–49) Mr. Moore
270 Indian Philosophy (3) I Mr. Moore
271 Chinese Philosophy (3) II Mr. Moore
281 Confucian Philosophy (3) I (n. o. 1948–49) Mr. Moore
282 Taoist Philosophy (3) I (n. o. 1948–49) Mr. Moore
283–284 Buddhist Philosophy (2–2) Yr. (n. o. 1948–49)
300 Reading and Research (Ar.) Staff

Government
262 Government and Politics of the Far East (2) II Mr. Leebrick
263 International Relations of the Far East (3) I Mr. Bridgham
303 Seminar in Government and Politics of the Far East (2) I Mr. Bridgham
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) An oral examination covering previous work in the field to be taken as soon as possible after becoming a graduate student.

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.
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. An oral examination covering previous work in the field to be taken as soon as possible after becoming a graduate student.

The graduate program: Courses in the major field to be selected from those listed below. Required courses are marked with an asterisk. In addition, candidates are required to take a course in methods of research. By special permission, this requirement may be satisfied by a course in statistics. The candidate may specialize in one of the following four fields, in which case the courses listed are required:

**International Relations**
- Government 261, International Organization
- History 245, Diplomatic History of the United States
- Economics 285, Foreign Trade

**Public Administration**
- Government 260, International Relations
- Government 282, Introduction to 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

**Comparative Government**
- Government 266, European Governments
- Government 268, Government and Politics of the Soviet Union

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>248</td>
<td>American State Government (3) II</td>
<td>Mr. Spellacy</td>
</tr>
<tr>
<td>252</td>
<td>Introduction to Constitutional Law (3) I</td>
<td>Mr. Spellacy</td>
</tr>
<tr>
<td>253</td>
<td>International Law (3) I</td>
<td>Mr. Bridgham</td>
</tr>
<tr>
<td>254</td>
<td>Municipal Government (3) I</td>
<td>Mr. Spellacy</td>
</tr>
<tr>
<td></td>
<td>(n. o. 1948-49)</td>
<td></td>
</tr>
<tr>
<td>256</td>
<td>American Political Parties (3) I</td>
<td>Mr. Saunders</td>
</tr>
<tr>
<td>260</td>
<td>International Relations (2) I</td>
<td>Mr. Bachman</td>
</tr>
<tr>
<td>261</td>
<td>International Organization (3) II</td>
<td>Mr. Bridgham</td>
</tr>
<tr>
<td>262</td>
<td>Government and Politics of the Far East (2) II</td>
<td>Mr. Leebrock</td>
</tr>
<tr>
<td>263</td>
<td>International Relations of the Far East (3) I</td>
<td>Mr. Bridgham</td>
</tr>
<tr>
<td>264</td>
<td>Postwar International Problems (3) II</td>
<td>Mr. Bridgham</td>
</tr>
<tr>
<td>266</td>
<td>European Governments (3) II</td>
<td>Mr. Saunders</td>
</tr>
<tr>
<td></td>
<td>(n. o. 1948-49)</td>
<td></td>
</tr>
<tr>
<td>267</td>
<td>American Foreign Relations (3) II</td>
<td>Mr. Bridgham</td>
</tr>
<tr>
<td>268</td>
<td>Government and Politics of the Soviet Union (3) II</td>
<td>Mr. Saunders</td>
</tr>
<tr>
<td></td>
<td>(n. o. 1948-49)</td>
<td></td>
</tr>
<tr>
<td>271</td>
<td>Government of Dependencies (3) II</td>
<td>Mr. Taylor</td>
</tr>
<tr>
<td>282</td>
<td>Introduction to Public Administration (3) I</td>
<td>Mr. Spellacy</td>
</tr>
<tr>
<td>283</td>
<td>Personnel Administration (3) I</td>
<td>Mr. Akina</td>
</tr>
<tr>
<td>284</td>
<td>Administrative Law (3) II</td>
<td>Mr. Spellacy</td>
</tr>
<tr>
<td>286</td>
<td>State and Local Administration (3) I</td>
<td>Mr. Spellacy</td>
</tr>
<tr>
<td>288</td>
<td>Methods and Problems of Research in Public Administration (3) I and II</td>
<td>Mr. Meller, Staff</td>
</tr>
<tr>
<td></td>
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<td></td>
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<tr>
<td>290</td>
<td>Modern Political Philosophy (3) II</td>
<td>Mr. Saunders</td>
</tr>
<tr>
<td>300</td>
<td>Directed Reading and Research (Ar.) I and II</td>
<td>Staff</td>
</tr>
<tr>
<td>302</td>
<td>Seminar in International Relations (2) I</td>
<td>Mr. Bachman</td>
</tr>
<tr>
<td>303</td>
<td>Seminar in Government and Politics of the Far East (2) I</td>
<td>Mr. Bridgham</td>
</tr>
<tr>
<td></td>
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<tr>
<td>304</td>
<td>Seminar in Public Law (2) I and II</td>
<td>Mr. Spellacy</td>
</tr>
<tr>
<td>307</td>
<td>Seminar in Political Theory (2) I and II</td>
<td>Mr. Saunders</td>
</tr>
<tr>
<td>310</td>
<td>Seminar in Public Administration (2) I and II</td>
<td>Mr. Meller, Mr. Spellacy</td>
</tr>
</tbody>
</table>

## History

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) An oral examination covering previous work in the field to be taken as soon as possible after becoming a graduate student.

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. Mr. Sakamaki
208 Expansion of European Civilization (3) I Mr. Sakamaki
209-210 History of England (3-3) Yr. Mr. Murphy
211 Constitutional History of England (3) I Mr. Hunter
213 History of Modern Russia (3) I Mr. Marder
214 History of Soviet Russia (3) II Mr. Marder
220-221 History of the British Empire (3-3) Yr. Mr. Murphy
225 History of China (3-3) Yr. Mr. White
226 History of Japan (3-3) Yr. Mr. Sakamaki
229 History of the Relations between China and the Occident (3-3) Yr. Mr. White
242-243 History of the United States (3-3) Yr. Mr. Hunter
245 Diplomatic History of the United States (3) I (n. o. 1948-49) Mr. Hunter
246 American Thought and Culture (3) II (n. o. 1948-49) Mr. Hunter
250 History of Early Civilization in the Far East (3) I Mr. Sakamaki
251 History of Thought in Japan (3) II Mr. Sakamaki
252 Constitutional History of the United States (3) II Mr. Hunter
253-254 History of Hispanic America (3-3) Yr. Mr. Neumann
257 Europe in the Nineteenth Century (3) I Mr. Marder
258 Europe Since Versailles (3) II Mr. Marder
276 History of the Hawaiian Islands (3) I Mr. Kuykendall
277 The Pacific Region in Modern Times (2-2) Yr. (n. o. 1948-49) Mr. Kuykendall
285 Russia in Asia (3-3) Yr. Mr. White
295 Cultural History of China (3-3) Yr. (n. o. 1948-49) Mr. White
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) An oral qualifying examination to be taken upon completion of one semester of graduate work.

The graduate program: Courses to be selected from those listed. Required courses are marked with an asterisk. In addition, a course in Statistical Methods is required. A minor (6 to 9 credits) may be chosen in chemistry, in some other field of science, in business and economics, or in education.

Household Science

250 Diet and Disease (3) II (n. o. 1948–49)  
273 Food Habits in Hawaii (4) II  
299 Directed Research in Experimental Cookery (Ar.) I and II  
300 Directed Research in Nutrition (Ar.)  
301 Dietary Studies (Ar.) I and II  
305 Laboratory Methods in Nutrition (3) I and II  
350–351 Seminar in Nutrition (1–1) Yr.  
400 Thesis Research (Ar.) I and II

Staff

Mrs. Gruelle

Miss Miller

Miss Miller

Miss Miller, Staff

Miss Miller

Staff

Requirements for admission to candidacy for the master's degree:

(1) 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.
(2) An oral qualifying examination to be taken as soon as possible after registering for graduate work.

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**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
</tr>
</thead>
<tbody>
<tr>
<td>210</td>
<td>Contemporary Philosophy (3) II</td>
<td>Mr. Shimer</td>
</tr>
<tr>
<td>240</td>
<td>Philosophical Ideas in Contemporary Literature (3) II (n. o, 1948-49)</td>
<td>Mr. McCarthy</td>
</tr>
<tr>
<td>252</td>
<td>Types of Philosophy (3) I</td>
<td>Mr. McCarthy</td>
</tr>
<tr>
<td>253</td>
<td>Problems of Philosophy (3) II</td>
<td>Mr. McCarthy</td>
</tr>
<tr>
<td>262</td>
<td>Aesthetics (3) I (n. o, 1948-49)</td>
<td>Mr. McCarthy</td>
</tr>
<tr>
<td>265</td>
<td>Philosophy, East and West (3) I</td>
<td>Mr. Moore</td>
</tr>
<tr>
<td></td>
<td>(n. o, 1948-49)</td>
<td></td>
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<tr>
<td>270</td>
<td>Indian Philosophy (3) I</td>
<td>Mr. Moore</td>
</tr>
<tr>
<td>271</td>
<td>Chinese Philosophy (3) II</td>
<td>Mr. Moore</td>
</tr>
<tr>
<td>275</td>
<td>Philosophy of Religion (3) I</td>
<td>Mr. Shimer</td>
</tr>
<tr>
<td>281</td>
<td>Confucian Philosophy (3) I (n. o, 1948-49)</td>
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<tr>
<td>282</td>
<td>Taoist Philosophy (3) I (n. o, 1948-49)</td>
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<tr>
<td>283-284</td>
<td>Buddhist Philosophy (2-2) Yr. (n. o, 1948-49)</td>
<td></td>
</tr>
<tr>
<td>286</td>
<td>Science and the Modern World (3) I</td>
<td>Mr. McCarthy</td>
</tr>
<tr>
<td>287</td>
<td>Scientific Method (3) II</td>
<td>Mr. McCarthy</td>
</tr>
<tr>
<td>288</td>
<td>Symbolic Logic (3) II</td>
<td>Mr. McCarthy</td>
</tr>
<tr>
<td>300</td>
<td>Reading and Research (Ar.)</td>
<td>Staff</td>
</tr>
<tr>
<td>303</td>
<td>Seminar in Chinese Philosophy (Ar.) (n. o, 1948-49)</td>
<td></td>
</tr>
<tr>
<td>400</td>
<td>Thesis Research (Ar.) I and II</td>
<td>Staff</td>
</tr>
</tbody>
</table>

**Physics**

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, optics, electricity and magnetism, and modern physics. In addition, courses in general chemistry, mathematics through calculus, mechanics, mechanical drawing, and descriptive geometry are required.

(2) An oral qualifying examination covering previous work in the field to be taken as soon as possible after becoming a graduate student.
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**

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Title</th>
<th>Credits</th>
<th>Instructor</th>
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<tbody>
<tr>
<td>258</td>
<td>ELECTRONICS (3) I</td>
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<td>Mr. Miyake</td>
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<tr>
<td>259</td>
<td>SEISMOLOGY (3) I</td>
<td></td>
<td>Mr. Eller</td>
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<tr>
<td>260</td>
<td>GEOPHYSICS (3) II</td>
<td></td>
<td>Mr. Miyake</td>
</tr>
<tr>
<td>262</td>
<td>SOUND (3) II</td>
<td></td>
<td></td>
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<td>299</td>
<td>READING OR LABORATORY WORK IN ADVANCED PHYSICS (Ar.)</td>
<td>3</td>
<td>Staff</td>
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<tr>
<td>*300</td>
<td>DIRECTED READING OR RESEARCH (Ar.)</td>
<td>3-3</td>
<td>Staff</td>
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<td>*302</td>
<td>THEORETICAL PHYSICS (3-3) Yr.</td>
<td></td>
<td>Mr. Eller</td>
</tr>
<tr>
<td>*400</td>
<td>THESIS RESEARCH (Ar.) I and II</td>
<td></td>
<td>Staff</td>
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</table>

**PSYCHOLOGY**

Requirements for admission to candidacy for the master's degree:

1. An adequate background in psychology. Ordinarily, 28 undergraduate credits in psychology, including general psychology and experimental psychology, will represent such background.
2. An oral examination covering previous work in the field to be taken immediately after becoming a graduate student.

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**

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Title</th>
<th>Credits</th>
<th>Instructor</th>
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<tbody>
<tr>
<td>250</td>
<td>APPLIED PSYCHOLOGY (3) II</td>
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<td>Mr. Forbes</td>
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<tr>
<td>256</td>
<td>BUSINESS AND INDUSTRIAL PSYCHOLOGY (3) I</td>
<td></td>
<td>Mr. Forbes</td>
</tr>
<tr>
<td>*260</td>
<td>STATISTICAL TECHNIQUES IN PSYCHOLOGY (3) I</td>
<td></td>
<td>Mrs. Springer</td>
</tr>
<tr>
<td>*264</td>
<td>PSYCHOLOGICAL MEASUREMENTS (3) II</td>
<td></td>
<td>Mr. Briggs</td>
</tr>
<tr>
<td>*270</td>
<td>PHYSIOLOGICAL PSYCHOLOGY (3) I</td>
<td></td>
<td>Mr. Forbes</td>
</tr>
<tr>
<td>*275</td>
<td>SYSTEMATIC PSYCHOLOGY (3) II</td>
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<td>Mr. Vinacke</td>
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<td>*280</td>
<td>SOCIAL PSYCHOLOGY (3) II</td>
<td></td>
<td>Mr. Vinacke</td>
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<td>283</td>
<td>PSYCHOLOGY OF PERSONALITY (3) I and II</td>
<td></td>
<td>Mr. Vinacke</td>
</tr>
<tr>
<td>286</td>
<td>POLITICAL PSYCHOLOGY (3) I</td>
<td></td>
<td>Mr. Vinacke</td>
</tr>
<tr>
<td>290</td>
<td>CLINICAL PSYCHOLOGY (3) I</td>
<td></td>
<td>Miss Peixotto</td>
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</table>
291 CLINICAL PSYCHOLOGY (3) II  Miss Peixotto
292 MENTAL HYGIENE (3) I and II  Mrs. Springer
295 ABNORMAL PSYCHOLOGY (3) I and II  Mr. Briggs
300 DIRECTED READING OR RESEARCH (Ar.)  Staff
320 GRADUATE SEMINAR (2) I and II  Mr. Forbes
356 PROBLEMS IN CLINICAL PSYCHOLOGY (3) I and II  Mr. Herrick
362 INDIVIDUAL INTELLIGENCE TEST TECHNIQUE  
364 PROJECTIVE TECHNIQUES—INTRODUCTORY (3) I  Mr. Halperin
367 PROJECTIVE TECHNIQUES—ADVANCED (3) II  Mr. Halperin
382 HISTORY OF PSYCHOLOGY (3) I  Mr. Briggs
400 THESIS RESEARCH (Ar.) I and II  Staff

SOCIOMETRY

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 philosophy, economics, psychology, anthropology, and government are recommended.

(2) An oral qualifying examination to be taken as soon as possible after registering for graduate work.

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

253 RURAL SOCIOLOGY (3) I  Mr. Hormann
254 URBAN SOCIOLOGY (3) II  Mr. Steiner
255 SOCIAL DISORGANIZATION (3) II  Mr. Hormann
256 RACE AND CULTURE CONTACTS IN HAWAII (2) I  Mr. Lind
257 RACE RELATIONS IN THE PACIFIC (3) II  Mr. Steiner
258 RACE RELATIONS (3) I  Mr. Steiner
259 PEOPLES AND INSTITUTIONS OF JAPAN (3) I  Mr. Steiner
262 SOCIAL CONTROL (3) I (n. o. 1948-49)
263 PUBLIC OPINION AND THE COMMUNITY (3) II  Mr. Cheng
265 CRIMINOLOGY (3) I (n. o. 1948-49)
266 SOCIAL INSTITUTIONS (3) I  Mr. Cheng
<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Instructor</th>
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</thead>
<tbody>
<tr>
<td>The Family (3) II</td>
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<td>Mr. Cheng</td>
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<tr>
<td>Human Migrations (3) II</td>
<td></td>
<td>Mr. Steiner</td>
</tr>
<tr>
<td>Personality and Culture (3) I (n. o. 1948-49)</td>
<td></td>
<td>Mr. Steiner</td>
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<tr>
<td>Population and Society (3) I</td>
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<td>Mr. Steiner</td>
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<tr>
<td>Human Ecology (3) I (n. o. 1948-49)</td>
<td></td>
<td>Mr. Cheng</td>
</tr>
<tr>
<td>Collective Behavior (3) II (n. o. 1948-49)</td>
<td></td>
<td>Mr. Cheng</td>
</tr>
<tr>
<td>Social Change (3) I</td>
<td></td>
<td>Mr. Cheng</td>
</tr>
<tr>
<td>Methods of Social Research (3) II (n. o. 1948-49)</td>
<td></td>
<td>Staff</td>
</tr>
<tr>
<td>Directed Reading or Research (Ar.)</td>
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<tr>
<td>Graduate Seminar (2-2) Yr.</td>
<td></td>
<td>Mr. Lind, Mr. Hormann</td>
</tr>
<tr>
<td>Social Research (Ar.) (n. o. 1948-49)</td>
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<td>Mr. Lind</td>
</tr>
<tr>
<td>Thesis Research (Ar.) I and II</td>
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<td>Staff</td>
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</table>

**SPEECH**

Requirements for admission to candidacy for the master's degree:

1. At least 24 credits in speech, including one course in each of the four major areas: pathology, interpretation, rhetoric and public address, and theater.

2. An oral qualifying examination to be taken as soon as possible after registering as a graduate student.

The graduate program: Courses to be selected from those listed below. The qualifying committee will determine which courses are required in the case of each candidate. A maximum of 6 semester hours may be earned in closely related courses in other fields.

**Speech**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Instructor</th>
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</thead>
<tbody>
<tr>
<td>Phonetics (3) I</td>
<td></td>
<td>Mr. Smith</td>
</tr>
<tr>
<td>Principles of Speech Correction (3-3) Yr.</td>
<td></td>
<td>Mr. Parry</td>
</tr>
<tr>
<td>Speech Therapy (3) I</td>
<td></td>
<td>Mr. Simon</td>
</tr>
<tr>
<td>Advanced Speech Therapy (3) II</td>
<td></td>
<td>Mr. Simon</td>
</tr>
<tr>
<td>Semantics (3) II</td>
<td></td>
<td>Mr. Cornwell</td>
</tr>
<tr>
<td>Advanced Interpretation (3) II</td>
<td></td>
<td>Mr. Smith</td>
</tr>
<tr>
<td>Radio Speaking (3) II</td>
<td></td>
<td>Mr. White</td>
</tr>
<tr>
<td>Acting (3-3) Yr.</td>
<td></td>
<td>Mr. Trapido, Miss Bentley</td>
</tr>
<tr>
<td>Theory and Practice of Direction (3-3) Yr.</td>
<td></td>
<td>Mr. Ernst</td>
</tr>
<tr>
<td>Stagecraft (3-3) Yr. (n. o. 1948-49)</td>
<td></td>
<td>Mr. Trapido</td>
</tr>
<tr>
<td>History of the Theater (3) II (n. o. 1948-49)</td>
<td></td>
<td>Mr. Ernst</td>
</tr>
<tr>
<td>Aesthetics of the Theater (3) I (n. o. 1948-49)</td>
<td></td>
<td>Mr. Ernst</td>
</tr>
<tr>
<td>Modern Theories of Stage Presentation (3) I</td>
<td></td>
<td>Mr. Ernst</td>
</tr>
<tr>
<td>(n. o. 1948-49)</td>
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</tbody>
</table>
Requirements for admission to candidacy for the master's degree:

1. Undergraduate preparation. Candidates planning to specialize in entomology should have completed a minimum of 18 undergraduate credits in zoology and entomology, including general zoology, physiology, general entomology, insect morphology, systematic entomology, and agricultural entomology. Candidates in general zoology should have completed a minimum of 18 undergraduate credits in zoology, including an introductory course, comparative vertebrate anatomy, vertebrate embryology, and general physiology. In addition, basic courses in chemistry, physics, and botany are required.

2. An oral qualifying examination covering previous work in the field to be taken as soon as possible after registering for graduate work.

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 entomology. Those marked with a dagger are required of students working toward a degree in zoology. A maximum of 6 credits may be earned in related courses in botany, genetics, horticulture, and chemistry by entomology candidates and in botany, chemistry, genetics, mathematics, and physics by zoology candidates.
Convocation, Arthur L. Andrews Theater
Zoology

240 INTRODUCTION TO ECOLOGY (2) I  Mr. Hiatt, Mr. Gosline
245 VERTEBRATE NATURAL HISTORY (3) I  Mr. Gosline
251 CYTOLOGY (3) I (n. o. 1948-49)  Miss Heizer
253 PARASITOLOGY (3) I  Mr. Alicata
\*254 INSECT MORPHOLOGY (3) I  Mr. Tuthill
\*255 SYSTEMATIC ENTOMOLOGY (3) II  Mr. Tuthill
260 HISTOLOGY (3) I  Miss Heizer
261 VERTEBRATE EMBRYOLOGY (3) II  Miss Heizer
262 MICROTECHNIQUE (3) II  Mr. Banner
266 HEMATOLOGY (2) II (n. o. 1948-49)  Mr. Banner
\*273 AGRICULTURAL ENTOMOLOGY (3) II  Mr. de Laubenfels
275 GENERAL Ichthology (3-3) Yr.  Mr. Gosline
276 BIOMETRY (3) I  Mr. Tuthill
277 BIOMETRICAL ANALYSIS (3) II  Mr. Tuthill
280 COMPARATIVE MORPHOLOGY OF INVERTEBRATES (3) I  Mr. Banner
281 TAXONOMY AND Ecology OF MARINE INVERTEBRATES (3) II  Mr. Hiatt
285 ORGANIC Evolution (2) II  Mr. de Laubenfels
287 METHODS OF FISHERY INVESTIGATION (3) I  Mr. Tuthill
290 OCEANOGRAPHY (3) II  Mr. Banner
291 GENERAL PHYSIOLOGY (3) II  Mr. Scheer
292 COMPARATIVE INVERTEBRATE PHYSIOLOGY (3) I  Mr. Scheer
300 DIRECTED RESEARCH (Ar.)  Staff
\*310 GENERAL ZOOLOGY SEMINAR (1-1) Yr.  Staff
\*311 ENTOMOLOGY SEMINAR (1) I. May be repeated.  Staff
\*312 SEMINAR IN MARINE ZOOLOGY (1-1) Yr.  Staff
\*315 ZOOLOGICAL LITERATURE (1) I  Staff
\*316 PREPARATION OF SCIENTIFIC MANUSCRIPTS (1) II  Mr. Tuthill
352 INSECT Ecology (3) I (Alternate years; o. 1948-49)
353 PRINCIPLES OF APPLIED ENTOMOLOGY (3) I  Mr. Carter
(Alternate years; n. o. 1948-49)
355-356 INSECT-TRANSMITTED DISEASES OF PLANTS (3-1) Yr.
Second semester may be repeated.  Mr. Carter
\*400 THESIS RESEARCH (Ar.) I and II  Staff

38