Announcement for 1939-1940
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The Graduate Division Announcement for 1939-1940

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Officers of Administration

President of the University, DAVID L. CRAWFORD, LL.D.
Vice-President of the University, ARTHUR R. KELLER, M.S.
Director of the Graduate Division, PAUL S. BACHMAN, Ph.D.
Dean of the Graduate School of Tropical Agriculture, ROYAL N. CHAPMAN, Ph.D.
Director of the Oriental Institute, GREGG M. SINCLAIR, M.A.
Director of the Kilauea Volcano Laboratory, THOMAS A. JAGGAR, Ph.D.
Registrar, HELEN B. MACNEIL, M.A.

The Graduate Committee

P. S. BACHMAN (chairman), R. N. CHAPMAN, G. M. SINCLAIR, E. M. BILGER, H. ST. JOHN, B. WHITE, C. A. MOORE.

Calendar

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
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<tbody>
<tr>
<td>Six-weeks summer session begins</td>
<td>Monday</td>
</tr>
<tr>
<td>Six-weeks summer session closes</td>
<td>Friday</td>
</tr>
<tr>
<td>Post session begins</td>
<td>Monday</td>
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<tr>
<td>Post session closes</td>
<td>Friday</td>
</tr>
<tr>
<td>Registration of graduate students for first semester</td>
<td>Friday</td>
</tr>
<tr>
<td>Registration of graduate students for second semester</td>
<td>Saturday</td>
</tr>
<tr>
<td>Last day for making application for graduation in June</td>
<td>Wednesday</td>
</tr>
<tr>
<td>Registration of graduate students for second semester</td>
<td>Friday</td>
</tr>
<tr>
<td>Last day for arranging date of final examination for advanced degrees</td>
<td>Wednesday</td>
</tr>
<tr>
<td>Last day for depositing dissertations in the University Library</td>
<td>Saturday</td>
</tr>
<tr>
<td>29th annual Commencement</td>
<td>Tuesday</td>
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<tr>
<td>Six-weeks summer session begins</td>
<td>Monday</td>
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</table>

1939

1940
The Graduate Faculty

**Anthropology and Sociology**

Felix M. Keesing, D.Litt., Anthropology
Andrew W. Lind, Ph.D., Sociology
Gordon T. Bowles, Ph.D., Anthropology
John F. Embree, Ph.D., Anthropology

**Botany**

Harold St. John, Ph.D., Taxonomy
Harry F. Clements, Ph.D., Plant Physiology
Oscar N. Allen, Ph.D., Bacteriology
G. K. Parris, Ph.D., Plant Pathology
Daniel Weller, Plant Anatomy and Histology
Charles J. Engard, Ph.D., Plant Physiology

**Chemistry**

Frank T. Dillingham, M.A., Agricultural and Biological Chemistry
Leonora Neuffer Bilger, Ph.D., Organic Chemistry
Earl M. Bilger, Ph.D., Physical Chemistry
John H. Payne, Ph.D., Organic Chemistry
Gichí Fujimoto, M.S., Analytical Chemistry

**Economics and Business**

Merton K. Cameron, Ph.D., Economics
Matthew M. Graham, C.P.A., Accounting
William H. Taylor, Ph.D., International Economics and Trade
Harold J. Hoflich, Ph.D., Finance
Ralph C. Hoebber, J.D., Business Law

**Education**

Benjamin O. Wist, Ph.D., Educational Administration
Thayne M. Livesay, Ph.D., Educational Psychology
E. Vern Sayers, Ph.D., Educational Philosophy and Elementary Education
Fred E. Armstrong, M.A., Agricultural Education
R. Ray Scott, Ph.D., Adult Education
Willis B. Coale, Ph.D., Teaching of English
Jesse A. Tanner, Ph.D., History of Education
Bruce White, Ph.D., Secondary Education
William T. Bryan, Ph.D., Curriculum
Madorah E. Smith, Ph.D., Educational Psychology
George P. Gordon, M.A., History of Education

**English**

N. B. Beck, Ph.D., Speech
Gregg M. Sinclair, M.A., Comparative Literature
CHARLES H. NEIL, M.A., English Literature
LAURA V. SCHWARTZ, Ph.D., English Literature
T. BLAKE CLARK, Ph.D., English Literature
CARL G. STROVEN, M.A., American Literature
WILLARD WILSON, M.A., English Drama
FLORENCE HENDERSON, Ph.D., Speech

Geography
JOHN W. COULTER, Ph.D., Economic Geography
STEPHEN B. JONES, Ph.D., Political Geography

History and International Relations
WILLIAM H. GEORGE, Ph.D., Comparative Government
PAUL S. BACHMAN, Ph.D., International Relations
WALTER B. POSEY, Ph.D., American History
SHOU-YI CH'EN, Ph.D., Chinese History
RALPH S. KUYKENDALL, M.A., Hawaiian History
CHARLES H. HUNTER, Ph.D., American History
KLAAUS MEHNERT, Ph.D., Russian and German History
SHUNZO SAKAMAKI, Ph.D., Japanese History

Nutrition
CAREY D. MILLER, M.S., Nutrition
KATHERINE BAZORE, M.A., Nutrition
MARTHA POTGIETER, Ph.D., Nutrition

Philosophy
CHARLES A. MOORE, Ph.D., Philosophy
WING-TSIT CHAN, Ph.D., Oriental Philosophy
E. VERN SAYERS, Ph.D., Educational Philosophy
J. LESLIE DUNSTAN, Ph.D., Philosophy of Religion

Physics
WILLARD H. ELLER, Ph.D., Electricity and Magnetism
STANLEY S. BALLARD, Ph.D., Spectroscopy
IWAO MIYAKE, M.S., Acoustics and Communications

Social Work Training
EILEEN BLACKEY, M.S.S., Director of the Course
FAITH GORDON, M.D., Social Work Training

Zoology
CHARLES H. EDMONDSON, Ph.D., Marine Biology
CHRISTOPHER J. HAMRE, Ph.D., Histology
F. G. HOLDAWAY, Ph.D., Entomology
JOSEPH E. ALICATA, Ph.D., Parasitology
MILTON A. MILLER, Ph.D., Zoology

Graduate School of Tropical Agriculture
ROYAL N. CHAPMAN, Ph.D., Dean
JOSEPH E. ALICATA, Ph.D., Parasitology
OSCAR N. ALLEN, Ph.D., Bacteriology
STANLEY S. BALLARD, Ph.D., Physics
JOHN H. BEAUMONT, Ph.D., Horticulture
LEONORA N. BILGER, Ph.D., Organic Chemistry
WALTER CARTER, Ph.D., Entomology
HAROLD E. CLARK, Ph.D., Biochemistry
HARRY F. CLEMENTS, Ph.D., Plant Physiology
JULIUS L. COLLINS, Ph.D., Genetics
FRANCIS E. HANCE, Ph.D., Soil Chemistry
F. G. HOLDAWAY, Ph.D., Entomology
MAURICE B. LINFORD, Ph.D., Plant Pathology
HAROLD L. LYON, Ph.D., Forest Botany
ALBERT J. MANGELSDORF, D.Sc., Genetics
HAROLD S. PALMER, Ph.D., Geology
G. K. PARRIS, Ph.D., Plant Pathology
JOHN H. PAYNE, Ph.D., Organic Chemistry
CYRIL E. PEMBERTON, A.B., Entomology
CARL T. SCHMIDT, Ph.D., Entomology
CHRISTOS P. SIDERIS, Ph.D., Plant Physiology
HAROLD ST. JOHN, Ph.D., Taxonomy
OTTO H. SWEZEY, M.S., Entomology
HAROLD A. WADSWORTH, B.S., Soil Physics

Oriental Institute

GREGG M. SINCLAIR, M.A., Director
SHAO CHANG LEE, M.A., Chinese History
WING-TSIT CHAN, Ph.D., Chinese Institutions
SHOU-YI CH’EN, Ph. D., Chinese History
D. T. SUZUKI, Ph.D., Buddhist Philosophy
CHENK-WOON TAAM, Ph.D., Bibliography
DENZEL CARR, Ph.D., Linguistics
SHUNZO SAKAMAKI, Ph.D., Japanese History
TADAO KUNITOMO, M.A., Japanese Language
YUKUO UYEHARA, M.A., Japanese Language
CHARLES A. MOORE, Ph.D., Philosophy
PAUL S. BACHMAN, Ph.D., Political Science
WILLIAM H. TAYLOR, Ph.D., Economics
GORDON T. BOWLES, Ph.D., Anthropology
JOHN F. EMBREE, Ph.D., Anthropology
JOHN W. COULTER, Ph.D., Geography
KLAUS MEHNERT, Ph.D., Russian History

Kilauea Volcano Laboratory

THOMAS A. JAGGAR, Ph. D., Director
HAROLD S. PALMER, Ph. D., Geology
WILLARD H. ELLER, Ph. D., Geophysics
STANLEY S. BALLARD, Ph. D., Geophysics
JOHN H. PAYNE, Ph. D., Geochemistry
Graduate Study in the University of Hawaii

The University of Hawaii offers opportunities for graduate study and research in anthropology, botany, chemistry, economics and business, education, English, geography, history, international relations, nutrition, Oriental studies, philosophy, physical geology and geophysics, physics, sociology, social work training, speech, zoology, and the sciences basic to tropical agriculture.

In certain of these fields the opportunities are unusual. The mingling in the Territory of peoples of the Occident, the Orient, and the South Seas offers unusual opportunities for the first-hand study of racial and cultural contacts. The cooperative organization of the sugar and pineapple industries permits research in the various phases of large scale production as applied to agriculture. For qualified graduate students and research workers in physical geology and geophysics, the facilities of the Kilauea Volcano Laboratory are available, through cooperative agreement with the National Park Service. No superior natural laboratory for geology and geophysics exists. The location of the islands offers students of marine biology a natural laboratory for the study of marine life in the tropics. In the field of education the racial composition of the school population and experiments in progressive education being conducted in the schools of the Territory afford numerous opportunities for interesting and valuable studies. For graduate work in the physical and biological sciences relating to tropical agriculture, the University's instructional personnel and laboratory equipment are supplemented by the staffs and facilities of research organizations cooperating with the University in the Graduate School of Tropical Agriculture. These cooperating institutions are: the experiment station of the Hawaiian Sugar Planters' Association, the experiment station of the Pineapple Producers Cooperative Association, the Hawaii Agricultural Experiment Station, under the direction of the University, and the Bernice P. Bishop Museum with its extensive collections of Hawaiian and South Pacific plants and insects.

The University emphasizes the study of the cultures and the civilizations of the Far East. For the development of this field, the Oriental Institute was established in 1935, and the offering of graduate work in Far Eastern studies was increased. The University now has special facilities for the study of Oriental languages and for the translation of source material.

For the teacher, administrator, missionary, journalist, or research worker whose interests lie in Pacific and Asiatic countries, graduate study in the University affords an excellent opportunity to acquire the basic knowledge necessary to his profession.

Libraries

The University Library contains approximately 120,000 volumes and 322,000 pamphlets. Special effort has been made to collect re-
search materials relating to the Pacific and the Far East. Publications in Chinese, Japanese, and Russian are catalogued in English, and translation facilities are obtainable. The Library of the Institute of Pacific Relations was recently donated to the University, and the Hawaii group of the Institute now assists the University in maintaining a reference reading room devoted exclusively to the Pacific and the Orient.

Other libraries available to the graduate student are: the Library of Hawaii, a general public library containing much valuable material; the library of the Bishop Museum, valuable for Polynesian history and culture; the Carter Library of Hawaiian history; the Territorial Archives; and the libraries of the Hawaiian Sugar Planters' Association and the Pineapple Producers Cooperative Association, which are of special importance to students of tropical agriculture. In addition, the Hawaiian Volcano Observatory at Kilauea Crater has a good collection of publications relating to volcanology and seismology. Efforts have been made by these libraries to avoid needless duplication in their respective collections.

Graduate Study in the Summer Sessions

A six-weeks session from late June to early August and a three-weeks post session in August afford opportunity for graduate work in the summer. Candidates for the Master of Education degree may find it possible to complete all their requirements by attending summer sessions.

Graduate Study at Kilauea Volcano Laboratory

The University offers opportunity for a small number of qualified graduate students and research workers to pursue at Kilauea Crater research and advanced study in geophysics and the related fields of physics and botany.

Admission

Admission to the Graduate Division is granted to graduates of accredited colleges and universities. Application for admission should be made to the Director 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.
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 may be accepted as fulfilling part of the requirements for an advanced degree. For the Master's degree, the maximum amount which may be accepted is eight semester hours.

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

No extension course may be counted toward an advanced degree.

Registration and Grades

Graduate students may not register for more than sixteen credit hours in any semester, more than six credit hours in a six-weeks summer session, or more than three credit hours in any post summer session. The number of credit hours 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 75 per cent of the course credits carried are automatically dropped from candidacy.

Requirements for Advanced Degrees

The Master's Degree

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

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

Thirty semester hours of graduate study are required for the Master's degree. All work connected with the thesis must be registered for
as thesis research (course number 400 in each major field). A maximum of six semester hours may be earned in the thesis research course, except that in the natural and physical sciences a maximum of twelve is allowed. Of the credits in the major subject other than those received in connection with the preparation of the thesis at least one-half must be earned in courses numbered 300 or over. All of the course work taken by the candidate should be in his major field of interest or in related courses in one or two closely allied fields. A reading knowledge of a foreign language is required in certain fields and, at the discretion of the qualifying committee, may be required of candidates in other fields.

A thesis is required of all candidates for the Master's degree. The thesis should deal with a topic within the field of the major. It must be written in acceptable English and show evidence of ability to pursue research intelligently and to arrive at logical conclusions. The topic must be approved by the committee which admits the student to candidacy. Only after this approval has been granted and the candidate has registered for the thesis research course is a committee appointed to supervise the preparation of the thesis. A candidate expecting to receive the Master's degree in June must submit copies of the completed thesis to the members of his committee for final checking by May 15. Instructions on the form of the thesis may be obtained from the Director of the Graduate Division.

A candidate planning to receive a Master's degree in June must notify the Director not later than November 15.

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

The Civil Engineer Degree

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

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

The Doctor of Philosophy Degree

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

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

Requirements for the Professional Certificate

The Territorial Department of Public Instruction has fixed the following requirements for the Professional Certificate that it grants in recognition of graduate work done by teachers in service: thirty hours of graduate credit, of which at least fifteen hours must be earned in courses primarily for graduates and including Philosophy of Education, History of Education, Advanced Educational Psychology, and Educational Administration. Of the remaining credits, eight may be obtained in extension courses, provided a grade of A or B is received.

Tuition and Fees

Tuition and registration fees for graduate students are identical with 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 per credit hour. Laboratory fees, which are charged in many courses in the biological and physical sciences, vary with the individual course. Other fees in-
clude a $5 diploma fee and a $4 fee for the binding of the thesis or dissertation.

Living Accommodations and Expenses

Comfortable lodgings for men students in the first and second semesters and for both men and women in the summer sessions are provided at Atherton House, a dormitory adjoining the campus. The rates for rooms in the autumn and spring sessions (men only) range from $40 to $100 per semester. The rates for the six-weeks summer session (during which both men and women live at Atherton House) are $50 for single rooms and $40 per person for double rooms.

Rooms in the Women's Dormitory are available in the summer to women graduate students at $25 for the six-weeks session. Residents supply their own sheets, blankets, pillow cases, towels, and curtains.

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

Meals may be obtained at the University Union building, cafeteria style, at reasonable prices.

Graduate Fellowships and Scholarships

The University offers a number of fellowships to graduates of accredited institutions of higher learning who desire to pursue graduate study in the fields in which the University offers advanced degrees. Graduate fellows receive stipends ranging from $250 to $600, pay no registration, tuition, or laboratory fees, carry a limited program of graduate study toward the Master's degree, and act as readers and research or laboratory assistants.

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

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 Director of the Graduate Division is obtained.

Courses marked Not offered 1939-40 will be offered in 1940-41.

Anthropology

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

1. A minimum of 18 undergraduate credits in anthropology.
2. An oral examination covering previous work in the field, to be taken upon completion of one semester of graduate study.

The graduate program: Courses in the major selected from those listed below. A maximum of 6 credits may be earned in closely related courses in an allied field, if the consent of the qualifying committee is obtained.

Anthropology

250 THE POLYNESIANS Keesing
First semester, 2 credits.

252 PEOPLES OF THE PACIFIC Keesing
(Not offered 1939-40.)

254 PEOPLES OF ASIA Bowles
First semester, 3 credits.

255 THE AMERICAN INDIAN Embree
First semester, 2 credits.

257 PEOPLES OF THE WORLD Embree
First semester, 3 credits.

258 GENERAL ETHNOLOGY Embree
Second semester, 3 credits.

259 LANGUAGES OF THE WORLD Carr
Second semester, 2 credits.

261 RACE AND RACE MIXTURE Bowles
Second semester, 2 credits.

262 INTRODUCTION TO LINGUISTICS Carr
(Not offered 1939-40.)
263 PREHISTORY OF EUROPE AND AFRICA
(Not offered 1939-40.)
   Bowles

265 PRIMITIVE SOCIETY
(Not offered 1939-40.)
   Keesing

267 PRIMITIVE RELIGION
   First semester, 2 credits.
   Embree

268 PRIMITIVE ART AND CRAFT
(Not offered 1939-40.)
   Embree

269 FOLKLORE
   Second semester, 2 credits.
   Embree

270 FOLK SOCIETY IN JAPAN AND CHINA
   First semester, 3 credits.
   Embree

271 APPLIED ANTHROPOLOGY
(Not offered 1939-40.)
   Keesing

272 MODERN CHANGES AMONG PACIFIC PEOPLES
   Second semester, 2 credits.
   Keesing

273 MODERN AMERICA
   Second semester, 3 credits.
   Embree

274 FOUNDATIONS OF CIVILIZATION IN INDIA
(Not offered 1939-40.)
   Bowles

275 PREHISTORY OF ASIA
   First semester, 3 credits.
   Bowles

277 SOUTHEAST ASIA
   Second semester, 2 credits.
   Embree, Bowles

278 PHONETICS AND PHONEMICS
(Not offered 1939-40.)
   Carr

280-281 PHYSICAL ANTHROPOLOGY
   Continuous throughout year, 3 credits each semester.
   Bowles

300 ADVANCED READING
   Credit by arrangement.
   Staff

350-351 SEMINAR IN ANTHROPOLOGY
   Continuous throughout year, 3 credits each semester.
   Staff

400 THESIS RESEARCH
   Staff

Botany

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

(1) A minimum of 36 undergraduate credits in botany, including courses in general botany, systematic botany of flowering plants, general bacteriology, and physical factors in plant nutrition and growth, or the equivalent.
(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 selected from those listed below. A maximum of 6 credits may be earned in advanced courses in chemistry, nutrition, or zoology.

**Botany**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Instructor</th>
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</thead>
<tbody>
<tr>
<td>253</td>
<td><strong>PLANT ECOLOGY</strong></td>
<td>St. John</td>
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<tr>
<td></td>
<td>(Not offered 1939-40.)</td>
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<tr>
<td>254</td>
<td><strong>ADVANCED TAXONOMY</strong></td>
<td>St. John</td>
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<td></td>
<td>First semester, 2 or more credits.</td>
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<tr>
<td>258</td>
<td><strong>AGRICULTURAL BACTERIOLOGY</strong></td>
<td>Allen</td>
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<td>(Not offered 1939-40.)</td>
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<tr>
<td>260</td>
<td><strong>MEDICAL BACTERIOLOGY</strong></td>
<td>Allen</td>
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<td></td>
<td>First semester, 4 credits.</td>
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<tr>
<td>263</td>
<td><strong>PLANT PATHOLOGY</strong></td>
<td>Parris</td>
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<td>Second semester, 3 credits.</td>
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<tr>
<td>268</td>
<td><strong>MICROTECHNIQUE</strong></td>
<td>Weller</td>
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<td></td>
<td>(Not offered 1939-40.)</td>
<td></td>
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<tr>
<td>269</td>
<td><strong>PLANT ANATOMY</strong></td>
<td>Weller</td>
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<td>Second semester, 3 credits.</td>
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<tr>
<td>273</td>
<td><strong>PLANT BIOPHYSICS</strong></td>
<td>Clements</td>
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<tr>
<td>274</td>
<td><strong>LABORATORY TECHNIQUE IN PLANT BIOPHYSICS</strong></td>
<td>Clements</td>
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<tr>
<td>275</td>
<td><strong>PLANT BIOCHEMICS</strong></td>
<td>Clements</td>
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<tr>
<td>276</td>
<td><strong>LABORATORY TECHNIQUE IN BIOCHEMICS</strong></td>
<td>Clements</td>
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<td>(Not offered 1939-40.)</td>
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<tr>
<td>300</td>
<td><strong>BOTANICAL RESEARCH</strong></td>
<td>Staff</td>
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<tr>
<td></td>
<td>Credits to be arranged.</td>
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</tr>
<tr>
<td>310</td>
<td><strong>BOTANICAL SEMINAR</strong></td>
<td>Staff</td>
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<tr>
<td></td>
<td>Continuous throughout year, 1 credit each semester.</td>
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<tr>
<td>360</td>
<td><strong>IMMUNOLOGY</strong></td>
<td>Allen</td>
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<td>365</td>
<td><strong>TAXONOMY OF THE DICOTYLEDONS</strong></td>
<td>St. John</td>
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<td>Second semester, 1 credit.</td>
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<tr>
<td>367</td>
<td><strong>TAXONOMY OF THE HIGHER DICOTYLEDONS</strong></td>
<td>St. John</td>
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<tr>
<td></td>
<td>(Not offered 1939-40.)</td>
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<td>370</td>
<td><strong>PHYSIOLOGY OF BACTERIA</strong></td>
<td>Allen</td>
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</table>
Chemistry

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

1. Courses in general chemistry or advanced inorganic, qualitative analysis, elementary and intermediate organic chemistry, physical chemistry, quantitative analysis, and colloidal chemistry.

2. Oral examination as soon as possible after becoming a graduate student.

The graduate program: Courses in the major field selected from those listed below. A maximum of 6 credits may be earned in courses in physics, mathematics, botany, zoology, or nutrition closely related to the candidate's thesis topic.

### Chemistry

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor(s)</th>
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<tr>
<td>211</td>
<td>PHYSICAL CHEMISTRY</td>
<td>E. M. Bilger</td>
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<td>Continuous throughout year, 3 credits each semester.</td>
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<tr>
<td>212</td>
<td>PHYSICAL CHEMISTRY LABORATORY</td>
<td>E. M. Bilger</td>
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<td>Continuous throughout year, 1 credit each semester.</td>
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<td>260</td>
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<td>Dillingham</td>
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<td>RESEARCH IN ORGANIC CHEMISTRY</td>
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<td>310</td>
<td>SEMINAR: CHEMICAL AND PHYSICAL STUDIES IN BIOLOGICAL FIELDS</td>
<td>L. N. Bilger</td>
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<td>1 credit each semester.</td>
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<td>313</td>
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<td>316</td>
<td>ADVANCED QUANTITATIVE ANALYSIS</td>
<td>Dillingham, Fujimoto</td>
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<tr>
<td>317</td>
<td>ADVANCED ORGANIC CHEMISTRY</td>
<td>Payne</td>
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</table>
Economics and Business

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

(1) A minimum of 18 undergraduate credits in economics and business, including the basic course.

(2) Oral examination covering previous work in the field as soon as possible after becoming a graduate student.

The graduate program: Courses in the major field selected from those listed below. A maximum of 6 credits may be earned in closely related courses in an allied field.

Economics

223 History of Economic Institutions
(Not offered 1939-40.) Cameron

250 Economic History of Japan
First semester, 3 credits. Taylor

251 Economic History of China
(Not offered 1939-40.) Taylor

252 Economic Problems of Japan
Second semester, 3 credits. Taylor

253 Economic Problems of China
(Not offered 1939-40.) Taylor

254 Economic Problems of Europe
(Not offered 1939-40.) Taylor

256 Money, Credit, and Prices
First semester, 3 credits. Hoflich

257 Banking
Second semester, 3 credits. Hoflich

261 Public Finance
Second semester, 3 credits. Hoflich

265 International Finance
(Not offered 1939-40.) Taylor

[16]
270 **PUBLIC UTILITIES**  
Second semester, 3 credits.  
Cameron

273 **OCEAN TRANSPORTATION**  
(Not offered 1939-40.)  
Cameron

276 **TRUSTS AND INDUSTRIAL COMBINATIONS**  
(Not offered 1939-40.)  
Cameron

281 **LABOR PROBLEMS**  
(Not offered 1939-40.)  
Taylor

285 **THEORY AND CONTROL OF FOREIGN TRADE**  
First semester, 3 credits.  
Taylor

288 **RISK BEARING AND SPECULATION**  
(Not offered 1939-40.)  
Hoflich

291 **AGRICULTURE ECONOMICS**  
Second semester, 3 credits.  
Cameron

296 **RECENT ECONOMIC THOUGHT**  
(Not offered 1939-40.)  
Hoflich

305-306 **SEMINAR IN GENERAL ECONOMICS**  
Continuous throughout year. Maximum of 3 credits each semester.  
Cameron

310-311 **SEMINAR IN THE ECONOMIC HISTORY OF JAPAN**  
Continuous throughout year. Maximum of 3 credits each semester.  
Taylor

312-313 **SEMINAR IN THE ECONOMIC HISTORY OF CHINA**  
(Not offered 1939-40.)  
Taylor

315-316 **SEMINAR IN FINANCE**  
Continuous throughout year. Maximum of 3 credits each semester.  
Hoflich

400 **THESIS RESEARCH**  
Credit by arrangement.  
Staff

**Business**

250-251 **INTERMEDIATE ACCOUNTING**  
Continuous throughout year, 3 credits each semester.  
Graham

255 **AN ANALYSIS OF FINANCIAL STATEMENTS**  
Second semester, 2 credits.  
Graham

256 **INCOME TAX PROBLEMS AND PROCEDURE**  
Second semester, 2 credits.  
Graham

264 **PRINCIPLES OF BUSINESS**  
Second semester, 3 credits.  
Cameron

265 **CORPORATION FINANCE**  
Second semester, 3 credits.  
Hoflich

266 **INVESTMENT AND INVESTMENT BANKING**  
(Not offered 1939-40.)  
Hoflich
267 Business Cycles and Business Forecasting  
Hoflich  
First semester, 3 credits.

273 Economics of Advertising  
Hoeber  
(Not offered 1939-40.)

275 The Practice of Foreign Trade  
Taylor  
Second semester, 3 credits.

276 Economics of Retail Merchandising  
Hoeber  
(Not offered 1939-40.)

280 Salesmanship and Sales Management  
Hoflich  
Second semester, 3 credits.

291 Statistics  
Hoflich  
Second semester, 3 credits.

305-306 Seminar in General Business  
Staff  
Continuous throughout year. Maximum of 3 credits each semester.

400 Thesis Research  
Staff  
Credit by arrangement.

Education

Requirements for admission to candidacy for the Master of Education degree:

(1) Ed. B. degree, or equivalent, from an accredited institution.

(2) Undergraduate credit in the following fields: History of education in the United States, comparative education, elementary or secondary education, educational measurements, mental hygiene, and educational psychology.

(3) Probationary teaching credit or three years of successful teaching experience.

(4) Graduate credit in the following fields: Philosophy of education, general history of education, advanced educational psychology, educational administration.

(5) A written qualifying examination in the four fields named in (4).

Graduate program: Courses in the education major selected from those listed below. A maximum of 10 credits may be earned in one of the following fields: Agriculture, anthropology and sociology, art, biological science, natural science, mathematics, economics and business, history and political science, English, a foreign language, geography and geology, home economics, music, philosophy, physical education.
Education

250-251 Secondary Education
Continuous throughout year, 3 credits each semester.

259 Child Psychology
First semester, 2 credits.

260 Statistical Method
First semester, 2 credits.

261 Educational Measurements
First semester, 2 credits; repeated second semester.

267 Psychology and Treatment of Exceptional Children
Second semester, 2 credits.

268 Mental Hygiene
First semester, 2 credits; repeated second semester.

285-286 Elementary Education
Continuous throughout year, 3 credits each semester.

291 Adult Education—Aims and Principles
Second semester, 2 credits.

293 Comparative Education
First semester, 2 credits; repeated second semester.

294 Educational Sociology
First semester, 2 credits.

295 History of Education in the United States
First semester, 2 credits; repeated second semester.

296 History of Education in Hawaii
First semester, 2 credits.

297 Hawaiian Educational History in Modern Times
Second semester, 2 credits.

300 Reading and Research
First semester, 1 to 3 credits; repeated second semester.

340 Philosophy of Education
First semester, 4 credits; repeated second semester.

345 Seminar in Philosophy of Education
Continuous throughout year, 2 credits each semester.

350 History of Education
First semester, 4 credits; repeated second semester.

351 Advanced Educational Psychology
First semester, 2 credits; repeated second semester.

361 Mental Deficiency and Abnormality
First semester, 2 credits.

363 Educational Administration
Second semester, 2 credits.
English and Speech

Requirements for admission to candidacy for the Master's degree in literature:

1. A minimum of 18 undergraduate credits in English, including a general course in English literature.
2. A comprehensive written examination in literature.
3. The oral and written presentation of the purpose, scope, and proposed treatment of the thesis subject.

The graduate program: Courses in literature selected from those listed below. Courses numbered 297, 298, 299, 300, and 302 are not ordinarily accepted for the degree in literature.

Requirements for admission to candidacy for the Master's degree in speech:

1. A minimum of 32 credits in English, speech, and psychology, including public speaking, voice and diction, phonetics, and a general course in English literature.
2. A comprehensive written examination in English speech, literature, and psychology.
3. The oral and written presentation of the purpose, scope, and proposed treatment of the thesis subject.

The graduate program: Courses in speech and allied subjects, including English 298, 299, 300, 302, 310, and Psychology 361.

English

250 European Masters
Continuous throughout year, 3 credits each semester.  

252 World Literature
Continuous throughout year, 3 credits each semester.  

[20]
254 CONTINENTAL DRAMA
(Not offered 1939-40.) Wilson

260 AMERICAN LITERATURE
Continuous throughout year, 3 credits each semester. Stroven

262 THE FRONTIER IN AMERICAN LITERATURE
Continuous throughout year, 3 credits each semester. Stroven

270 THE ENGLISH NOVEL FROM THE BEGINNING TO THE PRESENT
Continuous throughout year, 3 credits each semester. Neil

272 ENGLISH DRAMA FROM THE BEGINNING TO THE PRESENT
Continuous throughout year, 3 credits each semester. Wilson

274 THE AGE OF CHAUCER
(Not offered 1939-40.) Schwartz

275 THE AGE OF ELIZABETH
(Not offered 1939-40.) Schwartz

276 SHAKESPEARE
Continuous throughout year, 3 credits each semester. Schwartz

280 THE AGE OF MILTON
Continuous throughout year, 3 credits each semester. Sinclair

282 THE AGE OF POPE AND JOHNSON
Continuous throughout year, 3 credits each semester. Schwartz

284 THE AGE OF WORDSWORTH
Continuous throughout year, 3 credits each semester. Neil

286 THE VICTORIAN PERIOD
(Not offered 1939-40.) Neil

288 THE TWENTIETH CENTURY
(Not offered 1939-40.) Schwartz

297 THE SOUNDS OF ENGLISH
First semester, 2 credits. Henderson

298 CORRECTION OF SPEECH DEFECTS, ELEMENTARY COURSE
Second semester, 2 credits. Henderson

299 TECHNIQUES OF SPEECH IMPROVEMENT IN THE ELEMENTARY GRADES
Second semester, 2 credits. Henderson

300 CORRECTION OF SPEECH DEFECTS, ADVANCED COURSE
Continuous throughout year, 2 credits each semester. Henderson

302 SPEECH CLINIC
Continuous throughout year, maximum of 6 credits. Henderson

310 THE DEVELOPMENT OF MODERN ENGLISH
Credit by arrangement. Staff
350 **SEMINAR IN ENGLISH LITERATURE**  
Continuous throughout year, 2 credits each semester.  
Staff

355 **INDIVIDUAL STUDIES**  
Credit by arrangement.  
Staff

360 **SEMINAR IN AMERICAN LITERATURE**  
Continuous throughout year, 2 credits each semester.  
Staff

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

**Geography**

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

1. A minimum of 18 undergraduate credits in geography, including the basic course.
2. An oral examination covering previous work in the field as soon as possible after becoming a graduate student.

Culminate program: Courses in the major field selected from those listed below. A maximum of 6 credits may be earned in closely related courses in one of the following fields: geology, economics, history, political science, and sociology.

**Geography**

200 **Field Geography**  
Credit by arrangement.  
Coulter

252 **Geography of North America**  
First semester, 3 credits.  
Coulter

255 **Geography of Asia**  
Second semester, 3 credits.  
Coulter

262 **Geography of Hawaii**  
First semester, 2 credits.  
Coulter

263 **Geography of Pacific Islands**  
Second semester, 2 credits.  
Coulter

271 **Political Geography**  
First semester, 2 credits.  
Jones

300 **Geography Seminar**  
Continuous throughout year, 2 credits each semester.  
Coulter, Jones

301 **Seminar in Political Geography**  
Continuous throughout year, 2 credits each semester.  
Jones

400 **Thesis Research**  
Credit by arrangement.  
Coulter, Jones
History and International Relations

Requirements for admission to candidacy for the Master's degree in history:

(1) A minimum of 18 undergraduate credits in history, of which at least 10 must relate to the field of the thesis.

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

The graduate program: Courses in the major selected from those listed below. Candidates for the Master's degree in history must be registered in or must have completed History 310 before enrolling for the thesis. A maximum of 6 credits may be earned toward the degree in closely related advanced courses in political science, economics, or history of education.

Requirements for admission to candidacy for the Master's degree in international relations of the Far East:

The requirements for admission to candidacy in the Oriental Institute must be met, and, in addition, the student must have a minimum of 18 undergraduate credits in courses in political science and history relating to international affairs, including a general course in international relations.

The graduate program: Courses relating to Far Eastern international relations selected from those listed under the Oriental Institute.

History

204 DIPLOMATIC AND COLONIAL HISTORY OF MODERN EUROPE
(Not offered 1939-40.) Mehnert

209-210 POLITICAL AND SOCIAL HISTORY OF ENGLAND
Continuous throughout year, 3 credits each semester. Posey

211 CONSTITUTIONAL HISTORY OF ENGLAND
(Not offered 1939-40.) Hunter

212 HISTORY OF CENTRAL EUROPE
(Not offered 1939-40.) Mehnert

213 HISTORY OF MODERN RUSSIA
Six-weeks summer session 1939, 2 credits. Mehnert

216 HISTORY OF RUSSIAN CULTURE AND THOUGHT IN THE 19TH AND 20TH CENTURIES
Continuous throughout year, 2 credits each semester. Mehnert

218 EUROPE IN THE PACIFIC
First semester, 3 credits. Mehnert

219 EUROPE IN ASIA
Second semester, 3 credits. Mehnert
225 HISTORY OF CHINA
Continuous throughout year, 3 credits each semester.

Lee

226 HISTORY OF JAPAN
Continuous throughout year, 3 credits each semester.

Sakamaki

229 HISTORY OF THE CULTURAL RELATIONS BETWEEN CHINA AND THE OCCIDENT
Continuous throughout year, 2 credits each semester.

Ch'en

235 HISTORY OF ANCIENT CHINA
Second semester, 3 credits.

Ch'en

241-242 HISTORY OF THE UNITED STATES
Continuous throughout year, 3 credits each semester.

Posey

243 THE UNITED STATES, 1890-1936
Second semester, 3 credits.

Posey

244-245 DIPLOMATIC HISTORY OF THE UNITED STATES
(Not offered 1939-40.)

Hunter

249 REPRESENTATIVE AMERICANS
(Not offered 1939-40.)

Hunter

250 HISTORY OF EARLY CIVILIZATION IN THE FAR EAST
First semester, 2 credits.

Sakamaki

251 HISTORY OF THOUGHT IN JAPAN
Second semester, 2 credits.

Sakamaki

252 CONSTITUTIONAL HISTORY OF THE UNITED STATES
(Not offered 1939-40.)

Hunter

253-254 HISTORY OF HISPANIC AMERICA
(Not offered 1939-40.)

Hunter

276 HISTORY OF THE HAWAIIAN ISLANDS
(Not offered 1939-40.)

Kuykendall

277 THE PACIFIC REGION IN MODERN TIMES
First semester, 2 credits.

Kuykendall

285 RUSSIA IN ASIA
(Not offered 1939-40.)

Mehnert

286 RUSSIA IN THE PACIFIC
(Not offered 1939-40.)

Mehnert

295 SOCIAL HISTORY OF CHINA
Continuous throughout year, 2 credits each semester.

Ch'en

310 SEMINAR IN HISTORICAL METHOD
First semester, 2 credits.

Posey

311 SEMINAR IN AMERICAN DIPLOMATIC HISTORY
(Not offered 1939-40.)

Hunter

313 SEMINAR IN HISTORIOGRAPHY
Second semester, 2 credits.

Posey
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<td>Seminar in Japanese History</td>
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<td>316</td>
<td>Seminar in Chinese Cultural History</td>
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<td>318</td>
<td>Seminar: Russia in the Far East</td>
<td>Mehnert</td>
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<td>327</td>
<td>Seminar in Hawaiian History</td>
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<tr>
<td>400</td>
<td>Thesis Research</td>
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</table>

**Nutrition**

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

1. A minimum of 18 undergraduate credits in courses in foods and nutrition, plus courses in general, organic, and biological chemistry.

2. An oral qualifying examination, to be taken upon completion of one semester of graduate work.

The graduate program: Courses ordinarily are selected exclusively from those listed below. However, with the permission of the qualifying committee, a maximum of 6 credits may be earned in related courses in an allied field.

**Chemistry**

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<td>316</td>
<td>Advanced Quantitative Analysis</td>
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**Botany**

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**Mathematics**

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<td>280</td>
<td>Statistics</td>
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**Zoology**

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<td>260</td>
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<td>262</td>
<td>Microtechnique</td>
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**Household Science**

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<tbody>
<tr>
<td>349</td>
<td>Research in Nutrition</td>
<td>Miller, Bazore</td>
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</table>
350-351 SEMINAR IN NUTRITION
Continuous throughout year, 1 credit each semester.

373 RACIAL FOOD HABITS IN HAWAII
Second semester, 4 credits.

400 THESIS RESEARCH
Credit by arrangement.

Philosophy

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

(1) A minimum of 18 undergraduate credits in philosophy, including a general course in the history of philosophy.

(2) An oral examination covering previous work in the field, taken immediately after becoming a graduate student.

The graduate program: Courses in the major field selected from those listed below. A maximum of 6 credits may be earned in advanced courses in a closely related field.

Philosophy

252-253 PROBLEMS OF PHILOSOPHY
Moore
(Not offered 1939-40.)

260-261 IDEALISM AS A PHILOSOPHY
Continuous throughout year, 3 credits each semester.

270-271 EASTERN PHILOSOPHIES
Continuous throughout year, 2 credits each semester.

280 LOGIC AND SCIENTIFIC METHOD
First semester, 3 credits.

300 READINGS IN HISTORY OF PHILOSOPHY
Credit by arrangement.

310 SEMINAR IN LOGIC
Moore
(Not offered 1939-40.)

321 SEMINAR IN COMPARATIVE PHILOSOPHY
Continuous throughout year, 2 credits each semester.

Oriental Studies

281 CONFUCIAN PHILOSOPHY
First semester, 3 credits.

282 TAOIST PHILOSOPHY
Second semester, 3 credits.

302 SEMINAR IN BUDDHIST PHILOSOPHY
Credit by arrangement.

Religion

259 ETHICS AND RELIGION
Second semester, 2 credits.
351 PHILOSOPHY OF RELIGION
   Second semester, 2 credits.
   Dunstan

Education

340 PHILOSOPHY OF EDUCATION
   First semester, 3 credits; repeated second semester.
   Sayers

345 SEMINAR IN PHILOSOPHY OF EDUCATION
   Continuous throughout year, 2 credits each semester.
   Sayers

Physics

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

(1) A minimum of 18 undergraduate credits in physics, including
    the basic course.

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

The graduate program: Courses in physics selected from those listed
below. A maximum of 6 credits may be earned in advanced
courses in mathematics or chemistry.

Physics

255 LIGHT Ballard
   First semester, 3 credits.

256 OPTICS LABORATORY Ballard
   First semester, 1 credit.

275 ELECTRICITY AND MAGNETISM Eller
   First semester, 3 credits.

280 MODERN PHYSICS Ballard
   (Not offered 1939-40.)

361 GRADUATE PHYSICS Staff
   Continuous throughout year, 3 credits each semester.

400 THESIS RESEARCH Staff
   Credit by arrangement.

The following courses will be offered either semester if there is suf-
fi-cient demand (credit by arrangement):

263 THEORETICAL MECHANICS Eller

266 SOUND Miyake

270 HEAT Eller, Ballard

353 ADVANCED PHYSICAL OPTICS Ballard

355 SPECTROSCOPY Ballard

356 THEORY OF SPECTRA Ballard
359 Electronics
Eller

375 Advanced Electricity and Magnetism
Eller

Social Work Training
Professional courses for persons desiring to qualify for social work. At present no certificate or advanced degree is offered in this field.

Social Work Training
300 Theory of Social Case Work
Continuous throughout year, 3 credits each semester. Blackey

302 Methods of Social Case Work
Continuous throughout year, 3 credits each semester. Blackey

303 Health and Disease
First semester, 2 credits. Gordon

350 Public Welfare Administration
(Not offered 1939-40.) Blackey

Sociology
Requirements for admission to candidacy for the Master's degree:
(1) A minimum of 18 undergraduate credits in sociology.
(2) An oral examination covering previous work in the field, to be taken upon completion of one semester of graduate study.

The graduate program: Courses in the major selected from those listed below. A maximum of 6 credits may, with the consent of the qualifying committee, be earned in closely related courses in an allied field.

Sociology
252 The Community
First semester, 3 credits. Staff

253 The Rural Community
(Not offered 1939-40.) Lind

254 The Urban Community
Second semester, 3 credits. Staff

255 Social Disorganization
Second semester, 3 credits. Staff

256 Race Relations in Hawaii
First semester, 3 credits. Lind

258 Race Relations in the Pacific
Second semester, 3 credits. Lind
267 **THE FAMILY**  
First semester, 3 credits.  

268 **HUMAN MIGRATIONS**  
First semester, 3 credits.  

269 **PERSONALITY AND CULTURE**  
Second semester, 3 credits.  

270 **POPULATION AND SOCIETY**  
(Not offered 1939-40.)  

271 **HUMAN ECOLOGY**  
(Not offered 1939-40.)  

272 **COLLECTIVE BEHAVIOR**  
(Not offered 1939-40.)  

273 **SOCIAL INSTITUTIONS**  
(Not offered 1939-40.)  

274 **SOCIAL CHANGE**  
Second semester, 3 credits.  

275 **MODERN SOCIOLOGICAL THEORIES**  
(Not offered 1939-40.)  

276 **PRINCIPLES OF SOCIOLOGY**  
(Not offered 1939-40.)  

300 **ADVANCED READING IN SOCIOLOGY**  
Credit by arrangement.  

350-351 **SEMINAR IN SOCIOLOGY**  
Continuous throughout year, 2 credits each semester.  

400 **THESIS RESEARCH**  
Credit by arrangement.  

**Zoology**

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

(1) Undergraduate credit in general zoology, comparative anatomy of vertebrates, histology, embryology, systematic zoology, or the equivalent, plus work in chemistry and elementary college physics. Previous training in botany desirable. Requirements in entomology listed under requirements for admission to candidacy for advanced degrees in the Graduate School of Tropical Agriculture.

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

The graduate program: Courses in zoology selected from those listed below. A maximum of 6 credits may be earned in advanced courses in chemistry or botany.
### Zoology

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
</tr>
</thead>
<tbody>
<tr>
<td>253</td>
<td>Parasitology</td>
<td>Alicata</td>
</tr>
<tr>
<td></td>
<td>Second semester, 3 credits.</td>
<td></td>
</tr>
<tr>
<td>254</td>
<td>Insect Morphology</td>
<td>Holdaway</td>
</tr>
<tr>
<td></td>
<td>First semester, 2 credits.</td>
<td></td>
</tr>
<tr>
<td>255</td>
<td>Systematic Entomology</td>
<td>Holdaway</td>
</tr>
<tr>
<td></td>
<td>Second semester, 2 credits.</td>
<td></td>
</tr>
<tr>
<td>260</td>
<td>Histology</td>
<td>Hamre</td>
</tr>
<tr>
<td></td>
<td>First semester, 3 credits.</td>
<td></td>
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<tr>
<td>261</td>
<td>Vertebrate Embryology</td>
<td>Hamre</td>
</tr>
<tr>
<td></td>
<td>Second semester, 3 credits.</td>
<td></td>
</tr>
<tr>
<td>285</td>
<td>Evolution and Eugenics</td>
<td>Miller</td>
</tr>
<tr>
<td></td>
<td>Second semester, 2 credits.</td>
<td></td>
</tr>
<tr>
<td>300</td>
<td>Research in Zoology</td>
<td>Staff</td>
</tr>
<tr>
<td></td>
<td>Credit by arrangement.</td>
<td></td>
</tr>
<tr>
<td>301</td>
<td>Principles of Applied Entomology</td>
<td>Holdaway</td>
</tr>
<tr>
<td></td>
<td>Continuous throughout year, 3 credits each semester.</td>
<td></td>
</tr>
<tr>
<td>310</td>
<td>Zoology Seminar</td>
<td>Staff</td>
</tr>
<tr>
<td></td>
<td>Continuous throughout year, 1 credit each semester.</td>
<td></td>
</tr>
<tr>
<td>351</td>
<td>Cellular Biology</td>
<td>Hamre</td>
</tr>
<tr>
<td></td>
<td>Second semester, 2 credits.</td>
<td></td>
</tr>
<tr>
<td>362</td>
<td>Microtechnique</td>
<td>Hamre</td>
</tr>
<tr>
<td></td>
<td>First semester, 2 credits.</td>
<td></td>
</tr>
<tr>
<td>370</td>
<td>Systematic Zoology</td>
<td>Edmondson</td>
</tr>
<tr>
<td></td>
<td>Continuous throughout year, 2 credits each semester.</td>
<td></td>
</tr>
<tr>
<td>400</td>
<td>Thesis Research</td>
<td>Staff</td>
</tr>
<tr>
<td></td>
<td>Credit by arrangement.</td>
<td></td>
</tr>
</tbody>
</table>

### Graduate School of Tropical Agriculture

Candidates for advanced degrees in the Graduate School of Tropical Agriculture ordinarily major in one of the following fields: (a) entomology, (b) genetics, (c) plant physiology, (d) soil science.

Requirements for admission to candidacy for advanced degrees:

1. Undergraduate preparation—
   - (a) Entomology: Basic courses in botany, chemistry, physics, entomology, and zoology; courses in comparative anatomy of vertebrates and agricultural and medical entomology. Candidates who have not taken parasitology, histology, microtechnique, principles of genetics,
and physiology as undergraduates must include them in the graduate program. Ability to read French or German required.

(b) Genetics: Courses in agronomy, elementary and advanced genetics, general botany, taxonomy, plant physiology, bacteriology, general and organic chemistry, qualitative and quantitative analysis, college mathematics, general physics, general zoology, physiology, and entomology.

(c) Plant physiology: Candidates who plan to end their graduate study with receipt of the Master's degree—a major in botany (or chemistry and a minor in botany), one year of organic chemistry, one year of physics and at least 15 credits from courses in tropical pomology, truck crop production, soils, sugar cane production, principles of genetics, pineapple production, and general irrigation practice. Candidates who plan to continue graduate study beyond the Master's degree—a major (30 credits) in botany, a minor in chemistry (including one semester of quantitative analysis and one year of organic, one year of physics, and one year of calculus.

(d) Soil science: General physics (8 credits); chemistry, through quantitative analysis, including one semester of organic chemistry; mathematics, through coordinate geometry; botany, including bacteriology (12 credits); and soils (5 credits). Candidates for advanced degrees in soil science may specialize in soil chemistry, soil physics, or soil bacteriology, and the basic requirements of undergraduate preparation may be modified by the qualifying committee in accordance with such specialization.

(2) Qualifying examination—

(a) Taken by candidates for the Master's degree upon completion of one semester of graduate work.

(b) Taken by candidates for the Doctor of Philosophy degree at least one academic year prior to the award of the degree; includes a test of reading knowledge of French and German.

The graduate program: With the assistance of his adviser, the student will work out an integrated program of study, courses to be selected not only from those listed below but also from related advanced courses offered by the departments of the University.

Botany

303 PLANT PATHOLOGY SEMINAR

First semester, 1 credit.
304 Research in Plant Pathology  
Credit by arrangement.  
Linford

350 Research in Plant Physiology  
Credit by arrangement.  
Staff

351 Plant Physiology Seminar  
Credit by arrangement.  
Clements

400 Thesis Research  
Staff

Chemistry

302 Research in Organic Chemistry  
Credit by arrangement.  
L. N. Bilger

310 Seminar: Chemical and Physical Studies in Biological Fields  
1 credit.  
L. N. Bilger

Entomology

302 Research in Entomology  
Credit by arrangement.  
Chapman, Carter

350 Insect Ecology  
First semester, 1 credit.  
Chapman

355 Insect Transmitted Diseases of Plants  
Credit by arrangement.  
Carter

400 Thesis Research  
Staff

Genetics

300 Seminar in Genetics  
Credit by arrangement.  
Collins

302 Research in Entomology  
Credit by arrangement.  
Chapman, Carter

400 Thesis Research  
Staff

Soil Science

302 Research in Soil Bacteriology, Soil Chemistry, or Soil Physics  
Credit by arrangement.  
Allen, Wadsworth

350 The Nitrogen Cycle  
First semester, 1 credit.  
Allen

351 Soil Physics and the Relation of Soil Moisture to Plant Growth  
Second semester, 1 credit.  
Wadsworth

352 Bacterial Decomposition  
First semester, 1 credit.  
Allen

400 Thesis Research  
Credit by arrangement.  
Staff

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

1. Undergraduate credit in the history of two of the following countries: Japan, China, India. A minimum of 6 credits is required in each.

2. Reading knowledge of Chinese, Japanese, or Sanskrit. Reading knowledge of French or German may be required if essential to the candidate's research problem.

3. Upon fulfillment of (1) and (2), a qualifying examination covering previous work in the field.

The graduate program: Courses in the major field selected from those listed below. Certain related courses may be taken if the consent of the qualifying committee is obtained.

Oriental Studies

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
<th>Professor</th>
</tr>
</thead>
<tbody>
<tr>
<td>206</td>
<td>Continuation Sanskrit Reading Course</td>
<td>2</td>
<td>Staff</td>
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<tr>
<td></td>
<td>Continuous throughout year, 2 credits each semester.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>211</td>
<td>Continuation Chinese Reading Course</td>
<td>6</td>
<td>Staff</td>
</tr>
<tr>
<td></td>
<td>Second semester</td>
<td></td>
<td></td>
</tr>
<tr>
<td>216</td>
<td>Continuation Japanese Reading Course</td>
<td>6</td>
<td>Carr, Uyehara</td>
</tr>
<tr>
<td></td>
<td>Second semester</td>
<td></td>
<td></td>
</tr>
<tr>
<td>221</td>
<td>Chinese Literature</td>
<td>2</td>
<td>Lee</td>
</tr>
<tr>
<td></td>
<td>Continuous throughout year, 2 credits each semester.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>223</td>
<td>Japanese Literature in Japanese</td>
<td>2</td>
<td>Kunitomo</td>
</tr>
<tr>
<td></td>
<td>Continuous throughout year, 2 credits each semester.</td>
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<tr>
<td>240</td>
<td>Japanese Literature in English</td>
<td>2</td>
<td>Kunitomo</td>
</tr>
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<td></td>
<td>Continuous throughout year, 2 credits each semester.</td>
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</tr>
<tr>
<td>241</td>
<td>History of Oriental Religions</td>
<td>2</td>
<td>Lee</td>
</tr>
<tr>
<td></td>
<td>Continuous throughout year, 2 credits each semester.</td>
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<tr>
<td>250-251</td>
<td>Chinese Literature in English</td>
<td>2</td>
<td>Lee</td>
</tr>
<tr>
<td></td>
<td>Continuous throughout year, 2 credits each semester.</td>
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</tr>
<tr>
<td>253</td>
<td>History of Oriental Art</td>
<td>2</td>
<td>Lee</td>
</tr>
<tr>
<td></td>
<td>Continuous throughout year, 2 credits each semester.</td>
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<tr>
<td>254-255</td>
<td>Chinese Philosophy and Art</td>
<td>2</td>
<td>Staff</td>
</tr>
<tr>
<td></td>
<td>(Not offered 1939-40.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>256-257</td>
<td>History of Japanese Culture and Institutions</td>
<td>2</td>
<td>Sakamaki</td>
</tr>
<tr>
<td></td>
<td>Continuous throughout year, 2 credits each semester.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>263</td>
<td>Chinese Aesthetics</td>
<td>2</td>
<td>Chan</td>
</tr>
<tr>
<td></td>
<td>(Not offered 1939-40.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>268</td>
<td>Great Oriental Philosophers</td>
<td>2</td>
<td>Chan</td>
</tr>
<tr>
<td></td>
<td>First semester, 2 credits.</td>
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</tbody>
</table>
281 **CONFUCIAN PHILOSOPHY**  
  
Second semester, 2 credits.  

282 **TAOIST PHILOSOPHY**  
  
(Not offered 1939-40.)  

283 **BUDDHIST PHILOSOPHY**  
  
First semester, 2 credits.  

284 **INFLUENCE OF ZEN BUDDHISM ON JAPAN**  
  
Continuous throughout year, 2 credits each semester.  

291 **CHINESE CIVILIZATION**  
  
(Not offered 1939-40.)  

293 **METHODS AND BIBLIOGRAPHY IN CHINESE STUDIES**  
  
First semester, 3 credits.  

295 **CHINESE INTELLECTUAL HISTORY**  
  
Continuous throughout year, 2 credits each semester.  

300 **ADVANCED READING AND RESEARCH**  
  
Credit by arrangement.  

301 **SEMINAR IN JAPANESE HISTORICAL LITERATURE IN JAPANESE**  
  
Continuous throughout year, 2 credits each semester.  

302 **SEMINAR IN CHINESE HISTORICAL LITERATURE IN CHINESE**  
  
Continuous throughout year, 2 credits each semester.  

303 **SEMINAR IN CHINESE PHILOSOPHY**  
  
Continuous throughout year, 2 credits each semester.  

304 **SEMINAR IN BUDDHIST PHILOSOPHY**  
  
Continuous throughout year, 2 credits each semester.  

321 **JAPANESE READING COURSE FOR SINOLOGISTS**  
  
First semester, 3 credits.  

322 **CHINESE READING COURSE FOR JAPANOLOGISTS**  
  
Second semester, 3 credits.  

400 **THESIS RESEARCH**  
  
Credit by arrangement.  

**History**  

219 **EUROPE IN ASIA**  
  
Second semester, 3 credits.  

225 **HISTORY OF CHINA**  
  
Continuous throughout year, 3 credits each semester.  

226 **HISTORY OF JAPAN**  
  
Continuous throughout year, 3 credits each semester.  

299 **HISTORY OF CULTURAL RELATIONS BETWEEN CHINA AND THE OCCIDENT**  
  
Continuous throughout year, 2 credits each semester.
235 **HISTORY OF ANCIENT CHINA**  
Second semester, 3 credits.  
Ch'en

250 **HISTORY OF EARLY CIVILIZATION IN THE FAR EAST**  
Sakamaki  
First semester, 2 credits.

251 **HISTORY OF THOUGHT IN JAPAN**  
Second semester, 2 credits.  
Sakamaki

285 **RUSSIA IN ASIA**  
Mehnert  
(Not offered 1939-40.)

295 **SOCIAL HISTORY OF CHINA**  
Ch'en  
Continuous throughout year, 2 credits each semester.

315 **SEMINAR IN JAPANESE HISTORY**  
Sakamaki  
Continuous throughout year, 2 credits each semester.

316 **SEMINAR IN CHINESE CULTURAL HISTORY**  
Ch'en  
Continuous throughout year, 2 credits each semester.

318 **SEMINAR IN RUSSIA IN THE FAR EAST**  
Mehnert  
Continuous throughout year, 2 credits each semester.

**Anthropology**

254 **PEOPLES OF ASIA**  
Bowles  
First semester, 3 credits.

270 **FOLK SOCIETY IN JAPAN AND CHINA**  
Embree  
First semester, 3 credits.

274 **FOUNDATIONS OF CIVILIZATION IN INDIA**  
Bowles  
(Not offered 1939-40.)

275 **PREHISTORY OF ASIA**  
Bowles  
First semester, 3 credits.

277 **SOUTHEAST ASIA**  
Embree, Bowles  
Second semester, 2 credits.

**Economics**

250 **ECONOMIC HISTORY OF JAPAN**  
Taylor  
First semester, 3 credits.

251 **ECONOMIC HISTORY OF CHINA**  
Taylor  
(Not offered 1939-40.)

252 **ECONOMIC PROBLEMS OF JAPAN**  
Taylor  
Second semester, 3 credits.

253 **ECONOMIC PROBLEMS OF CHINA**  
Taylor  
(Not offered 1939-40.)

310-311 **SEMINAR IN THE ECONOMIC HISTORY OF JAPAN**  
Taylor  
Continuous throughout year, 3 credits each semester.
Geography
255 Geography of Asia Coulter
   Second semester, 3 credits.

Philosophy
270-271 Eastern Philosophies Chan
   Continuous throughout year, 2 credits each semester.
321 Seminar in Comparative Philosophy Moore, Chan
   Continuous throughout year, 2 credits each semester.

Political Science
268 International Relations of the Far East Bachman
   (Not offered 1939-40.)
301 Seminar in Far Eastern International Relations Bachman
   Continuous throughout year, 2 credits each semester.